EXHIBIT G: WATER INFORMATION

Martin Marietta is amending the existing 112 Reclamation Permit No. M-1977-439 to change the final reclamation for Area G of the Home Office site from one open water lake to two sealed water storage reservoirs using compacted clay embankment liners.

1.0 INTRODUCTION AND BACKGROUND

Martin Marietta owns properties known as the "Home Office" site in Larimer County, Colorado. The properties are located on the west and east sides of North Taft Hill Road, approximately ½ mile south of Larimer County Road 54G, in Sections 33 and 34 of Township 8 North, Range 69 West of the 6th Principal Meridian, and Sections 3 and 4 of Township 7 North, Range 69 West of the 6th Principal Meridian.

This Groundwater Monitoring and Mitigation Plan presents the methods for monitoring groundwater during mining and reclamation, and for mitigating any potential groundwater impacts associated with permitted mining at the site. Martin Marietta is applying to the Colorado Division of Reclamation, Mining and Safety (DRMS) for an Amendment to the existing 112 Reclamation Permit No. N-1977-439 to change the final reclamation for Area G of this site from one open water lake to two sealed water storage reservoirs using a compacted clay embankment liner.

Exhibit B shows the location of the Affected Area and Area G. Exhibits F1 and F2 show all the Affected Area in the permit. Exhibit F3 details Area G, which is located in the northern portion of the Affected Area. The changes within the Affected Area are limited to Area G. Consequently, this discussion is limited to potential changes in the hydrologic balance as a result of the installation of compacted clay embankment liners in Area G-I and Area G-II. Figure G-1, enclosed, shows the Affected Area; Area G; adjacent parcels to Area G and property owners; and conceptual groundwater flows before and after the installation of the compacted clay liners.

1.1 HISTORIC USE

Area G mining and associated dewatering began in Spring 2016 and is currently underway. A compacted clay liner was installed in Area G-I in September 2020 upon completion of mining. A compacted clay liner will be installed in Area G-II upon completion of mining.

Figure G-1 shows the adjacent properties to Area G, lined cells, unlined cells, cells that will be lined in the future, and irrigation ditches in the vicinity of the Affected Area. Agricultural land uses are located north and east of Area G. Loveland Ready Mix owns properties to the north and east of Area G. Irrigation ditches in the area include the New Mercer Canal, the Larimer County Canal No. 2 Ditch, the Arthur Canal, and Taylor & Gill Lateral (owned by Martin Marietta).

Loveland Ready Mix irrigates fields north and east of Area G outside of the permit area. Irrigation field tiles are reported to have been installed in the properties owned by Constance A Fredman located southeast of Area G of the Affected Area (Figure G-2). After reports of poor drainage, the field tiles were repaired by Loveland Ready Mix. Flooding was reported to Martin Marietta on the PKR Farm LLC property located east of the Affected Area (Figure G-2) as part of the field tile issue. In response, Martin Marietta worked with Loveland Ready Mix and PKR Farm LLC and installed drainage ditches between Loveland Ready Mix and PKR Farms LLC and along the east side of Area G-I. The drainage ditches convey irrigation runoff from the area east of the Affected Area to the south to the Cache La Poudre River, similar to the historic drainage patterns. Since the installation of the ditches, there have not been further reports of flooding.

Based on discussions with Seaworth Properties LLC, water is rising on the east side of a parcel owned by Seaworth Properties LLC, on the west side of Area G-I during the irrigation season. Martin Marietta is working with Seaworth Properties LLC and installed a groundwater perimeter drain between January 10, 2022 and

February 4, 2022 to address the groundwater rise and irrigation return flow to the river. Figure F-3 presents the location and design drawings for the perimeter drain (See Section 2.1 Mining Plan). An additional section of perimeter drain is proposed along the north side of Area G-II. This section will connect to the installed perimeter drain at the northeast corner of Area G-II. A swale was installed on Martin Marietta's property on the west side of Area G-I to facilitate surface drainage for landowners located west of Area G-I. Figure G-3 shows the approximate locations of the perimeter drain and swale.

Chart 1 illustrates the mining cells in the vicinity of the Affected Area and the liner status of each cell.

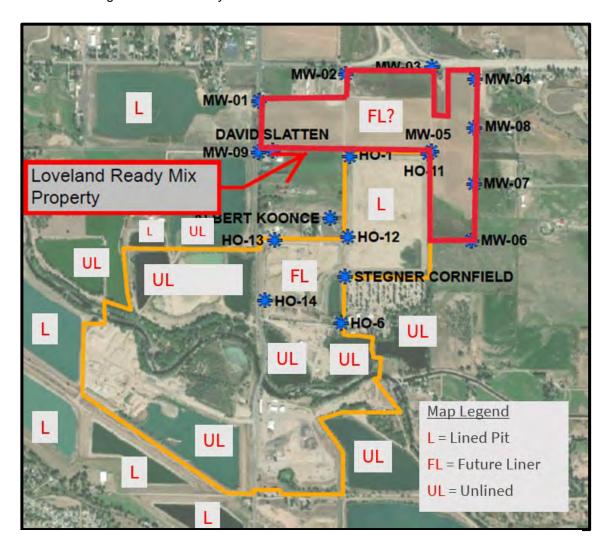


Chart 1: Mining Cells in the Vicinity & Liner Status

1.2 EXISTING WELLS

1.2.1 Monitoring Wells

Six monitoring wells (HO-1, 6, 11, 12, 13 and 14) were installed outside the limits of proposed mining, allowing for groundwater monitoring to occur during and after mining.

Monitoring well HO-1 was installed in the northwest corner of Area G-I. Monitoring well HO-6 was installed in the southeast corner of Area G-II. Both HO-1 and HO-6 were installed in 2018. Monthly groundwater monitoring for

wells HO-1 and HO-6 began in May 2018. The well monitoring program documented pre-mining groundwater levels near the project area and seasonable fluctuations.

The following monitoring wells were installed in Area G in 2021:

- HO-11, in the northeast corner of Area G-I
- HO-12, near the southern portion of Area G-I, and near the northeast corner of Area G-II
- HO-13, near the northwest corner of Area G-II
- HO-14, near the southwest corner of Area G-II

Monthly groundwater monitoring for wells HO-11, HO-12, HO-13, and HO-14 began in May 2021. Exhibit F3, dated August 2021, and Figure G-3 show the locations of the wells.

Chart 1 shows water level measurements for HO-1 and HO-6. Chart 2 shows water level measurements for HO-11, HO-12, HO-13, and HO-14. Exhibit G, Attachment 1 shares the raw data for wells HO-1, HO-6, HO-11, HO-12, HO-13, and HO-14.

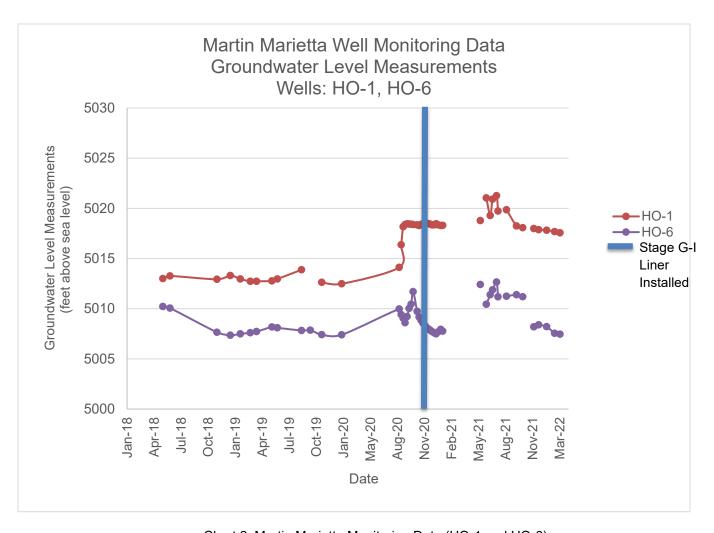


Chart 2: Martin Marietta Monitoring Data (HO-1 and HO-6)

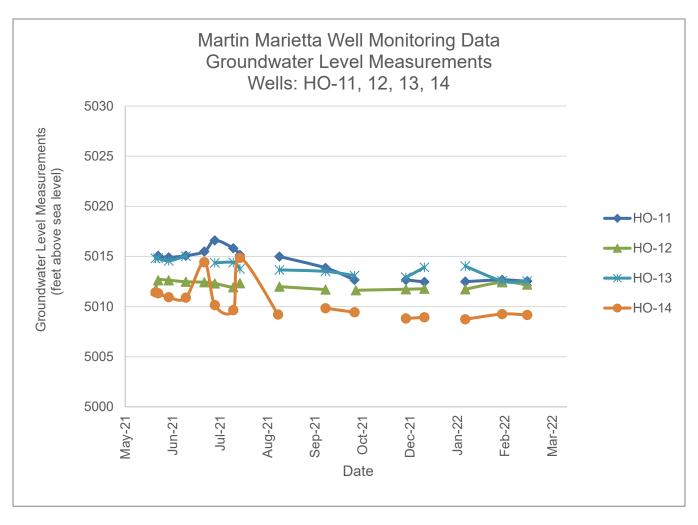


Chart 3: Well Monitoring Data (HO-11, 12, 13, 14)

Loveland Ready Mix installed monitoring wells on their lands in July 2016. Chart 4 and 5 show water level measurements that have been collected monthly since the wells were installed. Monitoring wells MW-02, MW-03 and MW-04 are located north of Area G-I. Monitoring wells MW-05, MW-06, MW-07 are located east of Area G-I. Groundwater monitoring for monitoring wells MW-02 through MW-07 began in July 2016. Groundwater levels fluctuate throughout the seasons. Exhibit G, Attachment 1 presents data provided by Loveland Ready Mix.

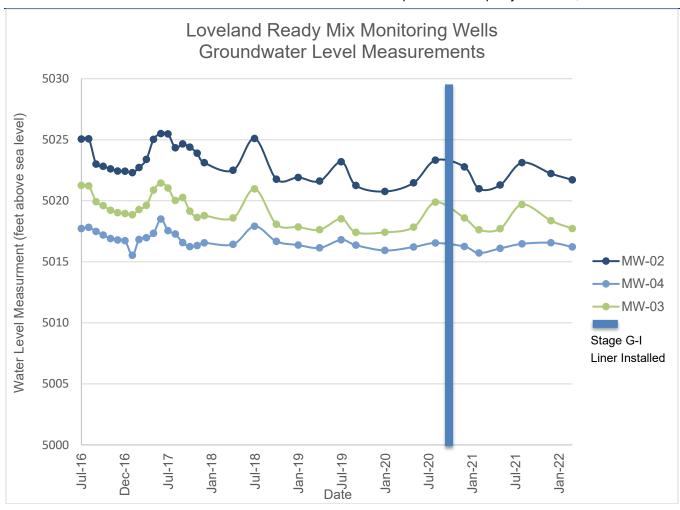


Chart 4: Loveland Ready Mix Monitoring Wells, MW-02, 03, 04

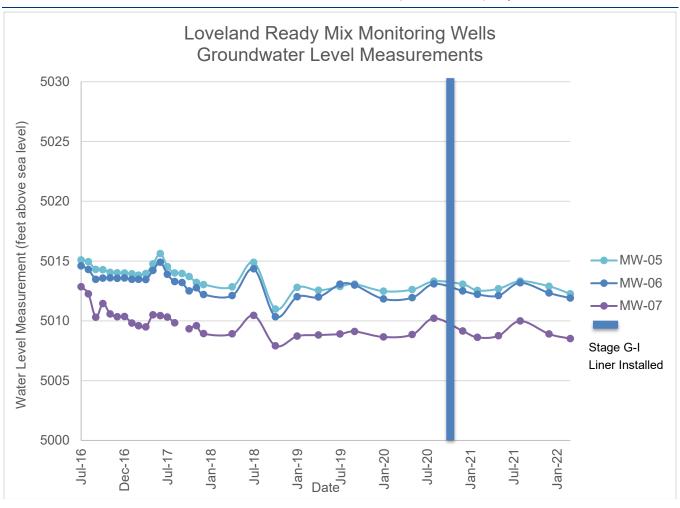


Chart 5: Loveland Ready Mix Monitoring Wells, MW-05, 06, 07

1.2.2 Nearby Wells

Numerous wells were installed in 2001 to establish groundwater baselines to monitor the groundwater conditions before, during, and after mining per the 2005 Well Monitoring Program Interim Report for Home Office. Water level measurements from 2004 and 2005 are included in the 2005 Well Monitoring Program Interim Report Well locations are shown on Figure G-3. Well owners, David L and Virginia S Slatten's property is located west of Area G-I at the northernmost portion of Area G-I (Figure G-1). Well Owners, Albert R and Sharon E Koonce's property is located west of Area G-I, just north of Area G-II. A well owned by Martin Marietta, referred to as "MM near KOA" is located east of Area G-II and south of Area G-I. Groundwater monitoring for the Slatten, Koonce and MM near KOA wells began in April 2007. Groundwater levels fluctuate throughout the seasons. The range of water level measurements for the Slatten well is 6.6 feet. The range of water level measurements for the Koonce well is 8.5 feet. The range of water level measurements for the Koonce well is 7.7 feet. Table 1 presents the maximum, minimum and average saturated thickness for the monitoring well data set. Mining and associated dewatering began in Spring 2016. A shift in water level measurements is shown in Chart 3, which presents historical well monitoring data from the Slatten, Koonce and MM near KOA wells. Exhibit G, Attachment 1 presents raw data for the nearby wells.

