APPENDIX 8

SOILS SOUTHWEST, INC.
SOILS, MATERIALS AND ENVIRONMENTAL ENGINEERING CONSULTANTS
897 VIA LATA, SUITE N • COLTON, CA 92324 • (909) 370-0474 • (909) 370-0481 • FAX (909) 370-3156

Report of Water Infiltration Rate

Proposed Stormwater Disposal System Design
Planned Prairie View Multi-Family Development
NEC Dale Street and Wilson Avenue
Perris, California
APN: 311502001

Project No. 20003-BMP

February 10, 2020

Prepared for:

ACAA Limited Partnership
422 Wier Road
San Bernardino, CA 92408

soilssouthwest@aol.com
Established 1984

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February 10, 2020 Project No. 20003-BMP

ACAA Limited Partnership
422 Wier Road
San Bernardino, CA 92408

Attention: Mr. Ed Haddad

Subject: Report of Water Infiltration Rate
Proposed Stormwater Disposal System Design
Planned Prairie View Multi-Family Development
NEC Dale Street and Wilson Avenue
Perris, California
APN: 311502001

Reference: 1. Site Location Map supplied by Goodman & Associates, Inc.
2. Riverside County Low Impact Development BMP Design Handbook

Gentlemen:

Presented herewith are the results of soils infiltration testing performed for the planned storm water disposal design proposed for the project site described.

Six (6) infiltration testing were performed about 5 feet below the current grades using the standardized "falling-head" test converted to infiltration rate using the Porchet Method as per the guidelines in accordance with the Table 1, Infiltration Basin Option 2 of Appendix A of the Riverside County-Low Impact Development (LID) BMP design Handbook. Approximate test locations are shown on Plate 1, attached

The soils encountered consist in general upper fine silty sands with scattered pebbles and rock fragments overlying slightly clayey silty sands to the maximum 5 feet depth explored. No free groundwater was encountered. Descriptions of the soils encountered are provided in the Log of Borings, P-1 to P-6, attached.

Based on the field infiltration testing completed, it is our opinion that for the infiltration system design proposed at 5 feet below grade, the average observed soils infiltration rate is 0.41 in/hr. For design, it is suggested that, use of a factor of safety of 2.0 to 3.0, or an appropriate Factor of Safety as selected by the design engineer should be considered to the observed field percolation rate described. Lower infiltration rate may be anticipated over prolong use of the installed system due to continual deposits of fines and lack of adequate maintenance.

We offer no other warranty, express or implied.

Respectfully submitted,
Soils Southwest, Inc.
Moloy Gupta, RCE 31708

John Flippin
Project Coordinator

soilssouthwest@aol.com

1.0 PROPOSED DEVELOPMENT

Based on the preliminary project information supplied, it is understood that in conjunction with the planned new apartment complex buildings and parking, at least one (1) or more infiltration strom water systems will be installed at the approximate test locations as described. Based on existing site topography, minor to moderate site preparations and grading may be anticipated with the development planned.

2.0 EXCAVATED TEST PIT:

For BMP soil infiltration testing at the location as shown on the accompanying Plate 1, six (6) test borings (P-1 to P-6) were made using a 8-inch diameter hollow-stem auger drilling rig, advanced to 5 feet below the current grade. Water used during infiltration percolation testing was supplied by using a water truck along with portable water tank and 5-gallon water jugs.

3.0 METHODOLOGY AND TEST PROCEDURES:

EQUIPMENT SET-UP (POST EXCAVATION) PROCEDURES

Following test boring completion, each of the test holes were fitted with perforated pvc pipes backfilled with 2-inch thick crushed rock at the bottom to minimize potentials for scouring and caving. A 5-gallon bucket of water was used to presoak the test holes the day prior to testing. For testing, each test holes were initially backfilled using water supplied by water tank.

Prior to actual testing, in order to determine test intervals, as per the Section 2.3 for deep percolation testing of the referenced handbook guideline, in two consecutive readings, since 6 inches or more of water did not seep away in less than 25 minutes, subsequent six percolation testing were performed at 30-minute time intervals for 3.5 to 4.5 hours for P-1 to P-5 where the change in water level was consistent. However, for P-6, since more than 6 inches seeped away in two consecutive 25-minute intervals, subsequent percolation testing were performed at 10-minute time intervals for over 1.5 hours at which point the observed rate became constant. Initial water placement was about 35 to 36 inches below existing grade surface (inlet depth).

