

Attachment 2.
Cell Floor Buyoff Form
Geologic Characterization of the Crescent Junction Disposal Cell Excavation

Attachment 2.
Cell Floor Buyoff Form



Cell Floor Buyoff Form

Client: Department of Energy
Project: Moab UMTRA Project
Date: 12-30-2020

In signing this document, the signatory agrees that the floor is complete and meets both the project specifications and RAIP requirements.

Excavation Area	Lift Area
Cell Floor Phase 3C	

Approver Name/Title	Signature	Sign Date
Mike McCullough/ CJ Operations/Site Mgr.	<i>Mike McCullough</i>	12-30-20
Cody Seager/ QA/QC Representative	<i>Cody Seager</i>	12/30/20
Kathy Turvey/ QA/AC Manager	<i>Kathy Turvey</i>	12/30/2020
Comments		

Cell Floor Buyoff Survey				Date:12/30/20	
Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
7715_stk	6795860.01	2125050.03	4955.10	4955.07	0.03
7716_stk	6795909.96	2125050.04	4956.24	4956.21	0.03
7717_stk	6795960.02	2125050.02	4957.34	4957.35	-0.01
7718_stk	6796010.04	2125049.98	4958.42	4958.48	-0.06
7719_stk	6796060.05	2125049.92	4959.62	4959.62	0.00
7720_stk	6796109.95	2125049.98	4960.76	4960.76	0.01
7721_stk	6796160.07	2125050.02	4961.97	4961.90	0.08
7722_stk	6796210.03	2125049.96	4963.09	4963.03	0.06
7753_stk	6795510.04	2125100.03	4946.98	4946.93	0.05
7754_stk	6795560.04	2125099.95	4948.10	4948.07	0.03
7755_stk	6795610.04	2125100.02	4949.15	4949.21	-0.06
7756_stk	6795659.96	2125100.04	4950.41	4950.34	0.06
7757_stk	6795709.98	2125099.98	4951.49	4951.48	0.01
7758_stk	6795759.99	2125100.05	4952.55	4952.62	-0.07
7759_stk	6795810.04	2125099.99	4953.79	4953.76	0.04
7760_stk	6795860.03	2125100.06	4954.98	4954.89	0.08
7761_stk	6795909.96	2125100.04	4955.99	4956.03	-0.04
7762_stk	6795960.04	2125100.01	4957.17	4957.17	0.00
7763_stk	6796009.99	2125100.09	4958.35	4958.31	0.04
7764_stk	6796059.94	2125100.03	4959.44	4959.44	0.00
7765_stk	6796110.04	2125100.02	4960.57	4960.58	-0.02
7766_stk	6796160.03	2125100.02	4961.79	4961.72	0.07
7767_stk	6796210.01	2125100.00	4962.81	4962.86	-0.05
7789_stk	6795060.01	2125150.07	4936.60	4936.52	0.09
7793_stk	6795260.05	2125150.03	4941.06	4941.07	0.00
7794_stk	6795309.96	2125149.94	4942.22	4942.21	0.01
7795_stk	6795360.06	2125150.00	4943.41	4943.34	0.07
7796_stk	6795409.98	2125149.98	4944.51	4944.48	0.03
7797_stk	6795459.95	2125149.99	4945.71	4945.62	0.09
7798_stk	6795510.08	2125149.97	4946.84	4946.76	0.09
7799_stk	6795560.03	2125149.95	4947.85	4947.89	-0.04
7800_stk	6795610.07	2125149.97	4949.08	4949.03	0.05
7801_stk	6795659.99	2125150.06	4950.21	4950.17	0.04
7802_stk	6795709.99	2125150.08	4951.32	4951.31	0.01
7803_stk	6795759.99	2125150.04	4952.42	4952.44	-0.02
7804_stk	6795809.99	2125150.05	4953.52	4953.58	-0.06
7805_stk	6795860.04	2125150.02	4954.68	4954.72	-0.04
7806_stk	6795909.95	2125150.01	4955.87	4955.86	0.02
7807_stk	6795959.91	2125150.01	4956.91	4956.99	-0.08
7808_stk	6796010.08	2125149.97	4958.13	4958.13	0.00
7809_stk	6796059.95	2125150.00	4959.26	4959.27	-0.01
7810_stk	6796109.93	2125149.95	4960.44	4960.40	0.03
7811_stk	6796159.98	2125149.97	4961.52	4961.54	-0.02
7812_stk	6796210.07	2125150.03	4962.67	4962.68	-0.01

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
7827_stk	6794659.95	2125199.98	4927.34	4927.24	0.09
7828_stk	6794709.97	2125199.93	4928.40	4928.38	0.02
7829_stk	6794760.06	2125200.01	4929.61	4929.52	0.09
7830_stk	6794810.02	2125199.99	4930.73	4930.66	0.07
7831_stk	6794860.05	2125200.06	4931.72	4931.79	-0.07
7832_stk	6794909.99	2125200.06	4932.99	4932.93	0.06
7833_stk	6794959.98	2125200.04	4934.11	4934.07	0.04
7834_stk	6795010.08	2125200.02	4935.28	4935.21	0.07
7835_stk	6795060.06	2125199.97	4936.38	4936.34	0.04
7836_stk	6795109.96	2125200.05	4937.54	4937.48	0.06
7837_stk	6795160.04	2125199.96	4938.71	4938.62	0.10
7838_stk	6795209.97	2125200.04	4939.83	4939.76	0.07
7839_stk	6795259.98	2125200.05	4940.99	4940.89	0.10
7840_stk	6795309.99	2125200.05	4942.12	4942.03	0.09
7841_stk	6795360.05	2125200.09	4943.26	4943.17	0.10
7842_stk	6795409.99	2125199.98	4944.33	4944.30	0.02
7843_stk	6795460.02	2125200.00	4945.49	4945.44	0.05
7844_stk	6795509.97	2125199.96	4946.65	4946.58	0.07
7845_stk	6795560.00	2125200.08	4947.72	4947.72	0.00
7846_stk	6795609.99	2125199.97	4948.91	4948.85	0.05
7847_stk	6795660.00	2125200.05	4950.03	4949.99	0.03
7848_stk	6795710.04	2125200.01	4951.13	4951.13	0.00
7849_stk	6795759.95	2125199.98	4952.31	4952.27	0.05
7850_stk	6795810.10	2125200.01	4953.38	4953.40	-0.02
7851_stk	6795860.00	2125199.94	4954.51	4954.54	-0.03
7851_stk	6795860.03	2125199.98	4954.56	4954.54	0.01
7852_stk	6795910.09	2125200.01	4955.62	4955.68	-0.06
7852_stk	6795909.96	2125200.01	4955.66	4955.68	-0.02
7853_stk	6795960.05	2125199.95	4956.77	4956.82	-0.04
7853_stk	6795960.06	2125200.02	4956.90	4956.82	0.08
7854_stk	6796009.95	2125200.05	4957.94	4957.95	-0.02
7854_stk	6796010.05	2125200.05	4957.96	4957.95	0.00
7855_stk	6796059.99	2125200.03	4959.05	4959.09	-0.04
7855_stk	6796060.04	2125199.98	4959.13	4959.09	0.04
7856_stk	6796110.06	2125199.98	4960.23	4960.23	0.01
7856_stk	6796109.93	2125200.04	4960.23	4960.23	0.01
7857_stk	6796159.97	2125199.91	4961.33	4961.37	-0.04
7858_stk	6796209.96	2125199.99	4962.55	4962.50	0.05
7872_stk	6794609.98	2125250.08	4925.98	4925.93	0.05
7873_stk	6794659.99	2125249.96	4927.06	4927.07	-0.01
7873_stk	6794660.01	2125249.92	4927.12	4927.07	0.05
7874_stk	6794710.05	2125249.98	4928.23	4928.20	0.03
7875_stk	6794759.97	2125249.95	4929.43	4929.34	0.09
7876_stk	6794810.08	2125249.99	4930.55	4930.48	0.07
7877_stk	6794860.03	2125250.04	4931.71	4931.62	0.10