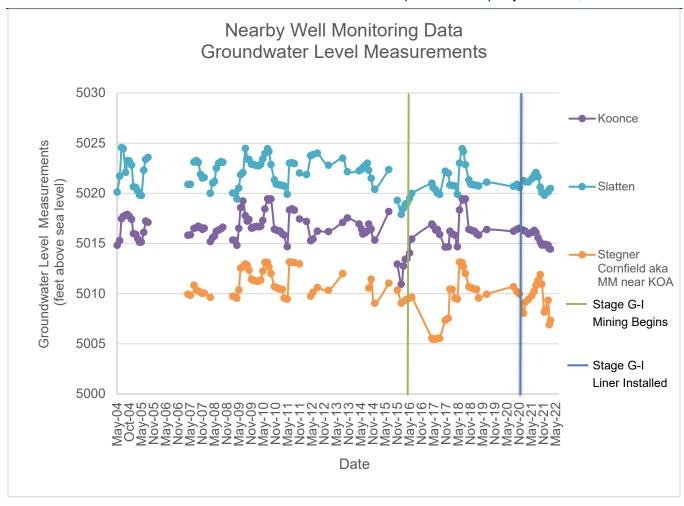


Chart 6: Nearby Well Monitoring Data

1.3 WELL INVENTORY

In December 2021, a well inventory of the Affected Area and adjacent areas was conducted to identify domestic wells near the project site. The inventory involved a review of constructed well records on file with the Colorado Division of Water Resources, located within ½ mile plus 200 feet of the Affected Area. The well inventory identified 98 constructed wells within ½ mile plus 200 feet, of the Affected Area. Figure G-2 enclosed shows the Affected Area and the constructed well locations on file with the Colorado Division of Water Resources.

1.4 HISTORIC AND FUTURE GROUND WATER LEVELS, AND IMPACTS TO WELLS

The presence of lined and unlined cells near Area G and previous dewatering of Area G demonstrates that the revised reclamation plan, i.e. lining of Area G cells will result in changes, but manageable changes, to the hydrologic balance.

The principal change to the hydrologic balance will be mounding on the upgradient (west) side of Area G. Martin Marietta has been preemptive in addressing the mounding on the east side by installing a perimeter drain. Exhibit G, Attachment 2 presents the location and design of the perimeter drain.

Regarding the down gradient impacts, monitoring well data demonstrates minimal impacts to wells will occur on the down gradient shadow effect (east and southeast) sides of Area G. Table 1 presents the historic range of

saturated thickness in the monitoring wells. The period or record for the data includes the time when the Area G cells were being actively dewatered. The impacts from dewatering are greater than the shadow effect of the lined cells. Monitoring wells HO-6 and Stenger Cornfield/MM Near KOA are adjacent to the dewater cells yet they had minimum statured thickness of 6.9 feet and 4.6 feet respectively. Chart 7 presents the hydrograph of wells HO-6 and the Stegner Cornfield/MM Near KOA wells. The impacts of dewatering and subsequent recovery of the water levels after installation of the liner in the northern Area G cell.

The saturated thickness in the shadow zone after installation of the liner will be on the order of five to six feet. Water wells completed in sand and gravel aquifers typically provide approximately 25 to 30 gallons per minute per foot of drawdown or saturated thickness in the well. The wells on the down gradient side of Area G are domestic with permitted maximum pumping rates of 15 gallons per minute (gpm). Consequently, five to six feet of saturated thickness will provide the allowed pumping rates of 15 gpm. Wells located further from Area G will have even more saturated thickness and hence will be able to pump the permitted rates.

Table 1: Saturated Thickness

Saturated Thickness (feet)							
Well	Minimum	Maximum	Delta	Average			
HO-1	5.8	14.6	8.8	10.3			
HO-6	6.9	12.2	5.3	8.6			
HO-11	10.0	14.2	4.1	11.7			
HO-12	6.4	7.5	1.0	6.9			
HO-13	5.8	8.3	2.5	7.1			
HO-14	3.2	9.3	6.1	4.9			
Koonce	5.5	14.0	8.51	10.8			
Slaten	7.9	14.5	6.57	11.6			
Stegner Cornfield/MM Near KOA	4.6	12.4	7.7	9.5			
MW-01	9.1	16.8	7.7	11.4			
MW-02	11.8	16.5	4.7	14.0			
MW-03	10.4	14.4	4.0	12.1			
MW-04	11.5	14.5	3.0	12.7			
MW-05	7.5	12.1	4.6	10.0			
MW-06	6.3	10.9	4.6	9.0			
MW-07	8.9	13.9	4.9	10.7			
MW-08	6.8	16.0	9.2	10.5			
MW-09	6.0	12.8	6.8	8.2			

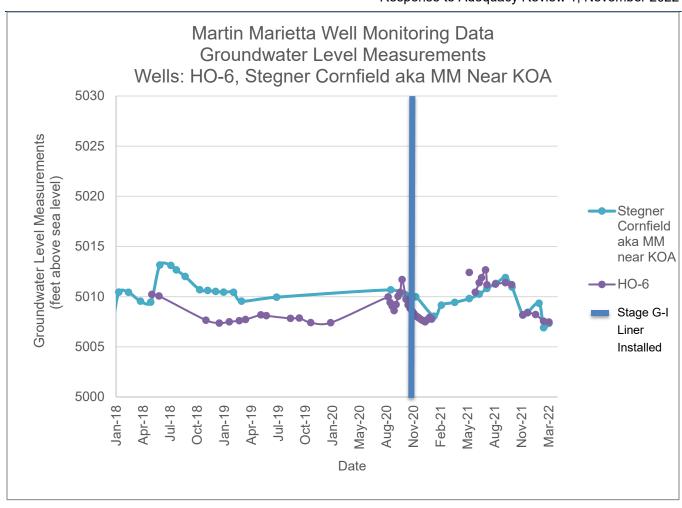


Chart 7: Monitoring Well Data (HO-6, Stegner Cornfield aka MM Near KOA)

2.0 MONITORING AND MANAGEMENT

2.1 MINING PLAN

The Reclamation Plan has been designed to reduce potential groundwater impacts to adjacent properties. A perimeter drain was designed by Deere and Ault to mitigate groundwater rise and to allow irrigation return flow off of the properties being irrigated west of Area G-I. The perimeter drain is installed along the west Area G-I. An additional portion of perimeter drain is proposed along the north side of Area G-II. Mining is expected to be completed in Area G-II by the end of 2022. The portion of the perimeter drain north of Area G-II will be installed upon completion of mining. The perimeter drain discharges through the berm between Area G-II and II to an unlined pond that is tributary to the Cache la Poudre River.

2.2 MONITORING

2.2.1 Martin Marietta Monitoring Wells

Monthly water level monitoring at HO-1, HO-6, HO-11, HO-12, HO-13, and HO-14 will continue during mining. When mining is complete, quarterly water level monitoring at HO-1, HO-6, HO-11, HO-12, HO-13, and HO-14 will continue until reclamation is complete and the DRMS releases the financial warranty bond.

2.2.2 Domestic Water Wells

Monthly water level monitoring at the Slatten and Koonce wells will continue during mining. When mining is complete, quarterly water level monitoring at the Slatten and Koonce wells will continue until reclamation is complete and the DRMS releases the financial warranty bond.

2.3 MITIGATION

The available monitoring well data will be used to identify changes in alluvial groundwater flow associated with mining and reclamation activities. Baseline data collected from the monitoring program will provide a range of relative water levels associated with pre-mining groundwater conditions. These data will be utilized to evaluate the nature and extent of the change to the prevailing hydrologic balance and if necessary, provide for the development of corrective actions.

In the event of a well owner complaint within 600 feet of the Affected Area, Martin Marietta will review the available monitoring information and submit a report to the DRMS within 30 days. The report will include discussions with any well owner who has contacted Martin Marietta regarding a concern and a review of baseline data from the well and vicinity to evaluate whether changes may be due to seasonal variations, climate, mining, or other factors. The report will identify the extent of potential or actual impacts associated with the changes. If the extent of groundwater changes due to mining or reclamation activities is determined to be a significant contributing factor that has or may create adverse impacts, the mining-associated impacts will be addressed to the satisfaction of the DRMS.

If the DRMS determines that the impact on a well for which temporary mitigation has been initiated is not a result of Martin Marietta's activities, or is not solely a result of Martin Marietta's activities, Martin Marietta will reduce or cease mitigation accordingly.

If a well goes dry due to mining or reclamation activities, Martin Marietta will implement mitigation measures within 7 days. Mitigation measures would include providing a temporary alternative water supply that meets the documented historic well production or need, until further investigation can be conducted to determine if the well condition is due to the mining operation.

Martin Marietta will begin to implement one or more mitigation measures if mining or reclamation activity is determined to be a significant contributing factor to groundwater changes requiring mitigation.

Temporary mitigation measures may include, but are not limited to:

- Compensation for well owners to use their existing treated water system to replace the well production loss.
- Provide a water tank and deliver water as necessary to meet documented historic well production or need.
- Other means acceptable to both the well owner and Martin Marietta.

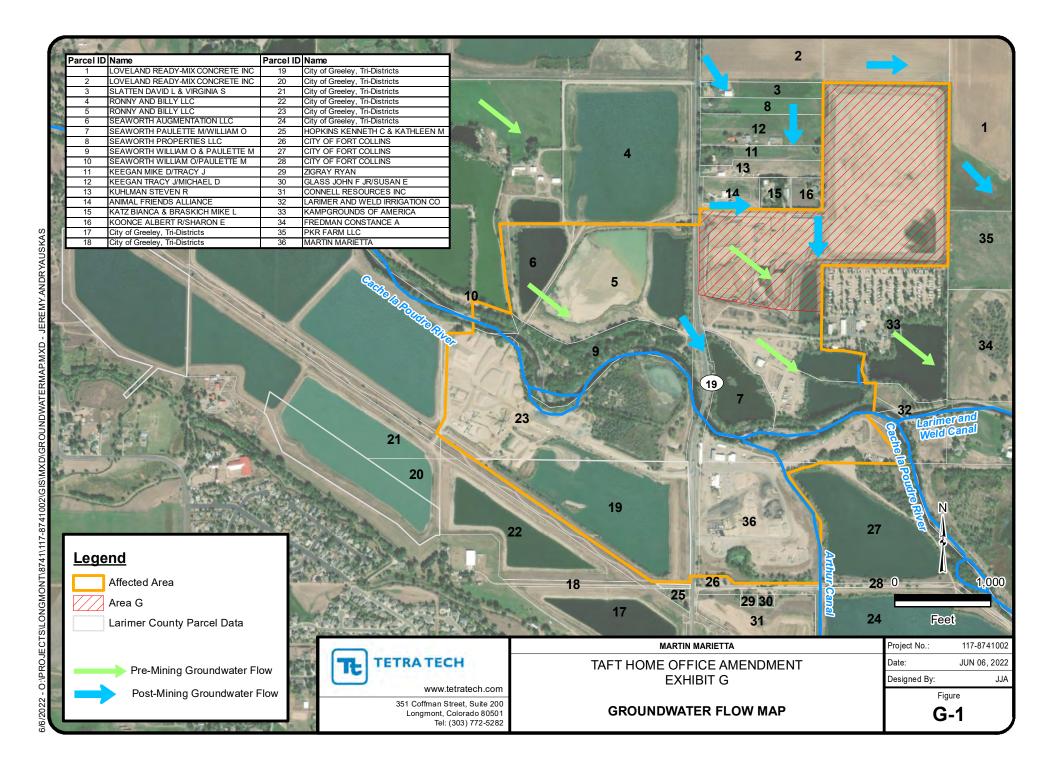
Long-term mitigation measures may include, but are not limited to:

