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Page 1 of

Boring ID: RC- 1				
Monitoring Well ID:				
Project Number:	Project Nar	ne:		
Client:				
Site:				
Borehole Location (Township, Range, Section):				
Logged By: RCJ				
Reviewed By:		Review Date:		
Drilling Contractor: Eagle Drilling				
Drill Rig Type/Method: track-mounted core drill				
Sampler Type: triple-bare NQ whe-line core sampler				
Borehole Diameter (inches): 2.5" (1.8-inch diameter)		to:	feet bgs	
Overdrilled Diameter (inches): ५¹'	to:		feet bgs	
Drill Start Date: 6914 Drill		Drill Start Time: 0700		
Drill Finish Date: Drill		Drill Finish Time:		
Total Borehole Depth (feet bgs):				
Soil Boring Backfill Date:		Soil Boring Backfill Time:		
Ground Surface Reference Elevation (feet msl):				
Depth to 1st Saturated Zone (feet bgs):		Date:	Time:	
Depth to Other Water-Bearing Zones (feet bgs):				
Depth to Water After Drilling (feet bgs):				
Well Completion Date:		Well Completion Time:		
Screen Interval (feet bgs):		Total Well Depth (feet bgs):		
Well Diameter (inches):		Well Casing Material:		
Static Water Level After Well Installation (feet bgs):				

BOREHOLE LOCATION MAP	† :	NOTES/REMARKS
Mine Road SS-16 RC-1	2	

BOREHOLE LOG Project Location: DATE: LOGGED BY: BORING ID: RC-1 Page of Recovered/Driven (in./in. **USCS Type/Designation** PID Reading (ppm) Chemical Analysis Blow Counts/6 in. Physical Analysis Depth (feet bgs) Sample Interval % Coarse Sano Soil Description % Fine Sand % Silt/Clay % Gravel Driller insorted hollow-stem auger section for first 5.
Bentonite chips were used to seal bormy. 0700 Eagle
began drilling RC-1. Eagle used bentonite growt to
re-seal and used pump to recycle water. Lecovery weakly-convented gravelly a lluvivor (wheniclast) (5.5.7)
Lt. gray mothed, Quartz Monzon to, fine to medium crystallized,
540104 motes, humblend; biotile, fractived, (5.5-9) (which continu 0330 Evidence of cave-in from top. Quartz monzanite w hematite staning along fractives, lage blocky facture (9+12')

0 0905 10 Fractured materials presenting drill bit from advancing. Driller tripped out of borng to clear bit. Limited woodation and geen coloration mother Quests Monzonite, from to medium pomer 1025 No recovery (14'-18.5' 15 1130 No recovery (18,5-24) Medium to cookse-disting count observed in marp.

DATE:

Project Location:

LOGGED BY: BORING ID: MA Page of **USCS Type/Designation** Well Construction Info PID Reading (ppm) Chemical Analysis Physical Analysis Blow Counts/6 in. Depth (feet bgs) Sample Interval Soil Description % Fine Sand % Silt/Clay % Gravel Medim to coarse-grained Sound observed in Wash. No recovery (241-29.51) 1512 Coarde - grained sand observed in wesh water. recover 30 Coarse-grained sand observed in wosh water. No revovey (29.5-34.5' 35

Boring ID: RC-1 CONTINUATION FROM U-9			
Monitoring Well ID:			
Project Number: 10353259.0 2	Project Name: 1500 LISSE CIN BYPAS		
Client: いろって			
Site: BOULDER CIN BYPASS			
Borehole Location (Township, Range, Section):			
Logged By:			
Reviewed By:	Review Date:		
Drilling Contractor:			
Drill Rig Type/Method:			
Sampler Type:			
Borehole Diameter (inches):	to: feet bgs		
Overdrilled Diameter (inches):	to: feet bgs		
Drill Start Date: 49 Drill Start Time:			
Drill Finish Date: Drill Finish Time:			
Total Borehole Depth (feet bgs):			
Soil Boring Backfill Date: Soil Boring Backfill Time:			
Ground Surface Reference Elevation (feet msl):			
Depth to 1st Saturated Zone (feet bgs):	Date: Time:		
Depth to Other Water-Bearing Zones (feet bgs):			
Depth to Water After Drilling (feet bgs):			
Well Completion Date:	Well Completion Time:	Well Completion Time:	
Screen Interval (feet bgs):	Total Well Depth (feet bgs):	Total Well Depth (feet bgs):	
Well Diameter (inches):	Well Casing Material:	Well Casing Material:	
Static Water Level After Well Installation (feet bgs):			
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BOREHOLE LOCATION MAP	A .	NOTES/REMARKS
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BOREHOLE LOG

DATE: 6/10/14

Project Location: Bours SICIN BYPMS DATE: LOGGED BY: Page of **BORING ID:** RC-1 Recovered/Driven (in./in.) **USCS Type/Designation** Well Construction Info Physical Analysis Chemical Analysis PID Reading (ppm) Depth (feet bgs) % Coarse Sand Sample Interval Sampler Type Soil Description % Fine Sand % Silt/Clay % Gravel 30 31 3 2 33 LIGHT TEIVE-GREEN NOWANIC PRIMAUTIC, RIPLING FRACTURED, SALICIFIED TRIBULOXIDE & MANUA NESE 35 STAINING ON SURPACES. FOR MAPICS

Boring ID: BC -BA-001A			
Monitoring Well ID:		=4	
Project Number: 10353259.02 Project Name: BOULDER CITY BUPASS			
Client: NDOT		•	
Site: BOUDER CIT BYPASS			
Borehole Location (Township, Range, Section):	2		
Logged By: Kyle, STEVE, MARK			
Reviewed By:	Review Date:		
Drilling Contractor: BAGLE DRILLING			
Drill Rig Type/Method: ROCK COILE			
Sampler Type: CONS DML (NO			
Borehole Diameter (inches): 3"	to: 1 6	feet bgs	
Overdrilled Diameter (inches):	to:	feet bgs	
Drill Start Date: 1200			
Drill Finish Date: 나시내가	Drill Finish Time: 1140	ime: 1140	
Total Borehole Depth (feet bgs):		N.	
Soil Boring Backfill Date:	Soil Boring Backfill Time:	Boring Backfill Time:	
Ground Surface Reference Elevation (feet msl):			
Depth to 1st Saturated Zone (feet bgs):	Date:	Time:	
Depth to Other Water-Bearing Zones (feet bgs):			
Depth to Water After Drilling (feet bgs):			
Well Completion Date:	Well Completion	Well Completion Time:	
Screen Interval (feet bgs):	Total Well Depth	Total Well Depth (feet bgs):	
Well Diameter (inches):	Well Casing Mate	Well Casing Material:	
Static Water Level After Well Installation (feet bgs):			

ı	BOREHOLE LOCATION MAP	NOTES/REMARKS
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BOREHOLE LOG

Project Location: NOT - BULLD SE CON BYPASS

DATE: 6/11/14 LOGGED BY:

sis sysis ppm) signation ad d d d d	LOGGED BY:						
BED ROCK MATERIAL ICT. CRESS, SAIGHTLY PINK, FINE CRAINED CS % MORICS (BISTITE)	<u> </u>	of	느				
BED ROCK MATERIAL LT. CREW, SLIGHTLY PINK, FINE CRAINED (5% MERICS (BIETITE)	Sampler Type	% Medium Sand % Fine Sand	% Situcian				
BED ROCK MATERIAL LT. CREW, SWAHTLY PINK, FINE CRAINED (5% MERICS (BISTITE)							
BED ROCK MATERIAL LT. CREW, SWARTLY PINK, FINE CIRAINED (5% MERICS (BIETITE)			<u> </u>				
BED ROCK MATERIAL LT. CREW, SWARTLY PINK, FINE CIRAINED (5% MERICS (BIETITE)							
LT CREY, SLIGHTLY PINK, FINE GRAINED 45% MARICS (BIBTITE)							
LT CREY, SLIGHTLY PINK, FINE GRAINED 45% MARICS (BIBTITE)							
LT CREY, SLIGHTLY PINK, FINE GRAINED 45% MARICS (BIBTITE)							

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Page 1 of

Boring ID: RC - 4				
Monitoring Well ID: RC-				
Project Number: 10353259,02 Project Name: BOULDIN CIT BYPASS			A BYPASS	
Client: NDOT				
Site: BOULDSE CIN BYPASS				
Borehole Location (Township, Range, Section):				
Logged By: M. 570 cpc KF				
Reviewed By:		Review Date:		
Drilling Contractor: EAGLE				
Drill Rig Type/Method:				
Sampler Type:				
Borehole Diameter (inches):		to:	feet bgs	
Overdrilled Diameter (inches):		to:	feet bgs	
Drill Start Date: Drill Start		ime:		
Drill Finish Date: Drill Finish		Time:		
Total Borehole Depth (feet bgs):				
Soil Boring Backfill Date: Soil Boring		Backfill Time:		
Ground Surface Reference Elevation (feet msl):				
Depth to 1st Saturated Zone (feet bgs):		Date:	Time:	
Depth to Other Water-Bearing Zones (feet bgs):				
Depth to Water After Drilling (feet bgs):				
Well Completion Date:		Well Completion Time:		
Screen Interval (feet bgs):		Total Weil Depth (feet bgs):		
Well Diameter (inches):		Well Casing Material:		
Static Water Level After Well Installation (feet bgs):				
BOREHOLE LOCATION MAP	†	NOTES/REMARKS		

BOREHOLE LOG

DATE: 6/12/14 LOGGED BY: Project Location: NOT- BOULDSE CITY BYPASS **BORING ID:** RC-4 Page Recovered/Driven (in./in.) **USCS Type/Designation** Well Construction Info Physical Analysis Chemical Analysis PID Reading (ppm) Blow Counts/6 in. Depth (feet bgs) Sample Interval % Coarse Sand Sampler Type Soil Description % Fine Sand % Silt/Clay 2 3 ERACTURED ROCK, LIGHT TAN SEDIMENTS WIN FRACTURES WAS GREATTARE, YERY FRACTURES CODESE COUSTAUS MOTTLES W RED/ DEDNIGE DYIDE