The final 10-minute and 30-minute recorded percolation test rates were converted into an Infiltration Rate (I_t) for inches per hour using the "Porchet Method" equation as described in the Reference 2, Riverside County Low Impact Development BMP Design Handbook.

4.0 INFILTRATION TEST RESULT

Based on the soils infiltration testing completed at the test locations and at the test depth as described, the average observed soil percolation rate is 0.41 inches/hour for the test locations P-1 to P-6 respectively.

Calculations to convert the percolation test rate to infiltration test rates in accordance with Section 2.3 of the County Handbook are presented in Table I and II below.

TABLE I

Infiltration Test Summary

Observed Infiltration Rate for Design

Test Date Test No. (2-6-20)	Approx Onsite Location	Test Depth (ft.) Below Grade	Observed Rate(inch/hour.) based on Porchet Method Calculations (Inner Ring)
P-1	Southeast	5.0	0.23
P-2	East/Northeast	5.0	0.49
P-3	North/Northeast	5.0	0.14
P-4	Center South	5.0	0.04
P-5	Center North	5.0	0.08
P-6	Southwest	5.0	1.47

Average observed infiltration rate: 0.41 in/hr.

TABLE II
Conversion Table (Porchet Method)

Test No.	*Depth Test Hole (inches)*	*Time Interval*	*Initial Depth (inch)*	*Final Depth (inch)*	*Initial Water Height (inch)*	*Final Water Height (inch)*	*Change Height/ Time*	*Average Head Height/Time*
	D_T	$\Delta_{T\,(Min)}$	$D_{O\,(in)}$	$D_{f\,(In)}$	$H_o=D_t-D_o$	$H_f=D_t-D_f$	$\Delta H= H_f-H_O$	$H_{avg} = (H_o+H_f)/2$
P-1	59.5	30	35.5	37.00	24	22.5	1.5	23.25
P-2	60.0	30	36.0	39.00	24	21.0	3.0	22.50
P-3	61.0	30	35.0	36.00	26	25	1.0	25.50
P-4	61.5	30	37.5	37.75	24	23.75	0.25	23.875
P-5	59	30	34.5	35.00	24.5	24	0.50	24.50
P-6	58.5	10	34.5	37.50	24	21	3.0	22.5

	Infiltration Rate (It)=ΔH60r/Δt(r+2Havg)		
	A	B	C
Test No.	ΔH60r	Δt(r+2Havg)	A/B=in/hr
P-1	360	1515	0.23
P-2	720	1470	0.49
P-3	240	1650	0.14
P-4	60	1552.50	0.04
P-5	120	1575	0.08
P-6	720	490	1.47

For design, it is suggested that, use of a factor of safety of 2.0 to 3.0, or an appropriate Factor of Safety as selected by the design engineer should be considered to the observed field percolation rate described.

Use of safety factor should be considered to account for long-term saturation, inconsistencies in subsoil conditions, along with the potential for silting of percolating soils.

The infiltration rate described is based on the in-situ testing completed at the locations as suggested by the project civil engineer. In event the final chamber location and depth vary considerably from those as described herein, supplemental soils infiltration testing may be warranted,

It should be noted that over prolong use and lack of maintenance the detention/infiltration basins or deep chambers constructed based on the suggested design rate may experience much lower infiltration rate due to the accumulation of silts, fines, oils and others. Regular maintenance of the chambers in form of removal of debris, oil and fines are strongly recommended. A maintenance record of such is suggested for future use, if any.

Suggested Site Requirements for Stormwater BMP installation

The invert of stormwater infiltration shall be at least 10 feet above the groundwater elevation. Stormwater infiltration BMPs shall not be placed on steep slopes and shall not create the condition or potential for slopes instability.

Stormwater infiltration shall not increase the potential for static or seismic settlement of structures on or its adjacent.

Stormwater infiltration shall not place an increased surcharge on structures or foundations on or its adjacent. The pore-water pressure shall not be increased on soil retaining structures on or adjacent to the site.

The invert of stormwater infiltration shall be set back at least 15 feet, and outside a 1:1 plan drawn up from the bottom of adjacent foundations.

Stormwater infiltration shall not be located near utility lines where the introduction of stormwater could cause damage to utilities or settlement of trench backfill.