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
7878_stk	6794910.03	2125249.97	4932.82	4932.75	0.06
7879_stk	6794960.02	2125250.05	4933.95	4933.89	0.06
7880_stk	6795010.02	2125250.06	4935.11	4935.03	0.08
7881_stk	6795060.03	2125249.99	4936.25	4936.17	0.08
7882_stk	6795109.98	2125249.97	4937.36	4937.30	0.06
7883_stk	6795160.00	2125250.01	4938.53	4938.44	0.09
7884_stk	6795210.05	2125249.98	4939.64	4939.58	0.06
7885_stk	6795260.04	2125249.95	4940.75	4940.72	0.04
7886_stk	6795310.03	2125250.06	4941.91	4941.85	0.06
7887_stk	6795360.06	2125249.96	4943.06	4942.99	0.07
7888_stk	6795410.01	2125250.06	4944.16	4944.13	0.04
7889_stk	6795459.96	2125250.02	4945.31	4945.27	0.05
7890_stk	6795510.03	2125250.06	4946.44	4946.40	0.04
7891_stk	6795560.01	2125250.07	4947.57	4947.54	0.03
7892_stk	6795610.06	2125250.04	4948.70	4948.68	0.02
7893_stk	6795659.98	2125250.01	4949.87	4949.82	0.06
7894_stk	6795709.97	2125250.02	4951.03	4950.95	0.08
7895_stk	6795759.98	2125250.00	4952.13	4952.09	0.04
7896_stk	6795810.05	2125249.98	4953.29	4953.23	0.06
7897_stk	6795859.99	2125249.94	4954.38	4954.37	0.02
7898_stk	6795910.07	2125250.02	4955.45	4955.50	-0.05
7899_stk	6795960.04	2125249.97	4956.59	4956.64	-0.05
7900_stk	6796010.03	2125250.05	4957.74	4957.78	-0.03
7901_stk	6796060.02	2125249.98	4958.87	4958.91	-0.04
7902_stk	6796109.98	2125250.00	4960.11	4960.05	0.06
7903_stk	6796160.04	2125249.99	4961.20	4961.19	0.01
7904_stk	6796210.03	2125250.05	4962.34	4962.33	0.01
7918_stk	6794560.00	2125300.00	4924.64	4924.62	0.02
7919_stk	6794609.95	2125300.01	4925.83	4925.75	0.08
7920_stk	6794659.97	2125299.95	4926.96	4926.89	0.07
7921_stk	6794710.00	2125300.00	4928.10	4928.03	0.07
7922_stk	6794759.97	2125300.08	4929.21	4929.17	0.04
7923_stk	6794809.96	2125299.96	4930.32	4930.30	0.02
7924_stk	6794859.97	2125299.93	4931.53	4931.44	0.09
7925_stk	6794909.95	2125299.99	4932.65	4932.58	0.07
7926_stk	6794959.98	2125300.06	4933.72	4933.72	0.01
7927_stk	6795009.97	2125300.05	4934.92	4934.85	0.07
7928_stk	6795060.00	2125300.08	4936.08	4935.99	0.09
7929_stk	6795110.02	2125300.03	4937.22	4937.13	0.10
7930_stk	6795159.93	2125299.99	4938.28	4938.26	0.01
7931_stk	6795210.02	2125299.98	4939.48	4939.40	0.08
7932_stk	6795260.02	2125300.03	4940.63	4940.54	0.09
7933_stk	6795310.06	2125300.04	4941.71	4941.68	0.04
7934_stk	6795359.98	2125299.98	4942.90	4942.81	0.08
7935_stk	6795410.04	2125300.01	4944.04	4943.95	0.09