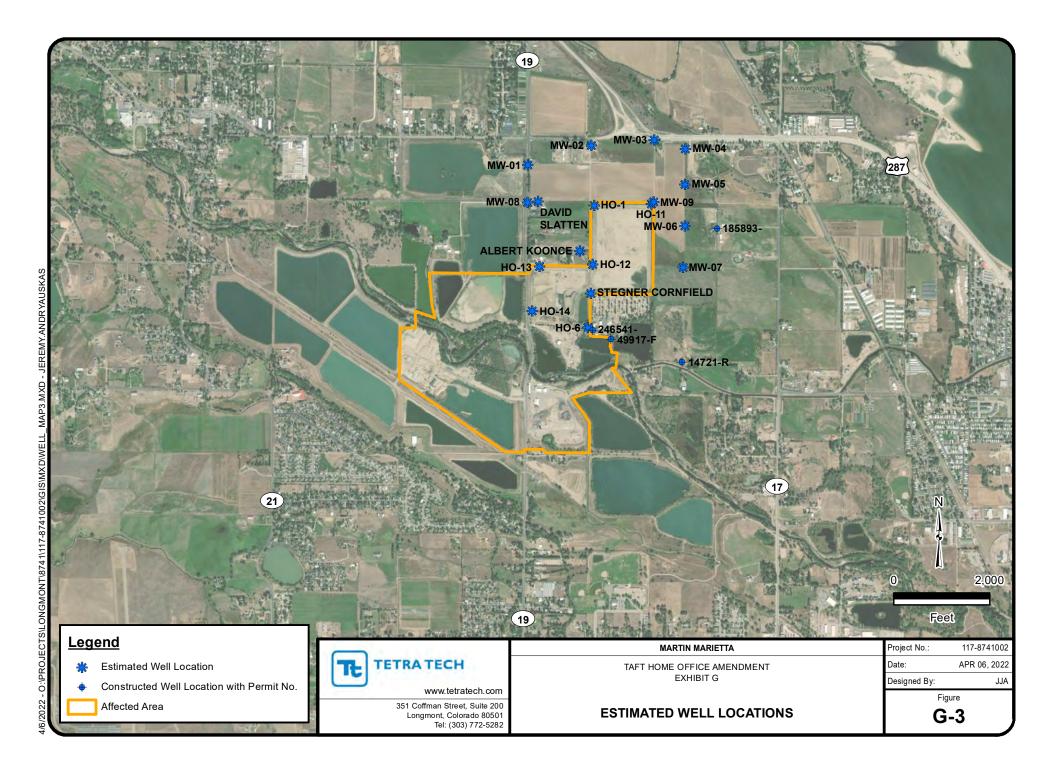
- Cleaning a well to improve efficiency.
- Providing an alternative source of water or purchasing additional water to support historic well use with respect to water quantity and quality. If needed, water quality parameters will be checked in affected wells to ensure alternative sources support the historic use.
- Modifying a well to operate under lower groundwater conditions. This could include deepening existing
 wells or lowering the pumps. All work would be done at Martin Marietta's expense with the exception of
 replacing equipment that was non-functional prior to mining.
- If existing wells cannot be retrofitted or repaired, replacing the impacted well with a new replacement well.
- Design and installation of a cistern.

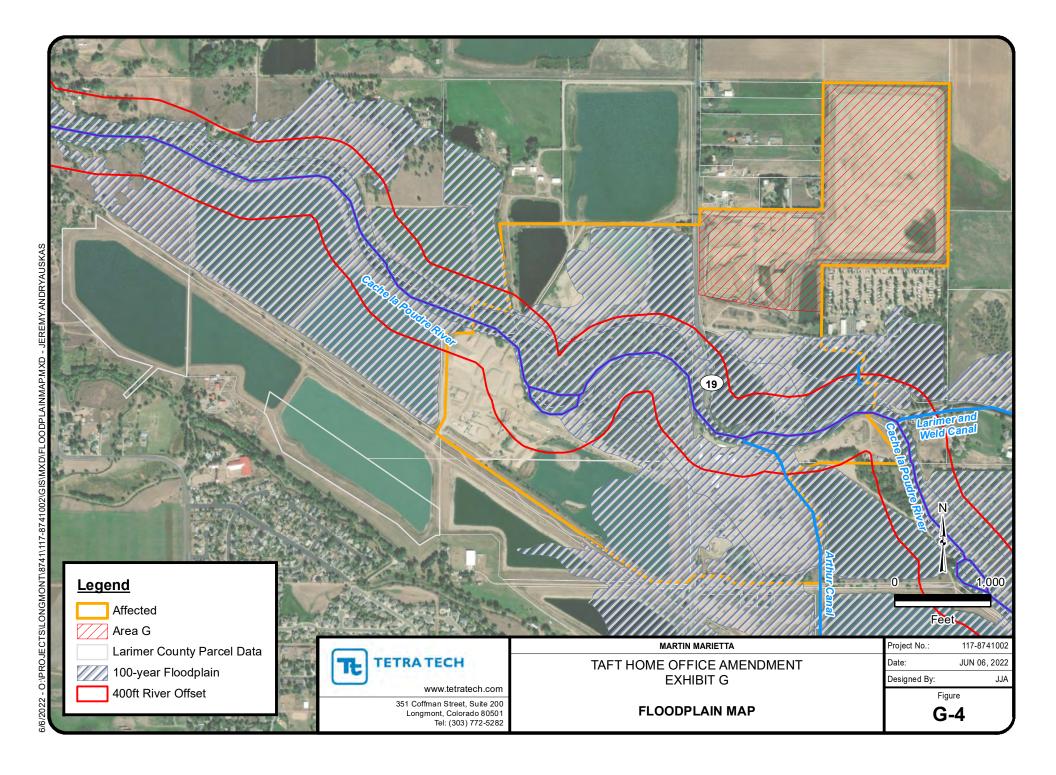
If a groundwater mitigation action is required, Martin Marietta will notify the DRMS of the condition, action taken and report the results and present a plan for monitoring the mitigation.

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FIGURES







ATTACHMENT 1 RAW MONITORING WELL DATA

			HOME	OFFICE MONITOR	ING WELL	S (COMBINE	D MEASUR	REMENTS P	ROVIDED E	BY DEERE & AL	ULT AND M	MARTIN MAR	RIETTA)					
Monitoring Well Name		HO-1			HO-6			HO-11			HO-12		,	HO-13			HO-14*	
Well Location	1	469960, 310928	32	14673	379, 3109131		1	469954, 311045	51	146	58699, 3109239		1	468646, 310812	23	1	467725, 310798	0
Top of PVC Casing Elevation (ft.)		5024.08			5019.39			5021.36			5023.53			5026.66			5023.84	
Ground Elevation of Well (ft.)		5021.21			5016.45			5018.43			5021.17			5023.74			5021.58	
PCV Stickup (approx.)		2.87			2.94			2.93			2.36			2.92			2.20	
Bottom Elevation of Well (ft.)		4996.21			4987.45			5004.43			5004.17			5008.74			5004.53	
Estimated Bedrock Elevation (ft)		5006.71			5000.45			5002.43			5005.17			5006.74			5005.58	
Total Well Depth Ground-Bottom (ft.)		25.00			29.00			14.00			17.00			15.00			17.00	
Total Wolf Bopan Ground Bottom (Att)	Water Depth	Saturated	Ground Water	Water Depth from Top of	Saturated	Ground Water	Water Depth	Saturated	Ground Water	Water Depth from	Saturated	Ground Water	Water Depth	Saturated	Ground Water	Water Depth	Saturated	Ground Water
Date	from Top of	Thickness	Elevation (ft.)	PVC	Thickness	Elevation (ft.)	from Top of	Thickness	Elevation (ft.)	Top of PVC	Thickness	Elevation (ft.)	from Top of	Thickness	Elevation (ft.)	from Top of	Thickness	Elevation (ft.)
Date	PVC	111101111000	Ziovalion (ili)	(ft.)		Zioranoii (iii)	PVC	111101111000	Zioranoii (inj	(ft.)	111101111000	2.014	PVC	111101111000	Ziovalion (ili)	PVC		Zioranoii (iii)
	(ft)			()			(ft)			()			(ft)			(ft)		
Monday, May 7, 2018	11.08	6.29	5013.00	9.17	9.77	5010.22												
Friday, June 1, 2018	10.82	6.55	5013.26	9.33	9.61	5010.06												
Tuesday, November 13, 2018	11.15	6.22	5012.93	11.74	7.20	5007.65												
Sunday, December 30, 2018	10.78	6.59	5013.30	12.03	6.91	5007.36												
Sunday, February 3, 2019	11.12	6.25	5012.96	11.90	7.04	5007.49												
Sunday, March 10, 2019	11.35	6.02	5012.73	11.79	7.15	5007.60						-						
Monday, April 1, 2019	11.35	6.02	5012.73	11.67	7.27	5007.72						1						
Saturday, May 25, 2019	11.31	6.06 6.25	5012.77	11.21	7.73 7.65	5008.18				-		 						
Thursday, June 13, 2019	11.12	7.17	5012.96	11.29	7.65	5008.10				-								
Friday, September 6, 2019 Monday, October 7, 2019	10.20	7.17	5013.88	11.56 11.53	7.30	5007.83 5007.86						+						
Saturday, November 16, 2019	11.45	5.92	5012.63	11.53	6.96	5007.86						1						
Saturday, November 16, 2017 Saturday, January 25, 2020	11.60	5.77	5012.48	11.99	6.95	5007.40												
Friday, August 14, 2020	9.96	7.41	5014.12	9.42	9.52	5009.97												
Friday, August 21, 2020	7.71	9.66	5014.12	9.98	8.96	5009.41												
Friday, August 28, 2020	5.91	11.46	5018.17	10.34	8.60	5009.05												
Friday, September 4, 2020	5.70	11.67	5018.38	10.79	8.15	5008.60												
Friday, September 11, 2020	5.63	11.74	5018.45	10.18	8.76	5009.21												
Friday, September 18, 2020	5.64	11.73	5018.44	9.36	9.58	5010.03												
Friday, September 25, 2020	5.67	11.70	5018.41	8.95	9.99	5010.44												
Friday, October 2, 2020	5.70	11.67	5018.38	7.69	11.25	5011.70												
Friday, October 16, 2020	5.73	11.64	5018.35	9.66	9.28	5009.73												
Friday, October 23, 2020	5.79	11.58	5018.29	10.22	8.72	5009.17												
Friday, October 30, 2020	5.68	11.69	5018.40	10.55	8.39	5008.84												
Friday, November 6, 2020	5.61	11.76	5018.47	10.83	8.11	5008.56												
Friday, November 13, 2020	5.61	11.76	5018.47	11.10	7.84 7.57	5008.29												
Monday, November 23, 2020	5.60	11.77 11.73	5018.48	11.37	7.57	5008.02												
Monday, November 30, 2020	5.64 5.73	11.73	5018.44 5018.35	11.51 11.66	7.43	5007.88 5007.73												
Monday, December 7, 2020 Tuesday, December 15, 2020	5.73	11.64	5018.35	11.80	7.20	5007.75												
Tuesday, December 13, 2020	5.62	11.75	5018.46	11.90	7.04	5007.49												
Tuesday, December 29, 2020	5.73	11.64	5018.35	11.70	7.24	5007.69												
Thursday, January 7, 2021	5.79	11.58	5018.29	11.45	7.49	5007.94												
Thursday, January 14, 2021	5.78	11.59	5018.30	11.63	7.31	5007.76												
Monday, May 24, 2021										11.93	6.43	5011.60	11.85	8.07	5014.81	12.30	5.86	5011.43
Wednesday, May 26, 2021	5.3	12.07	5018.78	6.98	11.96	5012.41	6.3	12.63	5015.06	10.90	7.46	5012.63	11.83	8.09	5014.83	12.40	5.76	5011.33
Thursday, June 3, 2021							6.45	12.48	5014.91	10.91	7.45	5012.62	12.10	7.82	5014.56	12.79	5.36	5010.94
Wednesday, June 16, 2021	3.04	14.33	5021.04	8.95	9.99	5010.44	6.28	12.65	5015.08	11.05	7.31	5012.48	11.62	8.30	5015.04	12.84	5.32	5010.89
Wednesday, June 30, 2021	4.80	12.57	5019.28	8.00	10.94	5011.39	5.87	13.06	5015.49	11.10	7.26	5012.43		7.70		9.30	8.85	5014.43
Thursday, July 8, 2021	3.17	14.20	5020.91	7.51	11.43	5011.88	4.76	14.17	5016.60	11.22	7.14	5012.31	12.30	7.62	5014.36	13.58	4.57	5010.15
Thursday, July 22, 2021	2.82	14.55	5021.26	6.73	12.21	5012.66	5.54	13.39	5015.82	11.60	6.76	5011.93	12.26	7.66	5014.40	14.08	4.07	5009.65
Tuesday, July 27, 2021	4.35	13.02	5019.73	8.21	10.73	5011.18	6.21	12.72	5015.15	11.2	7.16	5012.33	12.9	7.02	5013.76	8.97 14.63	9.29 3.63	5014.87
Wednesday, August 25, 2021	4.22	13.15	5019.86	8.15	10.79	5011.24	6.37	12.56	5014.99	11.54	6.82	5011.99	13	6.92	5013.66	14.03	3.03	5009.21
Thursday, August 26, 2021 Thursday, September 30, 2021	5.83	11.54	5019.86	0.10 8	10.79	5011.24	7.5	11.43	5014.99	11.83	6.53	5011.79	13.15	6.77	5013.66	14	4.26	5009.84
Friday, October 22, 2021	6.01	11.36	5018.07	8.2	10.74	5011.39	8.7	10.23	5013.66	11.00	0.00	3011.70	13.57	6.35	5013.09	14.4	3.86	5009.44
Saturday, October 23, 2021	0.01	71.00	3010.07	0.2	10.71	5011.17	0.7	10.20	3012.00	11.9	6.46	5011.63	10.07	0.00	3013.07		5.55	5007.44
Tuesday, November 30, 2021	6.1	11.27	5017.98	11.2	7.74	5008.19	8.7	10.23	5012.66	11.8	6.56	5011.73	13.74	6.18	5012.92	15.02	3.24	5008.82
Tuesday, December 14, 2021			3377.70			5530.17	8.9	10.03	5012.46	11.75	6.61	5011.78	12.75	7.17	5013.91	14.9	3.36	5008.94
Friday, December 17, 2021	6.21	11.16	5017.87	11	7.94	5008.39												
Friday, January 14, 2022	6.26	11.11	5017.82	11.18	7.76	5008.21	8.87	10.06	5012.49	11.8	6.56	5011.73	12.62	7.30	5014.04	15.1	3.16	5008.74
Friday, February 11, 2022	6.4	10.97	5017.68	11.84	7.10	5007.55	8.7	10.23	5012.66	11.1	7.26	5012.43	14.1	5.82	5012.56	14.58	3.68	5009.26
Wednesday, March 2, 2022	6.52	10.85	5017.56	11.93	7.01	5007.46	8.83	10.10	5012.53	11.33	7.03	5012.20	14.13	5.79	5012.53	14.67	3.59	5009.17