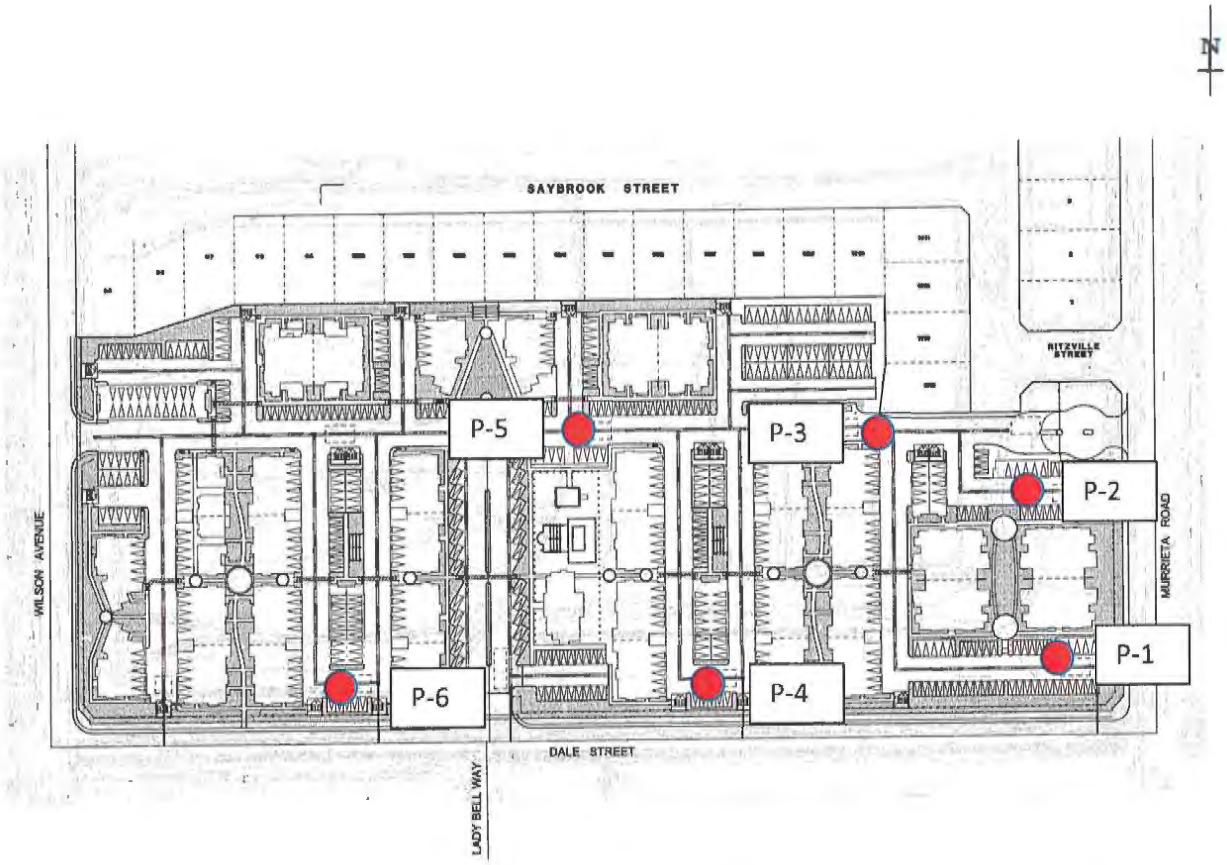
Stormwater infiltration is not allowed within 100 feet of any potable groundwater production well.

Once installed, regular maintenance of the detention basin is recommended.

LOT PLAN AND TEST LOCATIONS

Proposed Infiltration System Design
Planned Multi-family Development
NEC Dale Street and Wilson Avenue
Perris, California
APN: 311502001

(Schematic, not to scale)



Legend: P-1 Approximate Location of BMP Testing

Plate 1

EXCAVATION TEST BORING LOGS
and
PERCOLATION TEST DATA

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
(909) 370-0474 Fax (909) 370-3156

LOG OF BORING P-1

Project: Prairie View		**Job No.:** 20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:** February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM-ML			seasonal grass and weeds
								SAND - light yellowish brown, silty, fine, scattered pebbles, dry
					SM-SC			- color change to light brown, silty, slightly clayey, occasional pebble and scattered rock fragments, damp
							5	
					SM			- color change to yellowish brown, silty, fine, dry
								- End of infiltratoin test boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							10	
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
(909) 370-0474 Fax (909) 370-3156

LOG OF BORING P-2

Project: Prairie View		**Job No.:**	20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:**	February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM			seasonal grass and weeds
								SAND - light yellowish brown, silty, fine, dry
								- color change to light brown, silty, traces of clay, fine, scattered pebble and rock fragments, damp
							5	
								- End of infiltration test boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							10	
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
(909) 370-0474 Fax (909) 370-3156