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
7936_stk	6795459.95	2125299.99	4945.10	4945.09	0.01
7937_stk	6795510.01	2125300.04	4946.31	4946.23	0.08
7938_stk	6795560.02	2125299.98	4947.44	4947.36	0.07
7939_stk	6795609.98	2125299.98	4948.60	4948.50	0.09
7940_stk	6795659.96	2125300.05	4949.71	4949.64	0.07
7941_stk	6795710.05	2125300.02	4950.84	4950.78	0.06
7942_stk	6795759.97	2125300.06	4951.98	4951.91	0.07
7943_stk	6795810.00	2125299.97	4953.06	4953.05	0.01
7944_stk	6795859.94	2125299.97	4954.27	4954.19	0.08
7945_stk	6795910.07	2125300.00	4955.36	4955.33	0.04
7946_stk	6795960.04	2125300.07	4956.50	4956.46	0.03
7947_stk	6796010.00	2125300.07	4957.63	4957.60	0.03
7948_stk	6796059.95	2125300.06	4958.76	4958.74	0.02
7949_stk	6796109.98	2125300.02	4959.79	4959.88	-0.09
7950_stk	6796160.04	2125300.06	4960.92	4961.01	-0.09
7951_stk	6796209.96	2125300.03	4962.14	4962.15	-0.01
7964_stk	6794560.07	2125350.04	4924.45	4924.44	0.01
7965_stk	6794610.01	2125350.04	4925.58	4925.58	0.00
7966_stk	6794660.07	2125349.96	4926.76	4926.71	0.04
7967_stk	6794709.95	2125349.98	4927.92	4927.85	0.07
7968_stk	6794760.05	2125350.06	4928.96	4928.99	-0.03
7969_stk	6794810.06	2125349.98	4930.12	4930.13	0.00
7970_stk	6794860.03	2125349.99	4931.28	4931.26	0.01
7971_stk	6794910.01	2125350.01	4932.49	4932.40	0.08
7972_stk	6794960.04	2125350.00	4933.55	4933.54	0.01
7973_stk	6795010.00	2125350.01	4934.69	4934.68	0.01
7974_stk	6795060.04	2125350.00	4935.86	4935.81	0.05
7975_stk	6795109.96	2125349.98	4937.01	4936.95	0.06
7976_stk	6795160.04	2125350.07	4938.17	4938.09	0.09
7977_stk	6795210.01	2125350.06	4939.29	4939.23	0.07
7978_stk	6795259.98	2125350.08	4940.42	4940.36	0.06
7979_stk	6795309.98	2125350.01	4941.56	4941.50	0.06
7980_stk	6795360.06	2125349.99	4942.71	4942.64	0.07
7981_stk	6795409.98	2125349.95	4943.85	4943.78	0.08
7982_stk	6795460.06	2125349.98	4945.00	4944.91	0.09
7983_stk	6795509.93	2125350.02	4946.14	4946.05	0.09
7984_stk	6795560.05	2125349.98	4947.28	4947.19	0.09
7985_stk	6795610.06	2125350.06	4948.36	4948.33	0.03
7986_stk	6795659.95	2125350.04	4949.55	4949.46	0.09
7987_stk	6795709.94	2125350.05	4950.68	4950.60	0.07
7988_stk	6795759.97	2125350.03	4951.77	4951.74	0.04
7989_stk	6795809.95	2125350.04	4952.96	4952.88	0.08
7990_stk	6795859.98	2125350.00	4954.11	4954.01	0.10
7991_stk	6795909.98	2125350.05	4955.18	4955.15	0.03
7992_stk	6795959.98	2125349.96	4956.36	4956.29	0.07

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
7993_stk	6796009.96	2125349.94	4957.39	4957.42	-0.03
7994_stk	6796059.99	2125350.04	4958.52	4958.56	-0.04
7995_stk	6796109.95	2125350.02	4959.61	4959.70	-0.09
7996_stk	6796159.99	2125349.93	4960.79	4960.84	-0.05
7997_stk	6796210.03	2125350.02	4961.97	4961.97	-0.01
8010_stk	6794610.05	2125399.99	4925.44	4925.40	0.04
8011_stk	6794659.98	2125400.07	4926.59	4926.54	0.06
8012_stk	6794709.98	2125399.92	4927.72	4927.68	0.04
8013_stk	6794759.94	2125400.00	4928.87	4928.81	0.06
8014_stk	6794809.98	2125400.06	4930.01	4929.95	0.06
8015_stk	6794859.95	2125399.99	4931.15	4931.09	0.06
8016_stk	6794910.03	2125400.06	4932.26	4932.23	0.03
8017_stk	6794960.07	2125399.96	4933.41	4933.36	0.05
8018_stk	6795009.94	2125399.93	4934.58	4934.50	0.08
8019_stk	6795059.96	2125399.96	4935.70	4935.64	0.06
8020_stk	6795110.00	2125400.01	4936.83	4936.77	0.06
8021_stk	6795160.00	2125400.01	4938.00	4937.91	0.09
8022_stk	6795209.97	2125399.95	4939.07	4939.05	0.02
8023_stk	6795260.07	2125399.98	4940.20	4940.19	0.01
8024_stk	6795310.05	2125400.01	4941.36	4941.32	0.03
8025_stk	6795360.02	2125399.97	4942.49	4942.46	0.03
8026_stk	6795410.00	2125400.06	4943.60	4943.60	0.00
8027_stk	6795460.01	2125399.97	4944.80	4944.74	0.07
8028_stk	6795510.01	2125400.00	4945.88	4945.87	0.01
8029_stk	6795560.01	2125400.07	4947.05	4947.01	0.04
8030_stk	6795610.01	2125399.94	4948.21	4948.15	0.06
8031_stk	6795659.96	2125400.00	4949.32	4949.29	0.03
8032_stk	6795710.00	2125399.95	4950.47	4950.42	0.05
8033_stk	6795759.97	2125399.94	4951.52	4951.56	-0.04
8034_stk	6795809.96	2125400.03	4952.69	4952.70	0.00
8035_stk	6795860.02	2125400.02	4953.82	4953.84	-0.01
8036_stk	6795909.93	2125400.00	4954.97	4954.97	0.00
8037_stk	6795959.97	2125399.98	4956.04	4956.11	-0.07
8038_stk	6796009.99	2125400.02	4957.25	4957.25	0.00
8039_stk	6795010.05	2125399.98	4934.58	4934.50	0.07
8040_stk	6796060.01	2125400.01	4958.34	4958.39	-0.04
8041_stk	6796110.07	2125399.98	4959.51	4959.52	-0.01
8042_stk	6796160.04	2125400.04	4960.61	4960.66	-0.06
8043_stk	6796260.01	2125400.03	4963.04	4963.10	-0.06
8043_stk	6796210.01	2125399.98	4961.88	4961.80	0.09
8055_stk	6794610.04	2125450.03	4925.19	4925.22	-0.04
8056_stk	6794660.00	2125450.07	4926.46	4926.36	0.09
8057_stk	6794710.06	2125449.96	4927.54	4927.50	0.05
8058_stk	6794760.04	2125449.97	4928.65	4928.64	0.01
8059_stk	6794810.02	2125450.02	4929.84	4929.77	0.07

