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WATER RESOURCES
STATE ENGINEER
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COBBLESTONE DEVELOPMENT											
GREELEY, COLORADO											
PROJECT NO: 1192008		LOG OF BORING B-1 (PIEZOMETER0)				DATE: JANUARY 2019					
RIG TYPE: CME55		SHEET 1 OF 1				WATER DEPTH					
FOREMAN: DG		START DATE		1/28/2019		WHILE DRILLING		None			
AUGER TYPE: 4" CFA		FINISH DATE		1/28/2019		AFTER DRILLING		N/A			
SPT HAMMER: AUTOMATIC		SURFACE ELEV		N/A		2/4/2019		22'			
SOIL DESCRIPTION	TYPE	D	N	QU	MC	DD	A-LIMITS		-200	SWELL	
		(FEET)	(BLOWS/FT)	(PSF)	(%)	(PCF)	LL	PI	(%)	PRESSURE	% @ 500 PSF
SPARSE / NO VEGETATION		1									
CLAYEY SAND (SC) brown medium dense with calcareous deposits	CS	5	24	9000+	9.0	104.8				1300 psf	0.7%
	SS	10	12	3000	11.4						
	CS	15	26	9000+	22.3	105.0					
CLAYSTONE grey / brown / rust highly weathered	SS	20	50	3000	19.4						
SILTSTONE / SANDSTONE grey / brown / rust	CS	25	50/6"	5500	18.9	108.5	24	NP	19.2		
BOTTOM OF BORING DEPTH 25.0'											

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PROJECT NO: 1192008		LOG OF BORING B-3 (PIEZOMETER)				DATE: JANUARY 2019					
RIG TYPE: CME55		SHEET 1 OF 1				WATER DEPTH					
FOREMAN: DG		START DATE		1/28/2019		WHILE DRILLING		None			
AUGER TYPE: 4" CFA		FINISH DATE		1/28/2019		AFTER DRILLING		N/A			
SPT HAMMER: AUTOMATIC		SURFACE ELEV				N/A		2/4/2019		17'	
SOIL DESCRIPTION		D	N	QU	MC	DD	A-LIMITS		-200	SWELL	
TYPE		(FEET)	(BLOWS/FT)	(PSF)	(%)	(PCF)	LL	Pi	(%)	PRESSURE	% @ 500 PSF
SPARSE / NO VEGETATION		1									
CLAYEY SAND (SC) brown / rust medium dense		2									
CS		3	25	9000+	8.1	104.4					
		4									
		5	26	9000+	7.1						
CLAYSTONE brown / grey / rust with calcareous deposits		6									
		7									
		8									
		9									
CS		10	37	9000+	16.0	117.1				5000 psf	3.3%
		11									
		12									
		13									
		14									
SS		15	50	5500	20.1						
		16									
		17									
		18									
		19									
CS		20	38	9000+	28.2	94.2					
		21									
		22									
		23									
		24									
SILTSTONE / SANDSTONE brown / grey / rust, poorly cemented		25	50/7.5*	--	21.1						
BOTTOM OF BORING DEPTH 25.5'											

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PROJECT NO: 1192008		LOG OF BORING B-6 (PIEZOMETER)				DATE: JANUARY 2019					
RIG TYPE: CME55		SHEET 1 OF 1				WATER DEPTH					
FOREMAN: DG		START DATE		1/28/2019		WHILE DRILLING		14'			
AUGER TYPE: 4" CFA		FINISH DATE		1/28/2019		AFTER DRILLING		N/A			
SPT HAMMER: AUTOMATIC		SURFACE ELEV		N/A		2/4/2019		14'			
SOIL DESCRIPTION	TYPE	D (FEET)	N (BLOWS/FT)	QU (PSF)	MC (%)	DD (PCF)	A-LIMITS		-200 (%)	SWELL	
							LL	PI		PRESSURE	% @ 500 PSF
CLAYEY SAND (SC) / SANDY LEAN CLAY (CL) brown / rust medium dense / very stiff with calcareous deposits		1									
		2									
	CS	3	23	9000+	10.8	114.2				2600 psf	4.0%
		4									
	SS	5	21	9000+	8.5						
CLAYSTONE brown / grey / rust highly weathered with calcareous deposits		6									
		7									
		8									
	CS	10	50	9000+	8.5	111.4					
		11									
SILTSTONE / SANDSTONE brown / rust poorly cemented		12									
		13									
		14									
	SS	15	50/13"	--	31.3						
		16									
BOTTOM OF BORING DEPTH 20.0'		17									
		18									
		19									
	CS	20	50/6"	--	29.2	90.5					
		21									
	22										
	23										
	24										
	25										

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COBBLESTONE DEVELOPMENT
GREELEY, COLORADO

PROJECT NO: 1192008		LOG OF BORING B-7 (PIEZOMETER)				DATE: JANUARY 2019					
RIG TYPE: CME55		SHEET 1 OF 1				WATER DEPTH					
FOREMAN: DG		START DATE	1/28/2019	WHILE DRILLING	13'						
AUGER TYPE: 4" CFA		FINISH DATE	1/28/2019	AFTER DRILLING	N/A						
SPT HAMMER: AUTOMATIC		SURFACE ELEV	N/A	2/4/2019	10.4'						
SOIL DESCRIPTION	TYPE	D	N	QU	MC	DD	A-LIMITS		-200	SWELL	
		(FEET)	(BLOWS/FT)	(PSF)	(%)	(PCF)	LL	PI	(%)	PRESSURE	% @ 500 PSF
SPARSE VEGETATION		1									
CLAYEY SAND (SC) brown / rust loose to medium dense		2									
		3									
		4									
	CS	5	6	4500	18.3	100.8				<500 psf	None
		6									
		7									
		8									
		9									
	SS	10	10	3500	19.8						
		11									
		12									
CLAYSTONE brown / grey / rust moderately hard		13									
		14									
	CS	15	50/11"	2000	24.5	102.6					
		16									
		17									
		18									
		19									
SILTSTONE / SANDSTONE brown / grey / rust poorly cemented	SS	20	50	3000	23.9						
		21									
		22									
		23									
		24									
	CS	25	50/6"	5000	21.0	105.4					
BOTTOM OF BORING DEPTH 25.0'											

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PROJECT NO: 1192008		LOG OF BORING B-11 (PIEZOMETER)				DATE: JANUARY 2019					
RIG TYPE: CME55		SHEET 1 OF 1				WATER DEPTH					
FOREMAN: DG		START DATE		1/28/2019		WHILE DRILLING		6'			
AUGER TYPE: 4" CFA		FINISH DATE		1/28/2019		AFTER DRILLING		N/A			
SPT HAMMER: AUTOMATIC		SURFACE ELEV		N/A		2/4/2019		8.4'			
SOIL DESCRIPTION	TYPE	D (FEET)	N (BLOWS/FT)	QU (PSF)	MC (%)	DD (PCF)	A-LIMITS		-200 (%)	SWELL	
							LL	PI		PRESSURE	% @ 500 PSF
SANDY LEAN CLAY (CL) brown medium stiff		1									
		2									
		3									
		4									
	CS	5	6	2000	20.4	97.2				<500 psf	None
SILTY SAND / CLAYEY SAND (SM/SC) brown loose		6									
		7									
		8									
		9									
	SS	10	4	-	25.2						
		11									
		12									
		13									
		14									
	CS	15	9	-	19.3	109.9					
		16									
		17									
		18									
		19									
	SS	20	9	1000	21.1						
		21									
		22									
		23									
		24									
	SS	25	9	500	18.2						
with trace gravel											
BOTTOM OF BORING DEPTH 25.5'											