LOG OF BORING P-3

Project: Prairie View		**Job No.:** 20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:** February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM			seasonal grass and weeds
								SAND - light yellowish brown, silty, fine, dry
								- color change to light brown, silty, fine
							5	
								- End of test infiltration boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							10	
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
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LOG OF BORING P-4

Project: Prairie View		**Job No.:** 20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:** February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM-ML			seasonal grass and weeds along with bare soils
								SAND - light yellowish brown, silty, fine, occasional pebble and scattered, rock fragments, dry
					SM-SC			- color change to light brown, silty, slightly clayey, fine, pebbles, scattered rock fragments, damp
							5	- End of test infiltration boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							10	
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
(909) 370-0474 Fax (909) 370-3156

LOG OF BORING P-5

Project: Prairie View		**Job No.:** 20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:** February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM-ML			seasonal grass and weeds along with bare soils
								SAND - light yellowish brown, silty, fine, dry
					SM		5	- color change to grayish light brown, silty fine to medium, scattered pebble
								- End of test infiltration boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							10	
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

Soils Southwest, Inc.
897 Via Lata, Suite N
Colton, CA 92324
(909) 370-0474 Fax (909) 370-3156

LOG OF BORING P-6

Project: Prairie View		**Job No.:** 20003-BMP
Logged By: John F.	**Boring Diam.:** 8" HSA	**Date:** February 5,2020

Standard Penetration (Blows per Ft.)	Sample Type	Water Content in %	Dry Density in PCF	Percent Compaction	Unified Classification System	Graphic	Depth in Feet	Description and Remarks
					SM-SC			seasonal grass and weeds
								SAND - light yellowish brown to light gray brown, silty, slightly clayey,fine, occasional pebbles, damp
					SM			- color change to light yellowish brown, silty fine to medium, scattered pebble and rock fragments, dry
					SM-SC		5	- color change to grayish light brown, silty slightly clayey, fine, pebbles, rock fragments
					SM			- silty, fine to medium with pebbles and rock fragments, dry to damp
							10	- End of test infiltration boring @ 5.0 ft. - no bedrock - no groundwater - pvc perforated pipe installed with gravel at the bottom
							15	
							20	
							25	
							30	

Groundwater: n/a Approx. Depth of Bedrock: n/a Datum: n/a Elevation: n/a	**Site Location** Proposed Multi-Family Apartment Complex NEC Dale Street & Wilson Avenue Perris, California	**Plate #**

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Poorly graded silty fine sand
	Poorly graded clayey silty sand
	Silty sand

Notes:

1. Exploratory borings were drilled on February 5,2020 using a 4-inch diameter continuous flight power auger.

2. No free water was encountered at the time of drilling or when re-checked the following day.

3. Boring locations were taped from existing features and elevations extrapolated from the final design schematic plan.

4. These logs are subject to the limitations, conclusions, and recommendations in this report.

5. Results of tests conducted on samples recovered are reported on the logs.

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-1	Tested By:	M. C.		
Depth of Test Hole, D_T:	59.5	USCS Soil Classification:	SM-SC		

Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8" INCHES	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	9:36	10:01	25	35.5	37.0	1.5	N
2							

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	10:03	10:33	30	35.5	37.0	1.5	
2	10:40	11:10	30	35.5	37.0	1.5	
3	11:14	11:44	30	35.5	37.0	1.5	
4	11:45	12:15	30	35.5	37.0	1.5	
5	12:16	12:46	30	35.5	37.0	1.5	
6	12:50	1:20	30	35.5	37.0	1.5	
7	1:23	1:53	30	35.5	37.0	1.5	
8	1:55	2:25	30	35.5	37.0	1.5	
9	2:30	3:00	30	35.5	37.0	1.5	
10	3:03	3:33	30	35.5	37.0	1.5	
11	3:36	4:06	30	35.5	37.0	1.5	
12	4:10	4:40	30	35.5	37.0	1.5	
13							
14							
15							

COMMENTS:

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-2	Tested By:	J.F. & Alex		
Depth of Test Hole, D_T:	60 inches	USCS Soil Classification:	SM		

Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8 inches	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	9:07	9:32	25	36	40.0	4	N
2							

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	9:38	10:08	30	36	40	4	
2	10:10	10:40	30	36	40	4	
3	10:46	11:16	30	36	39	3	
4	11:19	11:49	30	36	39	3	
5	11:50	12:20	30	36	39	3	
6	12:22	12:52	30	36	39	3	
7	12:54	1:24	30	36	39	3	
8	1:28	1:58	30	36	39	3	
9	1:59	2:29	30	36	39	3	
10	2:32	3:02	30	36	39	3	
11	3:05	3:35	30	36	39	3	
12	3:37	4:07	30	36	39	3	
13							
14							
15							