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Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8060_stk	6794860.06	2125450.03	4931.00	4930.91	0.09
8061_stk	6794909.96	2125450.05	4932.09	4932.05	0.04
8062_stk	6794959.96	2125450.01	4933.27	4933.19	0.08
8063_stk	6795010.00	2125450.02	4934.38	4934.32	0.06
8064_stk	6795059.95	2125450.06	4935.51	4935.46	0.05
8065_stk	6795110.06	2125450.02	4936.68	4936.60	0.08
8066_stk	6795159.96	2125449.95	4937.79	4937.74	0.06
8067_stk	6795209.95	2125450.00	4938.94	4938.87	0.07
8068_stk	6795260.02	2125449.96	4940.10	4940.01	0.09
8069_stk	6795309.98	2125449.98	4941.18	4941.15	0.03
8070_stk	6795360.00	2125450.04	4942.35	4942.29	0.07
8071_stk	6795410.01	2125449.93	4943.50	4943.42	0.07
8072_stk	6795460.06	2125449.99	4944.65	4944.56	0.09
8073_stk	6795509.97	2125450.01	4945.77	4945.70	0.07
8074_stk	6795559.97	2125450.01	4946.92	4946.84	0.08
8075_stk	6795609.96	2125450.05	4947.99	4947.97	0.02
8076_stk	6795660.04	2125449.98	4949.16	4949.11	0.05
8077_stk	6795710.03	2125449.96	4950.26	4950.25	0.01
8078_stk	6795759.96	2125449.97	4951.35	4951.39	-0.04
8079_stk	6795810.02	2125449.94	4952.47	4952.52	-0.06
8080_stk	6795860.06	2125450.01	4953.58	4953.66	-0.08
8081_stk	6795910.05	2125450.06	4954.75	4954.80	-0.05
8082_stk	6795960.00	2125449.97	4955.90	4955.93	-0.04
8083_stk	6796009.97	2125450.01	4957.05	4957.07	-0.02
8084_stk	6796060.03	2125449.98	4958.22	4958.21	0.01
8085_stk	6796109.97	2125450.00	4959.26	4959.35	-0.08
8086_stk	6796159.99	2125449.93	4960.45	4960.48	-0.04
8087_stk	6796210.04	2125449.95	4961.66	4961.62	0.04
8088_stk	6796259.98	2125450.00	4962.70	4962.76	-0.06
8100_stk	6794610.06	2125499.98	4925.11	4925.05	0.07
8101_stk	6794660.05	2125499.98	4926.21	4926.19	0.03
8102_stk	6794709.94	2125500.05	4927.31	4927.32	-0.01
8103_stk	6794759.97	2125500.00	4928.49	4928.46	0.03
8104_stk	6794810.00	2125500.03	4929.65	4929.60	0.05
8105_stk	6794860.02	2125499.99	4930.83	4930.74	0.09
8106_stk	6794910.05	2125499.98	4931.96	4931.87	0.09
8107_stk	6794959.97	2125499.94	4933.05	4933.01	0.04
8108_stk	6795010.04	2125500.00	4934.21	4934.15	0.07
8109_stk	6795059.92	2125500.00	4935.35	4935.28	0.06
8110_stk	6795109.99	2125499.98	4936.46	4936.42	0.03
8111_stk	6795160.07	2125500.03	4937.66	4937.56	0.10
8112_stk	6795209.96	2125500.00	4938.75	4938.70	0.05
8113_stk	6795259.96	2125499.97	4939.89	4939.83	0.06
8114_stk	6795309.99	2125500.06	4941.05	4940.97	0.08
8115_stk	6795359.96	2125500.00	4942.16	4942.11	0.05

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8116_stk	6795410.01	2125499.97	4943.27	4943.25	0.02
8117_stk	6795460.01	2125499.95	4944.41	4944.38	0.02
8118_stk	6795510.00	2125499.95	4945.55	4945.52	0.03
8119_stk	6795560.03	2125500.06	4946.69	4946.66	0.03
8120_stk	6795609.92	2125500.01	4947.80	4947.80	0.01
8121_stk	6795660.07	2125499.97	4948.98	4948.93	0.05
8122_stk	6795709.98	2125500.02	4950.06	4950.07	-0.01
8123_stk	6795759.97	2125499.99	4951.25	4951.21	0.04
8124_stk	6795810.01	2125500.07	4952.31	4952.35	-0.04
8125_stk	6795860.00	2125500.08	4953.50	4953.48	0.02
8126_stk	6795909.98	2125500.05	4954.61	4954.62	-0.01
8127_stk	6795960.05	2125500.02	4955.74	4955.76	-0.02
8128_stk	6796009.99	2125499.95	4956.94	4956.90	0.05
8129_stk	6796060.01	2125499.98	4957.95	4958.03	-0.09
8130_stk	6796110.04	2125499.99	4959.08	4959.17	-0.09
8131_stk	6796160.03	2125500.03	4960.27	4960.31	-0.04
8132_stk	6796210.08	2125499.94	4961.39	4961.45	-0.06
8133_stk	6796260.08	2125499.99	4962.53	4962.58	-0.05
8145_stk	6794610.02	2125550.04	4924.81	4924.87	-0.07
8146_stk	6794659.99	2125549.96	4926.04	4926.01	0.03
8147_stk	6794709.96	2125550.04	4927.22	4927.15	0.08
8148_stk	6794759.95	2125549.98	4928.36	4928.28	0.08
8149_stk	6794810.04	2125550.01	4929.50	4929.42	0.07
8150_stk	6794860.08	2125550.00	4930.57	4930.56	0.01
8151_stk	6794910.01	2125550.05	4931.74	4931.70	0.04
8152_stk	6794960.02	2125549.95	4932.86	4932.83	0.02
8153_stk	6795010.02	2125550.00	4934.05	4933.97	0.08
8154_stk	6795060.00	2125549.96	4935.15	4935.11	0.04
8154_stk	6795059.95	2125549.99	4935.17	4935.11	0.06
8155_stk	6795109.95	2125550.02	4936.20	4936.25	-0.05
8155_stk	6795110.00	2125550.04	4936.27	4936.25	0.03
8156_stk	6795159.94	2125549.97	4937.33	4937.38	-0.05
8156_stk	6795160.05	2125549.96	4937.44	4937.38	0.06
8157_stk	6795209.97	2125549.92	4938.59	4938.52	0.07
8157_stk	6795209.99	2125550.07	4938.61	4938.52	0.09
8158_stk	6795260.01	2125549.91	4939.65	4939.66	-0.01
8158_stk	6795260.04	2125549.93	4939.68	4939.66	0.03
8159_stk	6795310.01	2125550.05	4940.74	4940.80	-0.05
8159_stk	6795310.05	2125550.03	4940.72	4940.80	-0.08
8160_stk	6795360.02	2125549.98	4941.92	4941.93	-0.01
8160_stk	6795359.94	2125550.02	4941.87	4941.93	-0.07
8161_stk	6795409.98	2125549.91	4943.05	4943.07	-0.02
8161_stk	6795410.01	2125549.95	4943.07	4943.07	0.00
8162_stk	6795459.94	2125550.01	4944.20	4944.21	-0.01
8162_stk	6795459.93	2125550.00	4944.23	4944.21	0.02

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8163_stk	6795510.02	2125550.08	4945.28	4945.35	-0.07
8163_stk	6795510.06	2125549.98	4945.35	4945.35	0.01
8164_stk	6795560.02	2125550.02	4946.44	4946.48	-0.04
8164_stk	6795560.05	2125549.94	4946.52	4946.48	0.04
8165_stk	6795610.01	2125549.98	4947.65	4947.62	0.03
8166_stk	6795659.95	2125549.98	4948.75	4948.76	-0.01
8167_stk	6795710.06	2125549.97	4949.91	4949.89	0.02
8168_stk	6795760.00	2125550.05	4951.12	4951.03	0.09
8169_stk	6795810.02	2125549.94	4952.17	4952.17	0.00
8170_stk	6795860.06	2125550.03	4953.27	4953.31	-0.04
8171_stk	6795910.04	2125550.03	4954.39	4954.44	-0.05
8172_stk	6795960.02	2125550.00	4955.58	4955.58	0.00
8173_stk	6796010.03	2125549.98	4956.74	4956.72	0.02
8174_stk	6796059.94	2125549.98	4957.77	4957.86	-0.09
8175_stk	6796110.03	2125550.06	4958.92	4958.99	-0.07
8176_stk	6796160.03	2125550.05	4960.03	4960.13	-0.10
8177_stk	6796210.04	2125550.03	4961.22	4961.27	-0.05
8178_stk	6796259.94	2125550.00	4962.32	4962.41	-0.09
8191_stk	6794610.06	2125600.01	4924.67	4924.70	-0.03
8192_stk	6794660.04	2125599.94	4925.82	4925.83	-0.02
8193_stk	6794710.03	2125600.04	4927.02	4926.97	0.05
8194_stk	6794760.04	2125599.96	4928.18	4928.11	0.07
8195_stk	6794810.06	2125600.05	4929.33	4929.25	0.09
8196_stk	6794860.02	2125599.97	4930.40	4930.38	0.01
8197_stk	6794910.01	2125599.96	4931.58	4931.52	0.06
8198_stk	6794960.05	2125600.00	4932.68	4932.66	0.03
8199_stk	6795010.04	2125599.95	4933.80	4933.79	0.01
8200_stk	6795059.99	2125599.97	4934.97	4934.93	0.03
8201_stk	6795110.06	2125600.03	4936.02	4936.07	-0.05
8202_stk	6795160.05	2125599.98	4937.23	4937.21	0.02
8203_stk	6795210.00	2125599.99	4938.36	4938.34	0.02
8204_stk	6795260.06	2125599.96	4939.52	4939.48	0.04
8205_stk	6795309.96	2125600.06	4940.56	4940.62	-0.06
8206_stk	6795360.03	2125600.00	4941.69	4941.76	-0.07
8207_stk	6795409.97	2125600.05	4942.86	4942.89	-0.03
8208_stk	6795460.01	2125599.97	4944.01	4944.03	-0.02
8209_stk	6795510.01	2125600.02	4945.17	4945.17	0.00
8210_stk	6795560.03	2125600.01	4946.24	4946.31	-0.07
8211_stk	6795610.02	2125600.00	4947.42	4947.44	-0.02
8212_stk	6795660.01	2125600.03	4948.49	4948.58	-0.09
8213_stk	6795710.04	2125599.97	4949.72	4949.72	0.01
8214_stk	6795760.05	2125599.99	4950.85	4950.86	0.00
8215_stk	6795810.05	2125599.97	4952.02	4951.99	0.03
8216_stk	6795860.07	2125599.97	4953.12	4953.13	-0.01
8217_stk	6795909.95	2125600.05	4954.19	4954.27	-0.08

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8218_stk	6795959.98	2125599.99	4955.44	4955.41	0.03
8219_stk	6796010.00	2125600.01	4956.50	4956.54	-0.05
8220_stk	6796060.07	2125600.07	4957.60	4957.68	-0.08
8221_stk	6796109.96	2125599.98	4958.74	4958.82	-0.08
8222_stk	6796160.04	2125599.98	4960.03	4959.96	0.07
8223_stk	6796209.97	2125599.97	4961.13	4961.09	0.04
8224_stk	6796260.03	2125600.05	4962.15	4962.23	-0.08
8237_stk	6794610.01	2125649.95	4924.60	4924.52	0.08
8238_stk	6794659.92	2125650.01	4925.69	4925.66	0.03
8239_stk	6794710.04	2125649.97	4926.79	4926.79	-0.01
8240_stk	6794760.01	2125650.07	4927.97	4927.93	0.04
8241_stk	6794810.03	2125649.94	4929.07	4929.07	0.00
8242_stk	6794859.96	2125649.98	4930.29	4930.21	0.08
8243_stk	6794909.97	2125649.95	4931.38	4931.34	0.04
8244_stk	6794959.98	2125650.00	4932.48	4932.48	0.00
8245_stk	6795009.99	2125650.06	4933.66	4933.62	0.04
8246_stk	6795060.00	2125649.95	4934.75	4934.76	-0.01
8247_stk	6795110.01	2125649.95	4935.90	4935.89	0.00
8248_stk	6795160.06	2125649.95	4937.00	4937.03	-0.03
8249_stk	6795210.03	2125649.98	4938.20	4938.17	0.03
8250_stk	6795259.99	2125649.99	4939.27	4939.31	-0.03
8251_stk	6795310.05	2125650.04	4940.42	4940.44	-0.02
8252_stk	6795360.06	2125650.06	4941.48	4941.58	-0.10
8253_stk	6795410.00	2125650.02	4942.76	4942.72	0.04
8254_stk	6795460.01	2125650.03	4943.91	4943.86	0.05
8255_stk	6795510.04	2125649.99	4945.00	4944.99	0.01
8256_stk	6795560.00	2125650.03	4946.14	4946.13	0.01
8257_stk	6795610.00	2125650.01	4947.33	4947.27	0.06
8258_stk	6795660.00	2125650.06	4948.50	4948.40	0.09
8259_stk	6795710.01	2125650.06	4949.61	4949.54	0.07
8260_stk	6795760.02	2125650.06	4950.71	4950.68	0.03
8261_stk	6795810.05	2125650.02	4951.88	4951.82	0.06
8262_stk	6795860.02	2125650.02	4952.95	4952.95	0.00
8263_stk	6795909.98	2125649.99	4954.13	4954.09	0.04
8264_stk	6795960.03	2125649.99	4955.24	4955.23	0.01
8265_stk	6796010.04	2125649.98	4956.37	4956.37	0.00
8266_stk	6796059.99	2125650.00	4957.52	4957.50	0.01
8267_stk	6796110.01	2125650.00	4958.66	4958.64	0.01
8268_stk	6796160.03	2125649.97	4959.78	4959.78	0.00
8269_stk	6796210.02	2125649.97	4960.97	4960.92	0.06
8283_stk	6794609.99	2125700.04	4924.39	4924.34	0.04
8284_stk	6794659.98	2125699.95	4925.47	4925.48	-0.01
8285_stk	6794709.95	2125700.00	4926.60	4926.62	-0.02
8286_stk	6794760.04	2125700.02	4927.75	4927.75	-0.01
8287_stk	6794809.93	2125699.97	4928.94	4928.89	0.04

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8288_stk	6794859.94	2125700.00	4930.01	4930.03	-0.02
8289_stk	6794909.99	2125699.96	4931.13	4931.17	-0.04
8290_stk	6794960.05	2125700.03	4932.31	4932.30	0.01
8291_stk	6795009.96	2125700.03	4933.42	4933.44	-0.02
8292_stk	6795060.02	2125699.95	4934.54	4934.58	-0.04
8293_stk	6795110.02	2125700.08	4935.73	4935.72	0.01
8294_stk	6795159.99	2125700.03	4936.86	4936.85	0.01
8295_stk	6795209.95	2125700.00	4937.99	4937.99	0.00
8296_stk	6795259.98	2125699.94	4939.21	4939.13	0.08
8297_stk	6795309.94	2125699.96	4940.28	4940.27	0.02
8298_stk	6795360.04	2125700.04	4941.41	4941.40	0.01
8299_stk	6795409.98	2125699.97	4942.56	4942.54	0.02
8300_stk	6795460.03	2125699.98	4943.73	4943.68	0.06
8301_stk	6795510.06	2125699.98	4944.81	4944.82	-0.01
8302_stk	6795559.97	2125700.00	4946.00	4945.95	0.05
8303_stk	6795610.03	2125699.98	4947.13	4947.09	0.03
8304_stk	6795660.04	2125700.02	4948.29	4948.23	0.07
8305_stk	6795710.02	2125699.96	4949.45	4949.37	0.08
8306_stk	6795759.99	2125700.05	4950.60	4950.50	0.10
8307_stk	6795810.04	2125700.01	4951.69	4951.64	0.05
8308_stk	6795859.96	2125700.06	4952.75	4952.78	-0.03
8309_stk	6795910.01	2125699.99	4953.89	4953.92	-0.03
8310_stk	6795960.02	2125700.02	4955.08	4955.05	0.02
8311_stk	6796010.03	2125700.01	4956.17	4956.19	-0.02
8312_stk	6796060.03	2125699.96	4957.33	4957.33	0.00
8328_stk	6794610.04	2125750.06	4924.14	4924.17	-0.03
8329_stk	6794660.05	2125749.94	4925.35	4925.30	0.05
8330_stk	6794709.95	2125749.95	4926.38	4926.44	-0.07
8331_stk	6794760.00	2125750.03	4927.66	4927.58	0.08
8332_stk	6794810.01	2125749.95	4928.75	4928.72	0.03
8333_stk	6794859.98	2125750.01	4929.87	4929.85	0.02
8334_stk	6794910.04	2125750.00	4930.97	4930.99	-0.02
8335_stk	6794960.07	2125750.00	4932.06	4932.13	-0.07
8336_stk	6795009.97	2125750.05	4933.26	4933.27	0.00
8337_stk	6795060.04	2125750.02	4934.36	4934.40	-0.05
8338_stk	6795110.01	2125749.94	4935.56	4935.54	0.02
8339_stk	6795159.97	2125749.95	4936.64	4936.68	-0.03
8340_stk	6795209.98	2125749.96	4937.88	4937.82	0.07
8341_stk	6795260.00	2125749.96	4938.95	4938.95	-0.01
8342_stk	6795310.08	2125750.01	4940.12	4940.09	0.02
8343_stk	6795360.00	2125749.97	4941.19	4941.23	-0.03
8344_stk	6795410.05	2125749.99	4942.36	4942.37	-0.01
8345_stk	6795459.98	2125749.99	4943.42	4943.50	-0.08
8346_stk	6795510.04	2125750.02	4944.64	4944.64	0.00
8347_stk	6795560.00	2125750.03	4945.83	4945.78	0.05

Point Name	Measured N	Measured E	Measured Elv	Design Grade	Cut/Fill (+/-)
8348_stk	6795610.00	2125750.02	4946.91	4946.91	-0.01
8349_stk	6795660.04	2125750.03	4948.04	4948.05	-0.01
8381_stk	6795010.01	2125799.93	4933.06	4933.09	-0.03
8382_stk	6795059.95	2125799.96	4934.27	4934.23	0.04
8383_stk	6795110.08	2125800.02	4935.38	4935.36	0.02
8384_stk	6795109.99	2125799.97	4935.35	4935.36	-0.02

Comments: QC performed a visual inspection of the final surface with satisfactory results. Visual inspections of the final surface that included surveying, grade and slope verification and visual observation. The North and South slopes measured at 2:1 (H:V), the floor grid survey points all complied to +/- 0.1ft of the design floor grade.

Approval Date: 12/30/2020 Total FT² 1,171,174 ft²

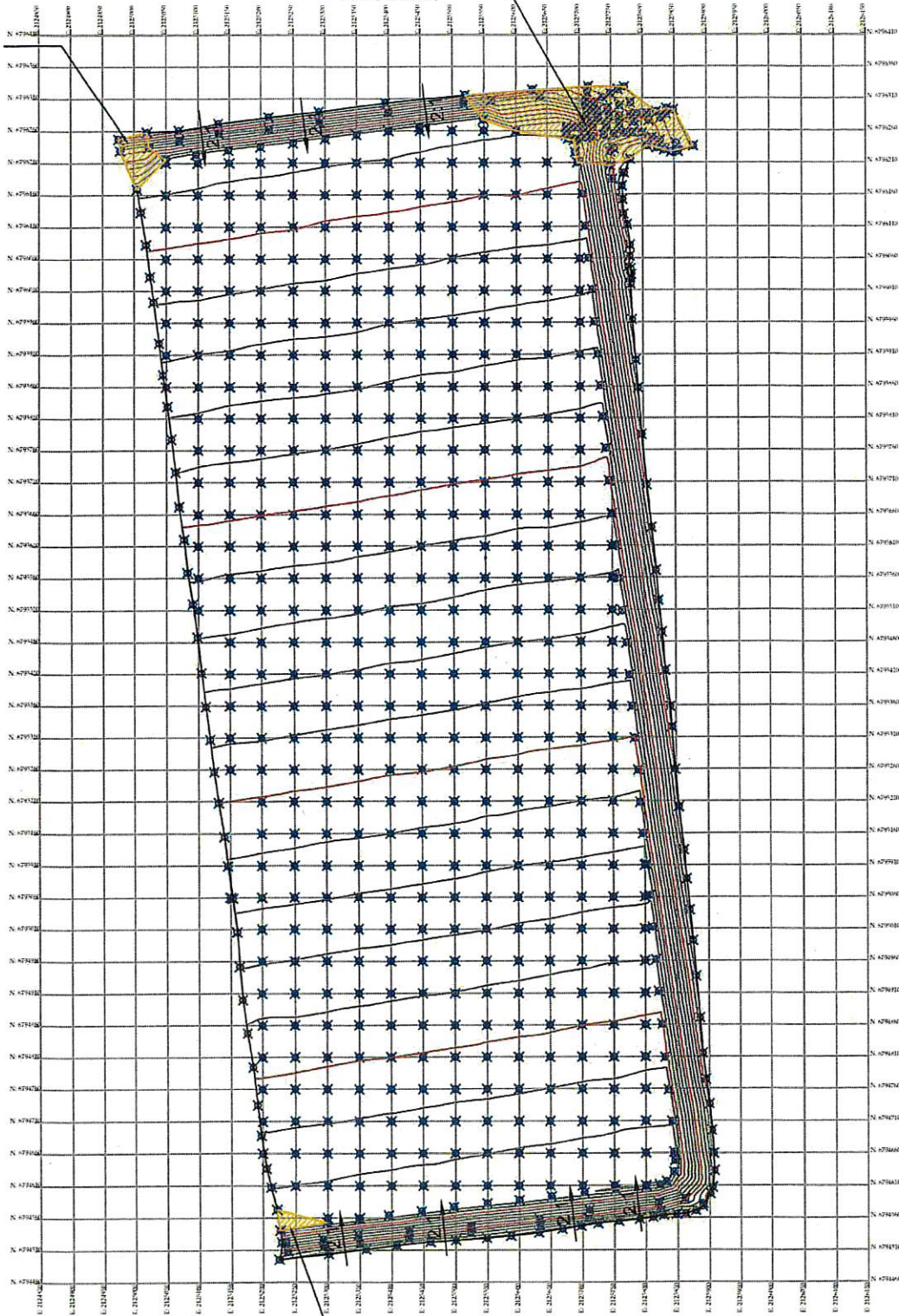
North West Corner: 6796310 N 2125700 E

QC Signature: *Cathy Seeger*

Reviewed By: *[Signature]*

Rad rope hindered grading.
Adjust when rope is moved.

Entrance Ramp
Under Construction



Rad rope hindered grading.
Adjust when rope is moved.



Legend

- As-Built Contours Major (10')
- As-Built Contours Minor (2')

NORTHWIND
PORTAGE, INC.

2021 N HWY 191
Moab, UT 84532
P: (435) 719 - 2800

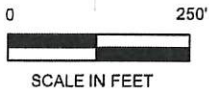
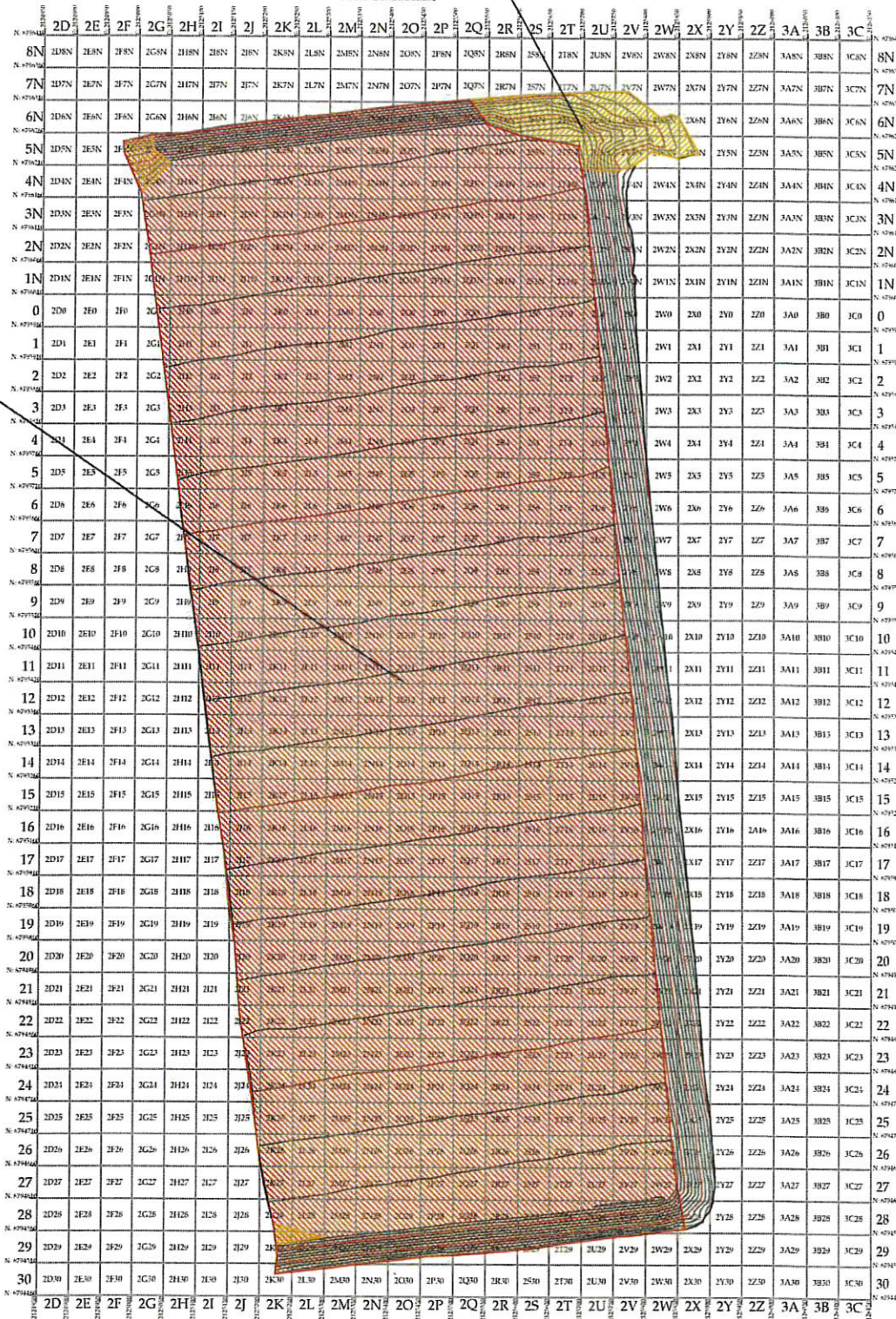
Crescent Junction
Phase 3C Cell Expansion
Floor Grade Verification

12-30-2020

Figure 1

Entrance Ramp
Under Construction

Buyoff Footprint
1,171,174 FT²
26.9 Acres



Legend

- As-Built Contours Major (10')
- As-Built Contours Minor (2')



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Moab, UT 84532
P: (435) 719 - 2800

**Crescent Junction
Phase 3C Cell Expansion
Floor Grade Verification**

12-30-2020

Figure 2

Attachment 2.
Geologic Characterization of the Crescent Junction Disposal Cell Excavation

Geologic Characterization of the Crescent Junction Disposal Cell Excavation

Phase IIIc

Purpose: Inspect the cell floor in the area recently excavated by Ames Construction and verify it is at least 2 feet into the weathered and fractured Mancos Shale, as required by the Remedial Action Selection Report and Remedial Action Inspection Plan. Document geologic characteristics including general lithology, structure, color, and bedding plane measurements.

General Observations: The cell was visually verified to have been excavated at least 2 feet into the weathered Mancos Shale and there were no visual signs of moisture or seeps. Locations were chosen based on accessibility and representation of the weathered Mancos Shale within the excavation. The general lithology and structure were described and bedding planes were measured with a compass when present. The Munsell Soil Color Chart was used for recording the color of the wetted rock.

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 1

Observations: Weathered Mancos Shale, flaggy bedding planes visible in cell floor (3-4" wide), some gypsum precipitation on bedding planes, limonitic staining, breaks into angular fragments (1/8-1" pieces), some areas of darker gray mudstone present. 10 YR 5/6 (yellowish brown) for the limonitic beds, 10 YR 4/2 (dark grayish brown). Bedding plane N70°W 10°NE.

Photographs (ID number and description):

1: Flaggy bedding plan present in cell floor and along eastern edge of cell wall.

Survey Points:

N 38°36.2744

W 109°35.4055



Photograph 1

Geologic Characterization of the Crescent Junction Cell Excavation

Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 2

Observations: Weathered Mancos Shale, southeastern corner of cell floor, no bedding planes present, subangular fragments (1/4-2"), gypsum precipitation on some bedding faces, some darker gray carbonized material present, silty texture. Gley 1 4/5GY (dark greenish gray).

Photographs (ID number and description):

2: Silty subangular fragments in southeastern corner of cell floor.

Survey Points:

N 38°57.6851

W 109°47.5968



Photograph 2

Geologic Characterization of the Crescent Junction Cell Excavation

Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 3

Observations: Weathered Mancos Shale, fissile siltstone, limonite staining, breaks into angular plates, crumbled bedding planes present (cannot obtain strike/dip), sandy lenses mixed in, fragments break into ½ to 6” pieces. 10YR 4/2 (dark grayish brown).

Photographs (ID number and description):

3: Fissile siltstone, sandy lens present in photograph just up from the compass.

Survey Points:

N 38°57.7075

W 109°47.5953



Photograph 3

Geologic Characterization of the Crescent Junction Cell Excavation
Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 4

Observations: Weathered Mancos Shale, increase in clay, subangular clasts, compacted areas form a sticky clay, breaks into ¼ to 4" pieces, gypsum coatings, limonite staining. 10YR 4/2 (dark grayish brown). Bedding plane N80°W 5°NE.

Photographs (ID number and description):

4: Weathered Mancos Shale

Survey Points:

N 38°57.6176

W 109°47.6247



Photograph 4

Geologic Characterization of the Crescent Junction Cell Excavation
Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 5

Observations: Weathered Mancos Shale, flaggy fragments, breaks into large plates, angular to sub-angular, no bedding planes present, limonite staining, gypsum coatings, high clay content. Gley1 3/N (very dark gray).

Photographs (ID number and description):

5: High clay content, weathered shale

Survey Points:

N 38°57.6115

W 109°47.6869



Photograph 5

Geologic Characterization of the Crescent Junction Cell Excavation
Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 6

Observations: Weathered Mancos Shale, southern portion of cell wall, fissile, angular to subangular fragments 1-2", silty clay. Gley1 3/N (very dark gray).

Photographs (ID number and description):

6: High clay content, weathered shale

7: Panned out view south face of cell

Survey Points:

N 38°57.6458

W 109°47.7174



Photograph 6



Photograph 7

Geologic Characterization of the Crescent Junction Cell Excavation
Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 7

Observations: Weathered Mancos Shale, middle of cell floor, subangular clasts, high clay content. 10YR 4/2 (dark grayish brown). Bedding plane, N75°W 3°NE

Photographs (ID number and description):

8: High clay content, middle of cell

Survey Points:

N 38°57.7114

W 109°47.6810



Photograph 8

Geologic Characterization of the Crescent Junction Cell Excavation

Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 8

Observations: Weathered Mancos Shale, north end of the cell floor, bedding planes present, flaggy bedding, breaks into larger fragments, gypsum nodules present between bedding planes, very silty. N85°W 2°NE. 10YR 4/2 (darky grayish brown).

Photographs (ID number and description):

9: Bedding plane on north end of cell

Survey Points:

N 38°57.8862

W 109°47.6466



Photograph 9

Geologic Characterization of the Crescent Junction Cell Excavation

Phase IIIc

Date: 12/22/20

Geologist: Moran/Udovitsch

Location Number: 9

Observations: Weathered Mancos Shale, north end of the cell floor, bedding planes present, abundant gypsum on bedding faces, subangular, silty. 10YR 4/2 (dark grayish brown). N65°W 7°NE.

Photographs (ID number and description):

10: Gypsum coated bedding plane

Survey Points:

N 38°57.8840

W 109°47.6749



Photograph 10