		Home	Office Near	by Wells Wate	r Level N	onitoring					
LOCATION		ERT KOONC		DA	VID SLATTE		STEGNER COR		Near KOA		
LATTITUDE		0 37'08.6 N			40 37'18.8 N		40 36'59.8 N 105 06'34.5 W				
LONGTITUDE DESCRIPTION	2" CASE-BY	5 06'37.4 W	NCELINE		05 06'48.6 W NTER NORT	H FENCE		BY RV PAR	K		
ELEVATION OF	Z OAOL-BT		INOLLINE	Z OAGE-GE		ITTENOL	1 40				
BENCHMARK		5023.4			5028.0			5018.5			
ELEVATION OF GROUND		5022.4			5027.0		5017.8				
SURFACE ESTIMATED BEDROCK					3027.0						
ELEVATION		5005.4			5010.0			5000.8			
DATE	READING (Measurement from Benchmark to Water Level, ft)	WATER ELEV	SATURATED THICKNESS (ft)	READING (Measurement from Benchmark to Water Level, ft)	WATER ELEV	SATURATED THICKNESS (ft)	READING (Measurement from Benchmark to Water Level, ft)	WATER ELEV	SATURATED THICKNESS (ft)		
05/04/04	8.62	5014.82	9.4	7.88	5020.12	10.1					
06/10/04	8.15	5015.29	9.9	6.29	5021.71	11.7					
07/08/04	5.98	5017.46	12.0	3.45	5024.55	14.6					
08/03/04	5.75	5017.69	12.3	3.55	5024.45	14.4			ļ		
09/07/04	5.62	5017.82	12.4	5.91	5022.09	12.1			ļ		
10/04/04	5.55	5017.89	12.4	4.74	5023.26	13.3					
11/01/04	5.73	5017.71	12.3	4.77	5023.23	13.2			ļ		
12/06/04	6.04	5017.40	12.0	5.18	5022.82	12.8					
01/03/05	7.46	5015.98	10.5	7.36	5020.64	10.6					
02/07/05	7.53	5015.91	10.5	7.42	5020.58	10.6					
03/07/05	7.96	5015.48	10.0	7.77	5020.23	10.2					
04/04/05	8.31 8.3	5015.13	9.7	8.16 8.22	5019.84	9.8			 		
05/02/05	7.33	5015.14	9.7	5.7	5019.78	9.8					
06/07/05		5016.11	10.7		5022.3	12.3					
07/06/05	6.21 6.33	5017.23	11.8	4.62 4.42	5023.38	13.4					
08/10/05 01/01/07	0.33	5017.11	11.7	4.42	5023.58	13.6					
02/01/07											
03/01/07											
04/02/07	7.62	5015.82	10.4	7.12	5020.88	10.9	8.6	5009.95	9.1		
05/09/07	7.58	5015.86	10.4	7.1	5020.9	10.9	8.71	5009.84	9.0		
06/01/07 07/02/07	6.94	5016.50	11.1	4.89	5023.11	13.1	7.7	5010.85	10.1		
08/06/07	6.94	5016.50	11.1	4.09	5023.11	13.3	8.21	5010.85	9.5		
09/05/07	6.72	5016.72	11.3	4.92	5023.08	13.1	8.28	5010.27	9.5		
10/08/07	6.84	5016.60	11.2	6.1	5021.9	11.9	8.41	5010.14	9.3		
11/05/07	7.04	5016.40	11.0	6.48	5021.52	11.5	8.52	5010.03	9.2		
12/03/07 01/01/08	6.92	5016.52	11.1	6.42	5021.58	11.6	8.5	5010.05	9.3		
02/01/08											
03/03/08	8.26	5015.18	9.7	8	5020	10.0	8.92	5009.63	8.8		
04/07/08	7.85	5015.59	10.1	6.99	5021.01	11.0					
05/05/08	7.71	5015.73	10.3	6.82	5021.18	11.2					
06/01/08 07/07/08	7.23	5016.21	10.8	5.5	5022.5	12.5					
07/07/08	7.11 6.98	5016.33 5016.46	10.9 11.0	4.99 4.84	5023.01 5023.16	13.0 13.2					
09/08/09	6.82	5016.62	11.2	4.92	5023.08	13.1					
10/01/08											
11/01/08											
12/01/08						ļ			<u> </u>		
01/01/09 02/03/09	8.1	5015.34	9.9	7.98	5020.02	10.0	8.82	5009.73	8.9		
03/03/09	8.13	5015.34	9.9	7.98	5020.02	10.0	8.85	5009.73	8.9		
04/07/09	8.62	5014.82	9.4	8.57	5019.43	9.4	9	5009.55	8.8		
05/05/09	6.93	5016.51	11.1	7.48	5020.52	10.5	8.18	5010.37	9.6		
06/02/09	4.88	5018.56	13.1	6.15	5021.85	11.9	6	5012.55	11.8		
07/07/09 08/12/09	4.21 5.67	5019.23 5017.77	13.8 12.3	5.94 3.53	5022.06 5024.47	12.1 14.5	5.86 5.6	5012.69 5012.95	11.9 12.1		
08/12/09	6.21	5017.77	12.3	3.53 4.58	5024.47	13.4	5.6 5.71	5012.95	12.1		
10/06/09	6.05	5017.39	11.9	4.62	5023.38	13.4	6.21	5012.34	11.5		
11/11/09	6.91	5016.53	11.1	5.1	5022.9	12.9	7.12	5011.43	10.6		
12/01/09	6.89	5016.55	11.1	5.11	5022.89	12.9	7.19	5011.36	10.6		
01/01/10	6.77	5016.67	11.2	5.18	5022.82	12.8	7.25	5011.30	10.5		
2/1/2010 3/1/2010	6.74 6.78	5016.70 5016.66	11.3 11.2	5.24 5.26	5022.76 5022.74	12.8 12.7	7.32 7.28	5011.23 5011.27	10.4 10.5		
4/1/2010	6.72	5016.00	11.3	5.11	5022.74	12.7	7.2	5011.27	10.6		
5/1/2010	6.15	5017.29	11.9	4.59	5023.41	13.4	6.31	5012.24	11.4		
6/1/2010	5	5018.44	13.0	4.05	5023.95	13.9	5.42	5013.13	12.3		
7/13/2010	3.99	5019.45	14.0	3.56	5024.44	14.4	5.44	5013.11	12.3		
8/1/2010 9/1/2010	4.12 4	5019.32 5019.44	13.9 14.0	3.84 5.14	5024.16 5022.86	14.2 12.9	5.88 6.54	5012.67 5012.01	11.9 11.2		
10/22/2010	7.03	5019.44	11.0	6.66	5022.86	11.3	7.86	5012.01	9.9		
11/19/2010	7.1	5016.34	10.9	7.09	5020.91	10.9	7.93	5010.62	9.8		
	,										

12/17/2010	7.18	5016.26	10.8	7.14	5020.86	10.9	8.03	5010.52	9.7
1/14/2011	7.21	5016.23	10.8	7.18	5020.82	10.8	8.1	5010.45	9.6
2/18/2011	7.48	5015.96	10.5	7.21	5020.79	10.8	8.12	5010.43	9.6
3/18/2011	7.61	5015.83	10.4	7.28	5020.72	10.7	9	5009.55	8.8
5/3/2011	8.76	5014.68	9.2	8.1	5019.9	9.9	9.1	5009.45	8.6
6/6/2011	5.1	5018.34	12.9	5	5023	13.0	5.4	5013.15	12.4
7/16/2011	4.99	5018.45	13.0	4.96	5023.04	13.0	5.42	5013.13	12.3
				5.04				5013.10	
8/19/2011	5.12	5018.32	12.9	5.04	5022.96	13.0	5.45	5013.10	12.3
9/30/2011									
	6	5017.44	12.0	5.98	5022.02	12.0	5.58	5012.97	12.2
11/4/2011							5.56	5012.97	12.2
2/17/2012	6.25	5017.19	11.8	6.14	5021.86	11.9			
4/20/2012	8.17	5015.27	9.8	4.25	5023.75	13.8	8.8	5009.75	8.9
5/25/2012	8	5015.44	10.0	4.14	5023.86	13.9	8.42	5010.13	9.3
7/30/2012	7.21	5016.23	10.8	4	5024	14.0	7.93	5010.62	9.8
1/11/2013	7.25	5016.19	10.8	5.2	5022.8	12.8	8.22	5010.33	9.5
8/13/2013	6.34	5017.10	11.7	4.5	5023.5	13.5	6.55	5012.00	11.2
							0.55	3012.00	11.2
10/23/2013	5.9	5017.54	12.1	5.85	5022.15	12.1			
4/17/2014	6.5	5016.94	11.5	5.75	5022.25	12.3			
5/23/2014	7	5016.44	11.0	5.62	5022.38	12.4			
6/11/2014	7.5	5015.94	10.5	5.44	5022.56	12.6			
7/16/2014	7.38	5016.06	10.6	5.24	5022.76	12.8			
8/20/2014	7.21	5016.23	10.8	5	5023	13.0			
								5045	
9/8/2014	6.5	5016.94	11.5	5.7	5022.3	12.3	8	5010.55	9.8
10/16/2014	7	5016.44	11.0	6.5	5021.5	11.5	7.1	5011.45	10.6
12/9/2014	8.1	5015.34	9.9	7.6	5020.4	10.4	9.5	5009.05	8.3
7/7/2015	5.26	5018.18	12.7	5.63	5022.37	12.4	7.5	5011.05	10.3
	5.20	50 10.10	14.1	0.00	JULL.J1	14.4	1.0	3011.03	10.0
8/18/2015	1			1				1	
11/12/2015	10.5	5012.94	7.5	8.7	5019.3	9.3	8.2	5010.35	9.6
1/12/2016	12.5	5010.94	5.5	10.1	5017.9	7.9	9.5	5009.05	8.3
2/12/2016	10.7	5012.74	7.3	9.5	5018.5	8.5			
3/12/2016	10	5013.44	8.0	9.1	5018.9	8.9	9.2	5009.35	8.6
4/5/2016	9.97	5013.47	8.0	9	5019	9.0	9.1	5009.45	8.6
5/15/2016	9.4	5014.04	8.6	8.5	5019.5	9.5	9	5009.55	8.8
6/16/2016	8	5015.44	10.0	8	5020	10.0	8.9	5009.65	8.9
4/15/2017	6.5	5016.94	11.5	7	5021	11.0	13	5005.55	4.8
5/2/2017	6.68	5016.76	11.3	7.43	5020.57	10.6	13.1	5005.45	4.6
	0.00	3010.76	11.3	7.43	3020.37	10.0			
6/12/2017	7.12	5016.32	10.9	7.67	5020.33	10.3	13.08	5005.47	4.7
7/7/2017	7.05	5016.39	10.9	7.99	5020.01	10.0	12.99	5005.56	4.8
7/7/2017 8/10/2017	7.05 7.55	5016.39 5015.89	10.9 10.4	7.99 8.12	5020.01 5019.88	10.0 9.9	12.99 13	5005.56 5005.55	4.8 4.8
7/7/2017 8/10/2017 11/1/2017	7.05 7.55 8.8	5016.39 5015.89 5014.64	10.9 10.4 9.2	7.99 8.12 5.8	5020.01 5019.88 5022.2	10.0 9.9 12.2	12.99 13 11.2	5005.56 5005.55 5007.35	4.8 4.8 6.6
7/7/2017 8/10/2017	7.05 7.55	5016.39 5015.89	10.9 10.4	7.99 8.12	5020.01 5019.88	10.0 9.9	12.99 13	5005.56 5005.55	4.8 4.8
7/7/2017 8/10/2017 11/1/2017 12/17/2017	7.05 7.55 8.8 8.78	5016.39 5015.89 5014.64 5014.66	10.9 10.4 9.2 9.2	7.99 8.12 5.8 6	5020.01 5019.88 5022.2 5022	10.0 9.9 12.2 12.0	12.99 13 11.2 11	5005.56 5005.55 5007.35 5007.55	4.8 4.8 6.6 6.8
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018	7.05 7.55 8.8 8.78 7.21	5016.39 5015.89 5014.64 5014.66 5016.23	10.9 10.4 9.2 9.2 10.8	7.99 8.12 5.8 6 7.18	5020.01 5019.88 5022.2 5022 5020.82	10.0 9.9 12.2 12.0 10.8	12.99 13 11.2 11 8.1	5005.56 5005.55 5007.35 5007.55 5010.45	4.8 4.8 6.6 6.8 9.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017	7.05 7.55 8.8 8.78	5016.39 5015.89 5014.64 5014.66	10.9 10.4 9.2 9.2	7.99 8.12 5.8 6	5020.01 5019.88 5022.2 5022	10.0 9.9 12.2 12.0	12.99 13 11.2 11	5005.56 5005.55 5007.35 5007.55	4.8 4.8 6.6 6.8
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018	7.05 7.55 8.8 8.78 7.21 7.48	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96	10.9 10.4 9.2 9.2 10.8 10.5	7.99 8.12 5.8 6 7.18 7.21	5020.01 5019.88 5022.2 5022 5020.82 5020.79	10.0 9.9 12.2 12.0 10.8 10.8	12.99 13 11.2 11 8.1 8.12	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43	4.8 4.8 6.6 6.8 9.6 9.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017 11/1/2018 2/14/2018 3/28/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83	10.9 10.4 9.2 9.2 10.8 10.5	7.99 8.12 5.8 6 7.18 7.21	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72	10.0 9.9 12.2 12.0 10.8 10.8 10.7	12.99 13 11.2 11 8.1 8.12 9	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55	4.8 4.8 6.6 6.8 9.6 9.6 8.8
7/7/2017 8/10/2017 11/1/2017 12/17/2017 11/1/2018 2/14/2018 3/28/2018	7.05 7.55 8.8 8.78 7.21 7.48	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96	10.9 10.4 9.2 9.2 10.8 10.5	7.99 8.12 5.8 6 7.18 7.21	5020.01 5019.88 5022.2 5022 5020.82 5020.79	10.0 9.9 12.2 12.0 10.8 10.8	12.99 13 11.2 11 8.1 8.12 9	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43	4.8 4.8 6.6 6.8 9.6 9.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9	12.99 13 11.2 11 8.1 8.12 9 9.1	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9 5023	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9 5023	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9 5023 5024.44	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15 5013.11	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.32	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9 5023 5024.44 5024.16	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2	12.99 13 11.2 11. 8.1 8.12 9 9.1 5.4 5.44 5.88	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.11 5012.67	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5	5020.01 5019.88 5022.2 5022 5020.82 5020.79 5020.72 5019.9 5023 5024.44	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15 5013.11	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3
7/7/2017 8/10/2017 11/1/2017 12/17/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5019.45 5019.45 5019.45	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14	5020.01 5019.88 5022.2 5022 5020.82 5020.72 5019.9 5023 5024.44 5024.16 5022.86	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15 5013.11 5012.67 5012.01	4.8 4.8 6.6 6.8 9.6 9.6 9.6 12.4 12.3 11.9
7/7/2017 8/10/2017 11/1/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.32	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66	5020.01 5019.88 5022.2 5020.82 5020.79 5020.79 5020.79 5023 5024.44 5024.16 5022.86 5021.34	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86	5005.56 5005.55 5007.35 5007.35 5010.45 5010.43 5009.55 5013.15 5013.11 5012.67 5012.01 5010.69	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 11.2 9.9
7/7/2017 8/10/2017 11/1/2017 12/17/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5019.45 5019.45 5019.45	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14	5020.01 5019.88 5022.2 5022 5020.82 5020.72 5019.9 5023 5024.44 5024.16 5022.86	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.55 5009.45 5013.15 5013.11 5012.67 5012.01	4.8 4.8 6.6 6.8 9.6 9.6 9.6 12.4 12.3 11.9
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018 10/22/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.32 5019.44 5016.41 5016.34	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09	5020.01 5019.88 5022.2 5020.82 5020.79 5020.79 5020.79 5024.44 5024.16 5022.86 5021.34 5020.91	10.0 9.9 12.2 12.0 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.45 5013.15 5013.11 5012.67 5012.01 5010.69 5010.62	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 11.2 9.9
7/7/2017 8/10/2017 8/10/2017 11/1/2017 12/17/2017 11/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 11/12018 10/22/2018 11/19/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.45 5019.45 5019.32 5019.44 5016.41	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0 10.9	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14	5020.01 5019.88 5022.2 5020.82 5020.79 5020.72 5019.9 5023 5024.44 5024.16 5021.34 5020.91 5020.86	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9	12.99 13 11.2 11 8.1 8.1 9 9.1 5.4 5.88 6.54 7.86 7.93 8.03	5005.56 5005.55 5007.35 5007.35 5010.45 5010.43 5009.55 5009.45 5013.15 5012.67 5012.01 5010.69 5010.62	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 11.2 9.9 9.9
7/7/2017 8/10/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018 10/22/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.32 5019.44 5016.41 5016.34	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09	5020.01 5019.88 5022.2 5020.82 5020.79 5020.79 5020.79 5024.44 5024.16 5022.86 5021.34 5020.91	10.0 9.9 12.2 12.0 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86	5005.56 5005.55 5007.35 5007.55 5010.45 5010.43 5009.45 5013.15 5013.11 5012.67 5012.01 5010.69 5010.62	4.8 4.8 6.6 9.6 9.6 8.8 8.6 12.4 12.3 11.9 11.2 9.9
7/7/2017 8/10/2017 8/10/2017 11/1/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018 10/22/2018 11/19/2018 12/17/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1 17.18	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5019.45 5019.45 5019.45 5019.45 5019.45 5019.32 5019.44 5016.34	10.9 10.4 9.2 10.8 10.5 10.4 9.2 12.9 14.0 11.0 10.9 10.8	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14 7.18	5020.01 5019.88 5022.2 5020.82 5020.79 5020.72 5019.9 5023 5024.44 5024.16 5022.86 5021.34 5020.91	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9 10.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86 7.93 8.03 8.1	5005.56 5005.55 5007.35 5007.35 5010.45 5010.43 5010.43 5009.55 5009.45 5013.11 5012.67 5012.01 5010.69 5010.62 5010.52 5010.45	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 9.9 9.8 9.8 9.8
7/7/2017 8/10/2017 8/10/2017 11/1/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018 10/22/2018 11/19/2018 11/19/2018 12/17/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1 7.18 7.21	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5018.34 5019.45 5019.32 5016.23 5016.34 5016.34 5016.26 5016.23 5015.96	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0 10.9 10.8 10.8	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14 7.18	5020.01 5019.88 5022.2 5020.82 5020.79 5020.79 5023 5024.44 5024.16 5022.86 5021.34 5020.91 5020.82	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9 10.8	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86 7.93 8.03 8.1 8.12	5005.56 5005.55 5007.35 5007.35 5010.45 5010.43 5009.55 5013.15 5013.11 5012.67 5012.01 5010.69 5010.62 5010.45 5010.45	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 9.9 9.8 9.7 9.6
7/7/2017 8/10/2017 8/10/2017 11/1/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 9/1/2018 10/22/2018 11/19/2018 12/17/2018	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1 17.18	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.45 5019.44 5016.41 5016.34 5016.26 5016.28	10.9 10.4 9.2 10.8 10.5 10.4 9.2 12.9 14.0 11.0 10.9 10.8	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14 7.18	5020.01 5019.88 5022.2 5020.82 5020.79 5020.72 5019.9 5023 5024.44 5024.16 5022.86 5021.34 5020.91	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9 10.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86 7.93 8.03 8.1	5005.56 5005.55 5007.35 5007.55 5010.43 5009.45 5013.15 5013.11 5012.67 5012.01 5010.69 5010.62 5010.52 5010.43 5009.55	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 9.9 9.8 9.8 9.8
7/7/2017 8/10/2017 8/10/2017 11/1/2017 11/1/2017 1/11/2018 2/14/2018 3/28/2018 6/4/2018 6/4/2018 7/13/2018 8/1/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2018 11/19/2019	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1 7.18 7.21 7.48	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.45 5019.44 5016.41 5016.34 5016.26 5016.28	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 13.9 14.0 11.0 10.9 10.8 10.8	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14 7.18 7.21 7.28	5020.01 5019.88 5022.2 5020.82 5020.79 5020.72 5020.79 5020.72 5023 5024.44 5024.16 5022.86 5021.34 5020.91 5020.82 5020.82 5020.79	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9 10.9 10.8 10.9	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86 7.93 8.03 8.1 8.12 9	5005.56 5005.55 5007.35 5007.55 5010.43 5009.45 5013.15 5013.11 5012.67 5012.01 5010.69 5010.62 5010.52 5010.43 5009.55	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 12.3 11.9 9.9 9.8 9.7 9.6 8.8
7/7/2017 8/10/2017 8/10/2017 11/1/2017 11/1/2017 12/17/2017 1/11/2018 2/14/2018 3/28/2018 5/3/2018 6/4/2018 7/13/2018 8/1/2018 10/22/2018 10/22/2018 11/19/2018 12/17/2018 11/19/2019 2/18/2019 3/18/2019 7/19/2019	7.05 7.55 8.8 8.78 7.21 7.48 7.61 8.76 5.1 3.99 4.12 4 7.03 7.1 7.18 7.21 7.48 7.61 7.05	5016.39 5015.89 5014.64 5014.66 5016.23 5015.96 5015.83 5014.68 5018.34 5019.45 5019.45 5019.45 5019.32 5019.44 5016.34 5016.26 5016.23 5015.96 5015.83 5016.33	10.9 10.4 9.2 9.2 10.8 10.5 10.4 9.2 12.9 14.0 11.0 10.9 10.8 10.8 10.8 10.8	7.99 8.12 5.8 6 7.18 7.21 7.28 8.1 5 3.56 3.84 5.14 6.66 7.09 7.14 7.18 7.21 7.28 6.89	5020.01 5019.88 5022.2 5020.82 5020.79 5020.72 5019.9 5023 5024.44 5024.16 5022.86 5021.34 5020.91 5020.89 5020.72 5020.72 5020.72	10.0 9.9 12.2 12.0 10.8 10.8 10.7 9.9 13.0 14.4 14.2 12.9 11.3 10.9 10.9 10.8 10.8	12.99 13 11.2 11 8.1 8.12 9 9.1 5.4 5.44 5.88 6.54 7.86 6.54 7.86 8.03 8.1 8.12 9 8.6	5005.56 5005.55 5007.35 5007.35 5010.45 5010.43 5010.43 5009.45 5013.15 5013.11 5012.67 5012.01 5010.62 5010.43 5010.43 5010.43 5010.45 5010.45 5010.45 5010.45 5010.45 5010.45	4.8 4.8 6.6 6.8 9.6 9.6 8.8 8.6 12.4 11.2 9.9 11.2 9.9 9.7 9.6 9.6 9.7
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Lata Source Notes:

Coordinates provided by Martin Marietta, 2021-08-19

Elevations provided by Martin Marietta, 2021-08-19

Water level measurements provided by Martin Marietta

Ground Surface for Koonce and Slatten approximated as 1 foot below BM.

Bedrock depth estimated as 17 feet below ground surface

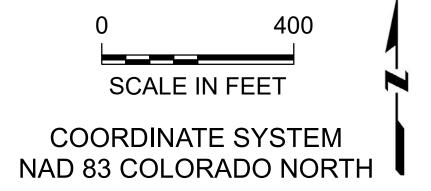
Stegner - Monitoring Well Measurements									
Depth To Water from Surface (Feet)									
Date Measured	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	MW-09
July-16	2.62	0.95	1.75	2.28	2.91	2.41	3.15	6.41	2.92
August-16	4.15	0.93	1.78	2.18	3.06	2.71	3.75	7.38	3.56
September-16	6.89	3.00	3.08	2.52	3.70	3.53	5.70	9.28	5.09
October-16	-0.29	3.18	3.40	2.81	3.73	3.43	4.56	9.99	5.27
November-16	7.01	3.39	3.78	3.10	3.95	3.41	5.43	10.23	5.37
December-16	7.21	3.57	3.98	3.22	3.99	3.45	5.66	10.56	5.45
January-17	7.18	3.58	4.05	3.27	4.00	3.42	5.64	10.63	5.42
February-17	7.19	3.70	4.15	4.47	4.07	3.53	6.19	10.73	5.57
March-17	7.16	3.28	3.72	3.18	4.18	3.53	6.41	10.62	5.62
April-17	5.56	2.61	3.38	3.03	4.05	3.55	6.51	8.95	5.53
May-17	1.76	0.97	2.13	2.67	3.24	2.79	5.50	3.11	3.41
June-17	0.44	0.50	1.55	1.50	2.38	2.10	5.57	1.51	2.20
July-17	1.75	0.53	1.96	2.45	3.47	3.11	5.69	2.18	3.64
August-17	2.60	1.66	2.98	2.73	4.00	3.72	6.17	3.07	6.25
September-17	2.31	1.35	2.73	3.43	4.04	3.80		3.64	6.44
October-17	2.62	1.61	3.85	3.76	4.30	4.50	6.67	4.26	7.81
November-17	2.72	2.11	4.37	3.67	4.79	4.24	6.41	5.23	8.42
December-17	5.63	2.88	4.22	3.45	4.97	4.80	7.07	7.18	8.57
April-18	6.69	3.50	4.41	3.57	5.16	4.89	7.09	8.93	8.74
July-18	2.67	0.90	2.03	2.09	3.11	2.65	5.55	4.71	6.49
October-18	6.94	4.24	4.93	3.33	7.02	6.66	8.09	3.87	8.98
January-19	6.14	4.09	5.15	3.63	5.21	4.99	7.28	7.85	8.84
April-19	6.98	4.39	5.37	3.86	5.45	5.01	7.19	9.31	8.94
July-19	5.84	2.81	4.48	3.20	5.13	3.94	7.10	6.63	8.76
September-19	6.32	4.75	5.59	3.64	4.93	4.01	6.89	6.58	8.39
January-20	7.43	5.24	5.59	4.07	5.52	5.17	7.35	9.59	8.97
May-20	7.03	4.53	5.16	3.79	5.39	5.06	7.15	9.24	8.78
August-20	4.59	2.68	3.12	3.46	4.69	3.91	5.79	4.16	7.18
December-20	6.45	3.23	4.41	3.75	4.94	4.50	6.85	5.78	7.73
February-21	6.69	5.02	5.38	4.28	5.46	4.79	7.38	8.07	8.56
May-21	6.94	4.71	5.29	3.90	5.32	4.89	7.25	9.04	8.74
August-21	4.58	2.88	3.31	3.53	4.68	3.82	6.01	4.06	7.28
December-21	6.51	3.77	4.63	3.44	5.11	4.67	7.10	6.86	8.46
March-22	6.96	4.29	5.28	3.78	5.74	5.10	7.49	7.61	8.98



Legend

Stegner Monitoring Wells

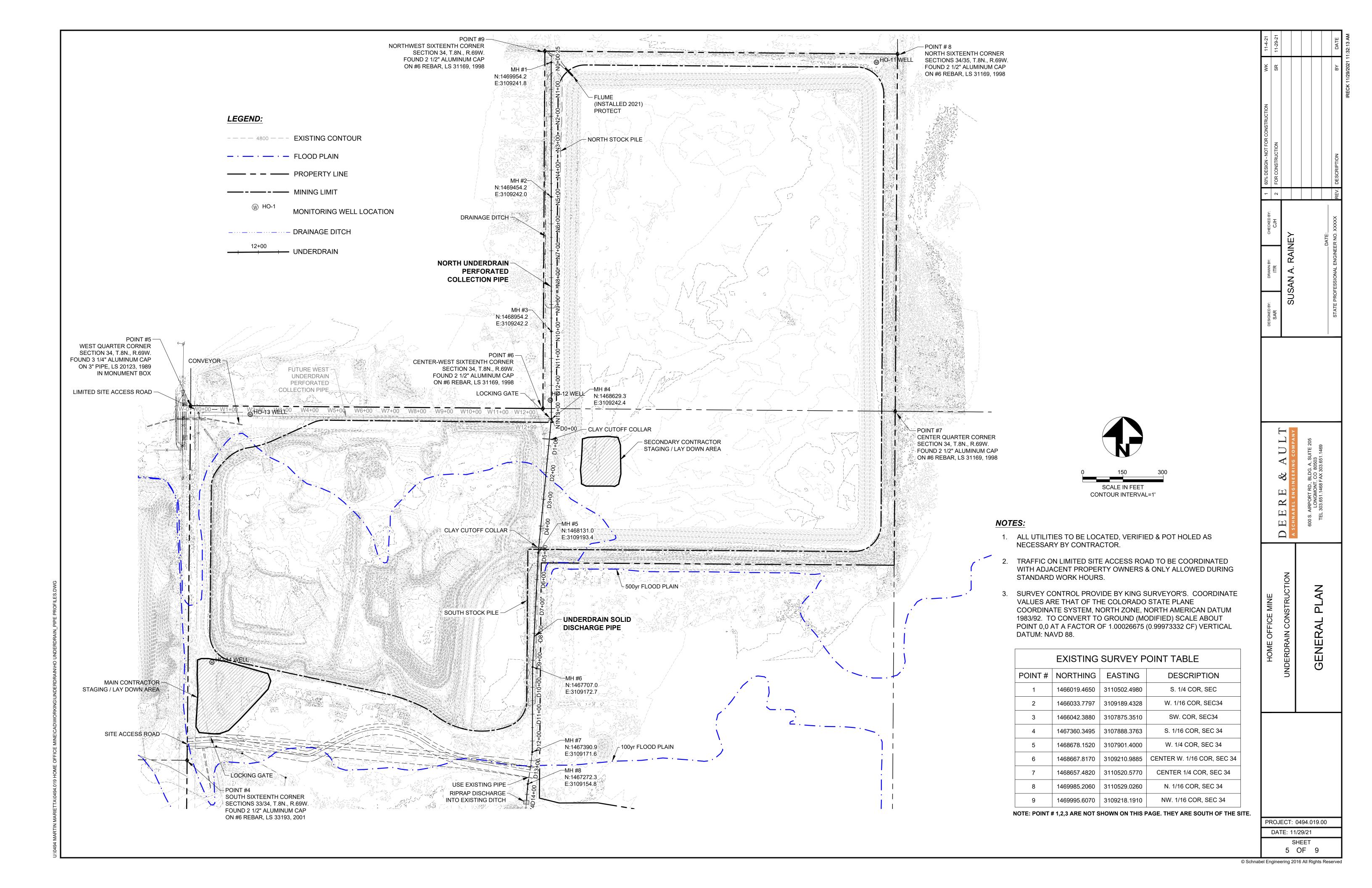
Stegner Parcels

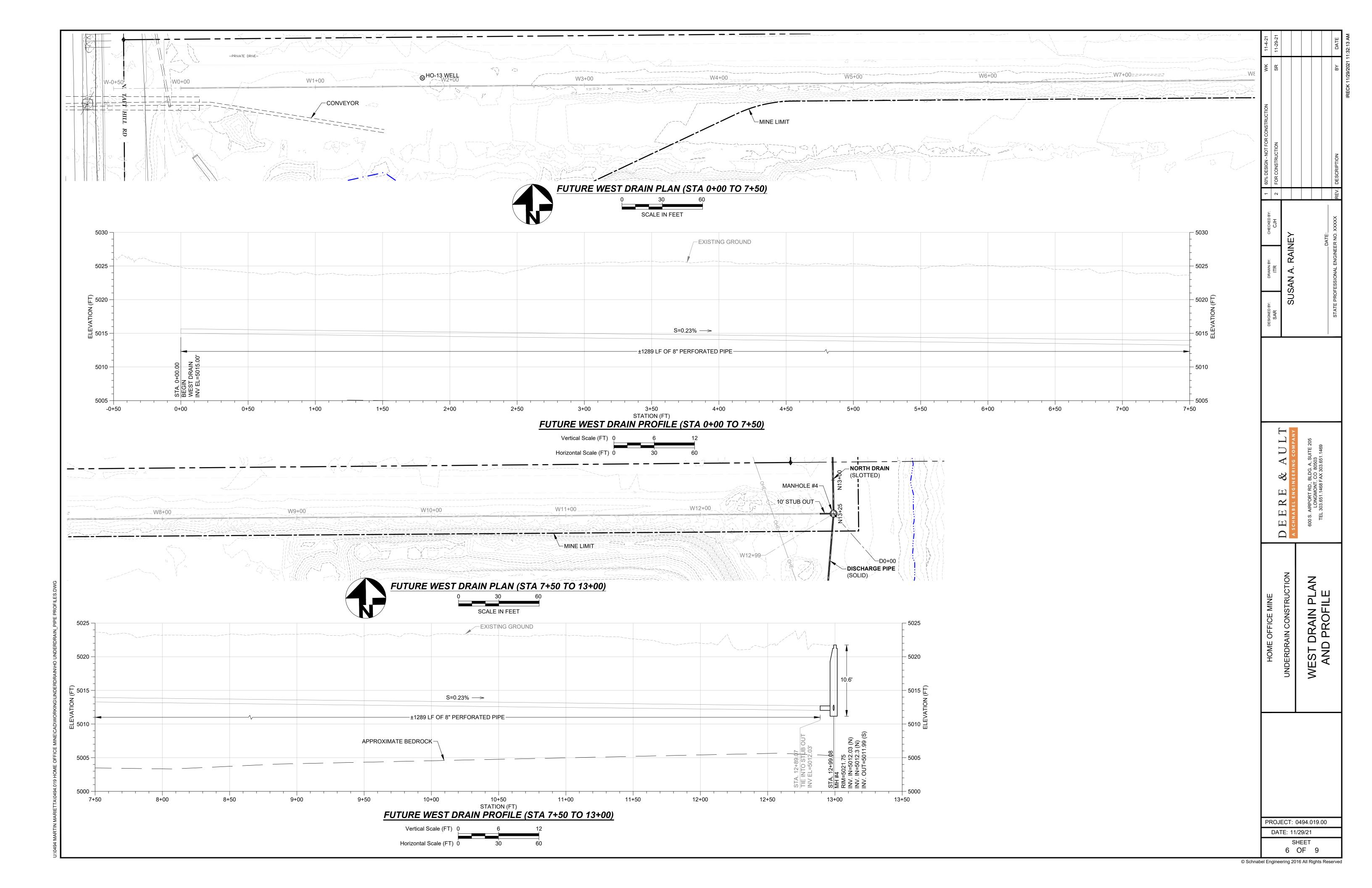


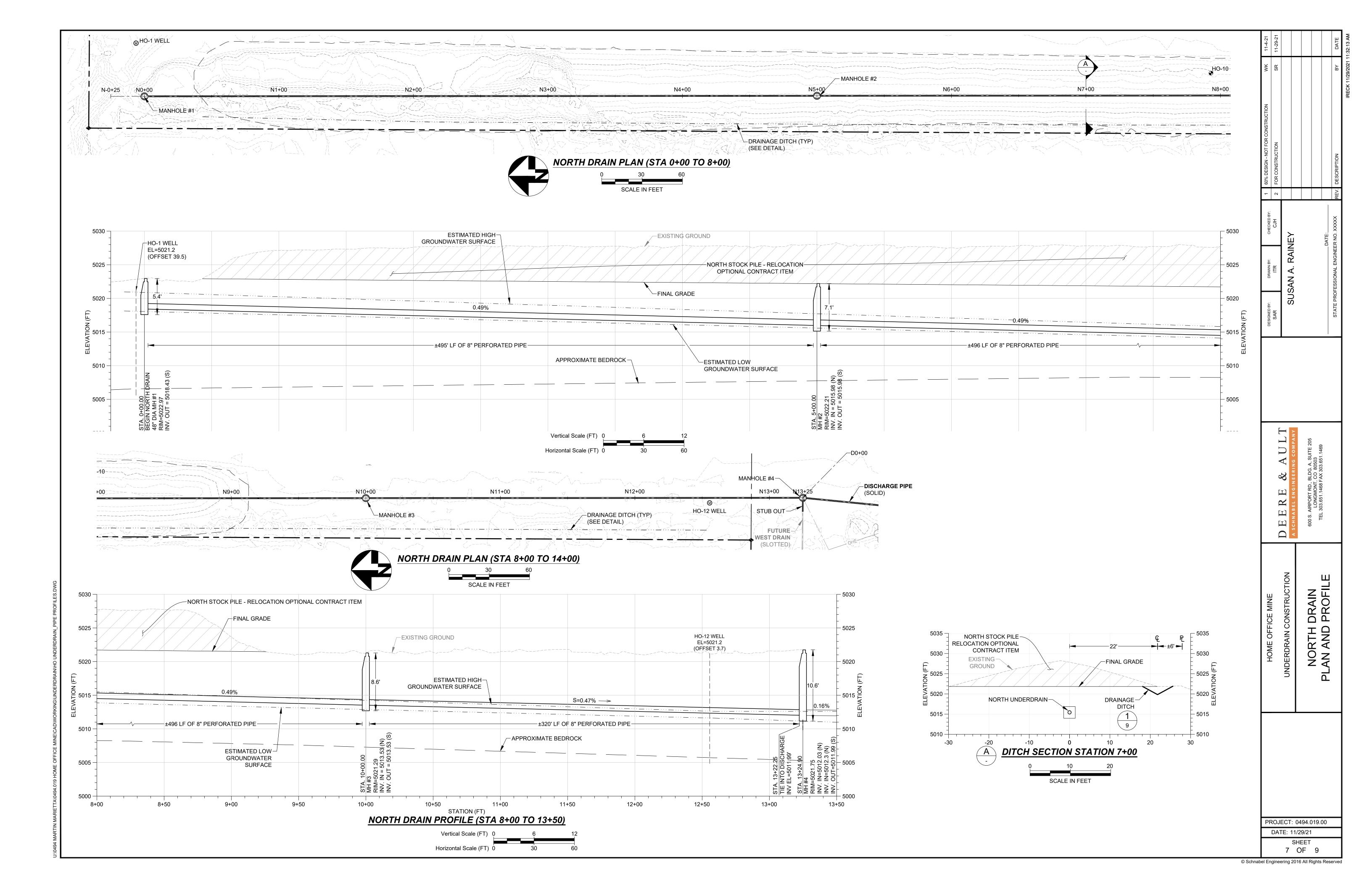
STEGNER BASEMAP

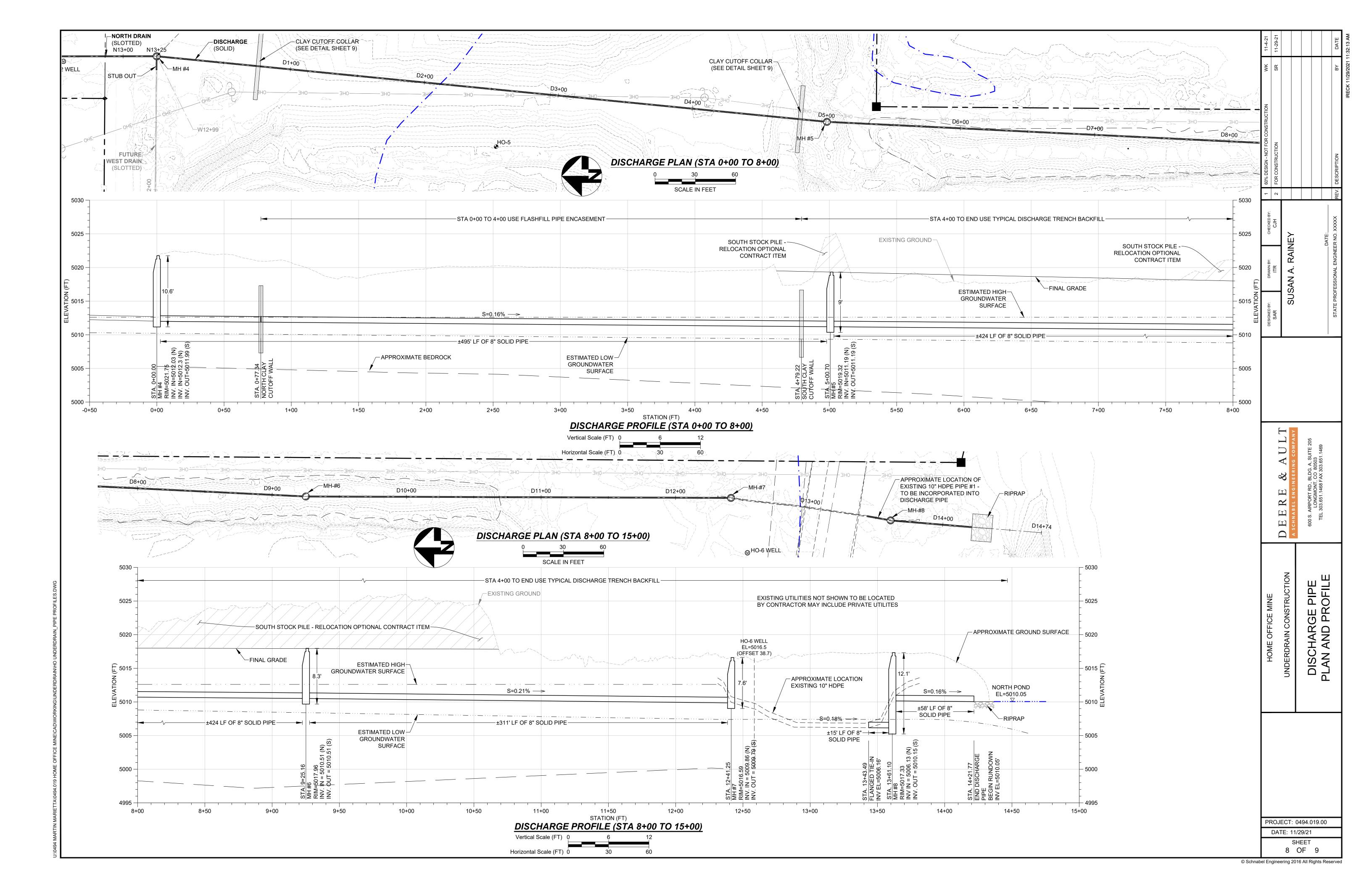


ATTACHMENT 2 UNDERDRAIN DESIGN











600 South Airport Road, Suite A-205 Longmont, Colorado 80503 T/ 303-651-1468 F/ 303-651-1469

TECHNICAL MEMORANDUM

TO: Julie Mikulas **DATE**: 6/21/2022

Britney Guggisberg

COMPANY: Martin Marietta SUBJECT: Underdrain Calculations

ADDRESS: 1800 North Taft Hill Road PROJECT Home Office

Fort Collins, CO 80521 **NAME/NO.:** DA494019.00

FROM: Susan A. Rainey, PE CC: Pam Hora – Tetra Tech

This document presents the calculations performed as part of the groundwater underdrain design at the Home Office Mine.

PROJECT BACKGROUND

The Home Office Mine is located in Larimer County, Colorado in the northwest portion of the city of Fort Collins. As mining progressed at the site, Martin Marietta plans to construct a slope liner in stages around the perimeter of the mined area. The slope liner and berm in the center of the site will create two cells. Phase I, or the first cell and dividing berm, was constructed from August to October in 2020. Phase II is scheduled to be constructed in approximately the same time frame this year. Martin Marietta elected to construct a groundwater collection system or underdrain to deal with possible groundwater mounding that could occur due to the liner configuration. The first section of underdrain (the north drain and discharge) was constructed at the beginning of 2022. The remainder of the underdrain (the west drain) will be constructed as part of Phase II.

CALCULATIONS

Seepage analyses were performed using Seep/W, a finite element computer model software program, to estimate the possible groundwater flow into the underdrain. The seepage analyses were performed using two different K values for the native sand and gravel. The first value ($2.54 \times 10^{-3} \, \text{cm/s}$) was selected using the NAVFAC DM 7.2 Table 1 typical coefficient of permeability for SW (well-graded sand) soil type as a guideline. This table lists a permeability of greater than 1 x $10^{-3} \, \text{ft/min}$. We selected 5 x $10^{-3} \, \text{ft/min}$ or $2.54 \times 10^{-3} \, \text{cm/s}$ for a possible lower end value, which is greater than the minimum ($1 \times 10^{-3} \, \text{ft/min}$) typical permeability for well graded sand. This value was selected due to the presence of gravel and cobble on the site. A second seepage analysis was performed with a considerably higher permeability ($1 \times 10^{-2} \, \text{cm/s}$) for a possible higher end value. This value was selected based off the typical permeability on the NAVFAC DM 7.2 Table 1 for GW (well-graded gravel) of $5 \times 10^{-2} \, \text{ft/min}$. Our value of $1.00 \times 10^{-2} \, \text{cm/s}$ or $1.97 \times 10^{-2} \, \text{ft/min}$ is less than this maximum permeability.

We performed analyses for each K value with two different groundwater heights for a range of possible flows into the underdrain system. The resulting flows were entered into FlowMaster, a general purpose 1D computational fluid dynamics simulation software, along with other design parameters (pipe size, slope, length, etc.) to calculate how full the pipe would be. An additional flow of 100 gallons per minute or more than double the highest Seep/W flow rate was entered into FlowMaster, as a high-end extreme flow. This was done for the two sections of perforated pipe (north and west drain). A cumulative flow of 200 gallons per minute for the discharge section was

Home Office Mine Underdrain Calculations
also entered into FlowMaster. The resulting percent of pipe full of flow is shown on the attached calculations summary table.
A final check of water velocity through the slots in the perforated pipe was performed for the anticipated flows to confirm the open area of the perforated pipe was sufficient for the estimated possible, and high-end extreme flows.
U:\0494 MARTIN MARIETTA\0494.019 HOME OFFICE MINE\UNDERDRAIN\UNDERDRAIN CALCULATIONS SUMMARY MEMO 6-21-2022.DOCX

Home Office Underdrain Seep W Analysis Drain pipe sizing.

North Drain

Inputs

Length: 1370 ft. - from drawings

Slope 0.0047 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

Slots 1.5 in2/ft specified minimum slot area

Outputs

		Seep V	V Input			Seep W Resu	ults		Pipe		
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter	Water velocity through slots
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in		ft/sec
2.54E-03	5,024	5,019	5	5017	7	8.77E-06	1.20E-02	5.392287	0.6	7.1%	8.42E-04
2.54E-03	5,024	5,021	3	5017	7	1.85E-05	2.53E-02	11.37484	0.8	10.1%	1.78E-03
1.00E-02	5,024	5,019	5	5017	7	3.50E-05	4.80E-02	21.51996	1.1	13.7%	3.36E-03
1.00E-02	5,024	5,021	3	5017	7	7.39E-05	1.01E-01	45.43786	1.6	19.6%	7.09E-03
High flow check - :	100 gpm, greater t	than 200% of mod	lel			1.63E-04	2.23E-01	100	2.3	29.3	1.56E-02

West Drain

Inputs

Length: 1326 ft. - from drawings

Slope 0.0023 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

Slots 1.5 in2/ft specified minimum slot area

Outputs

		Seep V	V Input			Seep W Resu	ılts			Pipe	
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter	Water velocity through slots
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in		ft/sec
2.54E-03	5,024	5,019	5	5017	7	8.77E-06	1.16E-02	5.219104	0.7	8.2%	8.42E-04
2.54E-03	5,024	5,021	3	5017	7	1.85E-05	2.45E-02	11.00951	0.9	11.8%	1.78E-03
1.00E-02	5,024	5,019	5	5017	7	3.50E-05	4.64E-02	20.82881	1.3	16.0%	3.36E-03
1.00E-02	5,024	5,021	3	5017	7	7.39E-05	9.80E-02	43.97854	1.8	23.1%	7.09E-03
High flow check - :	100 gpm, greater t	than 200% of mod	el			1.68E-04	2.23E-01	100	2.8	35.3%	1.61E-02

Discharge

Length: 1400 ft. - from drawings

Slope 0.0012 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

			Seep W Results							
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in	
2.54E-03	5,024	5,019	5	5017	7		2.36E-02	10.61139	1.1	13.5%
2.54E-03	5,024	5,021	3	5017	7		4.99E-02	22.38435	1.6	19.4%
1.00E-02	5,024	5,019	5	5017	7		9.44E-02	42.34877	2.1	26.7%
1.00E-02	5,024	5,021	3	5017	7		1.99E-01	89.4164	3.2	39.5%
High flow check -	200 gpm, greater t	than 200% of mod	el				4.46E-01	200	5.1	63.9%

Notes:

See USBR DS-15(5) - Filter Drsign. Paragraph 5.5.2 - "Drains sould be sized so that the depth of water in the drain pipe is less than 50% of the inside diameter.

Slot velocity not specified by design standard. Calculated to check, maintin below 0.06 ft/sec, which the maximum orfice velocity at 100 gpm as calculated in Flow Master



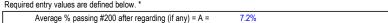
CALCULATION COVER SHEET

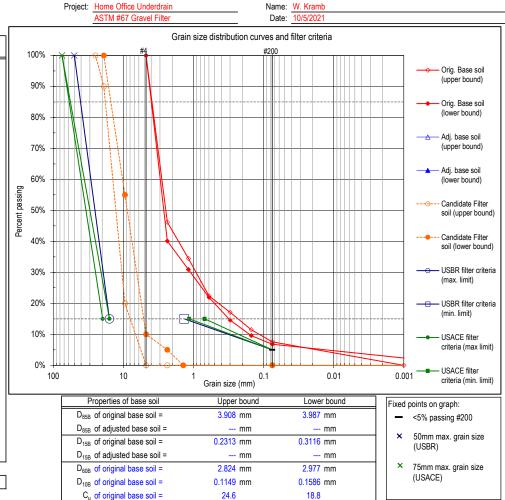
Project	Project Number
Tidle	
Title	
Computer Programs Head	Version/Release No.
Computer Programs Used	NO.
Purpose and Objective	
Summary of Conclusions	
Originator	
Originator	
Print	Sign Date
Checked	
Print	Sign Date

Base Material

Determine the gradation curves of the base soil. Use enough samples to define the range of grain size for the base soil. Design the filter gradation based on the base soil that requires the smallest D_{15r} size. If soil has particles larger than the #4 sieve, an adjusted gradation is calculated. Input values below for the base soil (original) gradation (in red):

Particle size	gradation is calculate Sieve		nal), % passing	Adjusted grada	tion, % passing
(mm)	#	(upper bound)	(lower bound)	upper bound	lower bound
75	-				
37.5	-			(No adjustm	ont nooded)
19.0	-			(NO aujustin	ent needed)
9.5	-				
4.75	4	100.0%	100.0%		
4.00	5				
3.35	6				
2.80	7				
2.36	8	46.2%	40.1%		
2.00	10				
1.70	12				
1.40	14				
1.18	16	34.5%	30.9%		
1.00	18				
0.850	20				
0.710	25				
0.600	30	22.4%	21.9%		
0.500	35				
0.425	40				
0.300	50	17.1%	14.6%		
0.250	60				
0.212	70				
0.180	80				
0.150	100	11.5%	9.6%		
0.125	120				
0.106	140				
0.090	170				
0.075	200	7.6%	6.8%		
0.053	270				
0.037	-				
0.019	-				
0.009	-				
0.005	-				
0.002	-				
0.001	-	0.0%			
0.0001		0.0%	0.0%		
Required entry values	s are defined below. *			-	





Last Revised: 10/11/02 Filter Design 2 of 2

Filter Material

Filter criteria required by the USBR as published in Design Standards - Embankment Dams No. 13 (1994):

Dailis NO. 13 (1994).						
D _{85B} used in filter design	3.948					
Average Passing #200 sieve of base soil	7.2%					
Base soil category	4					
Base soil description	Sands and gravels					
Filter criteria (mm)	$\label{eq:D15F} \begin{aligned} & \text{Maximum:} & & D_{15F} \leq & 15.79 \\ & & \text{To ensure sufficient permeability:} \\ & \text{Minimum:} & & D_{15F} \geq & 1.36 \end{aligned}$					
Maximum particle size of filter (mm)	50					
Maximum % passing # 200 sieve	5%					
	0					
PI of material passing #40	when tested in accordace with USBR 5360, Earth Manual, on material passing #40					

Filter criteria required by the US Army Corps of Engineers as published in EM 1110-2-2300 (31 Jul 94):

2000 (31 34).						
D _{85B} used in filter design	3.948					
Average Passing #200 sieve of base soil	7.2%					
Base soil category	4**					
Filter criteria (mm)	Maximum: To ensi	$D_{15F} \le to$ ure sufficien	15.79 19.74 t permeability:			
	Minimum:	$D_{15F} \ge to$	0.69 1.16			
Maximum particle size of filter (mm)	75					
Maximum % passing # 200 sieve	5%					
PI of material passing #40	0 when tested in accordance with EM 1110-2-1906					

^{**}If the base soil is in category 4, use the lower of the two 'max. D_{15F}' values when the filter is beneath riprap subject to wave action or beneath drains which may be subject to violent surging and/or vibration.

*Required entry values for base soil & candidate filter gradations:

1. Particle size for 100% passing. 2. % Passing the #4 sieve.

3. % Passing the #200 sieve.

4. One point in the 85% - 90% range and another point

in the 80% - 85% range, or the 85% point.

5. One point in the 15% - 20% range and another point

in the 10% - 15% range, or the 15% point.

6. No duplicate entries; if D100<#4, enter 101% for #4 and 100% for appropriate size.

USBR filter gradation limits:

Maximu	um limit
Grain size (mm)	% Passing
50.00	100.0%
15.79	15.0%

Minim	154						
Minimum limit							
Grain size (mm)	% Passing						
1.36	15.0%						
0.075	5.0%						

USACE filter gradation limits:

Maximum limit							
% Passing							
100.0%							
15.0%							
15.0%							

Minimum limit							
Grain size (mm)	% Passing						
0.69	15.0%						
1.16	15.0%						
0.075	5.0%						

Candidate filter soil gradation. Values shown in red in the left column, and all values in the two right columns, can be changed.

Particle size	Sieve	% Passing	% Passing
mm	#	(upper bound)	(lower bound)
150.0	-		,
100.0	-		
90.0	-		
75.0	-		
63.0	-		
50.0	-		
37.5	-		
25.0	-	100.0%	
19.0	-	90.0%	100.0%
12.5	-		
9.5	-	20.0%	55.0%
4.75	4	0.0%	10.0%
3.35	6		
2.36	8	0.0%	5.0%
2.00	10		
1.70	12		
1.40	14		(0.0%)
1.18	16		
0.850	20		
0.600	30		
0.425 0.300	40 50		
0.300	60		
0.230	70		
0.180	80		
0.150	100		
0.125	120		
0.106	140		
0.090	170		
0.075	200	(0.0%)	(0.0%)
0.053	270		
0.037	-		
0.019	-		
0.009	-		
0.0001	-	0.0%	0.0%
Demindent		· C	

Acceptibility of candidate filter (CF) soil:

Acceptibility of carididate litter (of) soil.						
USBR criteria	Upper					
USBR CITIEITA	bound	Lower bound				
Max % passing #200:	OK	OK				
Max particle size (mm):	OK	OK				
Maximum D _{15CF} :	OK	OK				
Minimum D _{15CF} :	OK	OK				
To minimize segregation (from	Table 2)**	*				
Max allowable D _{90CF} =	40	OK				
Max D _{90CF} =	19.00	OK .				

USACE criteria	Upper bound	Lower bound					
Max % passing #200:	OK	OK					
Max particle size (mm):	OK	OK					
Maximum D _{15CF} :	OK	OK					
Minimum D _{15CF} (3×D _{15B}):	OK	OK					
Minimum D _{15CF} (5×D _{15B}):	OK	OK					
To minimize segregation (from Table B-3)***							
Max allowable D _{90CF} =	40	OK					
Max D _{90CF} =	19.00	OK					

Filters should be relatively uniform (see the C_{IJ} value of the candidate filter soil.). Also, filters should not be gapgraded.

*** Generally, this requirement is only necessary for coarse filters and gravel zones that serve as both filters and drains. For sand filters with $D_{90} < \sim 20$ mm, these limitations are usually not necessary.

Required entry values are defined above. *

Properties of candidate filter soil (CF). D sizes are in mm:								
	D _{85CF}	D _{15CF}	D _{60CF}	D _{10CF}	Cu			
upper bound	18.08	7.99	14.12	6.72	2.10			
lower bound	15.08	5.13	10.26	4.75	2.16			

Home office underdrain 10-5-21

> of D15F to D85B over that used for protecting a natural or unprocessed soil. The ratio can be as high as 9, but 5 is generally found to meet the practical requirements of the situation. This increase is sometimes possible because the first-stage filter: (1) is a material processed to stringent gradation requirements and placed and compacted under controlled conditions, (2) is inspected and tested to verify that material properties conform to those that are specified, (3) usually has seepage gradients that are much less than those of a foundation material or impervious zone that needs filter protection, and (4) has D₈₅ particles in the first stage filter material that are larger than those in materials that are usually being protected and, therefore, less likely to move. However, this increase should be made with caution.

5.5.2 Drain Pipe Perforation Size

The maximum pipe perforation dimension 19 should be no larger than the finer side of the D₅₀E where D₅₀E is taken from the gradation of the envelope (drain) material D 50minfor Astm C33 #57gravel - ~ 15mm = 0.59in that surrounds the drainpipe. That is:

Max Perforation Dimension ≤ D₅₀E

#67 govel - ~ 12mm = 0.47 m

It is emphasized that inaccessible drainpipes beneath embankment dams should be Use 1 5 10 5 m 24 avoided. Drainpipes should be sized and located, and inspection wells should be 4" more reosono ble provided so that access for inspection, maintenance, and repair, if necessary, is easy. It is recommended that each pipe segment be accessible from both ends. In order to provide a margin of safety for the pipe capacity, drains should be sized so that the depth of water in the drainpipe is less than 50 percent of the inside diameter of the drainpipe at the maximum expected discharge. If it is anticipated that the drainpipe will collect a large amount of flow from a pervious foundation or embankment, the maximum depth of water should not exceed 25 percent of the inside pipe diameter due to uncertainties in predicting the amount of flow.

5.6 Laboratory Test Procedures

In the following section, test procedures for laboratory tests are presented. The procedures have been separated into two categories: particle retention and material quality. The particle retention tests evolved from the original test procedures used during research into particle movement. The material quality tests come mainly from industry standard tests, although one stems from research work.

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¹⁹ The maximum dimension as used in this standard is the width for a slot and the diameter for a hole.

Home Office Underdrain Seep W Analysis Drain pipe sizing.

North Drain

Inputs

Length: 1370 ft. - from drawings

Slope 0.0047 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

Slots 1.5 in2/ft specified minimum slot area

Outputs

	Seep W Input					Seep W Results				Pipe		
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter	Water velocity through slots	
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in		ft/sec	
2.54E-03	5,024	5,019	5	5017	7	8.77E-06	1.20E-02	5.392287	0.6	7.1%	8.42E-04	
2.54E-03	5,024	5,021	3	5017	7	1.85E-05	2.53E-02	11.37484	0.8	10.1%	1.78E-03	
1.00E-02	5,024	5,019	5	5017	7	3.50E-05	4.80E-02	21.51996	1.1	13.7%	3.36E-03	
1.00E-02	5,024	5,021	3	5017	7	7.39E-05	1.01E-01	45.43786	1.6	19.6%	7.09E-03	
High flow check - :	100 gpm, greater t	han 200% of mod	el			1.63E-04	2.23E-01	100	2.3	29.3	1.56E-02	

West Drain

Inputs

Length: 1326 ft. - from drawings

Slope 0.0023 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

Slots 1.5 in2/ft specified minimum slot area

Outputs

	Seep W Input					Seep W Results				Pipe		
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter	Water velocity through slots	
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in		ft/sec	
2.54E-03	5,024	5,019	5	5017	7	8.77E-06	1.16E-02	5.219104	0.7	8.2%	8.42E-04	
2.54E-03	5,024	5,021	3	5017	7	1.85E-05	2.45E-02	11.00951	0.9	11.8%	1.78E-03	
1.00E-02	5,024	5,019	5	5017	7	3.50E-05	4.64E-02	20.82881	1.3	16.0%	3.36E-03	
1.00E-02	5,024	5,021	3	5017	7	7.39E-05	9.80E-02	43.97854	1.8	23.1%	7.09E-03	
High flow check - :	100 gpm, greater t	han 200% of mod	el			1.68E-04	2.23E-01	100	2.8	35.3%	1.61E-02	

Discharge

Length: 1400 ft. - from drawings

Slope 0.0012 ft./ft.
Pipe Diame 8 in
Manning's 0.0009

		Seep V	V Input		Seep W Results					Pipe
Sand and Gravel (k)	Model Ground Surface	Model Groundwater Elevation	Groundwater depth below ground	Drain Elevation	Drain Depth	q	Total flow	Total flow	Flow height - solved in Flowmaster	% of diameter
cm/sec	ft.	ft.	ft.	ft.	ft.	cfs/ft.	cfs	gpm	in	
2.54E-03	5,024	5,019	5	5017	7		2.36E-02	10.61139	1.1	13.5%
2.54E-03	5,024	5,021	3	5017	7		4.99E-02	22.38435	1.6	19.4%
1.00E-02	5,024	5,019	5	5017	7		9.44E-02	42.34877	2.1	26.7%
1.00E-02	5,024	5,021	3	5017	7		1.99E-01	89.4164	3.2	39.5%
High flow check -	200 gpm, greater t	than 200% of mod	el				4.46E-01	200	5.1	63.9%

Notes:

See USBR DS-15(5) - Filter Drsign. Paragraph 5.5.2 - "Drains sould be sized so that the depth of water in the drain pipe is less than 50% of the inside diameter.

Slot velocity not specified by design standard. Calculated to check, maintin below 0.06 ft/sec, which the maximum orfice velocity at 100 gpm as calculated in Flow Master

TABLE 5.5 Coarse Aggregate Grading Requirements for Concrete (Reprinted, with permission, from ASTM C33, Table 2, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428).

	Amounts Finer Than Each Laboratory Sieve (Square Openings), Weight Percent														
Size No.	Nominal Size	4 in. (100 mm)	3 1/2 in. (90 mm)	3 in. (75 mm)	2 1/2 in. (63 mm)	2 in. (50 mm)	1 1/2 in. (37.5 mm)	1 in. (25.0 mm)	3/4 in. (19.0 mm)	1/2 in. (12.5 mm)	3/8 in. (9.5 mm)	No. 4 (4.75 mm)	No. 8 (2.36 mm)	No. 16 (1.18 mm)	
1	3 1/2 to 1 1/2 in. (90 to 37.5 mm)	100	90 to 100		25 to 60		0 to 15		0 to 5						
2	2 1/2 to 1 1/2 in. (63 to 37.5 mm)	•••	•••	100	90 to 100	35 to 70	0 to 15	•••	0 to 5						
3	2 to 1 in. (50 to 25.0 mm)		•••	•••	100	90 to 100	35 to 70	0 to 15	•••	0 to 5		•••	•••		
357	2 in. to No. 4 (50 to 4.75 mm)			•••	100	95 to 100	•••	35 to 70	•••	10 to 30		0 to 5			
4	1 1/2 to 3/4 in. (37.5 to 19 mm)					100	90 to 100	20 to 55	0 to 15		0 to 5				
467	1 1/2 in. to No. 4 (37.5 to 4.75 mm)					100	95 to 100		35 to 70		10 to 30	0 to 5			
5	1 to 1/2 in. (25.0 to 12.5 mm)						100	90 to 100	20 to 55	0 to 10	0 to 5				
56	1 to 3/8 in. (25.0 to 9.5 mm)	•••	•••	•••			100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	•••	•••	
57	1 in. to No. 4 (25.0 to 4.75 mm)						100	95 to 100		25 to 60		0 to 10	0 to 5		
6	3/4 in. to 3/8 in. (19.0 to 9.5 mm)							100	90 to 100	20 to 55	0 to 15	0 to 5			
67	3/4 in. to No. 4 (19.0 to 4.75 mm)						•••	100	90 to 100		20 to 55	0 to 10	0 to 5		
7	1/2 in. to No. 4 (12.5 to 4.75 mm)			•••		•••	•••	•••	100	90 to 100	40 to 70	0 to 15	0 to 5		
8	3/8 in. to No. 8 (9.5 to 2.36 mm)								•••	100	85 to 100	10 to 30	0 to 10	0 to 5	