COMMENTS:

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-3	Tested By:	ALEX		
Depth of Test Hole, D_T:	61.0 INCH	USCS Soil Classification:	SM		
Test Hole Dimensions (inches)				Length	Width
Diameter (if round)=	8 INCHES	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	9:12	9:37	25	37	38.25	1.25	N
2							

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	9:47	10:17	30	37	38.75	1.75	
2	10:20	10:50	30	37	38.25	1.25	
3	10:54	11:24	30	37	38.0	1.00	
4	11:30	12:00	30	35	38.0	1.00	
5	12:01	12:31	30	35	38.0	1.00	
6	12:32	1:02	30	35	38.0	1.00	
7	1:03	1:33	30	35	38.0	1.00	
8	1:34	2:04	30	35	38.0	1.00	
9	2:05	2:35	30	35	38.0	1.00	
10	2:37	3:07	30	35	38.0	1.00	
11	3:10	3:40	30	35	38.0	1.00	
12	3:42	4:12	30	35	38.0	1.00	
13							
14							
15							

COMMENTS:

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-4	Tested By:	M.C.		
Depth of Test Hole, D_T:	61.5 IN	USCS Soil Classification:	SM-SC		

Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8 INCHES	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	8:53	9:28	25	37.5	38.0	0.5	
2							

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	9:28	9:58	30	37.5	38.0	0.50	
2	10:00	10:30	30	37.5	37.75	0.25	
3	10:32	11:02	30	37.5	37.75	0.25	
4	11:03	11:33	30	37.5	37.75	0.25	
5	11:36	12:06	30	37.5	37.75	0.25	
6	12:07	12:37	30	37.5	37.75	0.25	
7	12:40	1:10	30	37.5	37.75	0.25	
8	1:12	1:32	30	37.5	37.75	0.25	
9	1:34	2:04	30	37.5	37.75	0.25	
10	2:06	2:36	30	37.5	37.75	0.25	
11	2:40	3:10	30	37.5	37.75	0.25	
12	3:12	3:42	30	37.5	37.75	0.25	
13			30				
14			30				
15			30				

COMMENTS:

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-5	Tested By:	JF		
Depth of Test Hole, D_T:	59 INCH	USCS Soil Classification:	SM		
Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8 INCH	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	9:27	9:52	25	34.75	35.0	0.25	N
2							

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	9:55	10:25	30	35	35.75	0.75	
2	10:29	10:59	30	35	35.75	0.75	
3	10:59	11:29	30	35	35.50	0.50	
4	11:29	12:09	30	34.75	35.25	0.50	
5	12:09	12:39	30	35.0	35.50	0.50	
6	12:40	1:10	30	35.0	35.50	0.50	
7	1:11	1:41	30	35.0	35.50	0.50	
8	1:42	2:12	30	34.5	35.50	0.50	
9	2:12	2:42	30	35.0	35.50	0.50	
10	2:42	3:12	30	35.0	35.50	0.50	
11	3:12	3:42	30	35.0	35.50	0.50	
12	3:42	4:02	30	35.0	35.50	0.50	
13							
14							
15							

COMMENTS:

Percolation Test Data Sheet

Project:	PRAIRIE VIEW	Project No:	20003-BMP	Date:	2-6-20
Test Hole No:	P-6	Tested By:	M.C.		
Depth of Test Hole, D_T:	58.5 IN	USCS Soil Classification:	SM		
Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8 INCH	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	8:48	9:13	25	34.5	51.5	17	Y
2	9:20	9:45	25	34.5	49.5	15	Y

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	9:54	10:04	10	34.5	41.5	7.0	
2	10:08	10:18	10	34.5	40.5	6.0	
3	10:20	10:30	10	34.5	40.0	5.5	
4	10:35	10:45	10	34.5	38.5	4.0	
5	10:47	10:57	10	34.5	37.5	3.0	
6	10:59	11:09	10	34.5	37.5	3.0	
7	11:11	11:21	10	34.5	37.5	3.0	
8	11:24	11:34	10	34.5	37.5	3.0	
9	11:37	11:47	10	34.5	37.5	3.0	
10	11:49	11:59	10	34.5	37.5	3.0	
11							
12							
13							
14							
15							

COMMENTS: