JLM LIVING EAST
SURFACE WATER MANAGEMENT REPORT

SUBMITTAL DATE:
APRIL 2025

PREPARED FOR:

JLM LIVING, LLC.
3839 BEE CAVES RD., STE.205
AUSTIN, TX 78746
&
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
2301 MCGREGOR BLVD., FORT MYERS, FL 33901

PREPARED BY:

RDACONSULTING
ENGINEERS

Oscar Lugo
Digitally signed by Oscar Lugo
Date: 2025.04.15 10:57:47 -04'00'

OSCAR LUGO, PE #88719
COA#31149
RDA CONSULTING ENGINEERS
791 10TH ST S, SUITE 302, NAPLES, FL 34102

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY RICHARD B. DUBOIS ON THE DATE ADJACENT TO THE SEAL.PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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1.0 SITE CONDITIONS AND PROPOSED FACILITIES

1.1 Purpose

The purpose of this application is to request an Environmental Resource Permit for the construction and operation of the 32.99 acre surface water management system (SWMS) serving the proposed residential development known as JML Living East. The project area for the overall site is 37.20 acres, 3.68 acres, which will be preserve area outside of the SWMS basin.

The total permit area for the project is 37.20 acres. The proposed SWMS for the development will be 32.99 acre which will include residential development, preserve area, dry retention, and wet detention areas. As part of this application, 0.25 acres of additional compensating water quality is provided within the JLM Living SWMS for off-site impervious areas due to the turn lane improvements within Immokalee Rd.

A separate application to existing Immokalee Road Right of Way under Permit# 11-01737-P will be submitted to the SFWMD district as the part of the proposed turn lane improvements on the ROW.

1.2 Property Location

The proposed project is in Collier County, Florida, within Section 25, Township 48 South, Range 26 East. The project site is located on the south side of Immokalee Rd. west of Richard St in Naples, FL 34120. The project site is bounded by LaMorada/Naples Classical Academy to the west, Immokalee Rd to the north, Ventana Pointe to the east, and LaMorada to the south.

1.3 Existing Conditions

The property is currently largely undeveloped, with minimal single-family development to the south. No known permits have been obtained for the project area. According to the environmental data report, the entire project area provides very poor-quality habitat for vertebrates. The wetlands on-site have been impacted by exotic vegetation, with Brazilian pepper being the dominant species. To address this, the applicant is proposing both on-site and off-site mitigation for the wetland impacts. The project aims to preserve approximately 9.97 acres of preserve area, please refer to the wetland impact exhibit within the submitted environmental data report.

Historically, the site sheet flows toward the south, into the existing drainage swales along Sundance St. and Richards Rd. The project drains into the Cypress Canal Basin, as indicated by the Collier County Stormwater Basins Map. The project area is surrounded by developed properties with perimeter berms, and no off-site flows cross the project site.

1.4 Proposed Facilities

The proposed development will consist of detach and attached rental units, an amenity center and a fitness center (to be used by residents), open space areas, parking areas, and drive aisles within the site. The proposed 32.99-acre Surface Water Management System (SWMS) will consist of dry retention areas, wet detention lakes, and preserve area. Stormwater will be conveyed to dry retention areas within the development via storm inlets and pipes. The dry retention and wet detention lakes will provide water quality and nutrient loading for the basin

in series. Once water quality is met, the preserve will provide additional stormwater storage to the SWMS. Table 1 below shows the SWMS total land use.

Table 1 - Total Project and SWMS Land Use Table

Project Land Use

Total Building	**7.65 ac.**
Total Pavement/Concrete	**6.84 ac.**
Total Lake Area	**1.34 ac.**
Total Dry Retention Area	**0.57 ac.**
Total Preserve Area	**6.29 ac.**
Total Open Space	**10.30 ac.**
Total SWMS Basin	**32.99 ac.**
Areas Outside of SWMS Basin	
Preserve/Wetland Areas	0.00 ac.
~~Flood Plain Compensation Area~~	~~0.00 ac.~~
Total Project Area	**32.99 ac.**
Off-site Access Improvements (Providing WQ Compensation Only)	*0.25 ac.*

Update area

The SWMS will discharge stormwater off-site from Lake 2 via a control structure (CS-L2), located at the southeast corner of lake. The outfall point will be within the Sundance Street northside swale, which will be conveyed east toward Richard Rd., eventually discharging into the Cypress Canal Basin. Preserve areas 1 and 3 will continue to be hydrologically connected to the existing preserve/wetland area which extends into Ventana Pointe. Existing wetland connectivity will be maintained.

All design calculations and plans for this application reference NAVD-88 datum.

On-site Preserve Areas

The project area has three onsite preserve areas. The preserve areas are interconnected with the preserve area in Ventana Pointe. The preserve areas for the site has two outflows, the first towards the east onto Richards Road, via the interconnection from Ventana Pointe. The second outflow onto Sundance Street towards the south. All preserve areas within the area are connected, in the pre-condition. In the post-condition the areas will remain interconnected except for preserve area 2 which will be within the proposed SWMS and will be used for additional site storage once the water quality volume is met within the system. No impact on the hydrology of the existing preserve areas 1 and 3 are anticipated as they will remain connected to the same outflows in the pre-condition.

Water Quality and Quantity / Outfall

Water quality for the site is achieved via the proposed dry retention and wet detention areas within the SWMS. These areas will also provide the required water quality for nutrient loading (**see Section 2.3**) prior to any storage within the onsite preserve area. Control structure CS-L1, located within lake 1 will prevent any stormwater storage within the preserve area, until water quality and nutrient loading is met.

The SWMS will also include additional compensating water quality within the Basin for additional 0.25 acres of off-site impervious area due to future turn lane improvements within Immokalee Rd.

The SWMS will also provide water attenuation for the basin prior discharging off-site via the proposed control structure. The proposed off-site control structure (CS-L2) is located in Lake 2, the site discharges into Sundance Street swale which conveys water onto Richards Street Conveyance and ultimately into the Cypress Canal Basin.

Peak Stages and Finished Floor

The proposed finished floor elevations are governed by the 100 Year Peak Storm Event since the FEMA flood zone elevation plus 1 ft. yield a lower elevation.

2.0 SURFACE WATER MANAGEMENT SYSTEM

2.1 Basis of Design and Assumptions

1) Design parameters are based on guidelines contained in the SFWMD Design Manual
2) Rainfall Distribution is based on the SFWMD 72-hour rainfall distribution and the SCS Type II Florida Modified 24-hour rainfall distribution.
3) The storm water collection system design is based on Collier County Land Development Code
4) Control elevation of 11.70 ft- NAVD is based on adjacent permitted control elevation of Ventana Pointe, Elev. = 11.20 ft- NAVD and available hydrologic gradient toward Richard Rd. from Sundance St (discharge point)
5) Elevations are based on the North American Vertical Datum of 1988 (NAVD).
6) Tailwater at the outfall based on existing condition elevation on the 30 feet Public ROW Easement along Sundance Street.
7) See Appendix B for detailed assumptions and ICPR assumptions.

Design Storms

- Minimum Parking Grade
  Return frequency = 10 – years
  Rainfall duration = 1 – days
  24-hour rainfall = 7.16 inches

- Minimum perimeter grading / road crown.
  Return frequency = 25 – years
  Rainfall duration = 3 – days
  24-hour rainfall = 11.10 inches

- Minimum finish floor elevations.
  Return frequency = 100–years
  Rainfall duration = 3 – days
  24-hour rainfall = 14.70 inches

Time of Concentration

(t_c) = 2 (Total basin area/640) $^{0.5}$

Time of concentration is based on the basin area.

SCS Curve Number

The Curve Number (CN) for the basin was obtained by calculating the available soil storage as listed in the SFWMD Basis of Review (BOR). Most of the site consists of Cypress Lake and Riviera fine sands along with urban Land complex according to the NRCS Soil Survey. The site is currently generally undeveloped (wet flatwood) with minimal single family to the south (low-density residential). The depth to the water table was calculated based on the average finished grade and storage was based on the SFWMD BOR.

Control Elevation and Discharge Rate

The proposed control elevation for the development is set at 11.70 ft, NAVD. This elevation has been determined based on the adjacent development to the east, Ventana Pointe (Permit No. 11-103858-P, Control Elevation = 11.20 ft, NAVD), and the existing elevations along Sundance Street and Richard Road, roadside swales. The 11.70 ft, NAVD control elevation is necessary to maintain hydraulic gradient along the roadside swale, to convey runoff toward the east along Sundance Street and into Richard Rd, and ultimately toward the Cypress Canal Basin.

The project discharges ultimately into the Cypress Canal Basin per Collier County Stormwater Basins, the allowable discharge rate for the site is 0.06 CFS/acre. See the Staff Report and ICPR Model Results for the project allowable and peak discharge rates. The proposed control structure CS-L2 located within Lake 2 was modeled on ICPR to confirm site is within the allowable discharge rate during the 25-year 3-day storm event. Please refer to Appendix B for the Collier County Stormwater Basin Map.

Design Tailwater

The design tailwater for the basin has been based on the existing condition elevation within the 30-foot public ROW easement along Sundance Street. The discharge point for the SWMS is located along the Sundance Street, roadside swale. The peak tailwater stage used corresponds to the top of the swale, while the base tailwater stage is defined by the bottom elevation of the swale within the easement. Please refer to proposed cross sections within the ERP Plans.

Land Use and Stage-Storage Assumptions

Land use was generally broken down into pavement, lake areas, dry retention areas, dry retention/lake banks, preserve, and open space. A perimeter berm is proposed to prevent uncontrolled discharges offsite. Building sites were not used in the storage calculations.

- Lake = Vertical Storage starting at control elevation
- Dry Retention = Vertical Storage starting at control elevation

- Pavement = Linear Storage starting at the minimum pavement storm grate elevation.
- Open Space/Preserve = Linear Storage starting minimum open space/Preserve elevation within basin.
- Lake Bank = Linear Storage starting minimum lake elevation to top of lake bank.
- Dry Retention Bank = Linear Storage starting minimum retention elevation to top of bank.

2.2 Water Quality Calculations

Water quality was calculated based on the greater of either the first inch of runoff or 2.5" times the impervious acreage and the first one-half (1/2) inch of water volume, calculations were performed based on SFWMD BOR. The SWMS includes additional compensating water quality within the SWMS for additional 0.25 acres of off-site impervious area due to the turn lane improvements within Immokalee Rd.

As the SWM system is located within the North Golden Gate (WBID #3278S) an additional 50% of water quality treatment has been provided. Dry retention and wet detention areas are used to meet the required water quality volume.

2.3 Nutrient Loading

A nutrient loading analysis was done for a net improvement in storm water discharge using BMP Trains. The proposed storm water for the Basin is routed on series to dry retention areas that will be discharge into wet detention areas prior off-site discharge. The system was modeled with dry retention and wet detention prior to off-site discharge.

As mentioned in Section 1.1, the SWMS basin is 32.99 acres, however a catchment area of 26.62 acres was analyzed for the nutrient loading calculation, with an additional 0.25 acres accounted for off-site impervious areas. Please note that the preserve area within the SWMS system does not provide water quality for the SWMS and only receives runoff once the water quality and nutrient loading volumes are met, the area was excluded from the analysis. Also, the preserve area does not change in pre and post conditions, as a result the contributing catchment area in the analysis was 26.62 acres.

The pre-condition land use for the site consists of Wet Flatwoods and Low-Density Residential, a weighted average for nitrogen and phosphorus EMC were used for the pre-development catchment analysis. Multi-family residential EMC values were used for post-development catchment analysis. EMC values were used from the BMP Trains 2020, Mass Loading Methodology Land Use Tables. Pre and post condition CN values have been based on the available data from the USGS soils survey, and the TR- 55 report for the land use category that best represents the site. Please refer to Appendix B for back up information of the CN values used for the analysis.

Below is the calculation and BMP Trains Report:

JLM Living East

Nutrient Loading Analysis | INPUT DATA

Surface Water Management System Land Use

County =	**Collier**	
Meteorological Zone =	**4**	*(From "Evaluation of Current Stormwater Design Criteria, 2007", Table 4-23)*
Annual Rainfall (in/yr) =	**53.00 in/yr**	*(From "Evaluation of Current Stormwater Design Criteria, 2007", Appendix A.3)*
Water Management Area (ac) =	**32.99 ac.**	
Total Catchment Area (ac)* =	**26.62 ac.**	

** Preserve Area is not included in the in the nutrient loading analysis.*

Existing Soils

Map Symbol & Soil Name	Hydrologic Soil Group (HSG)	% of Project Site
102: Cypress Lake fine sand - Urban land complex, 0 to 2 percent slopes	**A/D**	**51.9%**
131: Riviera fine sand, limestone substratum-Urban land complex, 0to 2 percent slopes	**B/C**	**48.1%**

HSG and percentage from Soils Information: USDA-Custom Soils Resource Report: National Cooperative Soils Survey

Pre-Development CN

Ground Cover	CN	Percent Coverage
Woods (grass combination); Poor Condition; HSG D	**86**	**100.0%**

From 210-VI-TR-55, Second Ed., June 1986); Tables 2.2 a-d

Pre-Development EMC's and Land Use

Land Use	Area (Acres)	EMC for TN	EMC for TP
Wet Flatwoods	14.11 ac.	1.213	0.021
Low-Density Residential	12.51 ac.	1.645	0.270
User Defined (Wt. Average)	**26.62 ac.**	**1.42**	**0.138**

EMC for TN and TP from BMP Trains 2020 - Mass Loading Methodology - Land Use Table

Post-Development EMC's and Land Use

Land Use	Area (Acres)	EMC for TN	EMC for TP
Multi-Family	**26.62 ac.**	**2.32**	**0.520**

EMC for TN and TP from BMP Trains 2020 - Mass Loading Methodology - Land Use Table

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Nutrient Loading Analysis | INPUT DATA

Post-Development Ground Cover

Ground Cover	CN	Hydrologic Soil Group (HSG)	
Pervious	39	A	Open Space (lawns, parks, golf courses, cemeteries, etc.): Good Condition
	61	B	
Pervious Avg.	**50**	**A/B**	
Impervious	**98**	**A/B**	Impervious Areas: Paved parking lots, roofs, driveways, etc.

CN from 210-VI-TR-55, Second Ed., June 1986); Tables 2.2 a

BASIN	TOTAL BASIN AREA	TOTAL CATCHMENT AREA**	LAKE AREA	SUB-TOTAL CONTRIBUTING AREA	CONTRIBUTING IMPERVIOUS*		TOTAL PERVIOUS AREA*
					TOTAL	DCIA	
Basin 1	32.99 ac	26.62 ac	1.34 ac	25.28 ac	14.74 ac	12.22 ac	10.78 ac
Total	**32.99 ac**	**26.62 ac**	**1.34 ac**	**25.28 ac**	**14.74 ac**	**12.22 ac**	**10.78 ac**

(1) Lake is not included in the impervious area

** Includes 0.25 acres for off-site impervious areas for turn lane improvements and preserve area was not included on the pre-treatment.*

*** Preserve Area is not included in the in the nutrient loading analysis.*

Post-Development Composite Non-DCIA CN and DCIA Percent

BASIN	SUB-TOTAL CONTRIBUTING AREA	IMPERVIOUS					COMPOSITE NON-DCIA CURVE NUMBER				
		TOTAL AREA		DCIA			PERVIOUS AREA	PERVIOUS CN	NON-DCIA IMP AREA (3)	IMP CN	NON-DCIA CN (4)
		%	(Acres)	% of IMP	DCIA (Acres)	DCIA % of SUB-TOTAL AREA (2)					
Basin 1	25.28 ac	58%	14.74 ac	83%	12.22 ac	48%	10.78 ac	50	2.52	98	59
Total	**25.28 ac**	**58%**	**14.74 ac**	**83%**	**12.22 ac**	**48%**	**10.78 ac**	**50**	**2.52**	**98**	**59**

(1) DCIA % of Sub-Total Area = DCIA / Sub-Total Area x 100

(2) Non-DCIA Impervious Area = Impervious Area - DCIA

(3) Composite Non-DCIA CN = [(Previous Area x Previous CN) + (Non-DCIA Imp Area x Imp CN)] / (Pervious Area + Non-DCIA Imp Area)

Post-Development Dry Retention Area Volume

DRY RETENTION	DRY RETENTION BOTTOM AREA	DRY RETENTION TOP AREA	DRY RETENTION DEPTH	DRY RETENTION VOLUME PROVIDED	RETENTION DEPTH OVER CONTRIBUTING AREA
Dry Retention Area 1	0.12 ac	0.15 ac	1.40 ft.	0.19 ac-ft	0.088 in.
Dry Retention Area 2	0.03 ac	0.05 ac	1.40 ft.	0.06 ac-ft	0.026 in.
Dry Retention Area 3	0.22 ac	0.27 ac	1.40 ft.	0.34 ac-ft	0.163 in.
Dry Retention Area 4	0.08 ac	0.12 ac	1.40 ft.	0.14 ac-ft	0.065 in.
Dry Retention Area 5	0.07 ac	0.10 ac	1.40 ft.	0.11 ac-ft	0.054 in.
Dry Retention Area 6	0.07 ac	0.10 ac	1.40 ft.	0.11 ac-ft	0.054 in.
Total	**0.57 ac**	**0.79 ac**	**1.40 ft.**	**0.95 ac-ft**	0.452 in.

Post-Development Wet Detention Permanent Pool Volume

	Basin 1
Lake Control Elev. =	11.70 ft. NAVD
Slope Break Point Elev. =	1.70 ft. NAVD
Lake Bottom Elev. =	-8.30 ft. NAVD
Total Depth	20.00 ft.

Lake	Area at Control Elev.	Area at Break Point	Area at Bottom Elev.	PPV
1	0.83 ac	0.25 ac	0.07 ac	7.04 ac-ft
2	0.51 ac	0.10 ac	0.00 ac	3.57 ac-ft
Total	1.34 ac	0.35 ac	0.07 ac	10.61 ac-ft

Complete Report (not including cost) Ver 4.3.5

Project: JLM Living East
Date: 4/11/2025 10:19:12 AM

Site and Catchment Information

Analysis: Net Improvement

Catchment Name	Basin 1
Rainfall Zone	Florida Zone 4
Annual Mean Rainfall	53.00

Pre-Condition Landuse Information

Landuse	User Defined Values
Area (acres)	26.62
Rational Coefficient (0-1)	0.20
Non DCIA Curve Number	86.00
DCIA Percent (0-100)	0.00
Nitrogen EMC (mg/l)	1.420
Phosphorus EMC (mg/l)	0.138
Runoff Volume (ac-ft/yr)	23.373
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	40.923
Phosphorus Loading (kg/yr)	3.977

Post-Condition Landuse Information

Landuse	Multi-Family: TN=2.320 TP=0.520
Area (acres)	26.62
Rational Coefficient (0-1)	0.42
Non DCIA Curve Number	59.00
DCIA Percent (0-100)	48.00
Wet Pond Area (ac)	1.34
Nitrogen EMC (mg/l)	2.320
Phosphorus EMC (mg/l)	0.520
Runoff Volume (ac-ft/yr)	46.372
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	132.649
Phosphorus Loading (kg/yr)	29.732

Catchment Number: 1 Name: Basin 1

Project: JLM Living East
Date: 4/11/2025

Multiple BMP in Series Design Parameters

BMP in Series Number: 1
BMP Type: Retention

Retention Depth (in)	0.452
Retention Volume (ac-ft)	0.952

BMP in Series Number: 2
BMP Type: Wet Detention

Permanent Pool Volume (ac-ft)	10.610
Permanent Pool Volume (ac-ft) for 31 days residence	3.938
Annual Residence Time (days)	84
Littoral Zone Efficiency Credit	
Wetland Efficiency Credit	

BMP in Series Number: 3
BMP Type: None

BMP in Series Number: 4
BMP Type: None

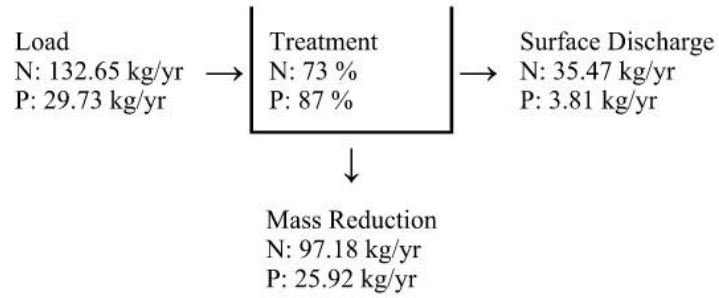
Watershed Characteristics

Catchment Area (acres)	26.62
Contributing Area (acres)	25.280
Non-DCIA Curve Number	59.00
DCIA Percent	48.00
Rainfall Zone	Florida Zone 4
Rainfall (in)	53.00

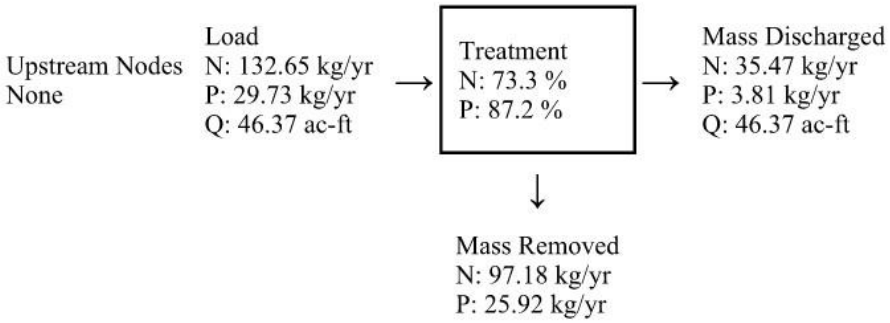
Surface Water Discharge

Required TN Treatment Efficiency (%)	69
Provided TN Treatment Efficiency (%)	73
Required TP Treatment Efficiency (%)	87
Provided TP Treatment Efficiency (%)	87

Load for Multiple BMP in Series



Load Diagram for Multiple BMP (As Used In Routing)



Summary Treatment Report Version: 4.3.5

Project: JLM Living East

Analysis Type: Net Improvement

Date:4/11/2025

BMP Types:

Catchment 1 - (Basin 1) Multiple BMP

Based on % removal values to the nearest percent

Routing Summary

Catchment 1 Routed to Outlet

Total nitrogen target removal met? **Yes**

Total phosphorus target removal met? **Yes**

Summary Report

Nitrogen

Surface Water Discharge

Total N pre load	40.92 kg/yr
Total N post load	132.65 kg/yr

Target N load reduction	69 %	
Target N discharge load	40.92 kg/yr	
Percent N load reduction	73 %	
Provided N discharge load	35.47 kg/yr	78.22 lb/yr
Provided N load removed	97.18 kg/yr	214.27 lb/yr

Phosphorus

Surface Water Discharge

Total P pre load	3.977 kg/yr	
Total P post load	29.732 kg/yr	
Target P load reduction	87 %	
Target P discharge load	3.977 kg/yr	
Percent P load reduction	87 %	
Provided P discharge load	3.81 kg/yr	8.4 lb/yr
Provided P load removed	25.921 kg/yr	57.157 lb/yr

2.4 Floodplain Compensation

The proposed development is within FEMA Zone AH –Elevation 14.5 ft. NAVD according to FIRM Map No. 12021C0218H dated May 16, 2012. The proposed project surrounded by a combination of development and does not receive flow from offsite areas: all the surrounding development was constructed with permitted water management systems and adjacent developments have been raised to provide flood protection. As a result, the project site does not import off-site storage as it is surrounded by berm development and is not hydraulically connected to the flood plain. The proposed perimeter berm for the site has been set 15.70 ft. NAVD which is greater than FEMA flood elevation.

2.5 System Performance

An ICPR model was utilized to route the storm events and confirm the storage assumptions and water quantity calculations. The control structure was checked to ensure the 24-hour water quality discharge volume requirements and maximum discharge rate were adhered to. Back-to-back storm events were run to ensure the basins due to the recovery of the basins at hour 360, as a result the perimeter berms were set higher than the back-to-back peak stage. See Appendix C for ICPR inputs and model results.

2.5 ICPR Results and SWM Summary

The proposed SWM system utilizes storm water structures to collect storm overland flow across the pavement and open space. The storm water is then conveyed to the dry retention areas and wet detention areas in series which provide the required water quality and nutrient loading. Once water quality and nutrient loading volumes are met, the preserve area provides additional attenuation for the SWMS. The SWMS discharges off-site from Lake 2, via the proposed control structure (CS-L2) within the allowable discharge rates parameters. The minimum parking lot elevation is set at the 10-year storm event, roadways are set to the 25-year storm event, the perimeter berm is set at the 25-year back-to-back storm event, and the building floors are set at the 100- year storm event, since FEMA Elevation plus 1 ft. yield a lower stage elevation, See Appendix C for ICPR inputs and model results.

APPENDIX A – SWMS BASIN CALCULATIONS

JLM Living East

Staff Summary Report

Project Land Use

Total Building	**7.65 ac.**
Total Pavement/Concrete	**6.84 ac.**
Total Lake Area	**1.34 ac.**
Total Dry Retention Area	**0.57 ac.**
Total Preserve Area	**6.29 ac.**
Total Open Space	**10.30 ac.**
Total SWMS Basin	**32.99 ac.**
Areas Outside of SWMS Basin	
Preserve/Wetland Areas	3.68 ac.
Other Areas	0.53 ac.
Total Project Area	**37.20 ac.**
Off-site Access Improvements (Providing WQ Compensation Only)	*0.25 ac.*

Control Elevation:

Basin	Area	Control Elev. (ft., NAVD)	Method of Determination
Basin 1	**32.99 ac.**	**11.70 ft.**	Off-Site Discharge Swale Elev. (for Positive Discharge)

Water Quality Elevation:

Basin	Treatment Method	Volume Required (ac-ft)	Volume Provided (ac-ft)	Water Quality Elevation (ft., NAVD)
Basin 1	**Dry Retention & Wet Detention**	**2.66 ac-ft**	**2.66 ac-ft**	**12.90 ft.**

Discharge Rate (25Year - 3 Day)

Basin	Determination Method	Discharge Rate	Allow Discharge	Actual Peak Discharge
Basin 1	**Collier County**	**0.06 cfs/ac**	**1.98 cfs**	**1.92 cfs**

Receiving Body:

Basin	Structure	Location	Receiving Body
Basin 1	**CS-L2**	**Lake 2**	**Cypress Canal Basin Via Sundance St/Richards Rd. Conveyance**

Design Stages:

	Design Storm	Design Rain Fall	Peak Stage (ft., NAVD)	Proposed Min. Elevation (ft. NAVD)
Basin 1				
Min Finish Floor	100 Year - 3 Day (Zero Discharge)	14.70 in.	**16.40 ft.**	**16.50 ft.**
Min. Perimeter Berm	25 Year - 3 Day	11.10 in.	**15.56 ft.**	**15.70 ft.**
Min. Road Elevation	25 Year - 3 Day	11.10 in.	**15.56 ft.**	**15.70 ft.**
Min. Parking Elevation	10 Year - 1 Day	7.16 in.	**14.72 ft.**	**15.70 ft.**

*FEMA Elevation: 11.00 ft.

*FIRM Map and Effective Date: 12021C0412J / 12021C0414J 2/8/2024

Water Quality/Discharge Structure

Basin	Strucutre	Type	Width (in.)	Height (in)	Invert Elevation (ft., NAVD)
Basin 1	CS-L2	Circular Orifice	**5.00 in.**	**5.00 in.**	**11.70 ft.**
		Circular Orifice	**4.50 in.**	**4.50 in.**	**12.90 ft.**

JLM Living East

Land Use Data

Project Land Use

Surface Water Management System (SWMS) Basin	32.99 ac.
Areas Outside SWM Basin	
Preserve/Wetland Areas	3.68 ac.
Other Areas	0.53 ac.
Total Project Area	**37.20 ac.**

Off-site Access Improvements (Providing WQ Compensation Only) *0.25 ac.*

Surface Water Management System Land Use

	Sub-Basin 1	Sub-Basin 1 Lake	Sub-Basin 3 Preserve	Sub-Basin 2	Sub-Basin 2 Lake	Total	% of Total Basin
Impervious							
Building	4.10 ac.	0.00 ac.	0.00 ac.	3.55 ac.	0.00 ac.	**7.65 ac.**	**23%**
Pavement/Concrete	4.21 ac.	0.00 ac.	0.00 ac.	2.63 ac.	0.00 ac.	**6.84 ac.**	**21%**
Pervious							
Open Space	5.28 ac.	0.38 ac.	0.08 ac.	4.27 ac.	0.29 ac.	**10.30 ac.**	**31%**
Preserve Area	0.00 ac.	0.00 ac.	6.29 ac.	0.00 ac.	0.00 ac.	**6.29 ac.**	**19%**
Water Management							
Lake at Control Elev.	0.00 ac.	0.83 ac.	0.00 ac.	0.00 ac.	0.51 ac.	**1.34 ac.**	**4%**
Dry Retention Bottom	0.44 ac.	0.00 ac.	0.00 ac.	0.13 ac.	0.00 ac.	**0.57 ac.**	**2%**
Total Basin Area	**14.03 ac.**	**1.21 ac.**	**6.37 ac.**	**10.58 ac.**	**0.80 ac.**	**32.99 ac.**	
Total Impervious Area	**8.31 ac.**	**0.00 ac.**	**0.00 ac.**	**6.18 ac.**	**0.00 ac.**	**14.49 ac.**	
Total Pervious Area	**5.72 ac.**	**0.38 ac.**	**6.37 ac.**	**4.40 ac.**	**0.29 ac.**	**17.16 ac.**	

JLM Living East
Sub-Basin 1 Stage Storage

Average Site Grade*

Land Use	Elevation Range		Avg Elev.	Area	Area x Avg Elev.
Pavement/Concrete	15.80 ft	17.00 ft	16.4 ft	4.21 ac.	69.04
Dry Retention Bottom	13.20 ft	13.20 ft	13.2 ft	0.44 ac.	5.81
Dry Retention Banks	13.20 ft	16.50 ft	14.9 ft	0.37 ac.	5.49
Open Space	16.50 ft	16.70 ft	16.6 ft	4.91 ac.	81.51
			Total =	**9.93 ac.**	**161.85**

*Does Not Include Building Areas **Avg Site Grade =** **16.30 ft**

Soil Storage

Sub-Basin Area (ac)	14.03
Sub-Basin Area, less Building area (ac)	9.93
Pervious Area (ac)	5.72
Average Site Grade (ft)	16.30
Control Elevation (ft)	**11.7**
Average Depth to Water Table (ft)	4.60
Soil Compaction Factor (i.e. 25%)	25%
Developed Storage Available (in)	8.18
Available Soil Storage	3.90
Site-Wide Soil Storage (S)	4.71
CN for Sub-Basin	**67.97**

Remove detention bottom?

From SFWMD; Basis for Review, Volume IV
(Developed Storage Available) x (Pervious Area)/(12 inches/ft)
(Available Soil Storage/Site Area) x (12 inches/ft)
CN = 1,000 /(S + 10)

Stage Storage

					Stage-Volume AF						
Land Use	**Storage Criteria**	**Elevation Range**		**Area**	**13.2 ft**	**13.5 ft**	**14.0 ft**	**15.0 ft**	**15.8 ft**	**16.0 ft**	**16.7 ft**
Pavement/Concrete	Linear	15.8 ft	17.0 ft	4.21 ac.	0.00	0.00	0.00	0.00	0.00	0.07	1.42
Dry Retention Bottom	Vertical	13.2 ft	13.2 ft	0.44 ac.	0.00	0.13	0.35	0.79	1.14	1.23	1.54
Dry Retention Banks	Linear	13.2 ft	16.5 ft	0.37 ac.	0.00	0.01	0.04	0.18	0.38	0.44	0.68
Open Space	Linear	16.5 ft	16.7 ft	4.91 ac.	0.00	0.00	0.00	0.00	0.00	0.00	0.49
				9.93 ac.	**0.00 ac-ft**	**0.14 ac-ft**	**0.39 ac-ft**	**0.97 ac-ft**	**1.52 ac-ft**	**1.74 ac-ft**	**4.14 ac-ft**

JLM Living East
Sub-Basin 1 Lake Stage Storage

Average Site Grade*

Land Use	Elevation Range		Avg Elev.	Area	Area x Avg Elev.
Lake at Control Elev.	11.70 ft	11.70 ft	11.7 ft	0.83 ac.	9.71
Lake Banks	11.70 ft	16.50 ft	14.1 ft	0.38 ac.	5.36
			Total =	**1.21 ac.**	**15.07**

*Does Not Include Building Areas **Avg Site Grade =** **12.5 ft**

Soil Storage

Sub-Basin Area (ac)	1.21	
Sub-Basin Area, less Building area (ac)	1.21	
Pervious Area	0.38	
Average Site Grade (ft)	14.10	*Lake Bank Only
Control Elevation (ft)	**11.7**	
Average Depth to Water Table (ft)	2.40	
Soil Compaction Factor (i.e. 25%)	25%	
Developed Storage Available (in)	3.10	From SFWMD; Basis for Review, Volume IV
Available Soil Storage*	0.10	(Developed Storage Available) x (Pervious Area)/(12 inches/ft)
Site-Wide Soil Storage (S)	3.10	(Available Soil Storage/Site Area) x (12 inches/ft)
CN for Sub-Basin	**76.36**	CN = 1,000 /(S + 10)

*Soil Storage over Lake Banks Only

Stage Storage

				Stage-Volume AF						
Land Use	**Storage Criteria**	**Elevation Range**		**Area**	**11.7 ft**	**12.0 ft**	**13.0 ft**	**14.0 ft**	**15.0 ft**	**16.0 ft**	**16.7 ft**
Lake at Control Elev.	Vertical	11.7 ft	11.7 ft	0.83 ac.	0.00	0.25	1.08	1.91	2.74	3.57	4.15
Lake Banks	Linear	11.7 ft	16.5 ft	0.38 ac.	0.00	0.00	0.07	0.21	0.43	0.73	0.99
				1.21 ac.	**0.00 ac-ft**	**0.25 ac-ft**	**1.15 ac-ft**	**2.12 ac-ft**	**3.17 ac-ft**	**4.30 ac-ft**	**5.14 ac-ft**

JLM Living East
Sub-Basin 3 Preserve Stage Storage

Average Site Grade*

Land Use	Elevation Range		Avg Elev.	Area	Area x Avg Elev.
Pavement/Concrete	13.50 ft	15.00 ft	14.3 ft	0.00 ac.	0.00
Dry Retention Bottom	12.20 ft	12.20 ft	12.2 ft	0.00 ac.	0.00
Open Space	12.20 ft	13.30 ft	12.8 ft	0.08 ac.	1.02
Preserve Area	12.20 ft	13.30 ft	12.8 ft	6.29 ac.	80.20
			Total =	**6.37 ac.**	**81.22**

*Does Not Include Building Areas **Avg Site Grade =** **12.75 ft**

Soil Storage

Sub-Basin Area (ac)	6.37
Sub-Basin Area, less Building area (ac)	6.37
Pervious Area (ac)	6.37
Average Site Grade (ft)	12.75
Control Elevation (ft)	**11.7**
Average Depth to Water Table (ft)	1.05
Soil Compaction Factor (i.e. 25%)	25%
Developed Storage Available (in)	0.52
Available Soil Storage	0.27
Site-Wide Soil Storage (S)	0.52
CN for Sub-Basin	**95.10**

From SFWMD; Basis for Review, Volume IV
(Developed Storage Available) x (Pervious Area)/(12 inches/ft)
(Available Soil Storage/Site Area) x (12 inches/ft)
CN = 1,000 /(S + 10)

Stage Storage

				Stage-Volume AF						
Land Use	**Storage Criteria**	**Elevation Range**		**Area**	**12.2 ft**	**12.5 ft**	**13.0 ft**	**13.3 ft**	**14.0 ft**	**14.5 ft**	**15.0 ft**
Pavement/Concrete	Linear	13.5 ft	15.0 ft	0.00 ac.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dry Retention Bottom	Vertical	12.2 ft	12.2 ft	0.00 ac.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Space	Linear	12.2 ft	13.3 ft	0.08 ac.	0.00	0.00	0.02	0.04	0.10	0.14	0.18
Preserve Area	Linear	12.2 ft	13.3 ft	6.29 ac.	0.00	0.26	1.83	3.46	7.86	11.01	14.15
				6.37 ac.	**0.00 ac-ft**	**0.26 ac-ft**	**1.85 ac-ft**	**3.50 ac-ft**	**7.96 ac-ft**	**11.15 ac-ft**	**14.33 ac-ft**

JLM Living East
Sub-Basin 2 Stage Storage

Average Site Grade*

Land Use	Elevation Range		Avg Elev.	Area	Area x Avg Elev.
Pavement/Concrete	15.80 ft	17.00 ft	16.4 ft	2.63 ac.	43.13
Dry Retention Bottom	13.20 ft	13.20 ft	13.2 ft	0.13 ac.	1.72
Dry Retention Banks	13.20 ft	16.50 ft	14.9 ft	0.16 ac.	2.38
Open Space	16.50 ft	16.70 ft	16.6 ft	4.11 ac.	68.23
			Total =	**7.03 ac.**	**115.45**

*Does Not Include Building Areas **Avg Site Grade =** **16.4 ft**

Soil Storage

Sub-Basin Area (ac)	10.58
Sub-Basin Area, less Building area (ac)	7.03
Pervious Area (ac)	4.40
Average Site Grade (ft)	16.42
Control Elevation (ft)	**11.7**
Average Depth to Water Table (ft)	4.72
Soil Compaction Factor (i.e. 25%)	25%
Developed Storage Available (in)	8.18
Available Soil Storage	3.00
Site-Wide Soil Storage (S)	5.12
CN for Sub-Basin	**66.14**

From SFWMD; Basis for Review, Volume IV
(Developed Storage Available) x (Pervious Area)/(12 inches/ft)
(Available Soil Storage/Site Area) x (12 inches/ft)
CN = 1,000 /(S + 10)

Stage Storage

					Stage-Volume AF						
Land Use	**Storage Criteria**	**Elevation Range**		**Area**	**13.2 ft**	**13.5 ft**	**14.0 ft**	**15.0 ft**	**15.8 ft**	**16.0 ft**	**16.7 ft**
Pavement/Concrete	Linear	15.8 ft	17.0 ft	2.63 ac.	0.00	0.00	0.00	0.00	0.00	0.04	0.89
Dry Retention Bottom	Vertical	13.2 ft	13.2 ft	0.13 ac.	0.00	0.04	0.10	0.23	0.34	0.36	0.46
Dry Retention Banks	Linear	13.2 ft	16.5 ft	0.16 ac.	0.00	0.00	0.02	0.08	0.16	0.19	0.30
Open Space	Linear	16.5 ft	16.7 ft	4.11 ac.	0.00	0.00	0.00	0.00	0.00	0.00	0.41
				7.03 ac.	**0.00 ac-ft**	**0.04 ac-ft**	**0.12 ac-ft**	**0.31 ac-ft**	**0.50 ac-ft**	**0.60 ac-ft**	**2.05 ac-ft**

JLM Living East
Sub-Basin 2 Lake Stage Storage

Average Site Grade*

Land Use	Elevation Range		Avg Elev.	Area	Area x Avg Elev.
Lake at Control Elev.	11.7 ft	11.7 ft	11.7 ft	0.51 ac.	5.97
Lake Banks	11.7 ft	16.5 ft	14.1 ft	0.29 ac.	4.09
			Total =	**0.80 ac.**	**10.06**

*Does Not Include Building Areas **Avg Site Grade =** **12.6 ft**

Soil Storage

Sub-Basin Area (ac)	0.80	
Sub-Basin Area, less Building area (ac)	0.80	
Pervious Area	0.29	
Average Site Grade (ft)	14.10	*Lake Bank Only
Control Elevation (ft)	**11.7**	
Average Depth to Water Table (ft)	2.40	
Soil Compaction Factor (i.e. 25%)	25%	
Developed Storage Available (in)	3.10	From SFWMD; Basis for Review, Volume IV
Available Soil Storage	0.07	(Developed Storage Available) x (Pervious Area)/(12 inches/ft)
Site-Wide Soil Storage (S)	3.10	(Available Soil Storage/Site Area) x (12 inches/ft)
CN for Sub-Basin	**76.36**	CN = 1,000 /(S + 10)

*Soil Storage over Lake Banks Only

Stage Storage

					Stage-Volume AF						
Land Use	**Storage Criteria**	**Elevation Range**		**Area**	**11.7 ft**	**12.0 ft**	**13.0 ft**	**14.0 ft**	**15.0 ft**	**16.0 ft**	**16.7 ft**
Lake at Control Elev.	Vertical	11.7 ft	11.7 ft	0.51 ac.	0.00	0.15	0.66	1.17	1.68	2.19	2.55
Lake Banks	Linear	11.7 ft	16.5 ft	0.29 ac.	0.00	0.00	0.05	0.16	0.33	0.56	0.75
				0.80 ac.	**0.00 ac-ft**	**0.16 ac-ft**	**0.71 ac-ft**	**1.33 ac-ft**	**2.01 ac-ft**	**2.75 ac-ft**	**3.30 ac-ft**

JLM Living East

Water Quality Calcs

Surface Water Management System (SWMS) Area	**32.99 ac.**
Off-Site Impervious Area (Compensation)	**0.25 ac.**

Water Quality Volume Calculations

1. First-Inch of Runoff Criteria	
1.0" Runoff Volume =	**2.75 ac-ft**
1.0in x 1ft/12in x SWMS Area	
2. Percent Impervious Criteria	
WQ Site Area =	**24.00 ac.**
WQ Site Area = Project Area - (Lake + Roof)	
Impervious Area=	**6.84 ac.**
Impervious Area = Impervious Area - Building Area	
Percent Impervious =	**29%**
Percent Impervious Area = Impervious Area/WQ Site Area	
2.5" x Percent Impervious Runoff Vol. =	**1.88 ac-ft**
2.5in x 1ft/12in x Percent Impervious x (SWMS Area - Lake Area)	
Required Water Quality Criteria =	**1**
Required Water Quality Volume =	**1.88 ac-ft**
Required Off-Site Compensation =	**0.05 ac-ft**
Off-Site Impervious Area x 2.5in x 1ft/12in	
Water Quality Volume Sub-Total =	**1.93 ac-ft**
Add. 50% Water Quality Volume =	0.97 ac-ft
25% Reduction for Dry Retention =	0.24 ac-ft
Total Req. Water Quality Volume =	**2.66 ac-ft**
Water Quality Vol. Provided via Dry Retention =	**0.95 ac-ft**
Water Quality Vol. Provided via Lake =	**1.71 ac-ft**
Total Water Quality Vol. Provided =	**2.66 ac-ft**
Control Elevation =	**11.70 ft**
Water Quality Elevation =	**12.90 ft**
24 Hour Discharge Volume =	**1.32 ac-ft**
0.5in x 1ft/12in x (Basin Area-Lake Area)	

Update should be 2.75

at Elev. **14.60 ft**

Discharge = **0.66 cfs**

JLM Living East

Maximum Allowable Discharge Rate/Maximum Water Quality Discharge Volume in 24hrs.

Maximum Allowable Discharge Rate

Surface Water Management System (SWMS) Area		**32.99 ac.**
Allowable Discharge Rate		**0.06 cfs/ac**
** Per Collier County Allowable Discharge Rates (Cypress Canal Basin)*		
SWMS Maximum Allowable Discharge Rate		**1.98 cfs**
SWMS Actual Discharge Rate		**1.92 cfs**

Maximum Water Quality Discharge Volume in 24hrs.

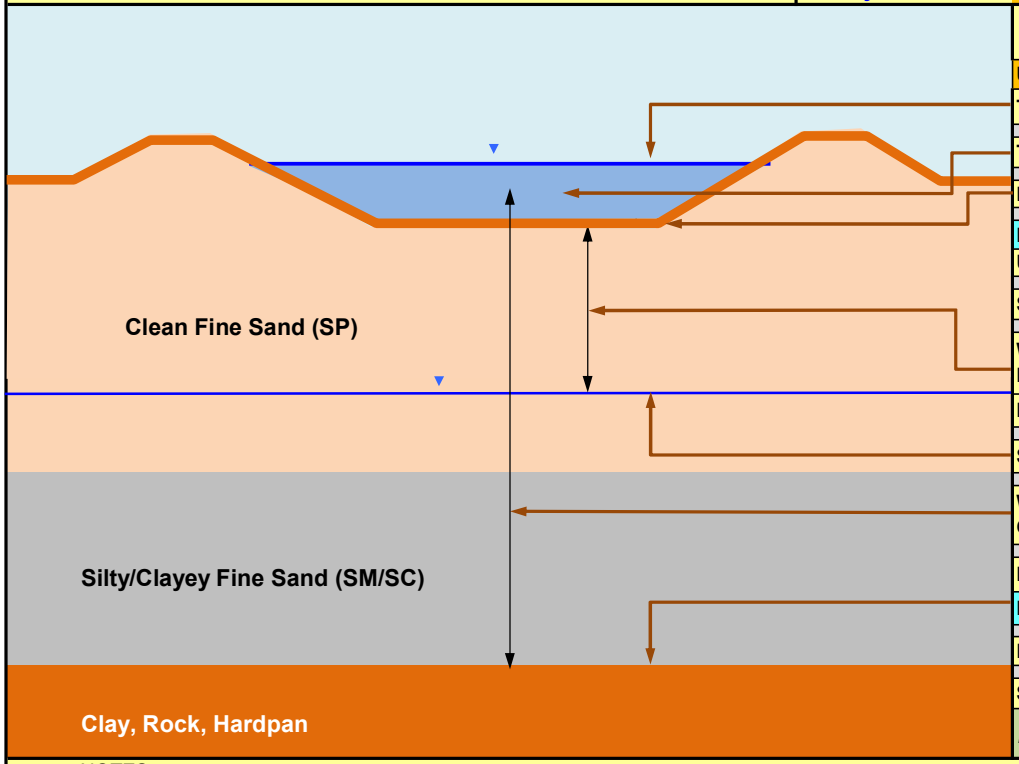
** Per SFWMD District Criteria (Basis of Review Sec.7.2.a)*

1. Water Quality Elevation =		**12.90 ft**
2. Information From Attached ICPR 25 Year- 3 Day Flood Routing Model		
2a. Water Quality Elevation at Drawdown		
Stage at Time	***248 hrs.***	**12.90 ft**
Cumulative Outfall Volume (AF) at time		**25.13 ac-ft**
2b. 24 Hours after Water Quality Elevation is Reached		
Stage at Time	***272 hrs.***	**12.28 ft**
Cumulative Outfall Volume (AF) at time		**26.19 ac-ft**
3. Actual 24 hr. Water Quality Discharge Volume		**1.06 ac-ft**
4. Maximum 24 hr. Discharge Volume Allowed		**1.32 ac-ft**
0.5in x 1ft/12in x (Basin Area-Lake Area)		
5. Water Quality Volume is Less Than or Equal To Req. Detention Volume =		**Yes**

MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E -Retention #1*



MODEL INPUT

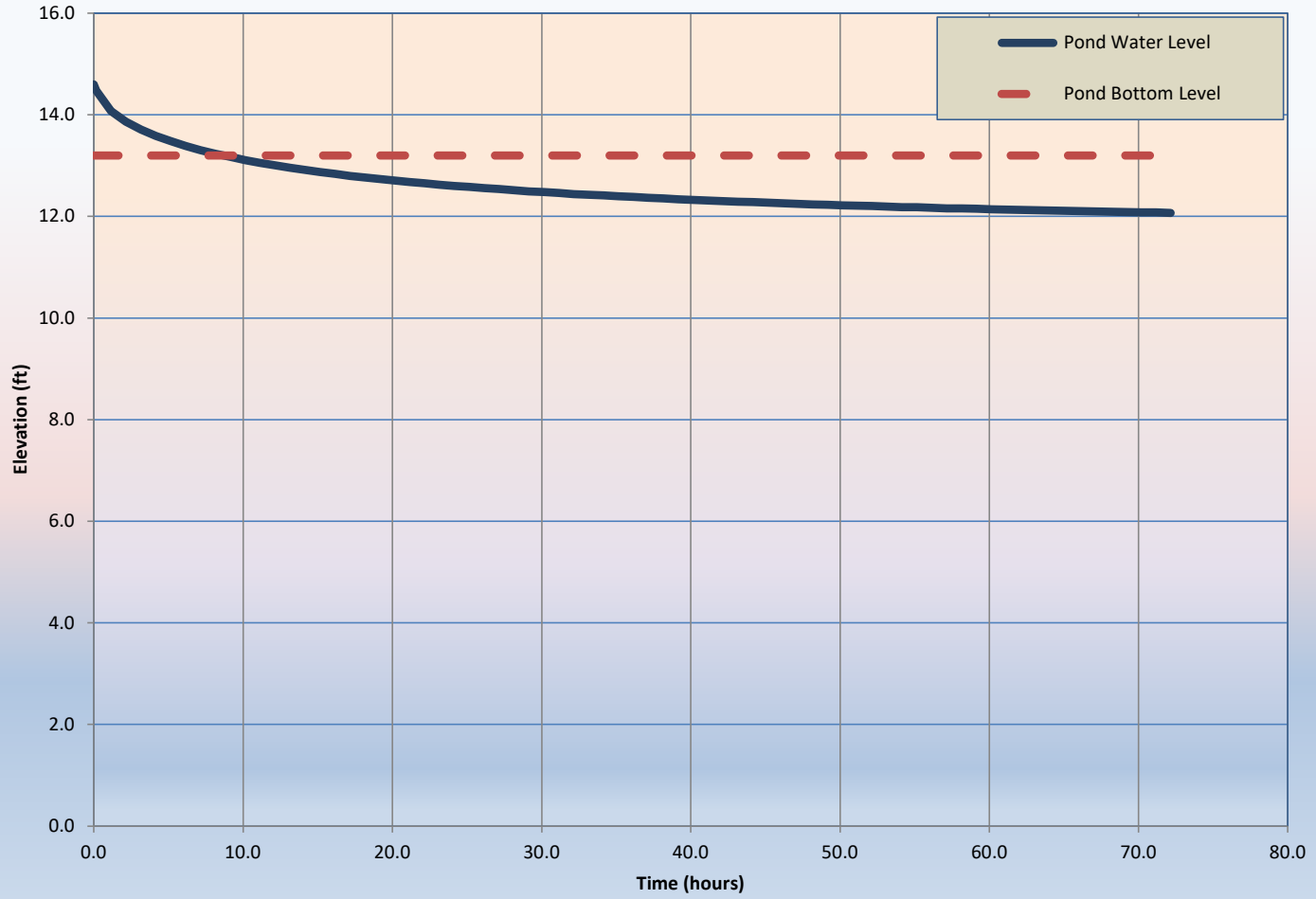
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	8,105	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-17.00	ft
Length to Width Ratio (L/W)	1.72	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***8.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:44 AM

Project Name: *JLM Living E -Retention #1*	Recovery Time: 8.2 hours

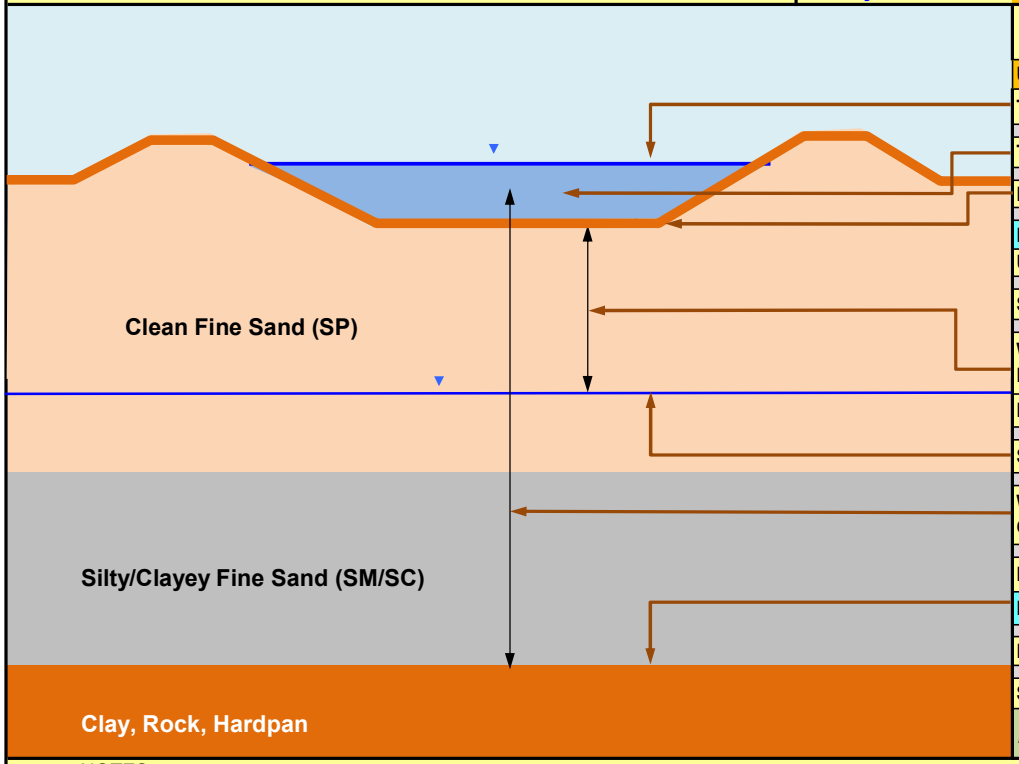
Summary of Recovery Model Results



MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E - Retention #2*



MODEL INPUT

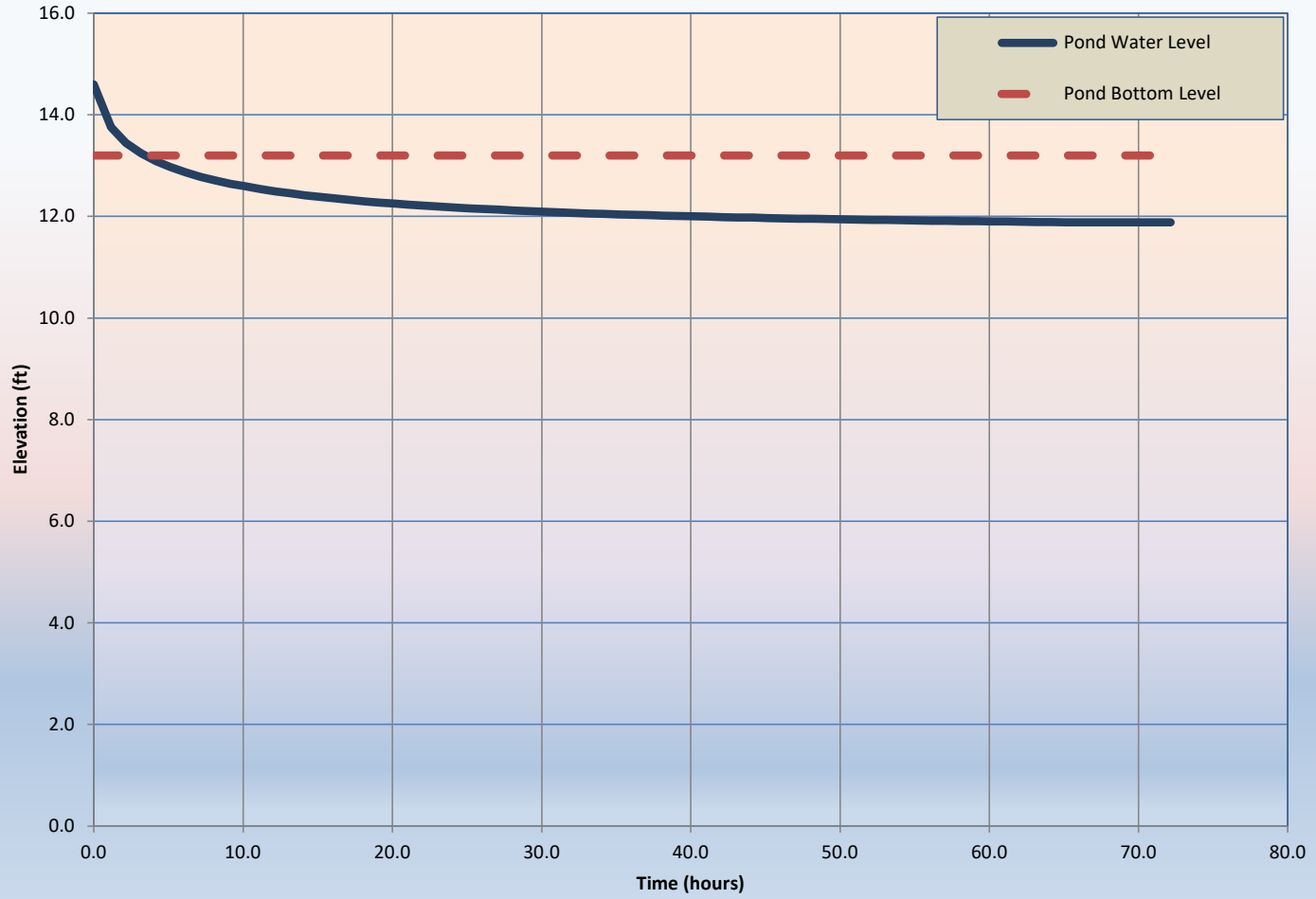
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	2,397	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-4.71	ft
Length to Width Ratio (L/W)	6.36	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***3.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:52 AM

Project Name: *JLM Living E - Retention #2*	Recovery Time: 3.2 hours

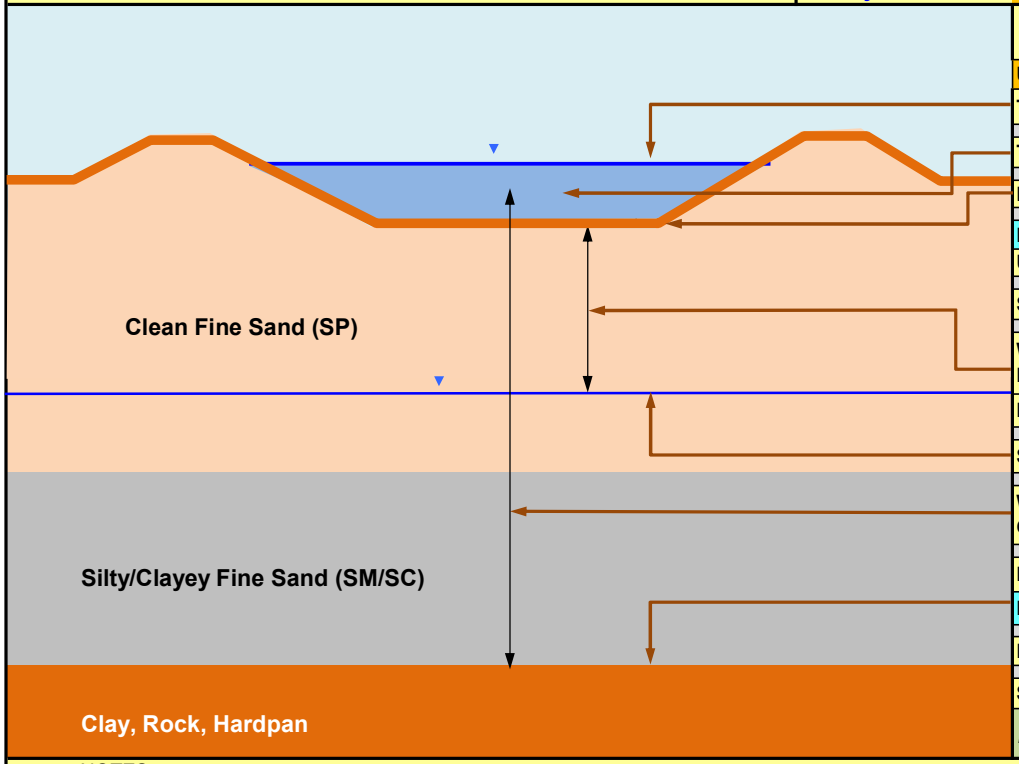
Summary of Recovery Model Results



MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E - Retention #3*



MODEL INPUT

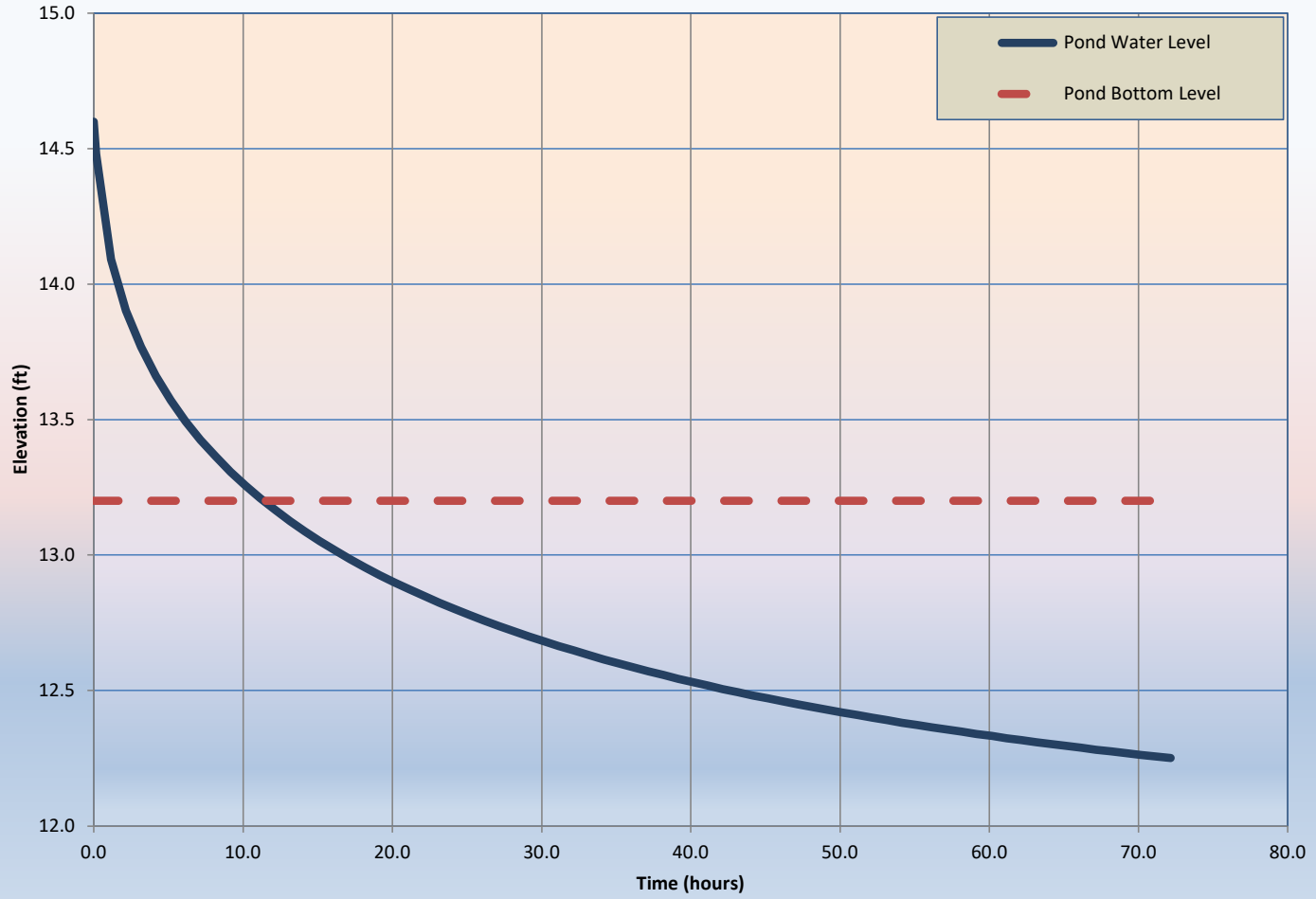
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	14,996	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-17.00	ft
Length to Width Ratio (L/W)	5.88	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***11.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:54 AM

Project Name: *JLM Living E - Retention #3*	Recovery Time: 11.2 hours

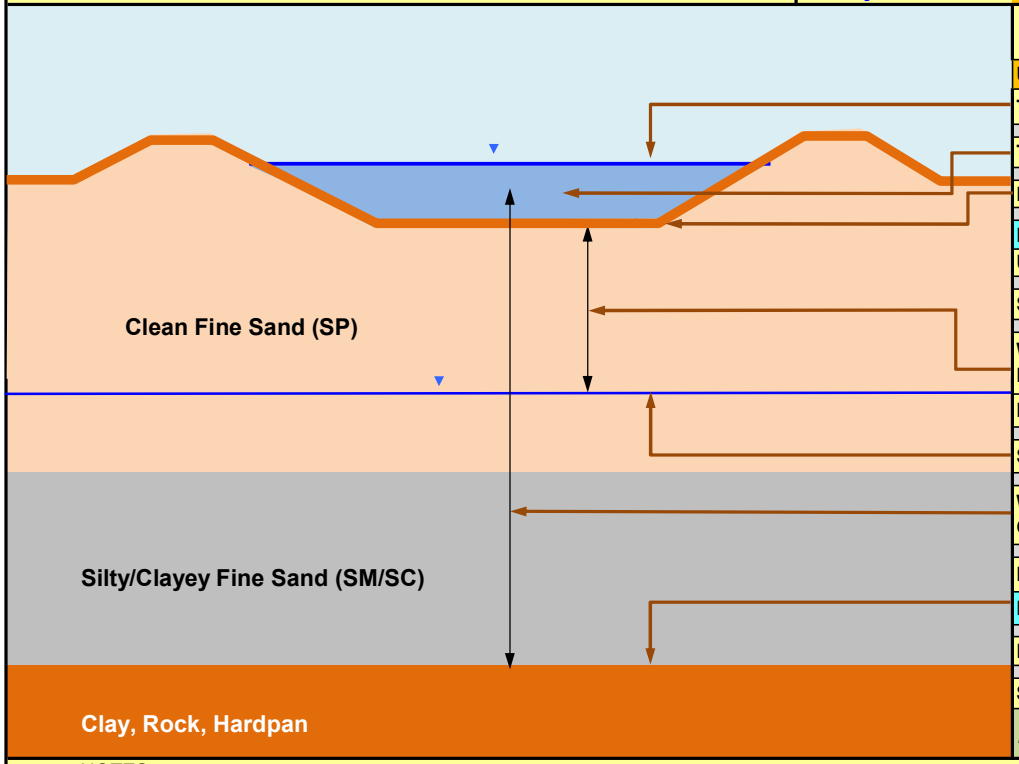
Summary of Recovery Model Results



MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E - Retention #4*



MODEL INPUT

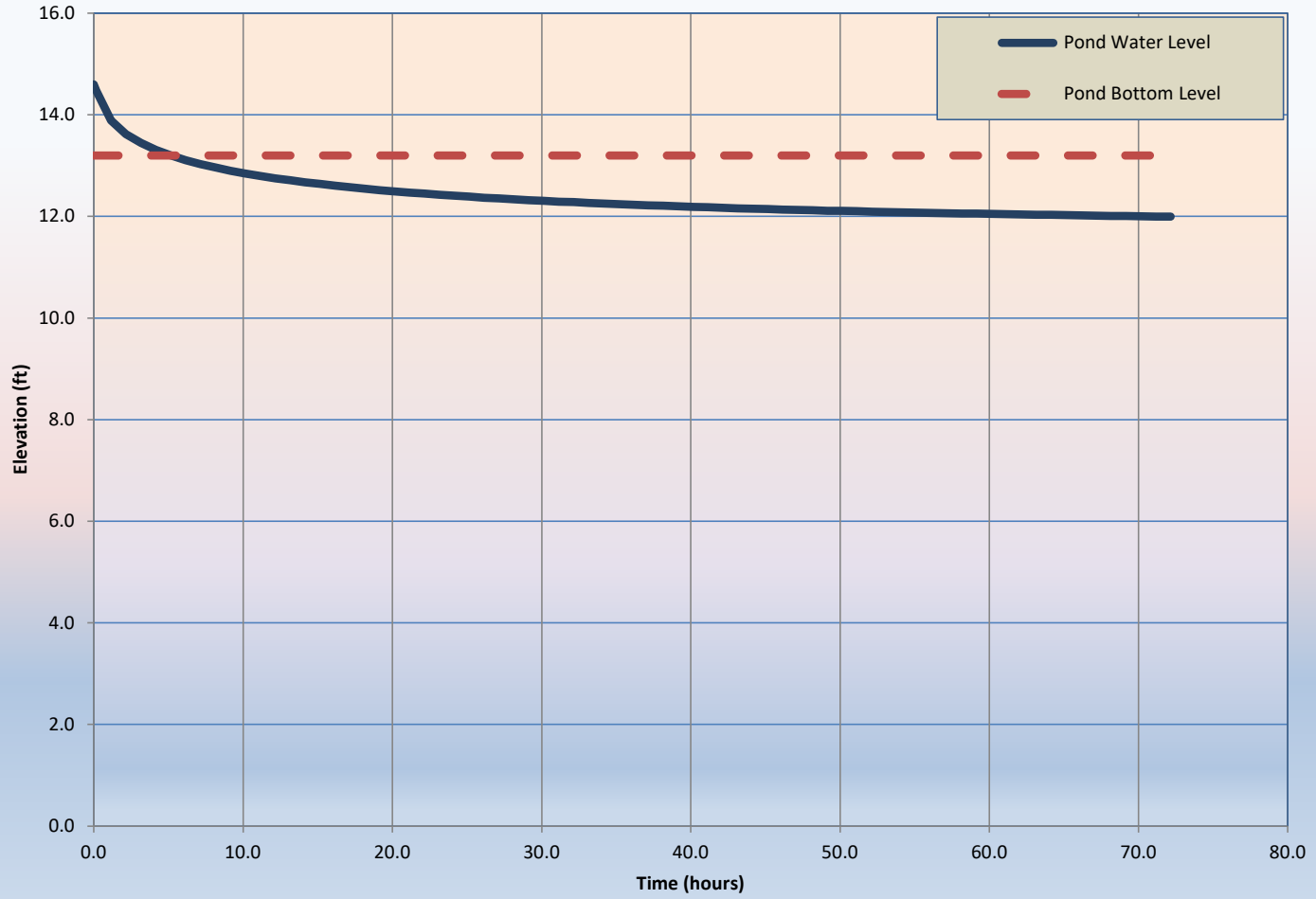
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	6,005	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-10.49	ft
Length to Width Ratio (L/W)	8.71	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***5.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:55 AM

Project Name: *JLM Living E - Retention #4*	Recovery Time: 5.2 hours

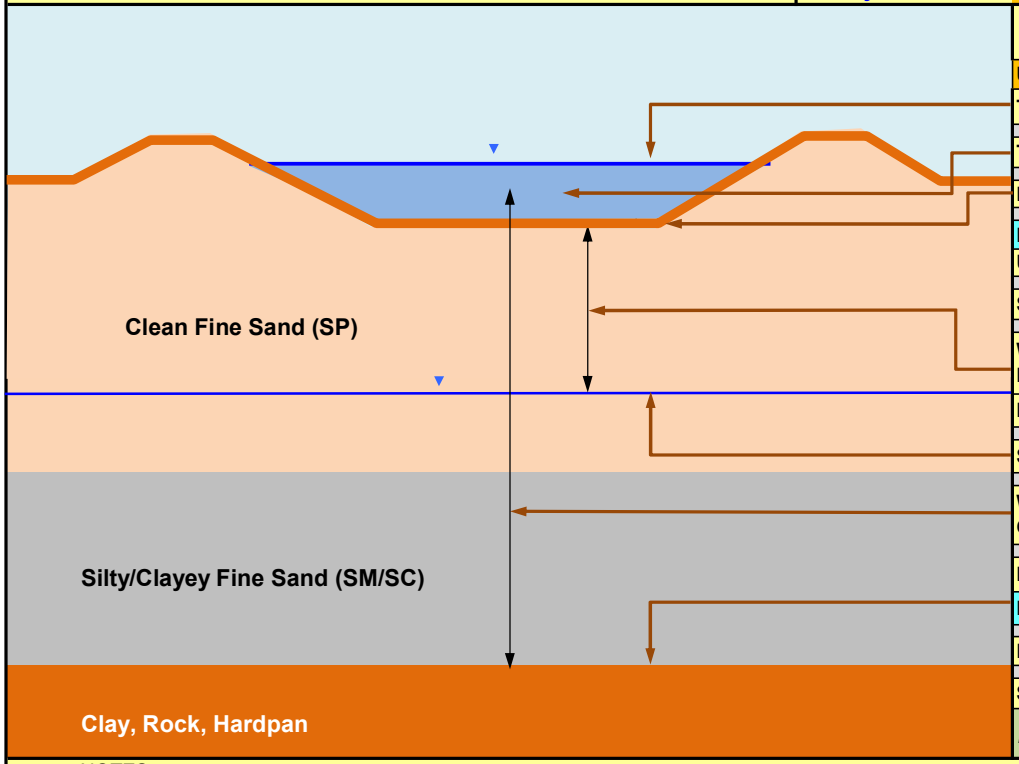
Summary of Recovery Model Results



MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E - Retention #5*



MODEL INPUT

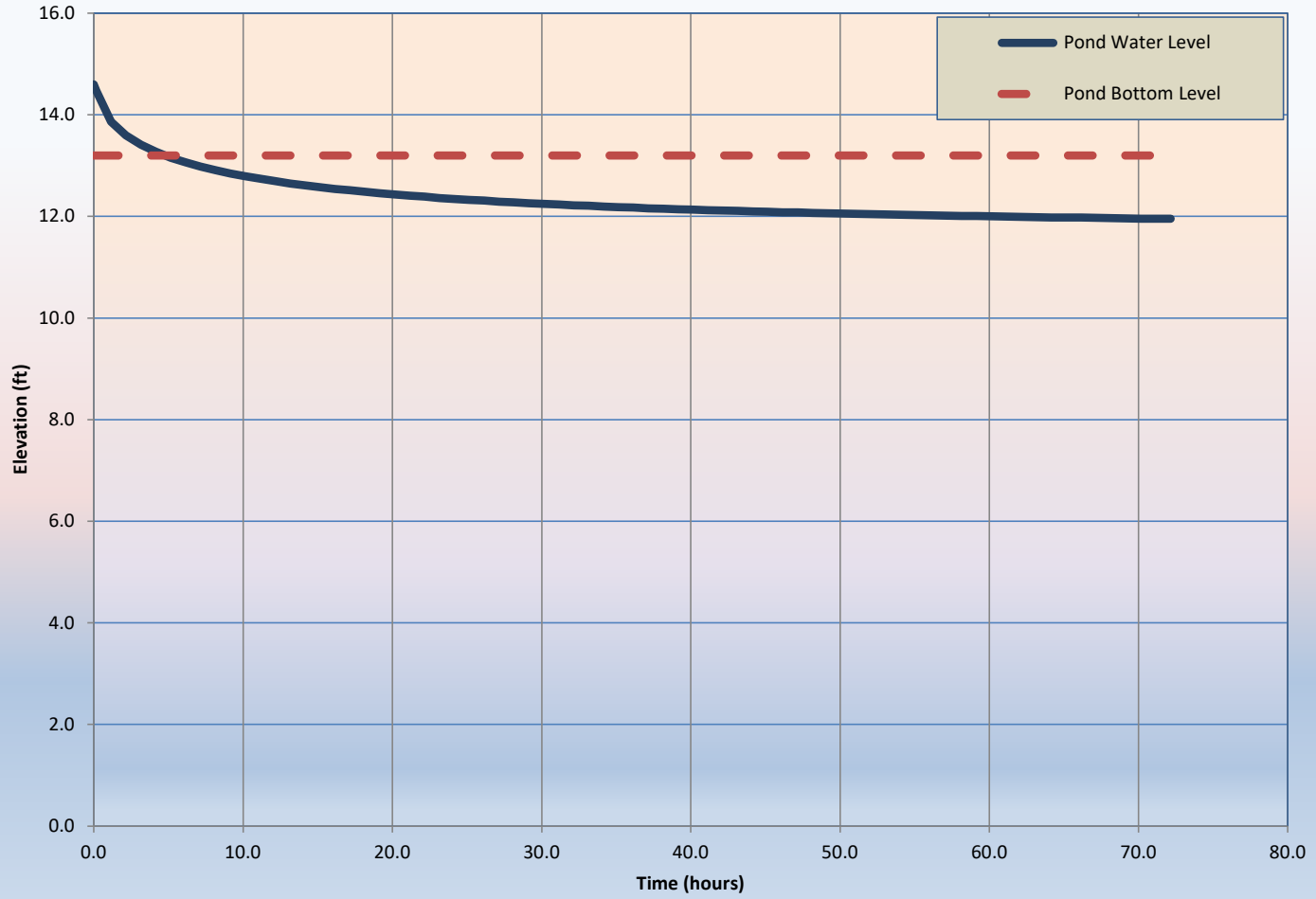
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	4,969	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-10.66	ft
Length to Width Ratio (L/W)	7.10	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***4.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:57 AM

Project Name: *JLM Living E - Retention #5*	Recovery Time: 4.2 hours

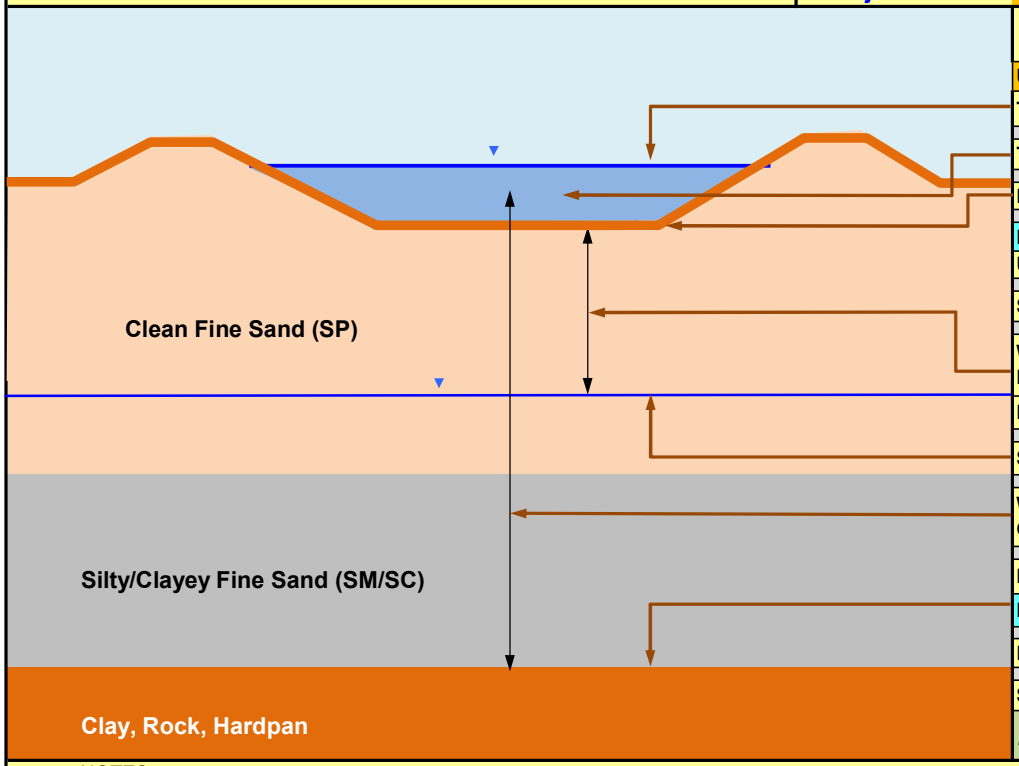
Summary of Recovery Model Results



MODRET Recovery Analysis

Dry Retention Pond

Project Name: *JLM Living E - Retention #6*



MODEL INPUT

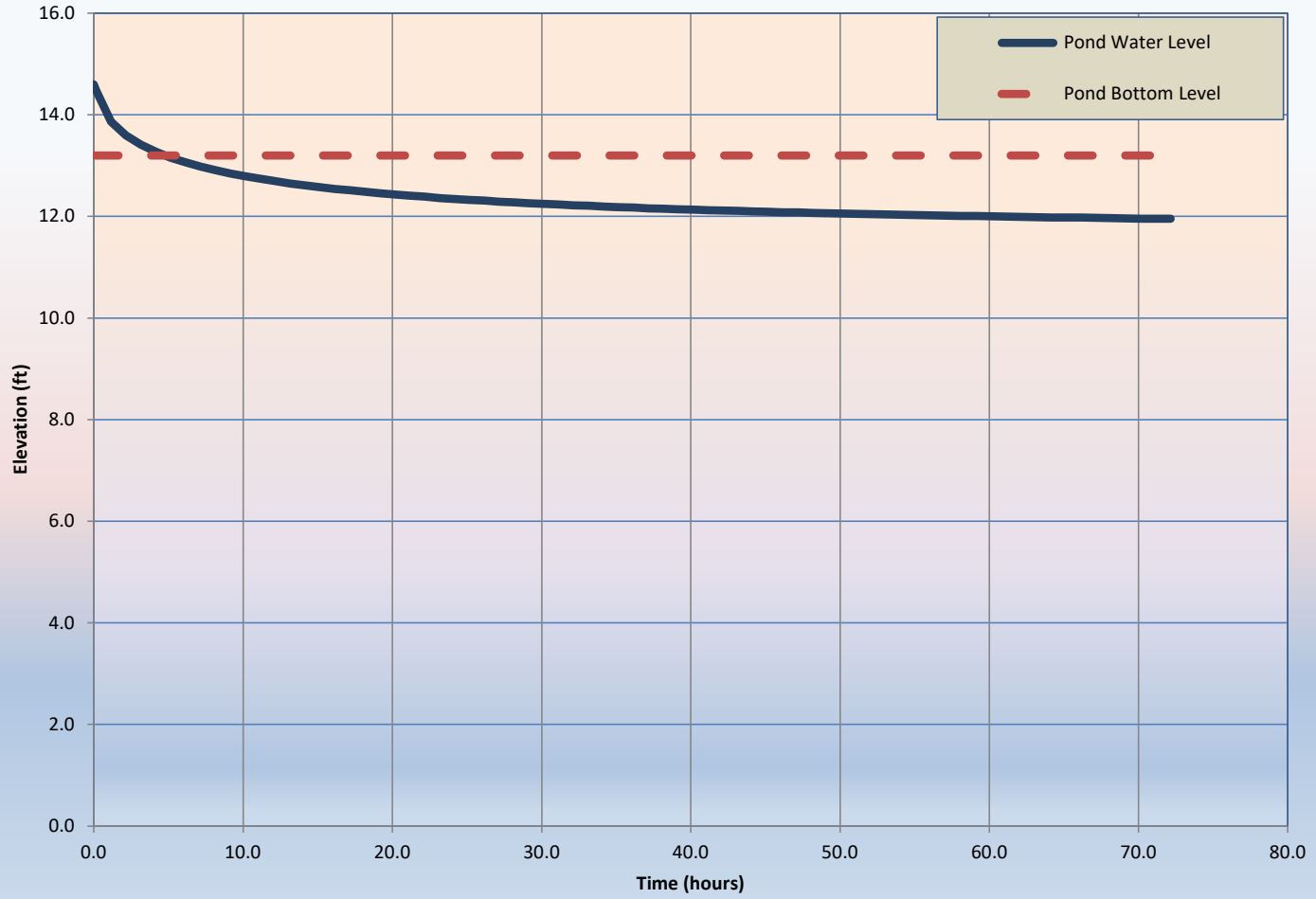
Unsaturated Infiltration Included?	Yes	
Top of Recovery Volume Elevation	14.60	ft
Total Volume to be Recovered	4,971	ft3
Pond Bottom Elev./Bottom of Recovery	13.20	ft
Effective Storage Coefficient of Soil	0.12	dec.
User Specified Storage Coefficient		dec.
Soil Compaction Below Pond Bottom	Uncompacted	
Weighted Average Unsaturated Vertical Hydraulic Conductivity, Kvu	37.98	ft/day
Factor of Safety for Kvu	2.00	
Seasonal High Groundwater Elevation	11.70	ft
Weighted Average Horizontal Hydraulic Conductivity of Aquifer, Kh	56.98	ft/day
Base of Aquifer Elevation	-17.00	ft
Effective Base of Aquifer Elevation	-10.66	ft
Length to Width Ratio (L/W)	7.10	
Specified Recovery Time	72.00	hours
Modeled Time of Recovery	***4.15***	***hours***

NOTES:
The recovery is calculated using MODFLOW96 groundwater flow model and the modified Green & Ampt equations.

Date & Time: 4/11/2025 10:58 AM

Project Name: *JLM Living E - Retention #6*	Recovery Time: 4.2 hours

Summary of Recovery Model Results



APPENDIX B – PROJECT BACKUP INFORMATION

-Rainfall Data

NOAA Atlas 14, Volume 9, Version 2
Location name: Naples, Florida, USA*
Latitude: 26.2719°, Longitude: -81.6599°
Elevation: 13 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.574 (0.467-0.711)	0.646 (0.525-0.801)	0.766 (0.620-0.953)	0.869 (0.698-1.09)	1.01 (0.785-1.33)	1.13 (0.850-1.51)	1.25 (0.902-1.72)	1.37 (0.943-1.96)	1.54 (1.01-2.28)	1.67 (1.06-2.53)
10-min	0.840 (0.684-1.04)	0.946 (0.768-1.17)	1.12 (0.908-1.40)	1.27 (1.02-1.59)	1.48 (1.15-1.94)	1.66 (1.24-2.21)	1.83 (1.32-2.52)	2.01 (1.38-2.87)	2.25 (1.48-3.35)	2.44 (1.55-3.70)
15-min	1.02 (0.834-1.27)	1.15 (0.937-1.43)	1.37 (1.11-1.70)	1.55 (1.25-1.94)	1.81 (1.40-2.37)	2.02 (1.52-2.69)	2.23 (1.61-3.07)	2.45 (1.68-3.50)	2.75 (1.80-4.08)	2.98 (1.90-4.52)
30-min	1.58 (1.28-1.96)	1.77 (1.44-2.20)	2.10 (1.70-2.62)	2.39 (1.92-2.99)	2.79 (2.16-3.65)	3.12 (2.34-4.16)	3.45 (2.49-4.76)	3.80 (2.61-5.44)	4.28 (2.81-6.36)	4.65 (2.96-7.05)
60-min	2.08 (1.70-2.58)	2.34 (1.90-2.90)	2.78 (2.25-3.46)	3.15 (2.54-3.95)	3.69 (2.86-4.84)	4.12 (3.10-5.51)	4.57 (3.30-6.31)	5.04 (3.46-7.21)	5.68 (3.73-8.44)	6.18 (3.93-9.36)
2-hr	2.59 (2.12-3.18)	2.91 (2.37-3.58)	3.45 (2.81-4.27)	3.92 (3.17-4.88)	4.59 (3.58-5.98)	5.13 (3.89-6.81)	5.69 (4.14-7.80)	6.27 (4.35-8.93)	7.08 (4.69-10.4)	7.70 (4.95-11.6)
3-hr	2.82 (2.31-3.45)	3.19 (2.61-3.91)	3.81 (3.11-4.69)	4.35 (3.52-5.39)	5.12 (4.00-6.64)	5.74 (4.37-7.59)	6.38 (4.66-8.72)	7.05 (4.91-10.0)	7.97 (5.31-11.7)	8.69 (5.62-13.0)
6-hr	3.16 (2.60-3.84)	3.64 (3.00-4.44)	4.48 (3.67-5.47)	5.19 (4.23-6.38)	6.23 (4.90-8.03)	7.06 (5.40-9.27)	7.92 (5.83-10.8)	8.82 (6.20-12.4)	10.1 (6.77-14.7)	11.0 (7.20-16.4)
12-hr	3.46 (2.86-4.17)	4.11 (3.40-4.97)	5.23 (4.30-6.34)	6.20 (5.08-7.57)	7.62 (6.03-9.78)	8.76 (6.75-11.5)	9.96 (7.39-13.5)	11.2 (7.95-15.7)	13.0 (8.81-18.8)	14.3 (9.46-21.2)
24-hr	3.95 (3.28-4.73)	4.69 (3.90-5.63)	5.99 (4.96-7.22)	7.16 (5.89-8.68)	8.90 (7.11-11.4)	10.3 (8.04-13.5)	11.9 (8.89-16.0)	13.5 (9.68-18.9)	15.8 (10.9-22.9)	17.7 (11.8-26.0)
2-day	4.77 (3.98-5.67)	5.50 (4.59-6.55)	6.85 (5.70-8.19)	8.10 (6.69-9.74)	10.0 (8.08-12.8)	11.6 (9.13-15.1)	13.4 (10.1-18.0)	15.3 (11.1-21.3)	18.1 (12.6-26.0)	20.3 (13.7-29.6)
3-day	5.29 (4.43-6.26)	6.14 (5.14-7.28)	7.65 (6.38-9.10)	9.02 (7.48-10.8)	11.1 (8.96-14.1)	12.8 (10.1-16.5)	14.7 (11.1-19.5)	16.7 (12.1-23.0)	19.5 (13.6-27.9)	21.8 (14.7-31.6)
4-day	5.74 (4.82-6.78)	6.67 (5.60-7.89)	8.31 (6.94-9.85)	9.77 (8.11-11.7)	11.9 (9.64-15.0)	13.7 (10.8-17.6)	15.6 (11.9-20.7)	17.6 (12.8-24.2)	20.5 (14.3-29.2)	22.7 (15.4-32.9)
7-day	7.06 (5.95-8.28)	8.05 (6.78-9.46)	9.76 (8.18-11.5)	11.3 (9.39-13.4)	13.5 (10.9-16.8)	15.2 (12.1-19.4)	17.1 (13.1-22.5)	19.1 (14.0-26.1)	21.9 (15.4-31.0)	24.1 (16.5-34.7)
10-day	8.35 (7.05-9.76)	9.35 (7.89-10.9)	11.1 (9.30-13.0)	12.6 (10.5-14.8)	14.7 (12.0-18.2)	16.5 (13.1-20.8)	18.3 (14.0-23.9)	20.2 (14.9-27.4)	22.8 (16.2-32.2)	24.9 (17.2-35.8)
20-day	12.2 (10.3-14.1)	13.3 (11.3-15.5)	15.2 (12.9-17.7)	16.8 (14.1-19.7)	18.9 (15.4-23.0)	20.6 (16.4-25.6)	22.2 (17.1-28.6)	23.9 (17.7-31.9)	26.1 (18.6-36.2)	27.7 (19.3-39.5)
30-day	15.2 (13.0-17.6)	16.6 (14.1-19.2)	18.8 (16.0-21.9)	20.6 (17.4-24.1)	22.9 (18.7-27.6)	24.6 (19.6-30.3)	26.2 (20.2-33.4)	27.7 (20.6-36.8)	29.6 (21.2-40.8)	31.0 (21.7-43.9)
45-day	18.9 (16.2-21.8)	20.8 (17.7-23.9)	23.5 (20.0-27.2)	25.7 (21.7-29.8)	28.3 (23.1-33.9)	30.2 (24.1-36.9)	31.9 (24.7-40.3)	33.4 (24.9-43.9)	35.1 (25.2-47.9)	36.1 (25.5-51.0)
60-day	22.0 (18.8-25.2)	24.2 (20.7-27.8)	27.6 (23.5-31.7)	30.1 (25.5-34.9)	33.2 (27.1-39.5)	35.3 (28.3-42.9)	37.1 (28.8-46.7)	38.7 (28.9-50.6)	40.4 (29.1-54.9)	41.3 (29.3-58.2)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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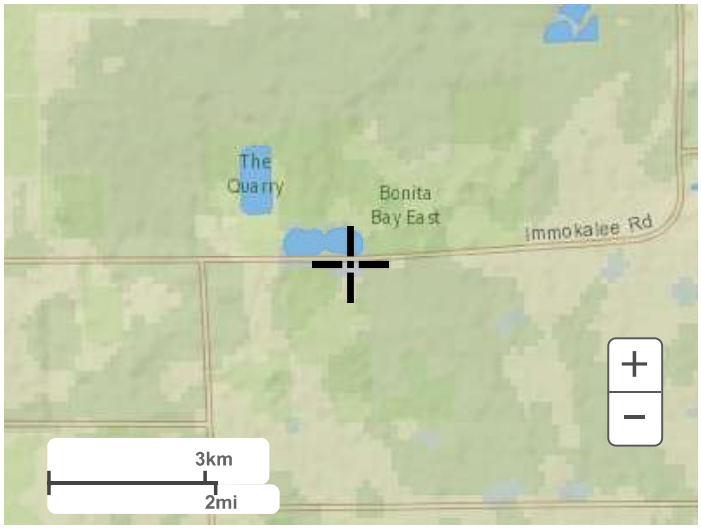
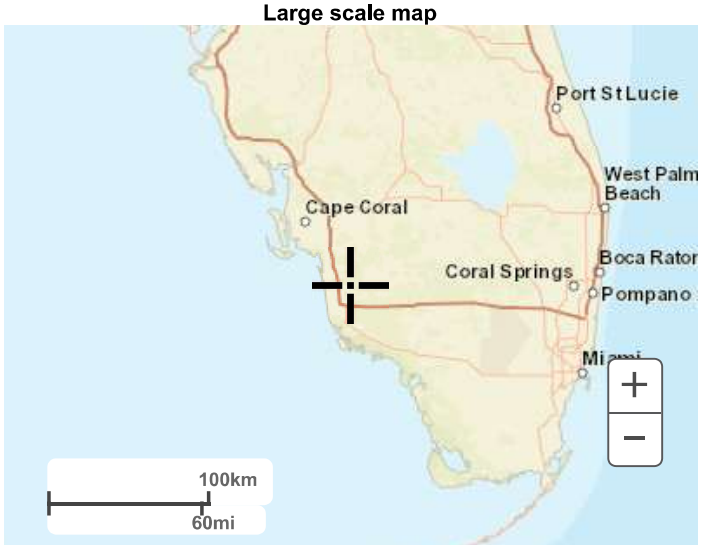
PF graphical



Large scale terrain

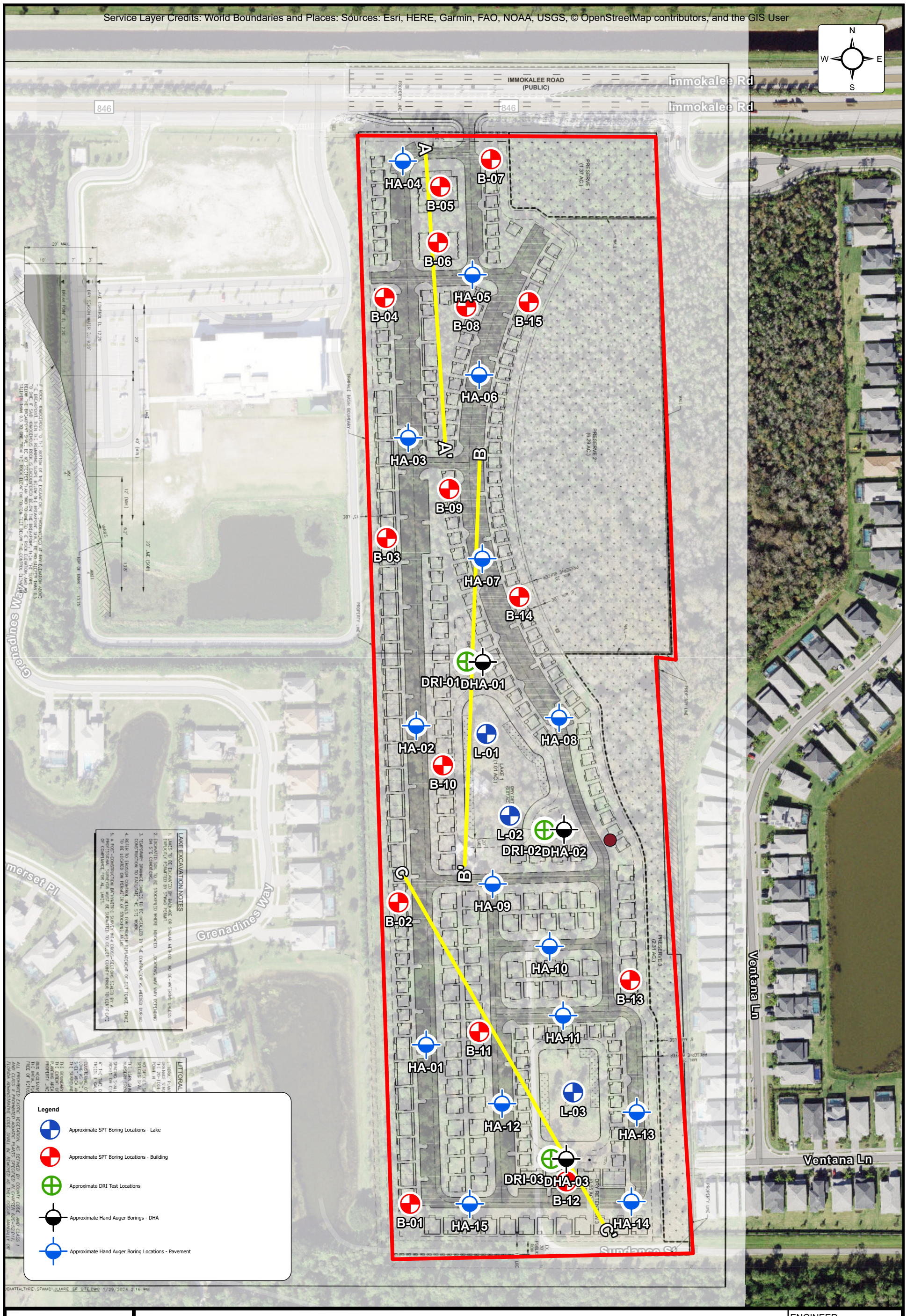
Large scale map



Large scale aerial

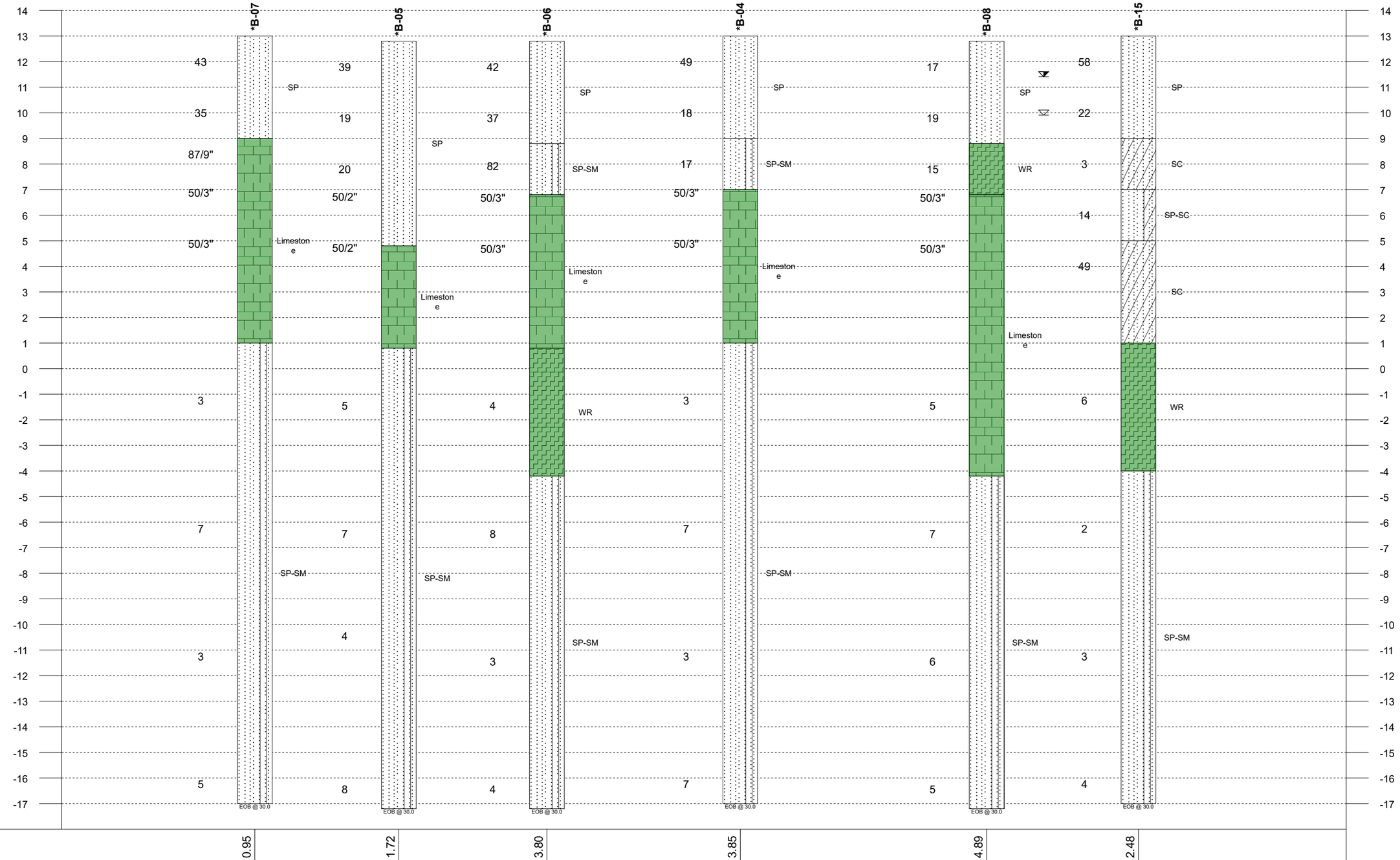
Modert Backup Information

Service Layer Credits: World Boundaries and Places: Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User



BORING LOCATION DIAGRAM
JLM Living East
2661 Sundance St, Naples, Florida
JLM Living

ENGINEER	TMD1
SCALE	1" = 200'
PROJECT NO.	60:2434
SHEET	2 of 2
DATE	3/11/2025



Legend Key

- Poorly Graded SAND
- Limestone
- Poorly Graded SAND w… CLAYEY SAND
- Weathered Rock
- Poorly Graded SAND w…

Notes:

1- EOB: END OF BORING AR: AUGER REFUSAL SR: SAMPLER REFUSAL.
2- THE NUMBER BELOW THE STRIPS IS THE DISTANCE ALONG THE BASELINE.
3- SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL INFORMATION.
4- STANDARD PENETRATION TEST RESISTANCE (LEFT OF BORING) IN BLOWS PER FOOT (ASTM D1586).

Plastic Limit Water Content Liquid Limit
X———●———△
[FINES CONTENT %]

BOTTOM OF CASING

LOSS OF CIRCULATION

WL (First Encountered)

WL (Completion)

WL (Seasonal High Water)

WL (Stabilized)

Fill

Possible Fill

Probable Fill

Rock

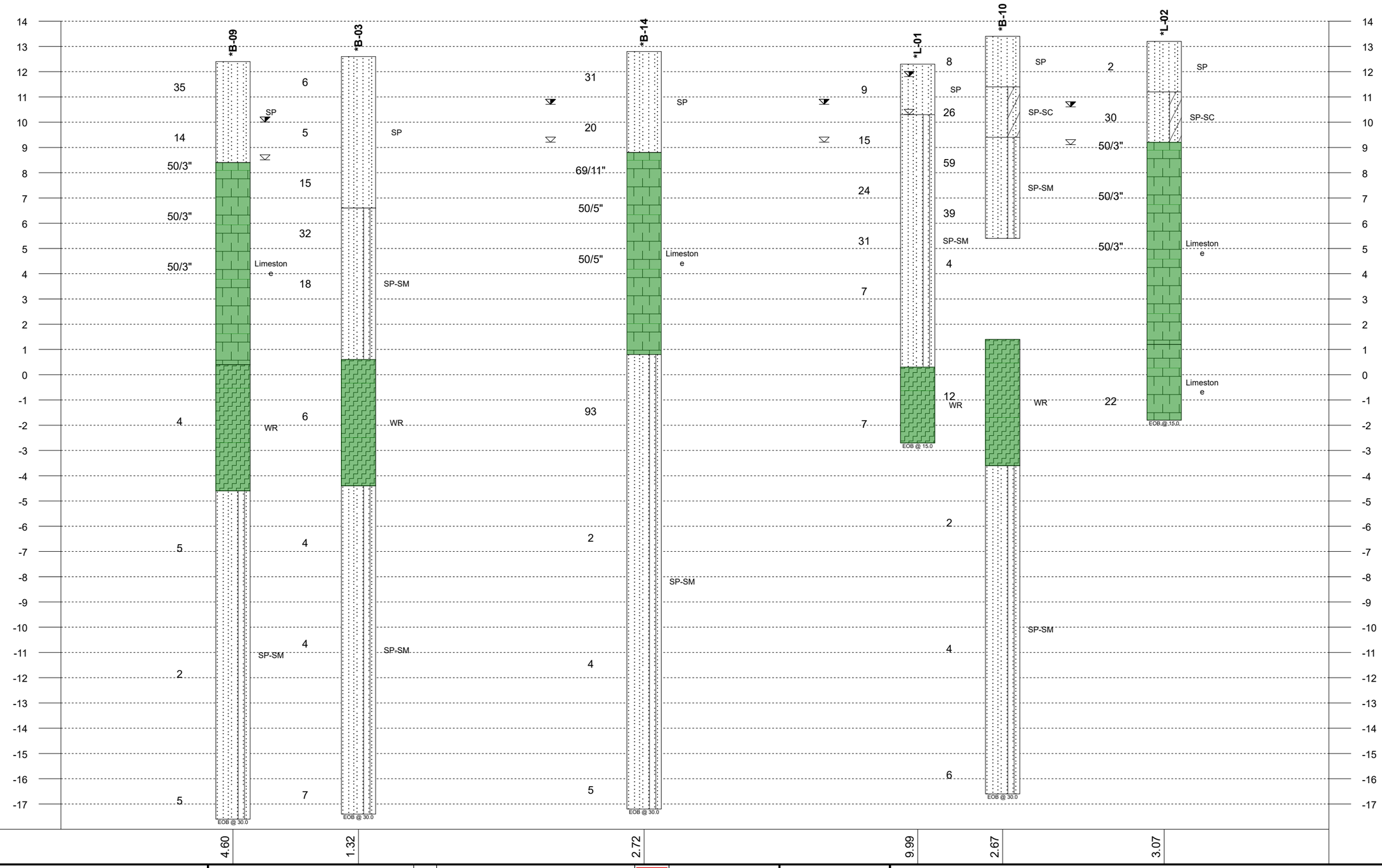
GENERALIZED SUBSURFACE SOIL PROFILE A-A'

JLM Living East Soil Borings

JLM Living

2661 Sundance St, Naples, Florida, 34120

Project No: 60:2434 Date: 03/13/2025



Legend Key

- Poorly Graded SAND
- Poorly Graded SAND w…
- Poorly Graded SAND w…
- Limestone
- Weathered Rock

Notes:

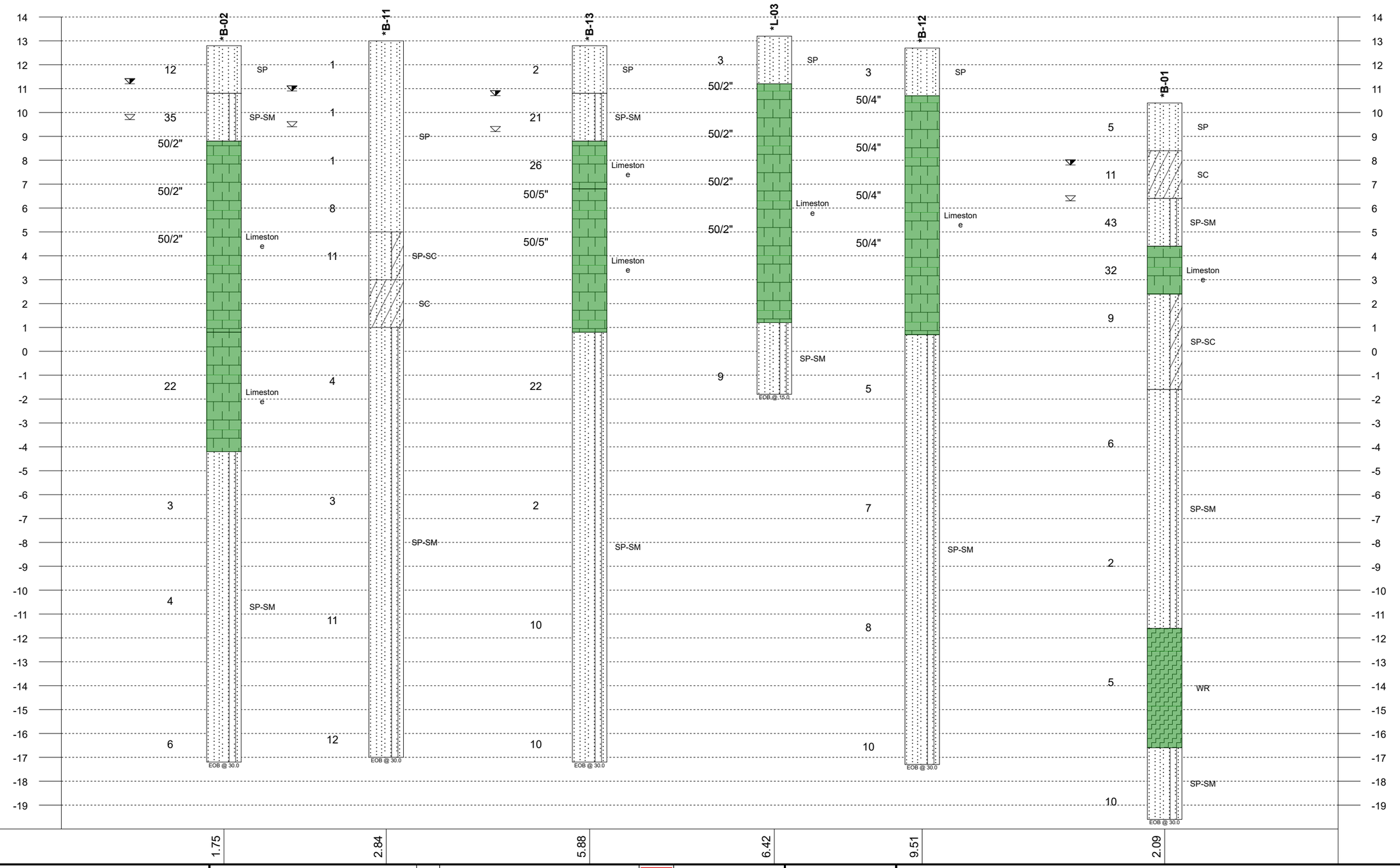
1- EOB: END OF BORING AR: AUGER REFUSAL SR: SAMPLER REFUSAL.
2- THE NUMBER BELOW THE STRIPS IS THE DISTANCE ALONG THE BASELINE.
3- SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL INFORMATION.
4- STANDARD PENETRATION TEST RESISTANCE (LEFT OF BORING) IN BLOWS PER FOOT (ASTM D1586).

Plastic Limit Water Content Liquid Limit X—●—△	WL (First Encountered)		Fill
[FINES CONTENT %]	WL (Completion)		Possible Fill
BOTTOM OF CASING	WL (Seasonal High Water)		Probable Fill
LOSS OF CIRCULATION	WL (Stabilized)		Rock

GENERALIZED SUBSURFACE SOIL PROFILE B-B'

JLM Living East Soil Borings
JLM Living
2661 Sundance St, Naples, Florida, 34120

Project No: 60:2434 Date: 03/13/2025



Legend Key

- Poorly Graded SAND
- Limestone
- Poorly Graded SAND w… CLAYEY SAND
- Poorly Graded SAND w… Weathered Rock

Notes:

1- EOB: END OF BORING AR: AUGER REFUSAL SR: SAMPLER REFUSAL.
2- THE NUMBER BELOW THE STRIPS IS THE DISTANCE ALONG THE BASELINE.
3- SEE INDIVIDUAL BORING LOG AND GEOTECHNICAL INFORMATION.
4- STANDARD PENETRATION TEST RESISTANCE (LEFT OF BORING) IN BLOWS PER FOOT (ASTM D1586).

Plastic Limit Water Content Liquid Limit
[FINES CONTENT %]

BOTTOM OF CASING

LOSS OF CIRCULATION

WL (First Encountered)

WL (Completion)

WL (Seasonal High Water)

WL (Stabilized)

Fill

Possible Fill

Probable Fill

Rock

GENERALIZED SUBSURFACE SOIL PROFILE C-C'

JLM Living East Soil Borings
JLM Living
2661 Sundance St, Naples, Florida, 34120

Project No: 60:2434 Date: 03/13/2025

Appendix B – Field Operations

Reference Notes
Exploration Procedures
Boring Logs
Infiltration/Permeability/Hydraulic Test Results

REFERENCE NOTES FOR BORING LOGS

MATERIAL[1,2]

		ASPHALT
		CONCRETE
		GRAVEL
		TOPSOIL
		VOID
		BRICK
		AGGREGATE BASE COURSE
	GW	WELL-GRADED GRAVEL gravel-sand mixtures, little or no fines
	GP	POORLY-GRADED GRAVEL gravel-sand mixtures, little or no fines
	GM	SILTY GRAVEL gravel-sand-silt mixtures
	GC	CLAYEY GRAVEL gravel-sand-clay mixtures
	SW	WELL-GRADED SAND gravelly sand, little or no fines
	SP	POORLY-GRADED SAND gravelly sand, little or no fines
	SM	SILTY SAND sand-silt mixtures
	SC	CLAYEY SAND sand-clay mixtures
	ML	SILT non-plastic to medium plasticity
	MH	ELASTIC SILT high plasticity
	CL	LEAN CLAY low to medium plasticity
	CH	FAT CLAY high plasticity
	OL	ORGANIC SILT or CLAY non-plastic to low plasticity
	OH	ORGANIC SILT or CLAY high plasticity
	PT	PEAT highly organic soils

DRILLING SAMPLING SYMBOLS & ABBREVIATIONS

SS	Split Spoon Sampler	PM	Pressuremeter Test
ST	Shelby Tube Sampler	RD	Rock Bit Drilling
WS	Wash Sample	RC	Rock Core, NX, BX, AX
BS	Bulk Sample of Cuttings	REC	Rock Sample Recovery %
PA	Power Auger (no sample)	RQD	Rock Quality Designation %
HSA	Hollow Stem Auger		

PARTICLE SIZE IDENTIFICATION

DESIGNATION		PARTICLE SIZES
Boulders		12 inches (300 mm) or larger
Cobbles		3 inches to 12 inches (75 mm to 300 mm)
Gravel:	Coarse	¾ inch to 3 inches (19 mm to 75 mm)
	Fine	4.75 mm to 19 mm (No. 4 sieve to ¾ inch)
Sand:	Coarse	2.00 mm to 4.75 mm (No. 10 to No. 4 sieve)
	Medium	0.425 mm to 2.00 mm (No. 40 to No. 10 sieve)
	Fine	0.074 mm to 0.425 mm (No. 200 to No. 40 sieve)
Silt & Clay ("Fines")		<0.074 mm (smaller than a No. 200 sieve)

COHESIVE SILTS & CLAYS

UNCONFINED COMPRESSIVE STRENGTH, Q_P[4]	SPT[5] (BPF)	CONSISTENCY[7] (COHESIVE)
<0.25	<2	Very Soft
0.25 - <0.50	2 - 4	Soft
0.50 - <1.00	5 - 8	Firm
1.00 - <2.00	9 - 15	Stiff
2.00 - <4.00	16 - 30	Very Stiff
4.00 - 8.00	31 - 50	Hard
>8.00	>50	Very Hard

GRAVELS, SANDS & NON-COHESIVE SILTS

SPT[5]	DENSITY
<5	Very Loose
5 - 10	Loose
11 - 30	Medium Dense
31 - 50	Dense
>50	Very Dense

RELATIVE AMOUNT[7]	COARSE GRAINED (%)[8]	FINE GRAINED (%)[8]
Trace	≤5	≤5
With	10 - 20	10 - 25
Adjective *(ex: "Silty")*	25 - 45	30 - 45

WATER LEVELS[6]

- WL (First Encountered)
- WL (Completion)
- WL (Seasonal High Water)
- WL (Stabilized)

FILL AND ROCK

FILL | POSSIBLE FILL | PROBABLE FILL | ROCK

[1]Classifications and symbols per ASTM D 2488-17 (Visual-Manual Procedure) unless noted otherwise.

[2]To be consistent with general practice, "POORLY GRADED" has been removed from GP, GP-GM, GP-GC, SP, SP-SM, SP-SC soil types on the boring logs.

[3]Non-ASTM designations are included in soil descriptions and symbols along with ASTM symbol [Ex: (SM-FILL)].

[4]Typically estimated via pocket penetrometer or Torvane shear test and expressed in tons per square foot (tsf).

[5]Standard Penetration Test (SPT) refers to the number of hammer blows (blow count) of a 140 lb. hammer falling 30 inches on a 2 inch OD split spoon sampler required to drive the sampler 12 inches (ASTM D 1586). "N-value" is another term for "blow count" and is expressed in blows per foot (bpf). SPT correlations per 7.4.2 Method B and need to be corrected if using an auto hammer.

[6]The water levels are those levels actually measured in the borehole at the times indicated by the symbol. The measurements are relatively reliable when augering, without adding fluids, in granular soils. In clay and cohesive silts, the determination of water levels may require several days for the water level to stabilize. In such cases, additional methods of measurement are generally employed.

[7]Minor deviation from ASTM D 2488-17 Note 14.

[8]Percentages are estimated to the nearest 5% per ASTM D 2488-17.

SUBSURFACE EXPLORATION PROCEDURE: STANDARD PENETRATION TESTING (SPT) ASTM D 1586 Split-Barrel Sampling

Standard Penetration Testing, or **SPT**, is the most frequently used subsurface exploration test performed worldwide. This test provides samples for identification purposes, as well as a measure of penetration resistance, or N-value. The N-Value, or blow counts, when corrected and correlated, can approximate engineering properties of soils used for geotechnical design and engineering purposes.

SPT Procedure:

- Involves driving a hollow tube (split-spoon) into the ground by dropping a 140-lb hammer a height of 30-inches at desired depth
- Recording the number of hammer blows required to drive split-spoon a distance of 18-24 inches (in 3 or 4 Increments of 6 inches each)

- Auger is advanced* and an additional SPT is performed
- One SPT typically performed for every two to five feet. An approximate 1.5 inch diameter soil sample is recovered.

**Drilling Methods May Vary*— The predominant drilling methods used for SPT are open hole fluid rotary drilling and hollow-stem auger drilling.

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-01**	**1 of 1**

PROJECT NAME:	DRILLER/CONTRACTOR:
JLM Living East Soil Borings	**Naples Well Drilling, Inc**

SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**

LOSS OF CIRCULATION

LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:	BOTTOM OF CASING
26.266367	**-81.660635**		**10.4**	

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, dark gray, moist, loose, trace roots			2-2-3-1 (5)
	S-2	SS	24	24	(SC) CLAYEY FINE SAND, tan, moist, medium dense, trace shell			2-3-8-16 (11)
5	S-3	SS	24	24	(SP-SM) FINE SAND WITH SILT, brownish tan, wet, dense		6	14-10-33-8 (43)
	S-4	SS	24	24	LIMESTONE, Moderately Hard, Tan, wet			9-22-10-11 (32)
	S-5	SS	24	24	(SP-SC) FINE SAND WITH CLAY, light gray, wet, loose, trace shell trace limestone		1	7-6-3-3 (9)
10								
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light tan, wet, very loose to loose, some shell, trace limestone		-4	2-3-3 (6)
15								
	S-7	SS	18	18			-9	1-1-1 (2)
20								
	S-8	SS	18	18	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, light gray, wet, loose [Weathered LIMESTONE]		-14	2-3-2 (5)
25								
	S-9	SS	18	18	(SP-SM) FINE SAND WITH SILT, light gray, wet, loose, some shell trace limestone		-19	5-5-5 (10)
30					**END OF BORING AT 30.0 FT**			

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT

LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **4.00**	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
WL (Completion)	BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water) **2.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-02**	**1 of 1**

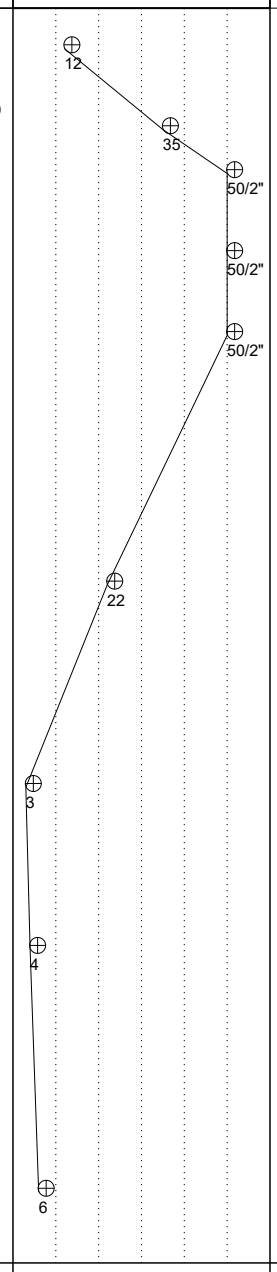
PROJECT NAME:	DRILLER/CONTRACTOR:
JLM Living East Soil Borings	**Naples Well Drilling, Inc**

SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**

LOSS OF CIRCULATION

LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:	BOTTOM OF CASING
26.268211	**-81.660725**		**12.8**	

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, dark brown, moist, medium dense, trace roots		2-5-7-8 (12)
	S-2	SS	24	24	(SP-SM) FINE SAND WITH SILT, tan, moist to wet, dense, trace limestone		14-9-26-49 (35)
5	S-3	SS	2	2	LIMESTONE, Hard, Tan, wet	8	50/2" (50/2")
	S-4	SS	2	2			50/2" (50/2")
	S-5	SS	2	2			50/2" (50/2")
10						3	
	S-6	SS	18	18	LIMESTONE, Moderately Hard, Light Gray, wet	-2	14-5-17 (22)
15							
	S-7	SS	18	18	(SP-SM) FINE SAND WITH SILT, tan, wet, very loose to loose, trace limestone	-7	2-2-1 (3)
20							
	S-8	SS	18	18			3-2-2 (4)
25						-12	
	S-9	SS	18	18			2-3-3 (6)
30					**END OF BORING AT 30.0 FT**	-17	



LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF
1 2 3 4 5
WATER CONTENT %
[FINES CONTENT] %
10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

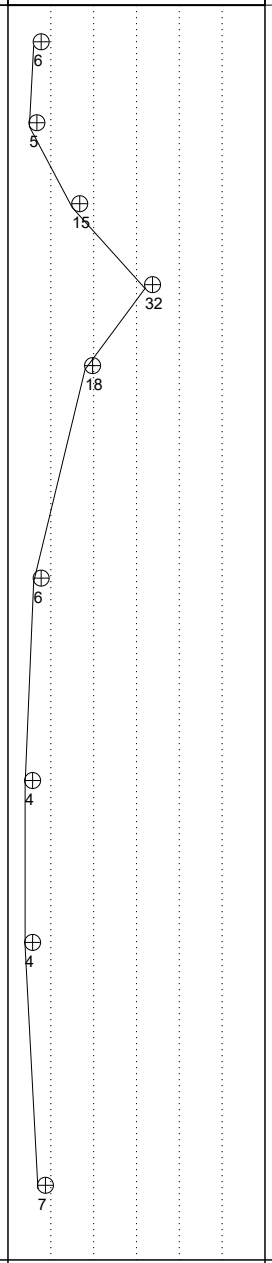
WL (First Encountered) **3.00**	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
WL (Completion)	BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water) **1.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-03**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION:			LOSS OF CIRCULATION
2661 Sundance St, Naples, Florida, 34120			
LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:
26.270443	**-81.660818**		**12.6**

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, dark brown, moist to wet, loose to medium dense, trace roots, trace limestone			1-1-5-11 (6)
	S-2	SS	24	24				3-2-3-9 (5)
5	S-3	SS	24	24			8	2-4-11-8 (15)
	S-4	SS	24	24	(SP-SM) FINE SAND WITH SILT, dark gray, wet, medium dense to dense, some limestone			3-7-25-24 (32)
	S-5	SS	24	24			3	31-9-9-6 (18)
10								
					(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, light tannish brown, wet, loose [Weathered LIMESTONE]			
	S-6	SS	18	18			-2	2-2-4 (6)
15								
					(SP-SM) FINE SAND WITH SILT, light gray, wet, very loose to loose, trace limestone			
	S-7	SS	18	18			-7	1-2-2 (4)
20								
	S-8	SS	18	18				2-2-2 (4)
25							-12	
	S-9	SS	18	18			-17	3-4-3 (7)
30					**END OF BORING AT 30.0 FT**			

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



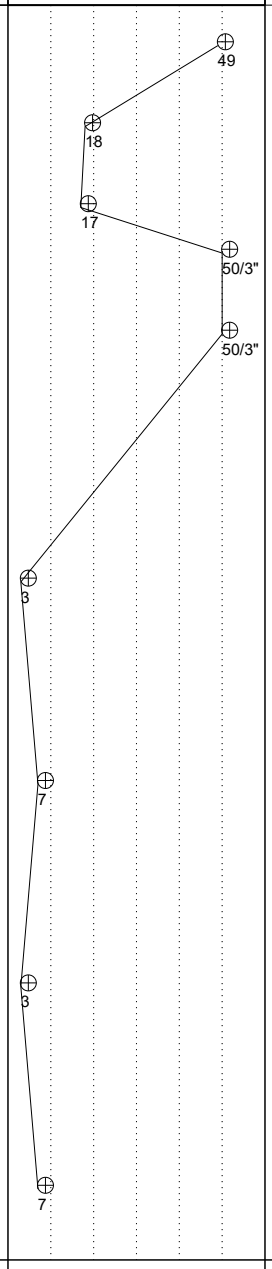
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

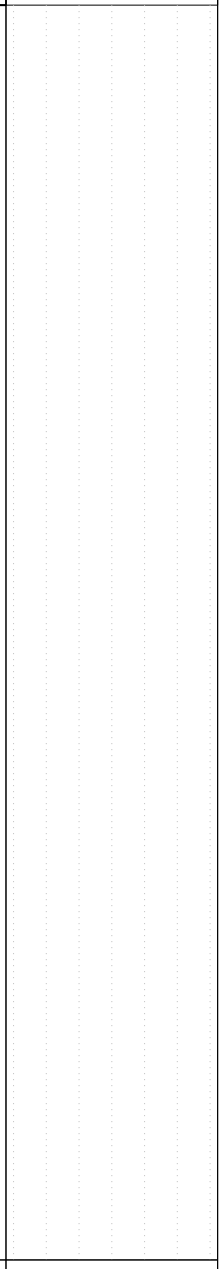
WL (First Encountered) **4.00**	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
WL (Completion)	BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water) **2.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-04**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.271915**	LONGITUDE: **-81.660843**	STATION:	SURFACE ELEVATION: **13.0**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, brownish tan, moist, medium dense to dense, trace roots trace limestone			8-21-28-8 (49)
	S-2	SS	24	24				5-7-11-8 (18)
5	S-3	SS	24	24	(SP-SM) FINE SAND WITH SILT, brown, wet, medium dense, trace limestone		8	6-9-8-10 (17)
	S-4	SS	3	3	LIMESTONE, Hard, Tan, wet			50/3" (50/3")
	S-5	SS	3	3				50/3" (50/3")
10							3	
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light tan, wet, very loose to loose, some limestone			2-2-1 (3)
15							-2	
	S-7	SS	18	18				3-4-3 (7)
20							-7	
	S-8	SS	18	18				2-1-2 (3)
25							-12	
	S-9	SS	18	18				3-3-4 (7)
30					**END OF BORING AT 30.0 FT**		-17	





THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

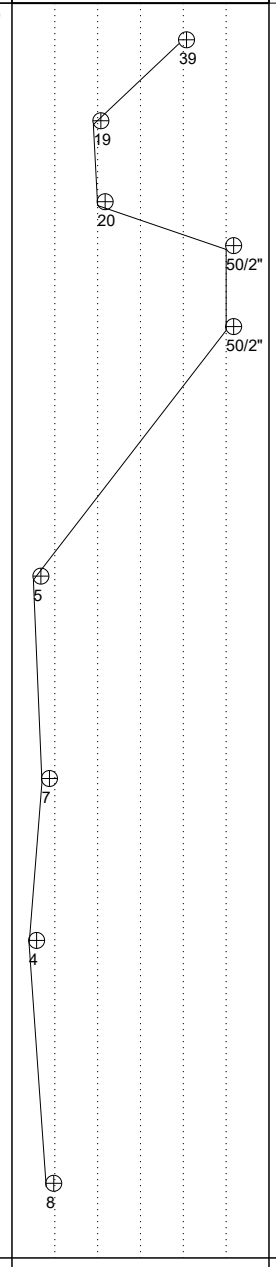
▽ WL (First Encountered)	BORING STARTED: **Feb 24 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 24 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-05**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.272594**	LONGITUDE: **-81.660467**	STATION:	SURFACE ELEVATION: **12.8**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, light brown, moist to wet, medium dense to very dense, trace roots, trace limestone			7-20-19-10 (39)
	S-2	SS	24	24				7-10-9-6 (19)
5	S-3	SS	24	24			8	9-12-8-9 (20)
	S-4	SS	2	2				50/2" (50/2")
	S-5	SS	2	2				50/2" (50/2")
10					LIMESTONE, Hard, Tan, wet		3	
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light tan, wet, very loose to loose, trace shell, some limestone		-2	3-2-3 (5)
15								
	S-7	SS	18	18			-7	4-4-3 (7)
20								
	S-8	SS	18	18				2-2-2 (4)
25							-12	
	S-9	SS	18	18				4-4-4 (8)
30					**END OF BORING AT 30.0 FT**		-17	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



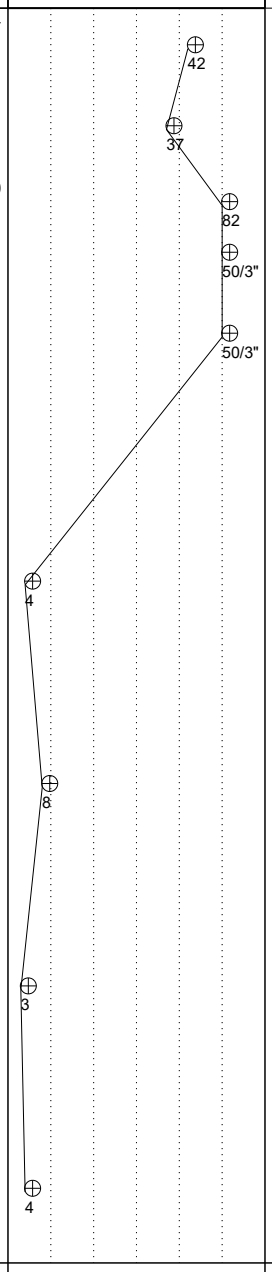
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

▽ WL (First Encountered)	BORING STARTED: **Feb 24 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 24 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-06**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.272255**	LONGITUDE: **-81.660481**	STATION:	SURFACE ELEVATION: **12.8**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, dark brown, moist, dense, trace limestone		12-22-20-14 (42)
	S-2	SS	24	24			6-18-19-28 (37)
5	S-3	SS	21	21	(SP-SM) FINE SAND WITH SILT, tan, wet, very dense, trace shell trace limestone	8	12-40-42-50 /3" (82)
	S-4	SS	3	3	LIMESTONE, Hard, Dark Gray, wet		50/3" (50/3")
	S-5	SS	3	3			50/3" (50/3")
10						3	
	S-6	SS	18	18	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, dark gray, wet, very loose [Weathered LIMESTONE]	-2	2-2-2 (4)
15							
	S-7	SS	18	18	(SP-SM) FINE SAND WITH SILT, light tan, wet, very loose to loose, some limestone	-7	4-4-4 (8)
20							
	S-8	SS	18	18		-12	1-2-1 (3)
25							
	S-9	SS	18	18		-17	2-2-2 (4)
30					**END OF BORING AT 30.0 FT**		



LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF
1 2 3 4 5
WATER CONTENT %
[FINES CONTENT] %
10 20 30 40 50

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

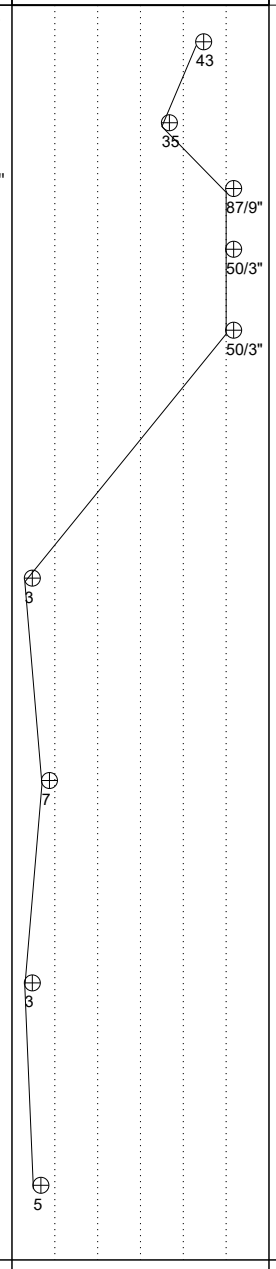
▽ WL (First Encountered)	BORING STARTED: **Feb 24 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 24 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-07**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.272764**	LONGITUDE: **-81.660124**	STATION:	SURFACE ELEVATION: **13.0**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, gray, moist, dense, trace roots trace limestone			10-19-24-8 (43)
	S-2	SS	24	24				9-21-14-7 (35)
5	S-3	SS	15	15	LIMESTONE, Dark Gray, wet		8	14-37-50/3" (87/9")
	S-4	SS	3	3				50/3" (50/3")
	S-5	SS	3	3				50/3" (50/3")
10							3	
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light gray, wet, very loose to loose, trace shell, some limestone			2-1-2 (3)
15							-2	
	S-7	SS	18	18				2-3-4 (7)
20							-7	
	S-8	SS	18	18				2-2-1 (3)
25							-12	
	S-9	SS	18	18				4-2-3 (5)
30					**END OF BORING AT 30.0 FT**		-17	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

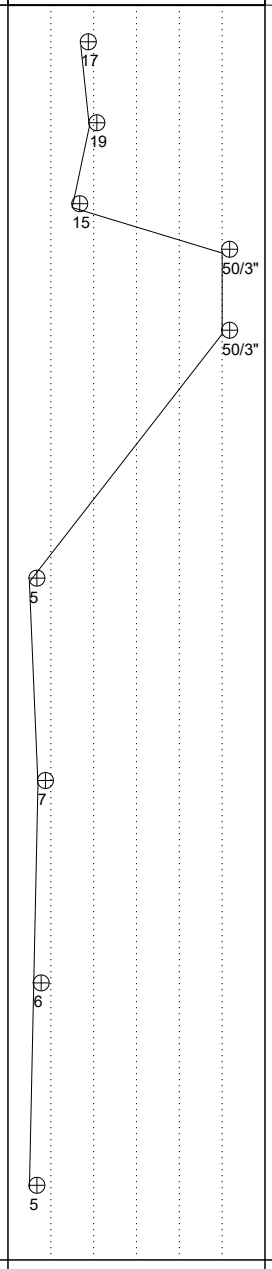
▽ WL (First Encountered)	BORING STARTED: **Feb 24 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 24 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-08**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.271860**	LONGITUDE: **-81.660285**	STATION:	SURFACE ELEVATION: **12.8**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, dark gray, moist, medium dense, trace roots			6-11-6-6 (17)
	S-2	SS	24	24				12-11-8-7 (19)
5	S-3	SS	24	24	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, tan, wet, medium dense [Weathered LIMESTONE]		8	3-3-12-16 (15)
	S-4	SS	3	3				50/3" (50/3")
	S-5	SS	3	3	LIMESTONE, Hard, Tan, wet			50/3" (50/3")
10							3	
15	S-6	SS	18	18			-2	4-2-3 (5)
					(SP-SM) FINE SAND WITH SILT, light gray, wet, loose, some limestone			
20	S-7	SS	18	18			-7	4-3-4 (7)
25	S-8	SS	18	18			-12	1-4-2 (6)
30	S-9	SS	18	18			-17	3-3-2 (5)
					END OF BORING AT 30.0 FT			

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



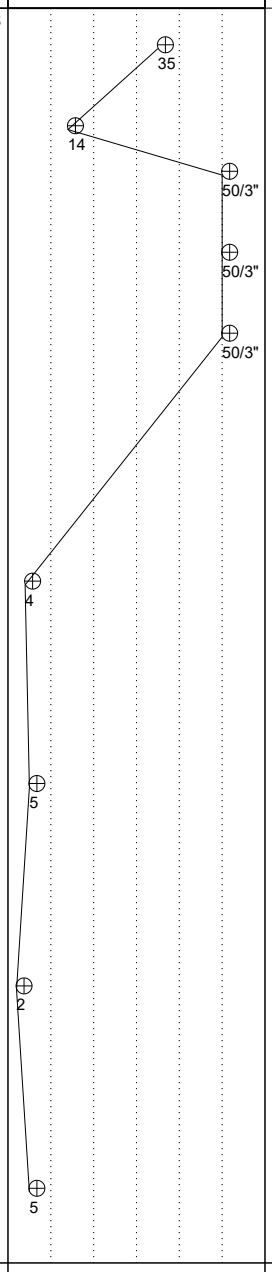
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

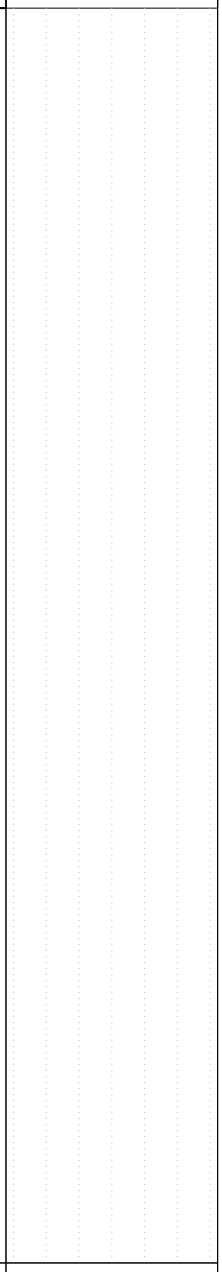
▽ WL (First Encountered)	BORING STARTED: **Feb 24 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 24 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-09**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.270744**	LONGITUDE: **-81.660396**	STATION:	SURFACE ELEVATION: **12.4**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, light brown, moist to wet, medium dense to dense, trace roots, trace limestone	8	10-14-21-18 (35)
	S-2	SS	24	24			11-5-9-12 (14)
5	S-3	SS	3	3	LIMESTONE, Hard, Brown, wet		50/3" (50/3")
	S-4	SS	3	3		3	50/3" (50/3")
	S-5	SS	3	3			50/3" (50/3")
10						-2	
15	S-6	SS	18	18	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, brown, wet, very loose [Weathered LIMESTONE]		2-2-2 (4)
	S-7	SS	18	18	(SP-SM) FINE SAND WITH SILT, light gray, wet, very loose to loose, trace limestone	-7	2-3-2 (5)
20							
25	S-8	SS	18	18		-12	2-1-1 (2)
	S-9	SS	18	18		-17	2-2-3 (5)
30					**END OF BORING AT 30.0 FT**		





THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

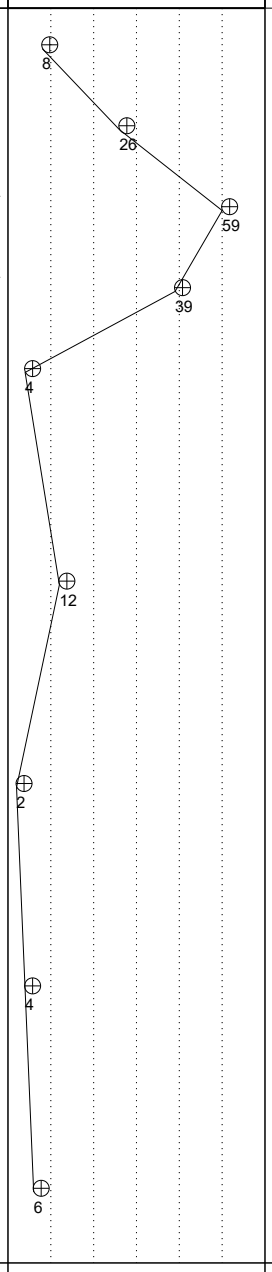
▽ WL (First Encountered)	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

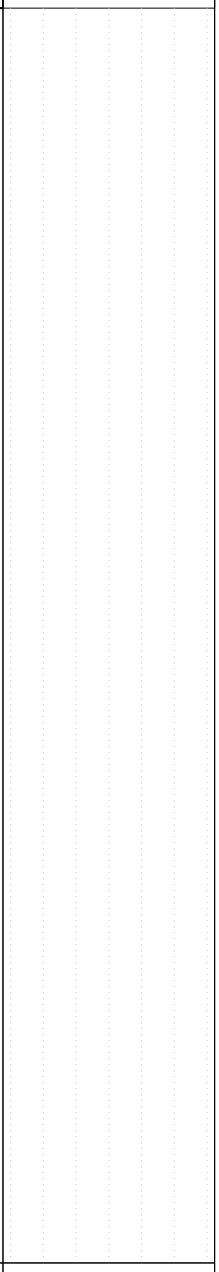
GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-10**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION:			LOSS OF CIRCULATION
2661 Sundance St, Naples, Florida, 34120			
LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:
26.269052	**-81.660428**		**13.4**

BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) SAND, dark gray, moist, loose, trace roots			2-3-5-3 (8)
	S-2	SS	24	24	(SP-SC) FINE SAND WITH CLAY, brownish tan, moist to wet, medium dense, trace limestone			2-9-17-21 (26)
5	S-3	SS	24	24	(SP-SM) FINE SAND WITH SILT, tannish gray, wet, dense to very dense, some limestone		9	12-39-20-11 (59)
	S-4	SS	24	24				41-25-14-22 (39)
10	S-5	SS	24	24	No sample collected		4	4-2-2-2 (4)
15	S-6	SS	18	18	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, light gray, wet, medium dense [Weathered LIMESTONE]		-1	12-3-9 (12)
20	S-7	SS	18	18	(SP-SM) FINE SAND WITH SILT, tan, wet, very loose to loose, some limestone		-6	1-1-1 (2)
25	S-8	SS	18	18			-11	1-2-2 (4)
30	S-9	SS	18	18			-16	3-4-2 (6)
					END OF BORING AT 30.0 FT			





THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **3.00**	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
WL (Completion)	BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water) **1.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-11**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION:			LOSS OF CIRCULATION
2661 Sundance St, Naples, Florida, 34120			
LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:
26.267422	**-81.660174**		**13.0**

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, dark brown to gray, moist to wet, very loose to loose, trace roots	▼	13	WOH-1-WOH-WOH (1)
	S-2	SS	24	24		▽		WOH-1-WOH-1 (1)
5	S-3	SS	24	24			8	WOH-WOH-1-WOH (1)
	S-4	SS	24	24				5-4-4-3 (8)
	S-5	SS	24	24	(SP-SC) FINE SAND WITH CLAY, grayish brown, wet, medium dense			4-5-6-6 (11)
10					(SC) CLAYEY FINE SAND, grayish brown, wet, medium dense		3	
					(SP-SM) FINE SAND WITH SILT, light tan, wet, very loose to medium dense, some limestone, trace shell			
	S-6	SS	18	18				2-2-2 (4)
15							-2	
	S-7	SS	18	18				2-1-2 (3)
20							-7	
	S-8	SS	18	18				2-8-3 (11)
25							-12	
	S-9	SS	18	18				5-6-6 (12)
30					**END OF BORING AT 30.0 FT**		-17	

STANDARD PENETRATION BLOWS/FT: 10 20 30 40 50 | 20 40 60 80 100
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT: 10 20 30 40 50
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF: 1 2 3 4 5
WATER CONTENT %
[FINES CONTENT] %: 10 20 30 40 50

61.1
[6.4%]

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

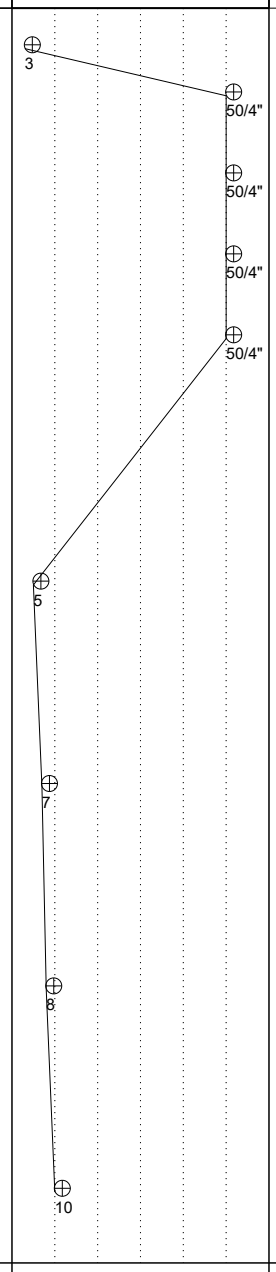
▽ WL (First Encountered) **3.50**	BORING STARTED: **Feb 20 2025**	CAVE IN DEPTH:	
▼ WL (Completion)	BORING COMPLETED: **Feb 20 2025**	HAMMER TYPE: **Auto**	
▽ WL (Seasonal High Water) **2.00**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-12**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.266507**	LONGITUDE: **-81.659576**	STATION:	SURFACE ELEVATION: **12.7**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, tan, moist, very loose, trace roots			1-1-2-4 (3)
	S-2	SS	4	4	LIMESTONE, Hard, Tan, wet			50/4" (50/4")
	S-3	SS	4	4			8	50/4" (50/4")
5	S-4	SS	4	4				50/4" (50/4")
	S-5	SS	4	4			3	50/4" (50/4")
10								
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light gray, wet, loose, trace limestone		-2	2-2-3 (5)
15								
	S-7	SS	18	18			-7	5-4-3 (7)
20								
	S-8	SS	18	18			-12	7-4-4 (8)
25								
	S-9	SS	18	18			-17	6-5-5 (10)
30					**END OF BORING AT 30.0 FT**			

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT
LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

▽ WL (First Encountered)	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

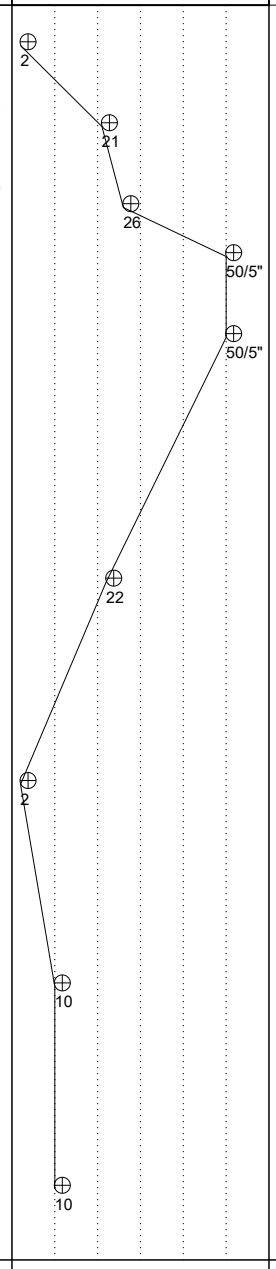
GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-13**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.267742**	LONGITUDE: **-81.659149**	STATION:	SURFACE ELEVATION: **12.8**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, dark brown, moist, very loose, trace roots			1-1-1-3 (2)
	S-2	SS	24	24	(SP-SM) FINE SAND WITH SILT, light gray, moist to wet, medium dense, trace limestone	▽		17-7-14-26 (21)
5	S-3	SS	24	24	LIMESTONE, Moderately Hard, Light Tan, wet		8	19-9-17-20 (26)
	S-4	SS	5	5	LIMESTONE, Hard, Light Tan, wet			50/5" (50/5")
	S-5	SS	5	5				50/5" (50/5")
10							3	
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light gray, wet, very loose to medium dense, some limestone			10-9-13 (22)
15							-2	
	S-7	SS	18	18				1-1-1 (2)
20							-7	
	S-8	SS	18	18				5-4-6 (10)
25							-12	
	S-9	SS	18	18				4-5-5 (10)
30					**END OF BORING AT 30.0 FT**		-17	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50)
ROCK QUALITY DESIGNATION & RECOVERY (20 40 60 80 100)
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT

LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



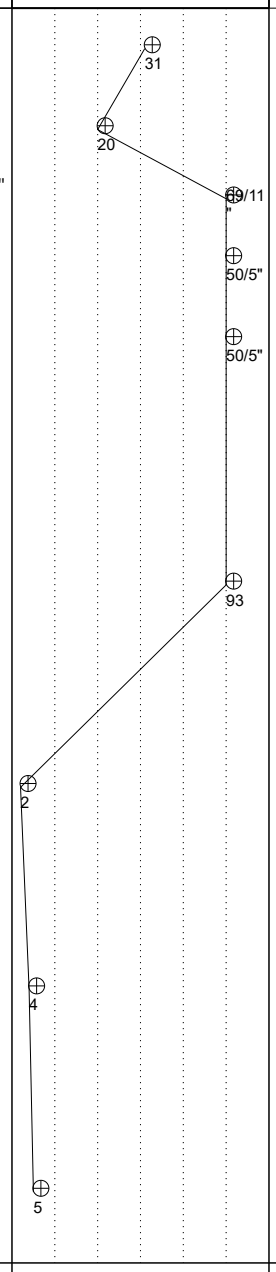
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

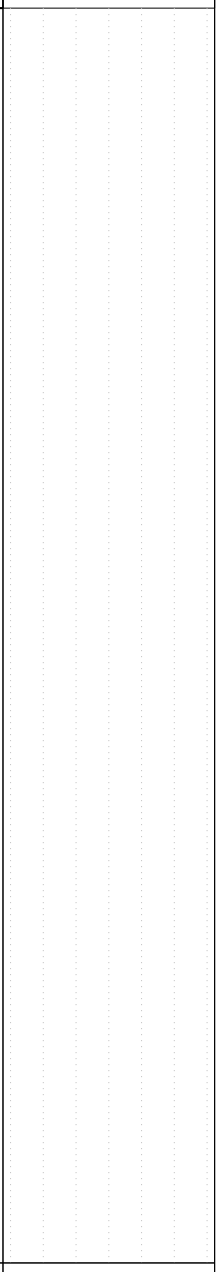
▽ WL (First Encountered) **3.50**	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
▽ WL (Seasonal High Water) **2.00**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-14**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.270087**	LONGITUDE: **-81.659916**	STATION:	SURFACE ELEVATION: **12.8**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, dark gray, moist to wet, medium dense to dense, trace roots			10-22-9-9 (31)
	S-2	SS	24	24				13-11-9-8 (20)
5	S-3	SS	17	17	LIMESTONE, Hard, Tan, wet		8	10-19-50/5" (69/11")
	S-4	SS	5	5				50/5" (50/5")
	S-5	SS	5	5				50/5" (50/5")
10							3	
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, brownish gray to light gray, wet, very loose to very dense, trace limestone trace shell			10-45-48 (93)
15							-2	
	S-7	SS	18	18				1-1-1 (2)
20							-7	
	S-8	SS	18	18				2-2-2 (4)
25							-12	
	S-9	SS	18	18				2-3-2 (5)
30					**END OF BORING AT 30.0 FT**		-17	





THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered) **3.50**	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
WL (Completion)	BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water) **2.00**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)			

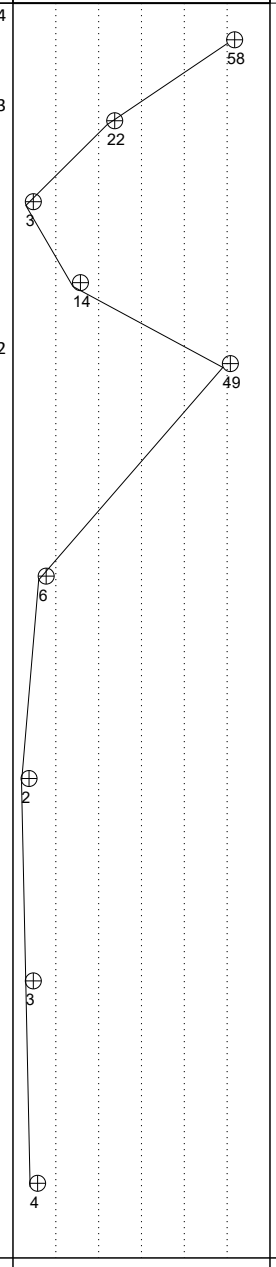
GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**B-15**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.271891**	LONGITUDE: **-81.659863**	STATION:	SURFACE ELEVATION: **13.0**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
	S-1	SS	24	24	(SP) FINE SAND, brownish tan, moist to wet, medium dense to very dense, trace roots	▼		36-24-34-34 (58)
	S-2	SS	24	24	trace limestone	▽		13-10-12-13 (22)
5	S-3	SS	24	24	(SC) CLAYEY FINE SAND, light brown, wet, very loose, trace limestone		8	2-2-1-2 (3)
	S-4	SS	24	24	(SP-SC) FINE SAND WITH CLAY, light brown, wet, medium dense, some limestone			8-12-2-7 (14)
	S-5	SS	24	24	(SC) CLAYEY FINE SAND, light brown, wet, dense, trace limestone			13-31-18-32 (49)
10							3	
					(WR) WEATHERED LIMESTONE SAMPLED AS SILTY FINE SAND, light gray, wet, loose, trace shell [Weathered LIMESTONE]			
	S-6	SS	18	18				4-2-4 (6)
15							-2	
					(SP-SM) FINE SAND WITH SILT, light gray, wet, very loose, some limestone, trace shell			
	S-7	SS	18	18				1-1-1 (2)
20							-7	
	S-8	SS	18	18				2-2-1 (3)
25							-12	
	S-9	SS	18	18				2-2-2 (4)
30					**END OF BORING AT 30.0 FT**		-17	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT

LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

▽ WL (First Encountered) **3.00**	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water) **1.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**DHA-01**	**11.3**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.269687**	LONGITUDE: **-81.660160**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
	▽		(SP) FINE SAND, dark gray, moist to wet	E		S-1		
				E		S-2		
				E		S-3		
			(SP-SC) FINE SAND WITH CLAY, grayish tan, wet	E		S-5		
		7	(SC) CLAYEY FINE SAND, gray, wet, trace roots	E		S-4		
5			**END OF HAND AUGER AT 5.0 FT**	E				
		2						
10								
		-3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **3.00**	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Mar 05 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**DHA-02**	**13.4**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.268662**	LONGITUDE: **-81.659603**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
	▽		(SP) FINE SAND, dark gray, moist to wet	E		S-1		
				E		S-2		
				E		S-3		
				E		S-4		
5		9	(SC) CLAYEY FINE SAND, gray, wet, trace roots	E		S-5		
				E				
			END OF HAND AUGER AT 6.0 FT					
		4						
10								
		-1						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **3.00**	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Mar 06 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**DHA-03**	**13**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.266645**	LONGITUDE: **-81.659576**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
	▽		(SP) FINE SAND, tannish gray, moist to wet, trace roots	E		S-1		
				E		S-2		
				E		S-3		
			(SC) CLAYEY FINE SAND, gray, wet	E		S-4		
				E		S-5		
5		8	**END OF HAND AUGER AT 5.0 FT**	E				
10		3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **3.00**	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Mar 10 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-01**	**13**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.267338**	LONGITUDE: **-81.660533**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light tannish brown, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
5		8						
10		3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-02**	**13.1**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.269293**	LONGITUDE: **-81.660611**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light brown, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
		9						
5								
		4						
10								
		-1						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 21 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-03**	**12.3**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.271056**	LONGITUDE: **-81.660675**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND WITH GRAVEL, tan, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
		8						
5								
		3						
10								
		-2						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 21 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-04**	**11.3**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.272749**	LONGITUDE: **-81.660722**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, dark gray, moist	E		S-1	4	51.3
			BUCKET REFUSAL AT 2.0 FT					
5		7						
10		2						
15		-3						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 24 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-05**	**12.8**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.272056**	LONGITUDE: **-81.660246**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP-SC) FINE SAND WITH CLAY, dark gray, moist, trace limestone, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
5		8						
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 24 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-06**	**12.5**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.271445**	LONGITUDE: **-81.660194**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, tan, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
5		8						
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 21 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-07**	**13**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.270317**	LONGITUDE: **-81.660169**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, dark gray, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
5		8						
10		3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 21 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-08**	**12.3**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.269347**	LONGITUDE: **-81.659641**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light brown, moist, trace roots	E				
	▽		(SP-SC) FINE SAND WITH CLAY, tannish brown, moist to wet, trace limestone	E				
	▽	8		E				
5								
			END OF HAND AUGER AT 6.0 FT					
		3						
10								
		-2						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **4.00**	▽ WL (Seasonal High) **2.50**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▽ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-09**	**13**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.268327**	LONGITUDE: **-81.660087**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light brown, moist, trace roots	E				
	▽		(SC) CLAYEY FINE SAND, light brown, moist to wet, trace limestone	E				
5	▼	8		E				
			END OF HAND AUGER AT 6.0 FT					
10		3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **4.00**	▼ WL (Seasonal High) **2.50**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-10**	**12.7**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.267947**	LONGITUDE: **-81.659697**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
5	▽ ▼	8	(SP) FINE SAND, dark, moist to wet, trace roots	E E E				
			END OF HAND AUGER AT 6.0 FT					
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **3.50**	▼ WL (Seasonal High) **2.00**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-11**	**12.8**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.267523**	LONGITUDE: **-81.659602**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
5	▽ ▽	8	(SP) FINE SAND, dark gray, moist to wet, trace roots	E E E				
			END OF HAND AUGER AT 6.0 FT					
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **3.50**	▼ WL (Seasonal High) **2.00**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-12**	**12.7**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.266981**	LONGITUDE: **-81.660014**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light brown, moist, trace roots	E				
			BUCKET REFUSAL AT 2.0 FT					
5		8						
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered)	▼ WL (Seasonal High)	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-13**	**13.2**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.266934**	LONGITUDE: **-81.659100**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
	▽		(SP) FINE SAND, tan, moist, trace roots	E				
				M				
	▽	9	**BUCKET REFUSAL AT 4.0 FT**					
5								
		4						
10								
		-1						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **4.00**	▼ WL (Seasonal High) **2.50**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-14**	**12.7**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.266387**	LONGITUDE: **-81.659133**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
			(SP) FINE SAND, light brown, moist, trace roots	E				
	▼		(SP-SC) FINE SAND WITH CLAY, light brown, moist, trace limestone	M				
	▽		**BUCKET REFUSAL AT 4.0 FT**					
5		8						
10		3						
15		-2						

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **4.00**	▼ WL (Seasonal High) **2.50**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	SHEET:
JLM Living	**60:2434**	**1 of 1**
PROJECT NAME:	HAND AUGER NO.:	SURFACE ELEVATION:
JLM Living East Soil Borings	**HA-15**	**12.9**
SITE LOCATION:		STATION:
2661 Sundance St, Naples, Florida, 34120		
LATITUDE: **26.266368**	LONGITUDE: **-81.660232**	

DEPTH (FT)	WATER LEVELS	ELEVATION (FT)	DESCRIPTION OF MATERIAL	EXCAVATION EFFORT	DCP	SAMPLE NUMBER	FINES CONTENT (%)	MOISTURE CONTENT (%)
5	▽ ▼	8	(SP) FINE SAND, dark gray, moist to wet, trace roots	E E E				
			END OF HAND AUGER AT 6.0 FT					
10		3						
15								

REMARKS:

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

EXCAVATION EFFORT: E - EASY M - MEDIUM D - DIFFICULT VD - VERY DIFFICULT

▽ WL (First Encountered) **4.00**	▼ WL (Seasonal High) **2.50**	ECS REP:	DATE COMPLETED:	UNITS:	CAVE-IN-DEPTH:
▼ WL (Completion)			**Feb 20 2025**	**English**	

HAND AUGER LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**L-01**	**1 of 1**

PROJECT NAME:	DRILLER/CONTRACTOR:
JLM Living East Soil Borings	**Naples Well Drilling, Inc**

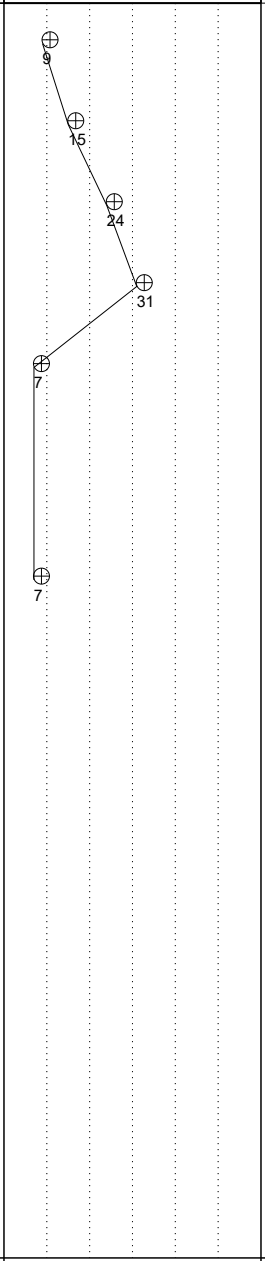
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**

LOSS OF CIRCULATION

LATITUDE:	LONGITUDE:	STATION:	SURFACE ELEVATION:	BOTTOM OF CASING
26.269246	**-81.660133**		**12.3**	

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) SAND, dark gray, moist, loose, trace roots	▼	12.3	3-4-5-5 (9)
	S-2	SS	24	24	(SP-SM) FINE SAND WITH SILT, tan, moist to wet, loose to dense, some limestone	▽		2-5-10-8 (15)
5	S-3	SS	24	24			8	13-15-9-10 (24)
	S-4	SS	24	24				22-19-12-15 (31)
	S-5	SS	24	24			3	5-4-3-3 (7)
10								
	S-6	SS	18	18	(WR) WEATHERED LIMESTONE SAMPLED AS FINE SAND WITH SILT, gray, wet, loose [Weathered LIMESTONE]		-2	4-4-3 (7)
15					**END OF BORING AT 15.0 FT**			
20							-7	
25							-12	
30							-17	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT



LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

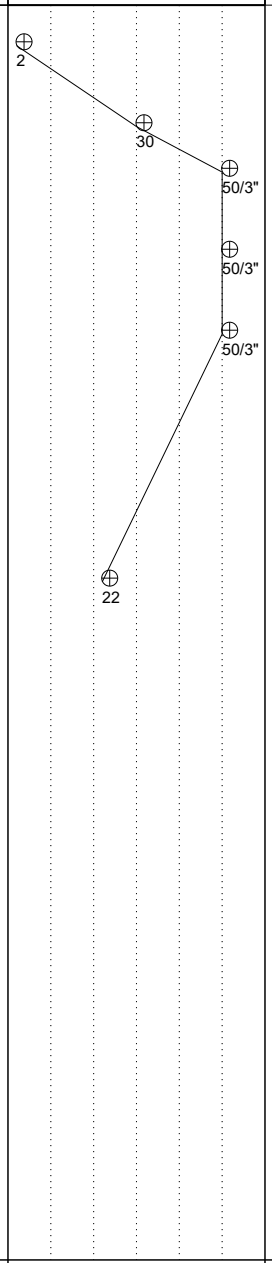
▽ WL (First Encountered)	**3.00**	BORING STARTED: **Feb 21 2025**		CAVE IN DEPTH:
▼ WL (Completion)		BORING COMPLETED: **Feb 21 2025**		HAMMER TYPE: **Auto**
▼▽ WL (Seasonal High Water)	**1.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽▽ WL (Stabilized)				

GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**L-02**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.268746**	LONGITUDE: **-81.659972**	STATION:	SURFACE ELEVATION: **13.2**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, dark brown, moist, very loose, trace roots		1-1-1-6 (2)
	S-2	SS	24	24	(SP-SC) FINE SAND WITH CLAY, light gray, moist, medium dense, trace limestone		14-4-26-29 (30)
5	S-3	SS	3	3	LIMESTONE, Hard, Tan, wet	9	50/3" (50/3")
	S-4	SS	3	3			50/3" (50/3")
	S-5	SS	3	3		4	50/3" (50/3")
10							
	S-6	SS	18	18	LIMESTONE, Moderately Hard, Light Gray, wet	-1	19-6-16 (22)
15					**END OF BORING AT 15.0 FT**		
20						-6	
25						-11	
30						-16	

STANDARD PENETRATION BLOWS/FT (10 20 30 40 50 / 20 40 60 80 100)
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT (10 20 30 40 50)
TEXAS CONE PENETRATION BLOWS/FT



LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF (1 2 3 4 5)
WATER CONTENT %
[FINES CONTENT] % (10 20 30 40 50)

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

WL (First Encountered)	**4.00**	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
WL (Completion)		BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
WL (Seasonal High Water)	**2.50**	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
WL (Stabilized)				

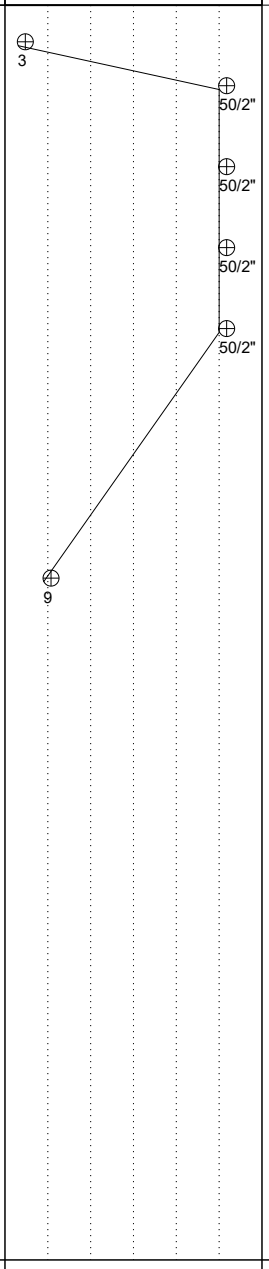
GEOTECHNICAL BOREHOLE LOG

CLIENT:	PROJECT NO.:	BORING NO.:	SHEET:
JLM Living	**60:2434**	**L-03**	**1 of 1**
PROJECT NAME:	DRILLER/CONTRACTOR:		
JLM Living East Soil Borings	**Naples Well Drilling, Inc**		
SITE LOCATION: **2661 Sundance St, Naples, Florida, 34120**			LOSS OF CIRCULATION
LATITUDE: **26.267053**	LONGITUDE: **-81.659532**	STATION:	SURFACE ELEVATION: **13.2**	BOTTOM OF CASING

DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6" (TCP/MC/SPT-N value)*
0	S-1	SS	24	24	(SP) FINE SAND, light brown, moist, very loose, trace roots			1-1-2-3 (3)
	S-2	SS	2	2	LIMESTONE, Hard, Tan, wet			50/2" (50/2")
5	S-3	SS	2	2			9	50/2" (50/2")
	S-4	SS	2	2				50/2" (50/2")
	S-5	SS	2	2			4	50/2" (50/2")
10								
	S-6	SS	18	18	(SP-SM) FINE SAND WITH SILT, light tannish gray, wet, loose, some limestone		-1	8-4-5 (9)
15					**END OF BORING AT 15.0 FT**			
20							-6	
25							-11	
30							-16	

STANDARD PENETRATION BLOWS/FT: 10 20 30 40 50 | 20 40 60 80 100
ROCK QUALITY DESIGNATION & RECOVERY
RQD
REC
MC SAMPLER BLOWS/FT: 10 20 30 40 50
TEXAS CONE PENETRATION BLOWS/FT

LIQUID LIMIT
PLASTIC LIMIT
CALIBRATED PENETROMETER TSF: 1 2 3 4 5
WATER CONTENT %
[FINES CONTENT] %: 10 20 30 40 50



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL

▽ WL (First Encountered)	BORING STARTED: **Feb 20 2025**		CAVE IN DEPTH:
▼ WL (Completion)	BORING COMPLETED: **Feb 20 2025**		HAMMER TYPE: **Auto**
▼ WL (Seasonal High Water)	EQUIPMENT: **Geoprobe 3100GT**	LOGGED BY: **SRC1**	DRILLING METHOD: **Mud rotary**
▽ WL (Stabilized)			

GEOTECHNICAL BOREHOLE LOG

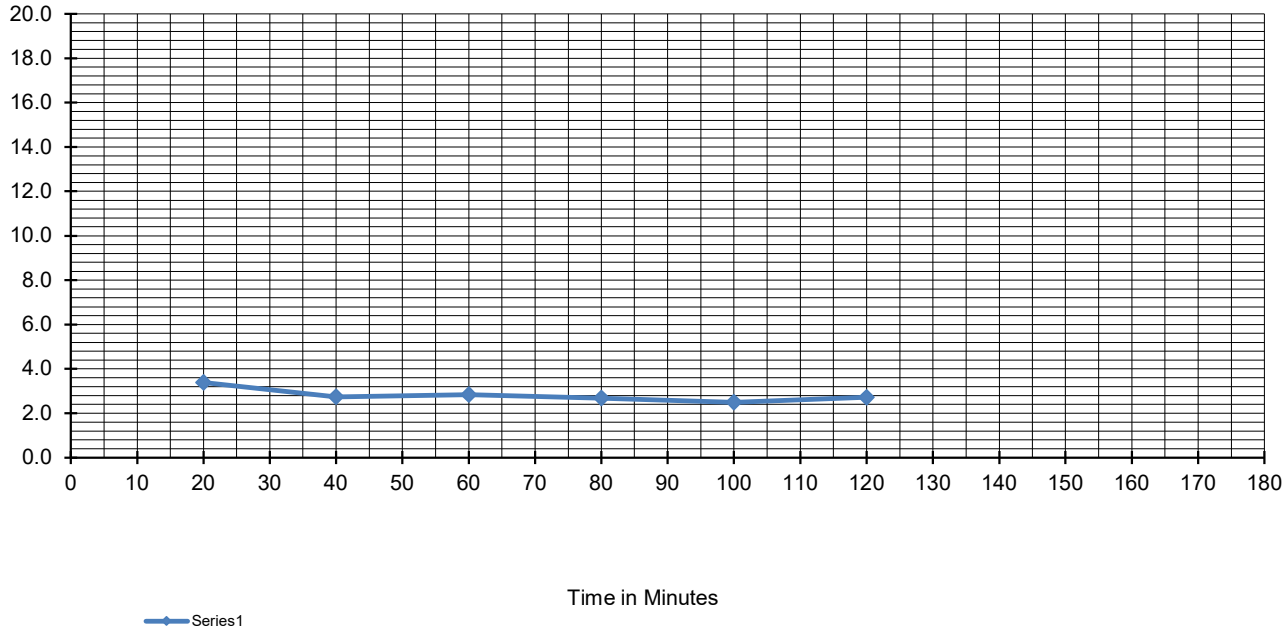
DOUBLE RING INFILTROMETER TEST RESULTS

Project: JLM Living East

ECS Project No.: 60-2434
Test No.: DRI-01
Date Performed: 3/5/2025
Performed by: ECS

DOUBLE RING INFILTROMETER TEST RESULTS:

Groundwater Depth:	Groundwater not encountered	ft				
Approximate Ground Surface Elev.	11.3	ft				
Test Depth:	1.50	ft				
Test Elevation:	9.80	ft				
Test Location:	DRI-01				Kv (ft/day)	Kh (ft/day)
Ave. Stabilized Infiltr. Rate, In/Hr =	2.8		5.6	ft/day	5.6	8.4



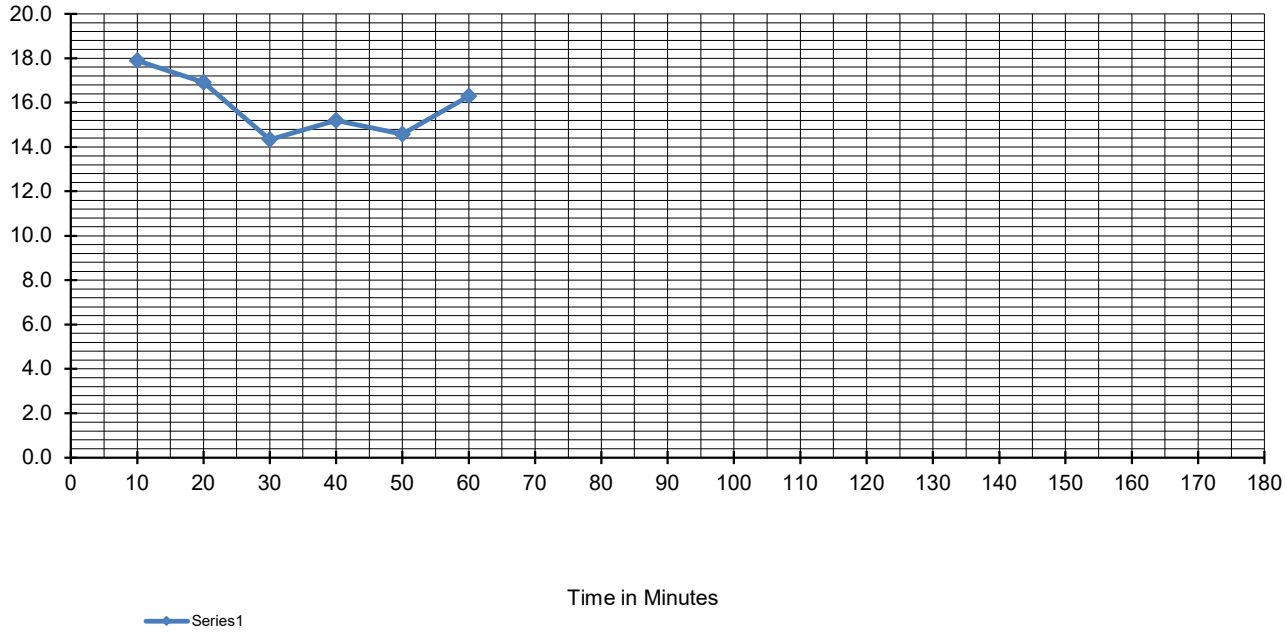
DOUBLE RING INFILTROMETER TEST RESULTS

Project: JLM Living East

ECS Project No.: 60-2434
Test No.: DRI-02
Date Performed: 3/5/2025
Performed by: ECS

DOUBLE RING INFILTROMETER TEST RESULTS:

Groundwater Depth:	Groundwater not encountered	ft			
Approximate Ground Surface Elev.	11.90	ft			
Test Depth:	1.50	ft			
Test Elevation:	13.40	ft			
Test Location:	DRI-02			Kv (ft/day)	Kh (ft/day)
Ave. Stabilized Infiltr. Rate, In/Hr =	15.9		31.7 ft/day	31.7	47.6



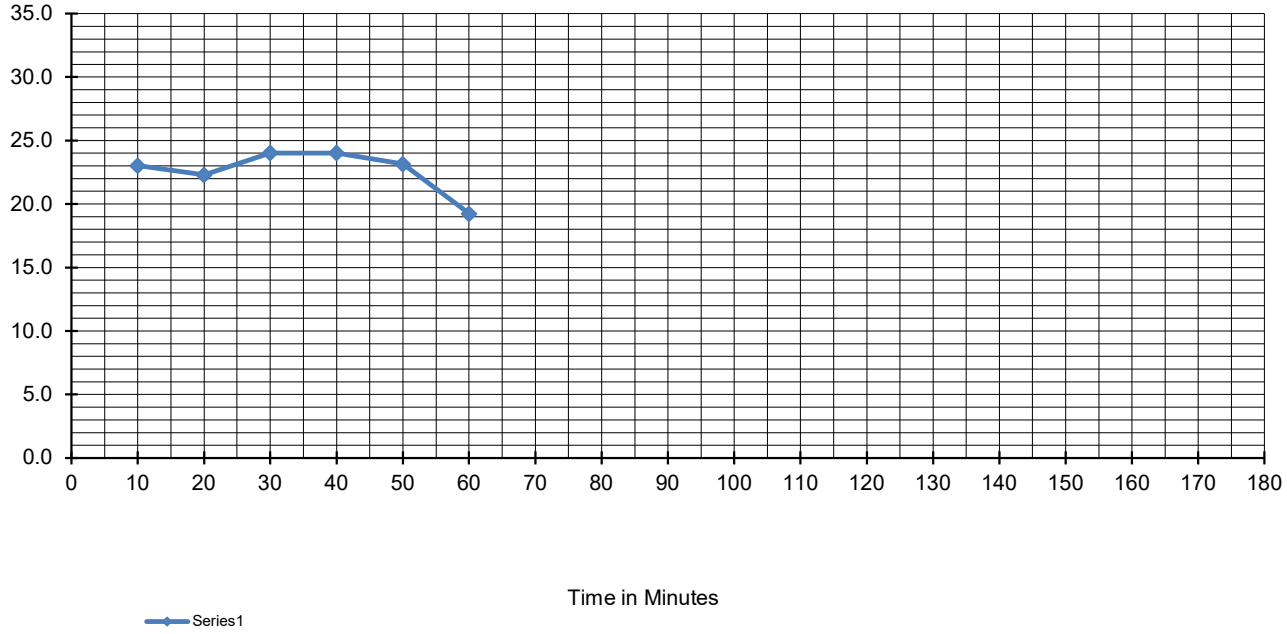
DOUBLE RING INFILTROMETER TEST RESULTS

Project: JLM Living East

ECS Project No.: 60-2434
Test No.: DRI-03
Date Performed: 3/10/2025
Performed by: ECS

DOUBLE RING INFILTROMETER TEST RESULTS:

Groundwater Depth:	Groundwater not encountered	ft				
Approximate Ground Surface Elev.	13	ft				
Test Depth:	1.50	ft				
Test Elevation:	11.50	ft				
Test Location:	DRI-03				Kv (ft/day)	Kh (ft/day)
Ave. Stabilized Infiltr. Rate, In/Hr =	22.6		45.3	ft/day	45.3	67.9



Control Elevation Backup - Ventana Pointe CE and Off-Site Conveyance


VENTANA POINTE
GRAPHIC SCALE 1"= 50'
0 50 100 150
RICHARDS STREET
SUNDANCE STREET
VENTANA LANE
VENTANA COURT
GRAVEL ROAD
AMENITY AREA
LAKE
3.86 AC TOTAL
INCLUDING LITTORAL
C.E. 11.50'
LITTORAL
0.58 AC
20' ACCESS AND L.M.E.
30' ROAD R/W EASEMENT
(ROAD R/W EASEMENT)
S-15 JUNCTION BOX G.E. 15.40 INV. 7.75 (N) INV. 7.50 (S)
S-16 MITERED SECTION INV. 11.00
SPREADER SWALE
S-17 JUNCTION BOX RIM 14.20 INV. 11.50 (NW) INV. 11.00 (E) INV. 11.00 (S)
S-18 24" MITERED END SECTION INV. 11.00
S-19 JUNCTION BOX RIM 14.20 INV. 7.00
S-20 36" FLARED END SECTION INV. 1.50
S-21 24" FLARED END SECTION INV. 1.50
S-22 VG INLET G.E. 15.18 INV. 8.70 (NW) INV. 8.70 (SE)
S-23 VG INLET G.E. 15.18 INV. 8.70 (NW) INV. 8.70 (SE)
S-24 CATCH BASIN G.E. 14.80 INV. 10.60 (NE) INV. 10.30 (SE) INV. 10.00 (SW)
S-25 CATCH BASIN G.E. 14.80 INV. 9.60 (N) INV. 8.50 (E) INV. 10.50 (S)
S-26 VG INLET G.E. 15.07 INV. 8.50 (W) INV. 10.40 (E)
S-27 VG INLET G.E. 15.07 INV. 10.40 (W) INV. 10.40 (E)
S-28 30" FLARED END SECTION INV. 1.50
S-29 24" FLARED END SECTION INV. 1.50
S-30 VG INLET G.E. 15.18 INV. 7.25 (N) INV. 7.25 (S)
S-31 VG INLET G.E. 15.18 INV. 7.25 (N) INV. 9.00 (S)
S-32 CATCH BASIN G.E. 14.80 INV. 9.50 (N) INV. 10.50 (E) INV. 9.60 (W)
S-33 VG INLET G.E. 15.18 INV. 10.50
S-34 VG INLET G.E. 15.18 INV. 10.50 (N) INV. 10.40 (S)
S-35 MITERED END SECTION INV. 10.00
S-36 MITERED END SECTION INV. 10.00
CS-1 SEE DETAIL ON SHEET 11
NYLOPLAST YARD DRAIN G.E. 14.80 INV. 11.60 (TYP.)
NYLOPLAST YARD DRAIN G.E. 14.80 INV. 10.25
267 LF 36" RCP
53 LF 24" RCP
150 LF 36" RCP
30 LF 24" RCP
323 LF 24" RCP
191 LF 24" RCP
146 LF 15" HDPE
22 LF 18" RCP
190 LF 30" RCP
33 LF 24" RCP
141 LF 24" HDPE
207 LF 24" RCP
157 LF 15" HDPE
23 LF 18" RCP
70 LF 24"x38" ERCP
17 LF 15" HDPE
7 LF 12" PVC INV. 11.0'
8" HDPE
15" HDPE
15.0' D.E.
10.0' P.U.E.
30.0'
LOT 18 F.F.=17.90
LOT 19 F.F.=17.90
LOT 20 F.F.=17.60
LOT 21 F.F.=17.25
LOT 22 F.F.=16.90
LOT 23 F.F.=16.90
LOT 24 F.F.=17.05
LOT 25 F.F.=17.25
LOT 26 F.F.=17.45
LOT 27 F.F.=17.65
LOT 28 F.F.=17.85
LOT 29 F.F.=18.05
LOT 30 F.F.=18.05
LOT 31 F.F.=17.90
LOT 32 F.F.=17.70
LOT 33 F.F.=17.50
LOT 34 F.F.=17.30
LOT 35 F.F.=17.10
LOT 36 F.F.=16.90
LOT 37 F.F.=16.90
LOT 38 F.F.=17.10
LOT 39 F.F.=17.30
LOT 40 F.F.=17.50
LOT 41 F.F.=17.70
LOT 42 F.F.=17.90
LOT 43 F.F.=17.90
LOT 44 F.F.=17.50
LOT 45 F.F.=17.80
LOT 46 F.F.=18.10
LOT 47 F.F.=18.10
LOT 48 F.F.=17.80
LOT 49 F.F.=17.50
LOT 50 F.F.=17.20
LOT 51 F.F.=16.90
LOT 52 F.F.=16.90
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LOT 54 F.F.=17.20
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LOT 70 F.F.=18.05
LOT 71 F.F.=18.05
LOT 72 F.F.=17.67
LOT 73 F.F.=17.29
LOT 74 F.F.=16.90
LOT 75 F.F.=16.90
LOT 76 F.F.=17.40
LOT 77 F.F.=17.90

PREPARED FOR:

RJH II, LLC.
7722 MARVANNA LANE
PARKLAND, FL. 33076
PHONE: 954-481-3700
FAX: 954-481-3444

NO.	DATE	REVISION DESCRIPTION	BY
3	7/20/2020	REVISED PER COUNTY COMMENT	JLS
2	5/22/2020	REVISED PER COUNTY COMMENTS	JLS
1	3/12/2020	REVISED PER COUNTY AND SFWMD COMMENTS	JLS

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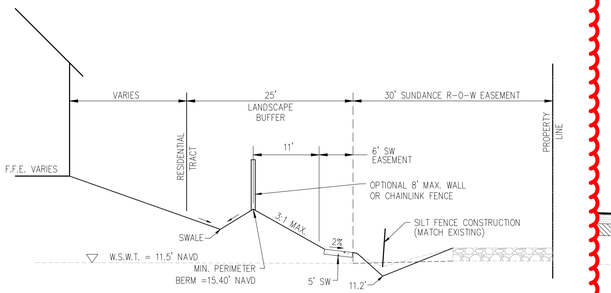
SURVEY LICENSE # LB 6690
WWW.BANKSENG.COM

D. BRENT ADDISON
P.E. LIC. #70611

PAVING GRADING & DRAINAGE PLAN 2
VENTANA POINTE
NAPLES, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
5/7/2019	8377	PGDP-2	DBA	JLS	DBA	1"=50'	09

S:\JOBS\83XX\8377\ENGINEERING\DEV PLANS\09 PAVING GRADING & DRAINAGE PLAN 2.DWG 9/2/2020 3:39 PM JORGE SANCHEZ



SECTION A-A
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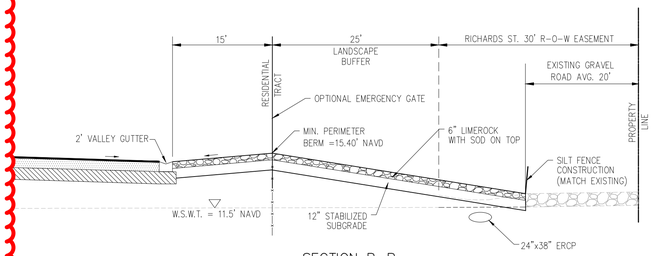

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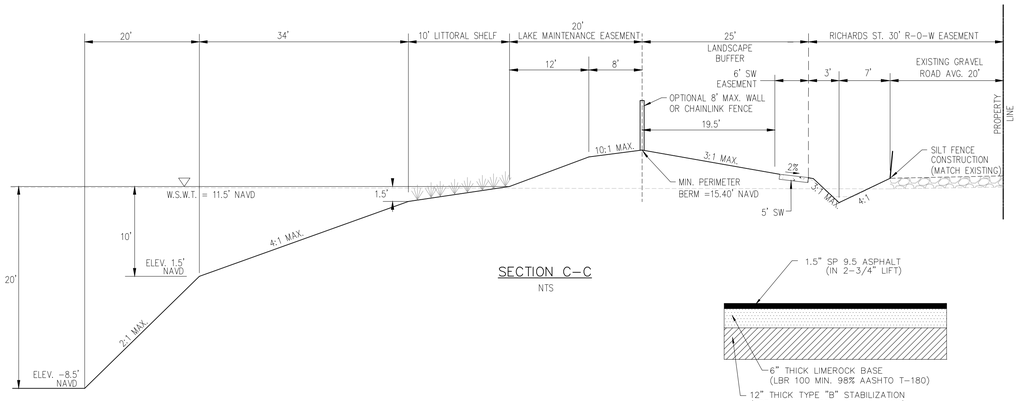
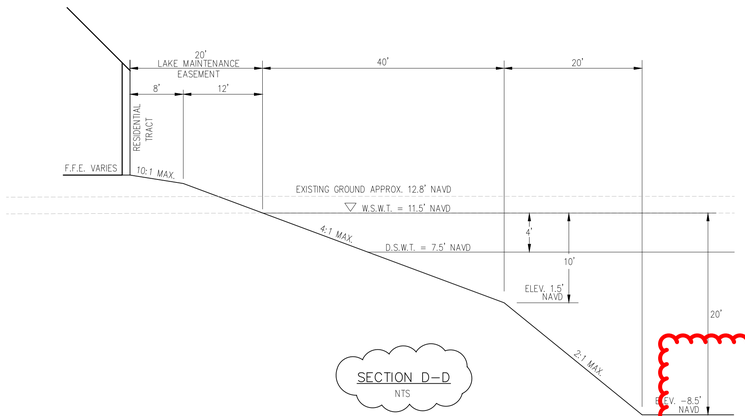


SECTION C-C
NTS

ON-SITE ASPHALT SECTION (R.O.W.)
N.T.S.



SECTION D-D
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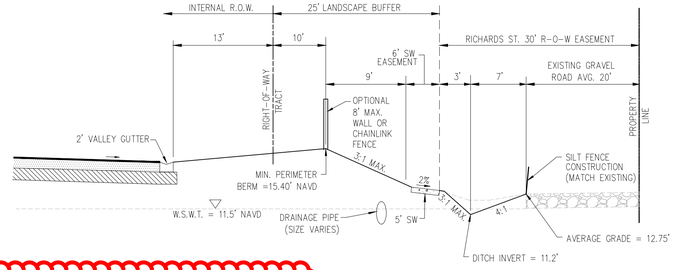

SECTION E-E
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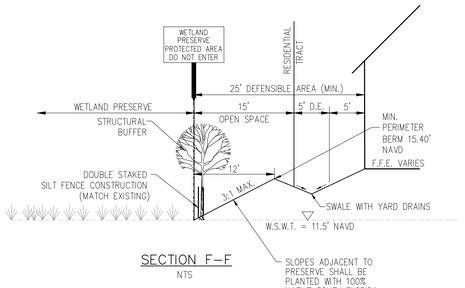

SECTION F-F
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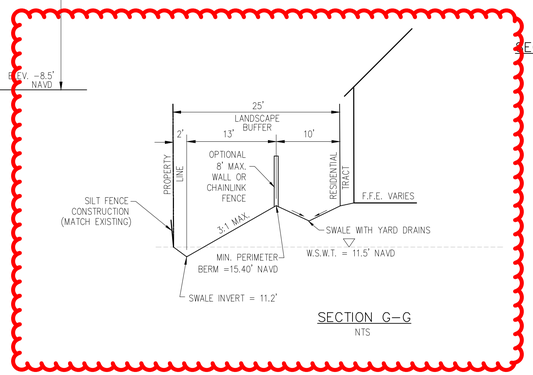
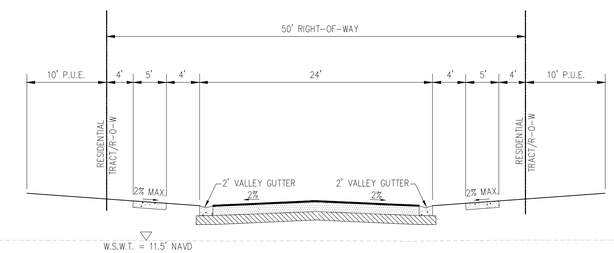
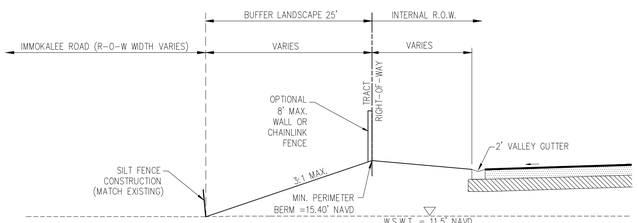


SECTION G-G
NTS



INTERNAL R-O-W SECTION
NTS



SECTION H-H
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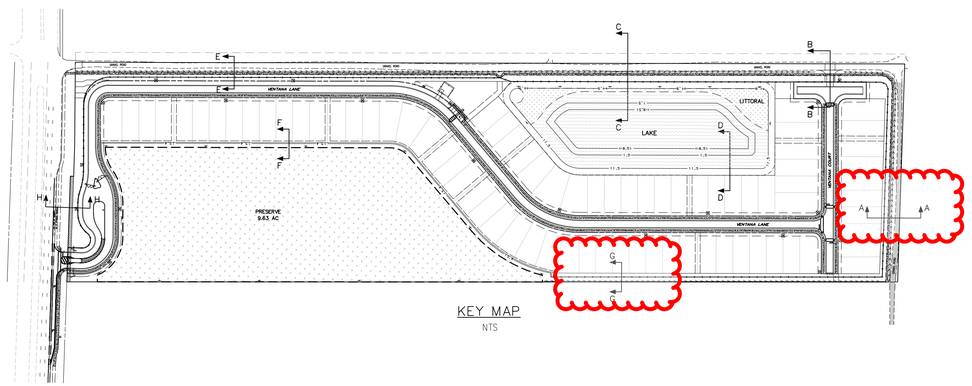

KEY MAP
NTS

PREPARED FOR:

RJH II, LLC.
7722 MARVANNA LANE
PARKLAND, FL. 33076
PHONE: 954-481-3700
FAX: 954-481-3444

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D. BRENT ADDISON
P.E. LIC. #70611

TYPICAL CROSS SECTIONS
VENTANA POINTE
NAPLES, FLORIDA

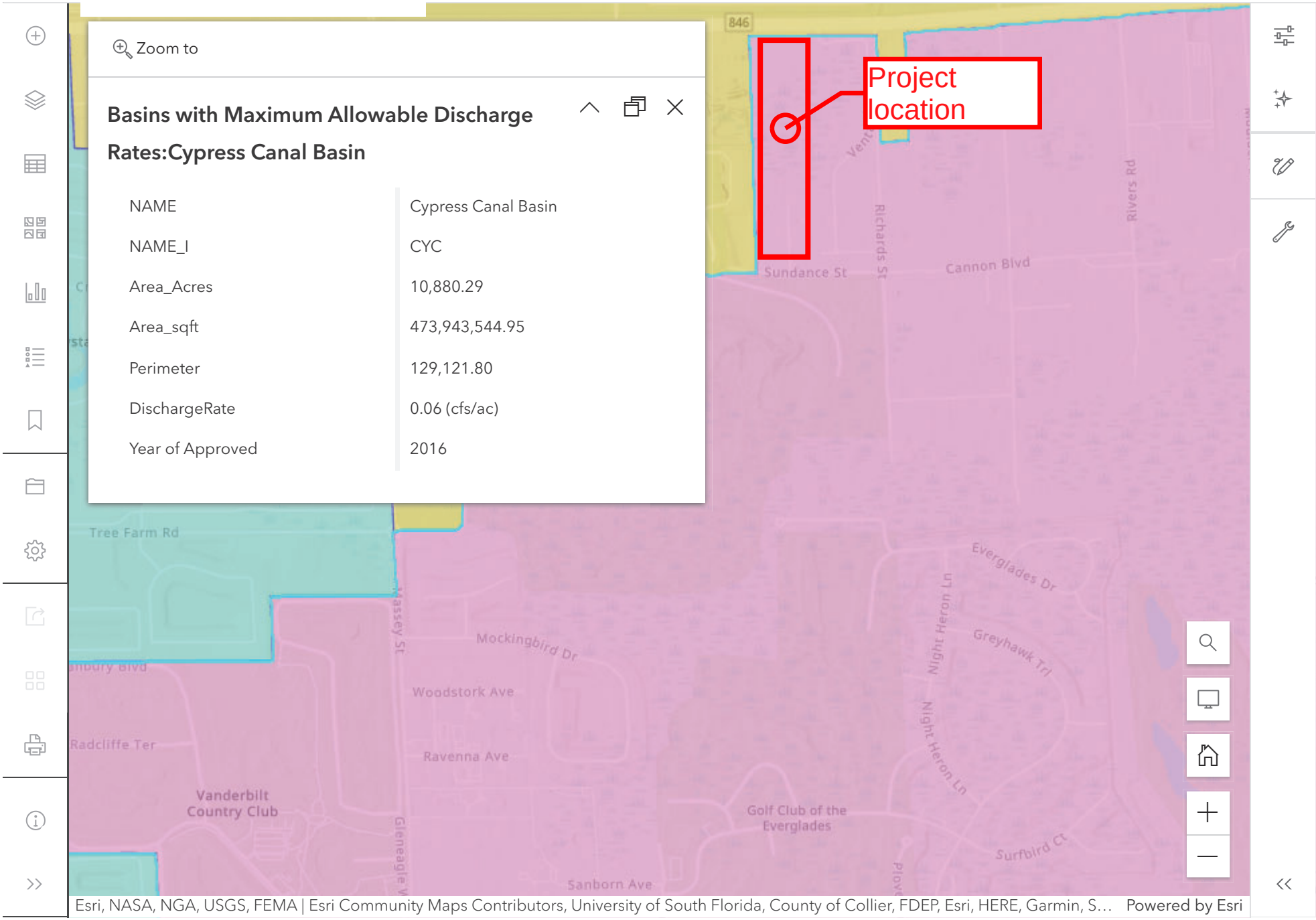
DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
5/7/2019	8377	X-SEC	DBA	JLS	DBA	N.T.S.	10

S:\JOBS\XXXX\8377\ENGINEERING\DEV PLANS\10 TYPICAL CROSS SECTIONS.DWG 9/2/2020 3:39 PM JORGE SANCHEZ

Allowable Discharge Backup

Open in Map Viewer Classic

Collier County Stormwater Basins with Maximun Allowable Discharge Rates



BMP Nutrient Loading Backup

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Collier County Area, Florida

July 26, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:4,500 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Collier County Area, Florida
Survey Area Data: Version 16, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 14, 2021—Nov 23, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
102	Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes	19.3	51.9%
131	Riviera fine sand, limestone substratum-Urban land complex, 0 to 2 percent slopes	17.9	48.1%
Totals for Area of Interest		**37.3**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Collier County Area, Florida

102—Cypress Lake fine sand-Urban land complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2zldz
Elevation: 0 to 70 feet
Mean annual precipitation: 42 to 56 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Cypress lake and similar soils: 42 percent
Urban land: 36 percent
Minor components: 22 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cypress Lake

Setting

Landform: Drainageways on marine terraces, flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Parent material: Sandy and loamy marine deposits over limestone

Typical profile

A - 0 to 3 inches: fine sand
E - 3 to 14 inches: fine sand
E/B - 14 to 25 inches: fine sand
Btg - 25 to 30 inches: fine sandy loam
2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 8 to 40 inches to lithic bedrock
Drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 3 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: A/D
Forage suitability group: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

Description of Urban Land

Setting

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified
Forage suitability group: Forage suitability group not assigned (G155XB999FL)
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)
Hydric soil rating: Unranked

Minor Components

Brynwood

Percent of map unit: 8 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Wabasso

Percent of map unit: 6 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: No

Pineda

Percent of map unit: 4 percent
Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Linear, concave
Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

Ft. drum

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex

Across-slope shape: Linear
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: No

Cypress lake

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear
Across-slope shape: Linear, concave
Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: No

131—Riviera fine sand, limestone substratum-Urban land complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2x9g1
Elevation: 0 to 30 feet
Mean annual precipitation: 46 to 64 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 360 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Riviera, limestone substratum, and similar soils: 45 percent
Urban land: 41 percent
Minor components: 14 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riviera, Limestone Substratum

Setting

Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, convex
Across-slope shape: Concave, linear
Parent material: Sandy and loamy marine deposits over limestone

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 32 inches: fine sand
Btg/E - 32 to 45 inches: sandy clay loam
Btg - 45 to 54 inches: sandy clay loam
2R - 54 to 64 inches: bedrock

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 31 to 80 inches to lithic bedrock
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Forage suitability group: Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)
Other vegetative classification: Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)
Hydric soil rating: Yes

Description of Urban Land

Setting

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified
Forage suitability group: Forage suitability group not assigned (G155XB999FL)
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)
Hydric soil rating: Unranked

Minor Components

Holopaw

Percent of map unit: 4 percent
Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Other vegetative classification: Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Copeland

Percent of map unit: 4 percent
Landform: Flats on marine terraces, depressions on marine terraces
Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave
Across-slope shape: Concave
Other vegetative classification: Slough (R156BY011FL), Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)
Hydric soil rating: Yes

Cypress lake

Percent of map unit: 4 percent
Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, convex
Across-slope shape: Concave, linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

Riviera, limestone substratum

Percent of map unit: 2 percent
Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Other vegetative classification: Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)
Hydric soil rating: No

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Table 2-2a Runoff curve numbers for urban areas [1/]

Cover description: Cover type and hydrologic condition	Average percent impervious area [2/]	Curve numbers for hydrologic soil group: A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) [3/]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) [4/]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) [5/]		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

[1] Average runoff condition, and $I_a = 0.2S$.

[2] The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

[3] CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

[4] Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

[5] Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Table 2-2c Runoff curve numbers for other agricultural lands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. [2/]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. [3/]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 [4/]	48	65	73
Woods—grass combination (orchard or tree farm). [5/]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. [6/]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 [4/]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

1 Average runoff condition, and $I_a = 0.2S$.

2 *Poor:* <50%) ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: > 75% ground cover and lightly or only occasionally grazed.

3 *Poor:* <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.

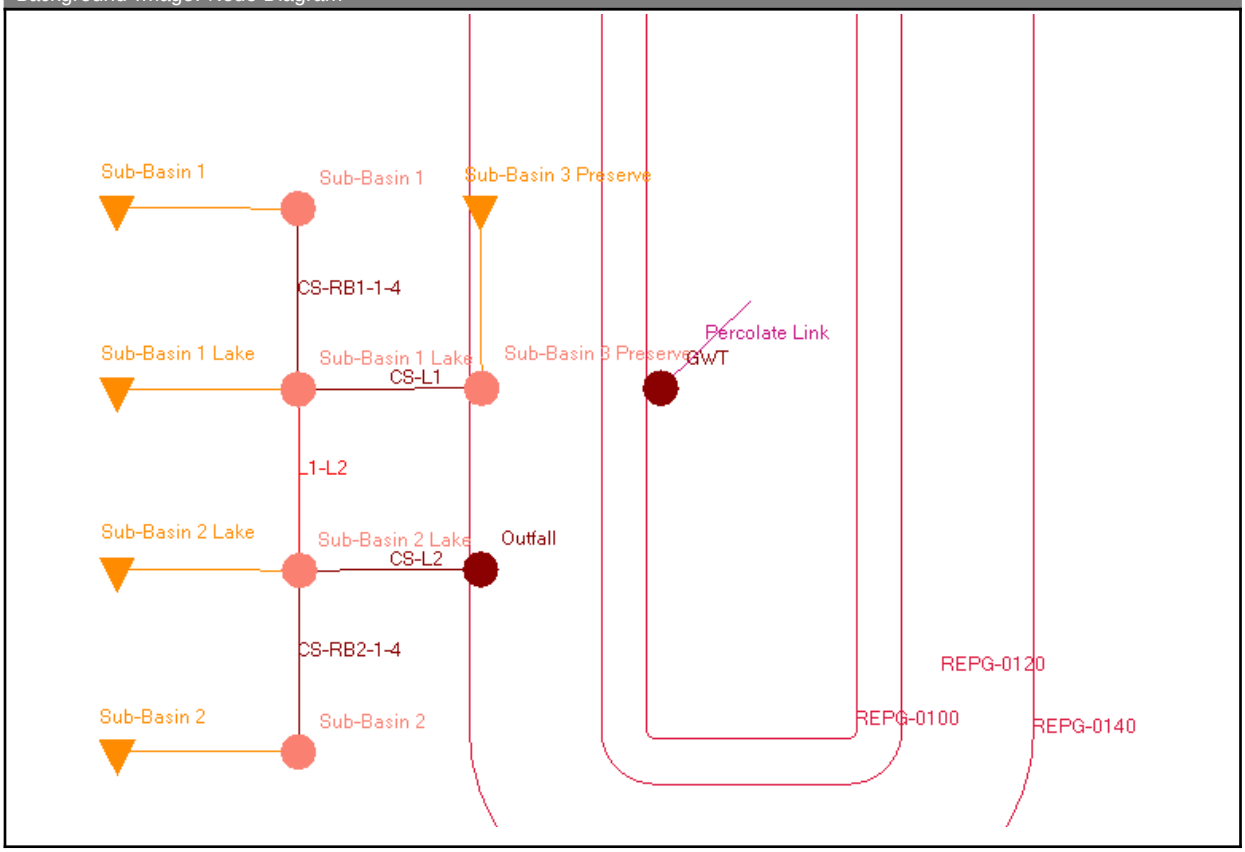
4 Actual curve number is less than 30; use CN = 30 for runoff computations.

5 CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.

6 *Poor:* Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

APPENDIX C – ICPR INPUTS AND RESULTS

Background Image: Node Diagram



Simple Basin: Sub-Basin 1

Scenario:	Scenario1
Node:	Sub-Basin 1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	9999999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	14.0300 ac
Curve Number:	68.0
Ia/S:	0.00
% Impervious:	59.00
% DCIA:	59.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: Sub-Basin 1 Lake

Scenario:	Scenario1
Node:	Sub-Basin 1 Lake
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	9999999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.2100 ac
Curve Number:	76.4
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	69.00
Rainfall Name:	

Comment:

Simple Basin: Sub-Basin 2

Scenario:	Scenario1
Node:	Sub-Basin 2
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	9999999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	10.5800 ac
Curve Number:	66.1
Ia/S:	0.00
% Impervious:	58.00
% DCIA:	58.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: Sub-Basin 2 Lake

Scenario:	Scenario1
Node:	Sub-Basin 2 Lake
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number

Time of Concentration:	10.0000 min
Max Allowable Q:	9999999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.8000 ac
Curve Number:	76.4
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	64.00
Rainfall Name:	

Comment:

Simple Basin: Sub-Basin 3 Preserve

Scenario:	Scenario1
Node:	Sub-Basin 3 Preserve
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	35.0000 min
Max Allowable Q:	9999999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	6.3700 ac
Curve Number:	95.1
Ia/S:	0.00
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Node: GWT

Scenario:	Scenario1
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	11.70 ft
Warning Stage:	0.00 ft
Alert Stage:	0.00 ft
Boundary Stage:	

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	11.70
0	0	0	60.0000	11.90
0	0	0	360.0000	11.70

Comment:

Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 11.70 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	11.70
0	0	0	24.0000	12.00
0	0	0	72.0000	13.00
0	0	0	90.0000	12.90
0	0	0	200.0000	12.10
0	0	0	300.0000	11.80
0	0	0	350.0000	11.70
0	0	0	360.0000	11.70

Comment:

Node: Sub-Basin 1

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 13.20 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
13.20	0.00	0
13.50	0.14	6098
14.00	0.39	16988
15.00	0.97	42253
15.80	1.52	66211
16.00	1.74	75794
16.70	4.14	180338

Comment:

Node: Sub-Basin 1 Lake

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 11.70 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
11.70	0.00	0
12.00	0.25	10890
13.00	1.15	50094
14.00	2.12	92347
15.00	3.17	138085
16.00	4.30	187308
16.70	5.14	223898

Comment:

Node: Sub-Basin 2

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 13.20 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
13.20	0.00	0
13.50	0.04	1742
14.00	0.12	5227
15.00	0.31	13504
15.80	0.50	21780
16.00	0.60	26136
16.70	2.05	89298

Comment:

Node: Sub-Basin 2 Lake

Scenario: Scenario1

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 11.70 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
11.70	0.00	0
12.00	0.16	6970
13.00	0.71	30928
14.00	1.33	57935
15.00	2.01	87556
16.00	2.75	119790
16.70	3.30	143748

Comment:

Node: Sub-Basin 3 Preserve

Scenario: Scenario1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 12.20 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
12.20	0.00	0
12.50	0.26	11326
13.00	1.85	80586
13.30	3.50	152460
14.00	7.96	346738
14.50	11.15	485694
15.00	14.33	624215

Comment:

Drop Structure Link: CS-L1

Scenario: Scenario1
From Node: Sub-Basin 1 Lake
To Node: Sub-Basin 3 Preserve
Link Count: 1
Pipe Flow Direction: Both
Solution: Combine
Increments: 0
Pipe Count: 1

Upstream Pipe		Downstream Pipe	
Invert:	6.70 ft	Invert:	6.70 ft
Manning's N:	0.0140	Manning's N:	0.0140
Geometry: Circular		Geometry: Circular	
Max Depth:	3.00 ft	Max Depth:	3.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	

Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	180.00 ft	Top Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0	Op Table:		Op Table:	
Exit Loss Coef:	0	Ref Node:		Ref Node:	
Bend Loss Coef:	0	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Horizontal	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	12.90 ft	Op Table:	
Control Elevation:	11.70 ft	Ref Node:	
Max Depth:	3.00 ft	Discharge Coefficients	
Max Width:	4.50 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-L2		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	6.20 ft	Invert:	6.20 ft
From Node:	Sub-Basin 2 Lake	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Outfall	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Pipe Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	275.00 ft	Top Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0	Op Table:		Op Table:	
Exit Loss Coef:	0	Ref Node:		Ref Node:	
Bend Loss Coef:	0	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Circular	Op Table:	
Invert:	11.70 ft	Ref Node:	
Control Elevation:	11.70 ft	**Discharge Coefficients**	
Max Depth:	0.42 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Sharp Crested Vertical	Default:	0.00 ft
Geometry Type:	Circular	Op Table:	
Invert:	12.90 ft	Ref Node:	
Control Elevation:	11.70 ft	**Discharge Coefficients**	
Max Depth:	0.38 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-RB1-1-4		Upstream Pipe		Downstream Pipe	
Scenario:	Scenario1	Invert:	6.20 ft	Invert:	6.20 ft
From Node:	Sub-Basin 1	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Sub-Basin 1 Lake	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Pipe Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	50.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0	Op Table:		Op Table:	

Exit Loss Coef:	0	Ref Node:		Ref Node:	
Bend Loss Coef:	0	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	2	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	**Top Clip**	
Weir Type:	Horizontal	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	14.60 ft	Ref Node:	
Control Elevation:	11.70 ft	**Discharge Coefficients**	
Max Depth:	3.00 ft	Weir Default:	3.200
Max Width:	4.50 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-RB2-1-4		**Upstream Pipe**		**Downstream Pipe**	
Scenario:	Scenario1	Invert:	6.20 ft	Invert:	6.20 ft
From Node:	Sub-Basin 2	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Sub-Basin 2 Lake	**Geometry: Circular**		**Geometry: Circular**	
Link Count:	2	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Pipe Flow Direction:	Both	**Bottom Clip**			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	50.00 ft	**Top Clip**			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0	Op Table:		Op Table:	
Exit Loss Coef:	0	Ref Node:		Ref Node:	
Bend Loss Coef:	0	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component

		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	2	Op Table:	
Weir Flow Direction:	Both		

Damping:	0.0000 ft		
Weir Type:	Horizontal	Ref Node:	
Geometry Type:	Rectangular	**Top Clip**	
Invert:	14.60 ft	Default:	0.00 ft
Control Elevation:	11.70 ft	Op Table:	
Max Depth:	3.00 ft	Ref Node:	
Max Width:	4.50 ft	**Discharge Coefficients**	
Fillet:	0.00 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: L1-L2		Upstream		Downstream	
Scenario:	Scenario1	Invert:	6.70 ft	Invert:	6.70 ft
From Node:	Sub-Basin 1 Lake	Manning's N:	0.0140	Manning's N:	0.0140
To Node:	Sub-Basin 2 Lake	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	600.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0	Top Clip			
Bend Loss Coef:	0	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Percolation Link: Percolate Link			
Scenario:	Scenario1	Surface Area Option:	User Specified
From Node:	Sub-Basin 3 Preserve	Bottom Elevation:	12.20 ft
To Node:	GWT	Surface Area:	6.3800 ac
Link Count:	1	Vertical Flow Termination:	Horizontal Flow Algorithm
Flow Direction:	Both	Perimeter 1:	2384.75 ft
Aquifer Base Elevation:	-17.00 ft	Perimeter 2:	2699.96 ft
Water Table Elevation:	11.70 ft	Perimeter 3:	3613.15 ft
Annual Recharge Rate:	0 ipy	Distance P1 to P2:	50.00 ft
Horizontal Conductivity:	57.000 fpd	Distance P2 to P3:	145.00 ft
Vertical Conductivity:	38.000 fpd	# of Cells P1 to P2:	10
Fillable Porosity:	0.200	# of Cells P2 to P3:	29
Layer Thickness:	0.55 ft		

divide by 2 for factor of safety.

Comment:

Simulation: 100 Yr - 72 hrs

Scenario: Scenario1
Run Date/Time: 4/14/2025 9:08:55 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec	Ia/S:	0.20 dec
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~SFWMD-72
		Rainfall Amount:	14.70 in
		Storm Duration:	72.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area (1D):	100 ft2
		Energy Switch (1D):	Energy

Comment:

Simulation: 10yr - 24hrs

Scenario: Scenario1
Run Date/Time: 4/11/2025 5:15:26 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FDOT-24
Rainfall Amount: 7.16 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 25 Yr - 72 hrs

Scenario: Scenario1
Run Date/Time: 4/14/2025 9:40:27 AM
Program Version: StormWise 4.08.03

Input Report

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	360.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	120.0000
0	0	0	60.0000	60.0000
0	0	0	80.0000	120.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain: Global

Opt:	
Link Optimizer Tol: 0.0001 ft	
Rainfall Name:	~SFWMD-72
Rainfall Amount:	11.10 in
Storm Duration:	72.0000 hr
Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (1D):	100 ft2
Energy Switch (1D):	Energy

Comment:

Node: Outfall

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 11.70 ft
Warning Stage: 0.00 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	11.70
0	0	0	12.0000	12.00
0	0	0	24.0000	13.00
0	0	0	42.0000	12.90
0	0	0	200.0000	12.00
0	0	0	300.0000	11.75
0	0	0	350.0000	11.70
0	0	0	360.0000	11.70

Comment:

Node Max

Node Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
10yr - 24hrs	GWT	0.00	0.00	11.90	0.0000	12.41	0.00	0
10yr - 24hrs	Outfall	0.00	0.00	13.00	0.0007	1.32	0.01	0
10yr - 24hrs	Sub-Basin 1	0.00	0.00	14.72	0.0005	8.45	8.42	26481
10yr - 24hrs	Sub-Basin 1 Lake	0.00	0.00	14.20	0.0009	13.79	12.11	44728
10yr - 24hrs	Sub-Basin 2	0.00	0.00	14.70	0.0010	6.23	6.23	8807
10yr - 24hrs	Sub-Basin 2 Lake	0.00	0.00	14.20	0.0010	6.75	5.67	28863
10yr - 24hrs	Sub-Basin 3 Preserve	0.00	0.00	14.20	-0.0079	16.24	12.41	277726

Link Max

Link Min/Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Link Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
10yr - 24hrs	CS-L1 - Pipe	12.11	-1.01	-0.04	0.00	0.00	0.00
10yr - 24hrs	CS-L1 - Weir: 1	12.11	-1.01	-0.05	1.88	1.88	1.88
10yr - 24hrs	CS-L2 - Pipe	1.32	-0.01	0.00	0.00	0.00	0.00
10yr - 24hrs	CS-L2 - Weir: 1	0.79	-0.01	0.00	5.80	5.80	5.80
10yr - 24hrs	CS-L2 - Weir: 2	0.56	0.00	0.00	5.08	5.08	5.08
10yr - 24hrs	CS-RB1-1-4 - Pipe	8.42	0.00	-0.03	0.00	0.00	0.00
10yr - 24hrs	CS-RB1-1-4 - Weir: 1	8.42	0.00	-0.02	1.13	1.13	1.13
10yr - 24hrs	CS-RB2-1-4 - Pipe	6.23	0.00	-0.03	0.00	0.00	0.00
10yr - 24hrs	CS-RB2-1-4 - Weir: 1	6.23	0.00	-0.02	1.02	1.02	1.02
10yr - 24hrs	L1-L2	1.18	-4.59	0.06	-0.48	-0.48	-0.48
10yr - 24hrs	Percolate Link	12.41	0.00	11.54	0.00	0.00	0.00

Node Max

Node Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
25 Yr - 72 hrs	GWT	0.00	0.00	11.90	0.0000	12.02	0.00	0
25 Yr - 72 hrs	Outfall	0.00	0.00	13.00	0.0002	1.92	0.04	0
25 Yr - 72 hrs	Sub-Basin 1	0.00	0.00	15.37	0.0008	63.60	56.81	32810
25 Yr - 72 hrs	Sub-Basin 1 Lake	0.00	0.00	15.34	0.0010	77.41	42.48	48600
25 Yr - 72 hrs	Sub-Basin 2	0.00	0.00	15.56	0.0010	47.41	42.09	14016
25 Yr - 72 hrs	Sub-Basin 2 Lake	0.00	0.00	15.54	0.0010	46.10	19.57	32184
25 Yr - 72 hrs	Sub-Basin 3 Preserve	0.00	0.00	15.20	-0.0082	60.26	12.02	277726

Link Max

Link Min/Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Link Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
25 Yr - 72 hrs	CS-L1 - Pipe	42.48	-1.28	-0.14	0.00	0.00	0.00
25 Yr - 72 hrs	CS-L1 - Weir: 1	42.48	-1.28	-0.11	3.15	3.15	3.15
25 Yr - 72 hrs	CS-L2 - Pipe	1.92	-0.04	0.00	0.00	0.00	0.00
25 Yr - 72 hrs	CS-L2 - Weir: 1	1.09	-0.04	0.00	7.98	7.98	7.98
25 Yr - 72 hrs	CS-L2 - Weir: 2	0.83	0.00	0.00	7.53	7.53	7.53
25 Yr - 72 hrs	CS-RB1-1-4 - Pipe	56.81	0.00	0.14	0.00	0.00	0.00
25 Yr - 72 hrs	CS-RB1-1-4 - Weir: 1	56.81	0.00	-0.21	2.13	2.13	2.13
25 Yr - 72 hrs	CS-RB2-1-4 - Pipe	42.09	0.00	0.16	0.00	0.00	0.00
25 Yr - 72 hrs	CS-RB2-1-4 - Weir: 1	42.09	0.00	-0.23	1.93	1.93	1.93
25 Yr - 72 hrs	L1-L2	1.58	-17.66	0.18	-1.84	-1.84	-1.84
25 Yr - 72 hrs	Percolate Link	12.02	0.00	11.80	0.00	0.00	0.00

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1	0.0000	13.20
25 Yr - 72 hrs	Sub-Basin 1	2.0042	13.33
25 Yr - 72 hrs	Sub-Basin 1	4.0017	13.47
25 Yr - 72 hrs	Sub-Basin 1	6.0002	13.61
25 Yr - 72 hrs	Sub-Basin 1	8.0010	13.75
25 Yr - 72 hrs	Sub-Basin 1	10.0018	13.88
25 Yr - 72 hrs	Sub-Basin 1	12.0007	14.01
25 Yr - 72 hrs	Sub-Basin 1	14.0000	14.14
25 Yr - 72 hrs	Sub-Basin 1	16.0007	14.26
25 Yr - 72 hrs	Sub-Basin 1	18.0001	14.38
25 Yr - 72 hrs	Sub-Basin 1	20.0005	14.50
25 Yr - 72 hrs	Sub-Basin 1	22.0002	14.61
25 Yr - 72 hrs	Sub-Basin 1	24.0004	14.62
25 Yr - 72 hrs	Sub-Basin 1	26.0004	14.62
25 Yr - 72 hrs	Sub-Basin 1	28.0003	14.62
25 Yr - 72 hrs	Sub-Basin 1	30.0007	14.62
25 Yr - 72 hrs	Sub-Basin 1	32.0008	14.62
25 Yr - 72 hrs	Sub-Basin 1	34.0068	14.62
25 Yr - 72 hrs	Sub-Basin 1	36.0068	14.62
25 Yr - 72 hrs	Sub-Basin 1	38.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	40.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	42.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	44.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	46.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	48.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	50.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	52.0068	14.63
25 Yr - 72 hrs	Sub-Basin 1	54.0068	14.65
25 Yr - 72 hrs	Sub-Basin 1	56.0068	14.66
25 Yr - 72 hrs	Sub-Basin 1	58.0068	14.68
25 Yr - 72 hrs	Sub-Basin 1	60.0000	15.10
25 Yr - 72 hrs	Sub-Basin 1	61.0000	15.22
25 Yr - 72 hrs	Sub-Basin 1	62.0032	14.94
25 Yr - 72 hrs	Sub-Basin 1	63.0058	14.98
25 Yr - 72 hrs	Sub-Basin 1	64.0058	15.04
25 Yr - 72 hrs	Sub-Basin 1	65.0058	15.07
25 Yr - 72 hrs	Sub-Basin 1	66.0058	15.10
25 Yr - 72 hrs	Sub-Basin 1	67.0058	15.13
25 Yr - 72 hrs	Sub-Basin 1	68.0058	15.15
25 Yr - 72 hrs	Sub-Basin 1	69.0058	15.17
25 Yr - 72 hrs	Sub-Basin 1	70.0058	15.18
25 Yr - 72 hrs	Sub-Basin 1	71.0058	15.20

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1	72.0058	15.21
25 Yr - 72 hrs	Sub-Basin 1	73.0058	15.19
25 Yr - 72 hrs	Sub-Basin 1	74.0058	15.18
25 Yr - 72 hrs	Sub-Basin 1	75.0058	15.16
25 Yr - 72 hrs	Sub-Basin 1	76.0058	15.15
25 Yr - 72 hrs	Sub-Basin 1	77.0058	15.13
25 Yr - 72 hrs	Sub-Basin 1	78.0058	15.12
25 Yr - 72 hrs	Sub-Basin 1	79.0058	15.10
25 Yr - 72 hrs	Sub-Basin 1	80.0058	15.09
25 Yr - 72 hrs	Sub-Basin 1	82.0058	15.06
25 Yr - 72 hrs	Sub-Basin 1	84.0058	15.02
25 Yr - 72 hrs	Sub-Basin 1	86.0058	14.99
25 Yr - 72 hrs	Sub-Basin 1	88.0058	14.96
25 Yr - 72 hrs	Sub-Basin 1	90.0058	14.93
25 Yr - 72 hrs	Sub-Basin 1	92.0058	14.90
25 Yr - 72 hrs	Sub-Basin 1	94.0058	14.87
25 Yr - 72 hrs	Sub-Basin 1	96.0058	14.84
25 Yr - 72 hrs	Sub-Basin 1	98.0058	14.81
25 Yr - 72 hrs	Sub-Basin 1	100.0058	14.78
25 Yr - 72 hrs	Sub-Basin 1	102.0058	14.75
25 Yr - 72 hrs	Sub-Basin 1	104.0058	14.72
25 Yr - 72 hrs	Sub-Basin 1	106.0058	14.69
25 Yr - 72 hrs	Sub-Basin 1	108.0058	14.67
25 Yr - 72 hrs	Sub-Basin 1	110.0058	14.64
25 Yr - 72 hrs	Sub-Basin 1	112.0058	14.61
25 Yr - 72 hrs	Sub-Basin 1	114.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	116.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	118.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	120.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	122.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	124.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	126.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	128.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	130.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	132.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	134.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	136.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	138.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	140.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	142.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	144.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	146.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1	148.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	150.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	152.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	154.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	156.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	158.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	160.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	162.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	164.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	166.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	168.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	170.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	172.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	174.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	176.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	178.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	180.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	182.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	184.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	186.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	188.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	190.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	192.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	194.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	196.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	198.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	200.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	202.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	204.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	206.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	208.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	210.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	212.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	214.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	216.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	218.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	220.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	222.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	224.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	226.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	228.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	230.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1	232.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	234.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	236.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	238.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	240.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	242.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	244.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	246.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	248.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	250.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	252.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	254.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	256.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	258.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	260.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	262.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	264.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	266.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	268.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	270.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	272.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	274.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	276.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	278.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	280.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	282.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	284.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	286.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	288.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	290.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	292.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	294.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	296.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	298.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	300.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	302.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	304.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	306.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	308.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	310.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	312.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	314.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1	316.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	318.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	320.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	322.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	324.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	326.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	328.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	330.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	332.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	334.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	336.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	338.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	340.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	342.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	344.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	346.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	348.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	350.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	352.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	354.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	356.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	358.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1	360.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1 Lake	0.0000	11.70
25 Yr - 72 hrs	Sub-Basin 1 Lake	2.0042	11.71
25 Yr - 72 hrs	Sub-Basin 1 Lake	4.0017	11.72
25 Yr - 72 hrs	Sub-Basin 1 Lake	6.0002	11.73
25 Yr - 72 hrs	Sub-Basin 1 Lake	8.0010	11.74
25 Yr - 72 hrs	Sub-Basin 1 Lake	10.0018	11.76
25 Yr - 72 hrs	Sub-Basin 1 Lake	12.0007	11.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	14.0000	11.86
25 Yr - 72 hrs	Sub-Basin 1 Lake	16.0007	11.90
25 Yr - 72 hrs	Sub-Basin 1 Lake	18.0001	11.94
25 Yr - 72 hrs	Sub-Basin 1 Lake	20.0005	11.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	22.0002	12.02
25 Yr - 72 hrs	Sub-Basin 1 Lake	24.0004	12.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	26.0004	12.21
25 Yr - 72 hrs	Sub-Basin 1 Lake	28.0003	12.32
25 Yr - 72 hrs	Sub-Basin 1 Lake	30.0007	12.43
25 Yr - 72 hrs	Sub-Basin 1 Lake	32.0008	12.54
25 Yr - 72 hrs	Sub-Basin 1 Lake	34.0068	12.65
25 Yr - 72 hrs	Sub-Basin 1 Lake	36.0068	12.75

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1 Lake	38.0068	12.86
25 Yr - 72 hrs	Sub-Basin 1 Lake	40.0068	12.95
25 Yr - 72 hrs	Sub-Basin 1 Lake	42.0068	12.97
25 Yr - 72 hrs	Sub-Basin 1 Lake	44.0068	12.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	46.0068	12.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	48.0068	12.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	50.0068	12.99
25 Yr - 72 hrs	Sub-Basin 1 Lake	52.0068	13.03
25 Yr - 72 hrs	Sub-Basin 1 Lake	54.0068	13.12
25 Yr - 72 hrs	Sub-Basin 1 Lake	56.0068	13.25
25 Yr - 72 hrs	Sub-Basin 1 Lake	58.0068	13.43
25 Yr - 72 hrs	Sub-Basin 1 Lake	60.0000	14.82
25 Yr - 72 hrs	Sub-Basin 1 Lake	61.0000	15.20
25 Yr - 72 hrs	Sub-Basin 1 Lake	62.0032	14.93
25 Yr - 72 hrs	Sub-Basin 1 Lake	63.0058	14.97
25 Yr - 72 hrs	Sub-Basin 1 Lake	64.0058	15.03
25 Yr - 72 hrs	Sub-Basin 1 Lake	65.0058	15.07
25 Yr - 72 hrs	Sub-Basin 1 Lake	66.0058	15.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	67.0058	15.12
25 Yr - 72 hrs	Sub-Basin 1 Lake	68.0058	15.15
25 Yr - 72 hrs	Sub-Basin 1 Lake	69.0058	15.17
25 Yr - 72 hrs	Sub-Basin 1 Lake	70.0058	15.18
25 Yr - 72 hrs	Sub-Basin 1 Lake	71.0058	15.19
25 Yr - 72 hrs	Sub-Basin 1 Lake	72.0058	15.21
25 Yr - 72 hrs	Sub-Basin 1 Lake	73.0058	15.19
25 Yr - 72 hrs	Sub-Basin 1 Lake	74.0058	15.18
25 Yr - 72 hrs	Sub-Basin 1 Lake	75.0058	15.16
25 Yr - 72 hrs	Sub-Basin 1 Lake	76.0058	15.15
25 Yr - 72 hrs	Sub-Basin 1 Lake	77.0058	15.13
25 Yr - 72 hrs	Sub-Basin 1 Lake	78.0058	15.12
25 Yr - 72 hrs	Sub-Basin 1 Lake	79.0058	15.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	80.0058	15.08
25 Yr - 72 hrs	Sub-Basin 1 Lake	82.0058	15.05
25 Yr - 72 hrs	Sub-Basin 1 Lake	84.0058	15.02
25 Yr - 72 hrs	Sub-Basin 1 Lake	86.0058	14.99
25 Yr - 72 hrs	Sub-Basin 1 Lake	88.0058	14.96
25 Yr - 72 hrs	Sub-Basin 1 Lake	90.0058	14.93
25 Yr - 72 hrs	Sub-Basin 1 Lake	92.0058	14.90
25 Yr - 72 hrs	Sub-Basin 1 Lake	94.0058	14.87
25 Yr - 72 hrs	Sub-Basin 1 Lake	96.0058	14.84
25 Yr - 72 hrs	Sub-Basin 1 Lake	98.0058	14.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	100.0058	14.78

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1 Lake	102.0058	14.75
25 Yr - 72 hrs	Sub-Basin 1 Lake	104.0058	14.72
25 Yr - 72 hrs	Sub-Basin 1 Lake	106.0058	14.69
25 Yr - 72 hrs	Sub-Basin 1 Lake	108.0058	14.66
25 Yr - 72 hrs	Sub-Basin 1 Lake	110.0058	14.63
25 Yr - 72 hrs	Sub-Basin 1 Lake	112.0058	14.60
25 Yr - 72 hrs	Sub-Basin 1 Lake	114.0058	14.57
25 Yr - 72 hrs	Sub-Basin 1 Lake	116.0058	14.54
25 Yr - 72 hrs	Sub-Basin 1 Lake	118.0058	14.51
25 Yr - 72 hrs	Sub-Basin 1 Lake	120.0058	14.48
25 Yr - 72 hrs	Sub-Basin 1 Lake	122.0058	14.45
25 Yr - 72 hrs	Sub-Basin 1 Lake	124.0058	14.42
25 Yr - 72 hrs	Sub-Basin 1 Lake	126.0058	14.39
25 Yr - 72 hrs	Sub-Basin 1 Lake	128.0058	14.36
25 Yr - 72 hrs	Sub-Basin 1 Lake	130.0058	14.33
25 Yr - 72 hrs	Sub-Basin 1 Lake	132.0058	14.30
25 Yr - 72 hrs	Sub-Basin 1 Lake	134.0058	14.27
25 Yr - 72 hrs	Sub-Basin 1 Lake	136.0058	14.24
25 Yr - 72 hrs	Sub-Basin 1 Lake	138.0058	14.21
25 Yr - 72 hrs	Sub-Basin 1 Lake	140.0058	14.18
25 Yr - 72 hrs	Sub-Basin 1 Lake	142.0058	14.16
25 Yr - 72 hrs	Sub-Basin 1 Lake	144.0058	14.13
25 Yr - 72 hrs	Sub-Basin 1 Lake	146.0058	14.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	148.0058	14.07
25 Yr - 72 hrs	Sub-Basin 1 Lake	150.0058	14.04
25 Yr - 72 hrs	Sub-Basin 1 Lake	152.0058	14.02
25 Yr - 72 hrs	Sub-Basin 1 Lake	154.0058	13.99
25 Yr - 72 hrs	Sub-Basin 1 Lake	156.0058	13.96
25 Yr - 72 hrs	Sub-Basin 1 Lake	158.0058	13.94
25 Yr - 72 hrs	Sub-Basin 1 Lake	160.0058	13.91
25 Yr - 72 hrs	Sub-Basin 1 Lake	162.0058	13.88
25 Yr - 72 hrs	Sub-Basin 1 Lake	164.0058	13.86
25 Yr - 72 hrs	Sub-Basin 1 Lake	166.0058	13.83
25 Yr - 72 hrs	Sub-Basin 1 Lake	168.0058	13.80
25 Yr - 72 hrs	Sub-Basin 1 Lake	170.0058	13.78
25 Yr - 72 hrs	Sub-Basin 1 Lake	172.0058	13.75
25 Yr - 72 hrs	Sub-Basin 1 Lake	174.0058	13.73
25 Yr - 72 hrs	Sub-Basin 1 Lake	176.0058	13.70
25 Yr - 72 hrs	Sub-Basin 1 Lake	178.0058	13.67
25 Yr - 72 hrs	Sub-Basin 1 Lake	180.0058	13.65
25 Yr - 72 hrs	Sub-Basin 1 Lake	182.0058	13.63
25 Yr - 72 hrs	Sub-Basin 1 Lake	184.0058	13.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1 Lake	186.0058	13.58
25 Yr - 72 hrs	Sub-Basin 1 Lake	188.0058	13.55
25 Yr - 72 hrs	Sub-Basin 1 Lake	190.0058	13.53
25 Yr - 72 hrs	Sub-Basin 1 Lake	192.0058	13.50
25 Yr - 72 hrs	Sub-Basin 1 Lake	194.0058	13.48
25 Yr - 72 hrs	Sub-Basin 1 Lake	196.0058	13.46
25 Yr - 72 hrs	Sub-Basin 1 Lake	198.0058	13.43
25 Yr - 72 hrs	Sub-Basin 1 Lake	200.0058	13.41
25 Yr - 72 hrs	Sub-Basin 1 Lake	202.0058	13.39
25 Yr - 72 hrs	Sub-Basin 1 Lake	204.0058	13.37
25 Yr - 72 hrs	Sub-Basin 1 Lake	206.0058	13.34
25 Yr - 72 hrs	Sub-Basin 1 Lake	208.0058	13.32
25 Yr - 72 hrs	Sub-Basin 1 Lake	210.0058	13.30
25 Yr - 72 hrs	Sub-Basin 1 Lake	212.0058	13.28
25 Yr - 72 hrs	Sub-Basin 1 Lake	214.0058	13.26
25 Yr - 72 hrs	Sub-Basin 1 Lake	216.0058	13.24
25 Yr - 72 hrs	Sub-Basin 1 Lake	218.0058	13.22
25 Yr - 72 hrs	Sub-Basin 1 Lake	220.0058	13.20
25 Yr - 72 hrs	Sub-Basin 1 Lake	222.0058	13.18
25 Yr - 72 hrs	Sub-Basin 1 Lake	224.0058	13.16
25 Yr - 72 hrs	Sub-Basin 1 Lake	226.0058	13.14
25 Yr - 72 hrs	Sub-Basin 1 Lake	228.0058	13.12
25 Yr - 72 hrs	Sub-Basin 1 Lake	230.0058	13.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	232.0058	13.08
25 Yr - 72 hrs	Sub-Basin 1 Lake	234.0058	13.06
25 Yr - 72 hrs	Sub-Basin 1 Lake	236.0058	13.04
25 Yr - 72 hrs	Sub-Basin 1 Lake	238.0058	13.02
25 Yr - 72 hrs	Sub-Basin 1 Lake	240.0058	13.00
25 Yr - 72 hrs	Sub-Basin 1 Lake	242.0058	12.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	244.0058	12.96
25 Yr - 72 hrs	Sub-Basin 1 Lake	246.0058	12.93
25 Yr - 72 hrs	Sub-Basin 1 Lake	248.0058	12.91
25 Yr - 72 hrs	Sub-Basin 1 Lake	250.0058	12.86
25 Yr - 72 hrs	Sub-Basin 1 Lake	252.0058	12.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	254.0058	12.76
25 Yr - 72 hrs	Sub-Basin 1 Lake	256.0058	12.70
25 Yr - 72 hrs	Sub-Basin 1 Lake	258.0058	12.65
25 Yr - 72 hrs	Sub-Basin 1 Lake	260.0058	12.59
25 Yr - 72 hrs	Sub-Basin 1 Lake	262.0058	12.54
25 Yr - 72 hrs	Sub-Basin 1 Lake	264.0058	12.48
25 Yr - 72 hrs	Sub-Basin 1 Lake	266.0058	12.43
25 Yr - 72 hrs	Sub-Basin 1 Lake	268.0058	12.38

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1 Lake	270.0058	12.33
25 Yr - 72 hrs	Sub-Basin 1 Lake	272.0058	12.28
25 Yr - 72 hrs	Sub-Basin 1 Lake	274.0058	12.24
25 Yr - 72 hrs	Sub-Basin 1 Lake	276.0058	12.20
25 Yr - 72 hrs	Sub-Basin 1 Lake	278.0058	12.16
25 Yr - 72 hrs	Sub-Basin 1 Lake	280.0058	12.13
25 Yr - 72 hrs	Sub-Basin 1 Lake	282.0058	12.10
25 Yr - 72 hrs	Sub-Basin 1 Lake	284.0058	12.08
25 Yr - 72 hrs	Sub-Basin 1 Lake	286.0058	12.05
25 Yr - 72 hrs	Sub-Basin 1 Lake	288.0058	12.03
25 Yr - 72 hrs	Sub-Basin 1 Lake	290.0058	12.01
25 Yr - 72 hrs	Sub-Basin 1 Lake	292.0058	11.99
25 Yr - 72 hrs	Sub-Basin 1 Lake	294.0058	11.98
25 Yr - 72 hrs	Sub-Basin 1 Lake	296.0058	11.96
25 Yr - 72 hrs	Sub-Basin 1 Lake	298.0058	11.95
25 Yr - 72 hrs	Sub-Basin 1 Lake	300.0058	11.94
25 Yr - 72 hrs	Sub-Basin 1 Lake	302.0058	11.92
25 Yr - 72 hrs	Sub-Basin 1 Lake	304.0058	11.91
25 Yr - 72 hrs	Sub-Basin 1 Lake	306.0058	11.90
25 Yr - 72 hrs	Sub-Basin 1 Lake	308.0058	11.90
25 Yr - 72 hrs	Sub-Basin 1 Lake	310.0058	11.89
25 Yr - 72 hrs	Sub-Basin 1 Lake	312.0058	11.88
25 Yr - 72 hrs	Sub-Basin 1 Lake	314.0058	11.87
25 Yr - 72 hrs	Sub-Basin 1 Lake	316.0058	11.87
25 Yr - 72 hrs	Sub-Basin 1 Lake	318.0058	11.86
25 Yr - 72 hrs	Sub-Basin 1 Lake	320.0058	11.85
25 Yr - 72 hrs	Sub-Basin 1 Lake	322.0058	11.85
25 Yr - 72 hrs	Sub-Basin 1 Lake	324.0058	11.84
25 Yr - 72 hrs	Sub-Basin 1 Lake	326.0058	11.84
25 Yr - 72 hrs	Sub-Basin 1 Lake	328.0058	11.83
25 Yr - 72 hrs	Sub-Basin 1 Lake	330.0058	11.83
25 Yr - 72 hrs	Sub-Basin 1 Lake	332.0058	11.83
25 Yr - 72 hrs	Sub-Basin 1 Lake	334.0058	11.82
25 Yr - 72 hrs	Sub-Basin 1 Lake	336.0058	11.82
25 Yr - 72 hrs	Sub-Basin 1 Lake	338.0058	11.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	340.0058	11.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	342.0058	11.81
25 Yr - 72 hrs	Sub-Basin 1 Lake	344.0058	11.80
25 Yr - 72 hrs	Sub-Basin 1 Lake	346.0058	11.80
25 Yr - 72 hrs	Sub-Basin 1 Lake	348.0058	11.80
25 Yr - 72 hrs	Sub-Basin 1 Lake	350.0058	11.80
25 Yr - 72 hrs	Sub-Basin 1 Lake	352.0058	11.79

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 1 Lake	354.0058	11.79
25 Yr - 72 hrs	Sub-Basin 1 Lake	356.0058	11.79
25 Yr - 72 hrs	Sub-Basin 1 Lake	358.0058	11.79
25 Yr - 72 hrs	Sub-Basin 1 Lake	360.0058	11.79
25 Yr - 72 hrs	Sub-Basin 2	0.0000	13.20
25 Yr - 72 hrs	Sub-Basin 2	2.0042	13.53
25 Yr - 72 hrs	Sub-Basin 2	4.0017	13.85
25 Yr - 72 hrs	Sub-Basin 2	6.0002	14.14
25 Yr - 72 hrs	Sub-Basin 2	8.0010	14.41
25 Yr - 72 hrs	Sub-Basin 2	10.0018	14.61
25 Yr - 72 hrs	Sub-Basin 2	12.0007	14.61
25 Yr - 72 hrs	Sub-Basin 2	14.0000	14.61
25 Yr - 72 hrs	Sub-Basin 2	16.0007	14.61
25 Yr - 72 hrs	Sub-Basin 2	18.0001	14.61
25 Yr - 72 hrs	Sub-Basin 2	20.0005	14.61
25 Yr - 72 hrs	Sub-Basin 2	22.0002	14.61
25 Yr - 72 hrs	Sub-Basin 2	24.0004	14.61
25 Yr - 72 hrs	Sub-Basin 2	26.0004	14.62
25 Yr - 72 hrs	Sub-Basin 2	28.0003	14.62
25 Yr - 72 hrs	Sub-Basin 2	30.0007	14.62
25 Yr - 72 hrs	Sub-Basin 2	32.0008	14.62
25 Yr - 72 hrs	Sub-Basin 2	34.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	36.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	38.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	40.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	42.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	44.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	46.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	48.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	50.0068	14.62
25 Yr - 72 hrs	Sub-Basin 2	52.0068	14.63
25 Yr - 72 hrs	Sub-Basin 2	54.0068	14.64
25 Yr - 72 hrs	Sub-Basin 2	56.0068	14.65
25 Yr - 72 hrs	Sub-Basin 2	58.0068	14.67
25 Yr - 72 hrs	Sub-Basin 2	60.0000	15.11
25 Yr - 72 hrs	Sub-Basin 2	61.0000	15.32
25 Yr - 72 hrs	Sub-Basin 2	62.0032	14.94
25 Yr - 72 hrs	Sub-Basin 2	63.0058	14.98
25 Yr - 72 hrs	Sub-Basin 2	64.0058	15.04
25 Yr - 72 hrs	Sub-Basin 2	65.0058	15.07
25 Yr - 72 hrs	Sub-Basin 2	66.0058	15.10
25 Yr - 72 hrs	Sub-Basin 2	67.0058	15.13

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2	68.0058	15.15
25 Yr - 72 hrs	Sub-Basin 2	69.0058	15.17
25 Yr - 72 hrs	Sub-Basin 2	70.0058	15.18
25 Yr - 72 hrs	Sub-Basin 2	71.0058	15.19
25 Yr - 72 hrs	Sub-Basin 2	72.0058	15.21
25 Yr - 72 hrs	Sub-Basin 2	73.0058	15.19
25 Yr - 72 hrs	Sub-Basin 2	74.0058	15.18
25 Yr - 72 hrs	Sub-Basin 2	75.0058	15.16
25 Yr - 72 hrs	Sub-Basin 2	76.0058	15.14
25 Yr - 72 hrs	Sub-Basin 2	77.0058	15.13
25 Yr - 72 hrs	Sub-Basin 2	78.0058	15.11
25 Yr - 72 hrs	Sub-Basin 2	79.0058	15.10
25 Yr - 72 hrs	Sub-Basin 2	80.0058	15.08
25 Yr - 72 hrs	Sub-Basin 2	82.0058	15.05
25 Yr - 72 hrs	Sub-Basin 2	84.0058	15.02
25 Yr - 72 hrs	Sub-Basin 2	86.0058	14.99
25 Yr - 72 hrs	Sub-Basin 2	88.0058	14.96
25 Yr - 72 hrs	Sub-Basin 2	90.0058	14.93
25 Yr - 72 hrs	Sub-Basin 2	92.0058	14.90
25 Yr - 72 hrs	Sub-Basin 2	94.0058	14.87
25 Yr - 72 hrs	Sub-Basin 2	96.0058	14.84
25 Yr - 72 hrs	Sub-Basin 2	98.0058	14.81
25 Yr - 72 hrs	Sub-Basin 2	100.0058	14.78
25 Yr - 72 hrs	Sub-Basin 2	102.0058	14.75
25 Yr - 72 hrs	Sub-Basin 2	104.0058	14.72
25 Yr - 72 hrs	Sub-Basin 2	106.0058	14.69
25 Yr - 72 hrs	Sub-Basin 2	108.0058	14.66
25 Yr - 72 hrs	Sub-Basin 2	110.0058	14.63
25 Yr - 72 hrs	Sub-Basin 2	112.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	114.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	116.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	118.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	120.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	122.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	124.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	126.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	128.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	130.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	132.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	134.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	136.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	138.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2	140.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	142.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	144.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	146.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	148.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	150.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	152.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	154.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	156.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	158.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	160.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	162.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	164.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	166.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	168.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	170.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	172.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	174.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	176.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	178.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	180.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	182.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	184.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	186.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	188.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	190.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	192.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	194.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	196.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	198.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	200.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	202.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	204.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	206.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	208.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	210.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	212.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	214.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	216.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	218.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	220.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	222.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2	224.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	226.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	228.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	230.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	232.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	234.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	236.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	238.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	240.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	242.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	244.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	246.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	248.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	250.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	252.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	254.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	256.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	258.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	260.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	262.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	264.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	266.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	268.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	270.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	272.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	274.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	276.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	278.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	280.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	282.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	284.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	286.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	288.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	290.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	292.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	294.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	296.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	298.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	300.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	302.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	304.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	306.0058	14.60

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2	308.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	310.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	312.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	314.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	316.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	318.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	320.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	322.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	324.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	326.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	328.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	330.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	332.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	334.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	336.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	338.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	340.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	342.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	344.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	346.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	348.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	350.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	352.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	354.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	356.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	358.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2	360.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2 Lake	0.0000	11.70
25 Yr - 72 hrs	Sub-Basin 2 Lake	2.0042	11.71
25 Yr - 72 hrs	Sub-Basin 2 Lake	4.0017	11.72
25 Yr - 72 hrs	Sub-Basin 2 Lake	6.0002	11.73
25 Yr - 72 hrs	Sub-Basin 2 Lake	8.0010	11.74
25 Yr - 72 hrs	Sub-Basin 2 Lake	10.0018	11.76
25 Yr - 72 hrs	Sub-Basin 2 Lake	12.0007	11.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	14.0000	11.86
25 Yr - 72 hrs	Sub-Basin 2 Lake	16.0007	11.90
25 Yr - 72 hrs	Sub-Basin 2 Lake	18.0001	11.95
25 Yr - 72 hrs	Sub-Basin 2 Lake	20.0005	11.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	22.0002	12.02
25 Yr - 72 hrs	Sub-Basin 2 Lake	24.0004	12.10
25 Yr - 72 hrs	Sub-Basin 2 Lake	26.0004	12.21
25 Yr - 72 hrs	Sub-Basin 2 Lake	28.0003	12.32

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2 Lake	30.0007	12.43
25 Yr - 72 hrs	Sub-Basin 2 Lake	32.0008	12.54
25 Yr - 72 hrs	Sub-Basin 2 Lake	34.0068	12.65
25 Yr - 72 hrs	Sub-Basin 2 Lake	36.0068	12.75
25 Yr - 72 hrs	Sub-Basin 2 Lake	38.0068	12.86
25 Yr - 72 hrs	Sub-Basin 2 Lake	40.0068	12.95
25 Yr - 72 hrs	Sub-Basin 2 Lake	42.0068	12.97
25 Yr - 72 hrs	Sub-Basin 2 Lake	44.0068	12.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	46.0068	12.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	48.0068	12.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	50.0068	12.99
25 Yr - 72 hrs	Sub-Basin 2 Lake	52.0068	13.03
25 Yr - 72 hrs	Sub-Basin 2 Lake	54.0068	13.12
25 Yr - 72 hrs	Sub-Basin 2 Lake	56.0068	13.25
25 Yr - 72 hrs	Sub-Basin 2 Lake	58.0068	13.43
25 Yr - 72 hrs	Sub-Basin 2 Lake	60.0000	14.99
25 Yr - 72 hrs	Sub-Basin 2 Lake	61.0000	15.31
25 Yr - 72 hrs	Sub-Basin 2 Lake	62.0032	14.94
25 Yr - 72 hrs	Sub-Basin 2 Lake	63.0058	14.97
25 Yr - 72 hrs	Sub-Basin 2 Lake	64.0058	15.03
25 Yr - 72 hrs	Sub-Basin 2 Lake	65.0058	15.07
25 Yr - 72 hrs	Sub-Basin 2 Lake	66.0058	15.09
25 Yr - 72 hrs	Sub-Basin 2 Lake	67.0058	15.12
25 Yr - 72 hrs	Sub-Basin 2 Lake	68.0058	15.15
25 Yr - 72 hrs	Sub-Basin 2 Lake	69.0058	15.16
25 Yr - 72 hrs	Sub-Basin 2 Lake	70.0058	15.18
25 Yr - 72 hrs	Sub-Basin 2 Lake	71.0058	15.19
25 Yr - 72 hrs	Sub-Basin 2 Lake	72.0058	15.20
25 Yr - 72 hrs	Sub-Basin 2 Lake	73.0058	15.19
25 Yr - 72 hrs	Sub-Basin 2 Lake	74.0058	15.17
25 Yr - 72 hrs	Sub-Basin 2 Lake	75.0058	15.16
25 Yr - 72 hrs	Sub-Basin 2 Lake	76.0058	15.14
25 Yr - 72 hrs	Sub-Basin 2 Lake	77.0058	15.13
25 Yr - 72 hrs	Sub-Basin 2 Lake	78.0058	15.11
25 Yr - 72 hrs	Sub-Basin 2 Lake	79.0058	15.10
25 Yr - 72 hrs	Sub-Basin 2 Lake	80.0058	15.08
25 Yr - 72 hrs	Sub-Basin 2 Lake	82.0058	15.05
25 Yr - 72 hrs	Sub-Basin 2 Lake	84.0058	15.02
25 Yr - 72 hrs	Sub-Basin 2 Lake	86.0058	14.99
25 Yr - 72 hrs	Sub-Basin 2 Lake	88.0058	14.96
25 Yr - 72 hrs	Sub-Basin 2 Lake	90.0058	14.93
25 Yr - 72 hrs	Sub-Basin 2 Lake	92.0058	14.90

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2 Lake	94.0058	14.87
25 Yr - 72 hrs	Sub-Basin 2 Lake	96.0058	14.84
25 Yr - 72 hrs	Sub-Basin 2 Lake	98.0058	14.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	100.0058	14.78
25 Yr - 72 hrs	Sub-Basin 2 Lake	102.0058	14.75
25 Yr - 72 hrs	Sub-Basin 2 Lake	104.0058	14.72
25 Yr - 72 hrs	Sub-Basin 2 Lake	106.0058	14.69
25 Yr - 72 hrs	Sub-Basin 2 Lake	108.0058	14.66
25 Yr - 72 hrs	Sub-Basin 2 Lake	110.0058	14.63
25 Yr - 72 hrs	Sub-Basin 2 Lake	112.0058	14.60
25 Yr - 72 hrs	Sub-Basin 2 Lake	114.0058	14.57
25 Yr - 72 hrs	Sub-Basin 2 Lake	116.0058	14.54
25 Yr - 72 hrs	Sub-Basin 2 Lake	118.0058	14.51
25 Yr - 72 hrs	Sub-Basin 2 Lake	120.0058	14.48
25 Yr - 72 hrs	Sub-Basin 2 Lake	122.0058	14.45
25 Yr - 72 hrs	Sub-Basin 2 Lake	124.0058	14.42
25 Yr - 72 hrs	Sub-Basin 2 Lake	126.0058	14.39
25 Yr - 72 hrs	Sub-Basin 2 Lake	128.0058	14.36
25 Yr - 72 hrs	Sub-Basin 2 Lake	130.0058	14.33
25 Yr - 72 hrs	Sub-Basin 2 Lake	132.0058	14.30
25 Yr - 72 hrs	Sub-Basin 2 Lake	134.0058	14.27
25 Yr - 72 hrs	Sub-Basin 2 Lake	136.0058	14.24
25 Yr - 72 hrs	Sub-Basin 2 Lake	138.0058	14.21
25 Yr - 72 hrs	Sub-Basin 2 Lake	140.0058	14.18
25 Yr - 72 hrs	Sub-Basin 2 Lake	142.0058	14.15
25 Yr - 72 hrs	Sub-Basin 2 Lake	144.0058	14.12
25 Yr - 72 hrs	Sub-Basin 2 Lake	146.0058	14.10
25 Yr - 72 hrs	Sub-Basin 2 Lake	148.0058	14.07
25 Yr - 72 hrs	Sub-Basin 2 Lake	150.0058	14.04
25 Yr - 72 hrs	Sub-Basin 2 Lake	152.0058	14.01
25 Yr - 72 hrs	Sub-Basin 2 Lake	154.0058	13.99
25 Yr - 72 hrs	Sub-Basin 2 Lake	156.0058	13.96
25 Yr - 72 hrs	Sub-Basin 2 Lake	158.0058	13.93
25 Yr - 72 hrs	Sub-Basin 2 Lake	160.0058	13.91
25 Yr - 72 hrs	Sub-Basin 2 Lake	162.0058	13.88
25 Yr - 72 hrs	Sub-Basin 2 Lake	164.0058	13.85
25 Yr - 72 hrs	Sub-Basin 2 Lake	166.0058	13.83
25 Yr - 72 hrs	Sub-Basin 2 Lake	168.0058	13.80
25 Yr - 72 hrs	Sub-Basin 2 Lake	170.0058	13.77
25 Yr - 72 hrs	Sub-Basin 2 Lake	172.0058	13.75
25 Yr - 72 hrs	Sub-Basin 2 Lake	174.0058	13.72
25 Yr - 72 hrs	Sub-Basin 2 Lake	176.0058	13.70

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2 Lake	178.0058	13.67
25 Yr - 72 hrs	Sub-Basin 2 Lake	180.0058	13.65
25 Yr - 72 hrs	Sub-Basin 2 Lake	182.0058	13.62
25 Yr - 72 hrs	Sub-Basin 2 Lake	184.0058	13.60
25 Yr - 72 hrs	Sub-Basin 2 Lake	186.0058	13.57
25 Yr - 72 hrs	Sub-Basin 2 Lake	188.0058	13.55
25 Yr - 72 hrs	Sub-Basin 2 Lake	190.0058	13.52
25 Yr - 72 hrs	Sub-Basin 2 Lake	192.0058	13.50
25 Yr - 72 hrs	Sub-Basin 2 Lake	194.0058	13.48
25 Yr - 72 hrs	Sub-Basin 2 Lake	196.0058	13.45
25 Yr - 72 hrs	Sub-Basin 2 Lake	198.0058	13.43
25 Yr - 72 hrs	Sub-Basin 2 Lake	200.0058	13.41
25 Yr - 72 hrs	Sub-Basin 2 Lake	202.0058	13.38
25 Yr - 72 hrs	Sub-Basin 2 Lake	204.0058	13.36
25 Yr - 72 hrs	Sub-Basin 2 Lake	206.0058	13.34
25 Yr - 72 hrs	Sub-Basin 2 Lake	208.0058	13.32
25 Yr - 72 hrs	Sub-Basin 2 Lake	210.0058	13.30
25 Yr - 72 hrs	Sub-Basin 2 Lake	212.0058	13.28
25 Yr - 72 hrs	Sub-Basin 2 Lake	214.0058	13.26
25 Yr - 72 hrs	Sub-Basin 2 Lake	216.0058	13.24
25 Yr - 72 hrs	Sub-Basin 2 Lake	218.0058	13.21
25 Yr - 72 hrs	Sub-Basin 2 Lake	220.0058	13.19
25 Yr - 72 hrs	Sub-Basin 2 Lake	222.0058	13.17
25 Yr - 72 hrs	Sub-Basin 2 Lake	224.0058	13.15
25 Yr - 72 hrs	Sub-Basin 2 Lake	226.0058	13.13
25 Yr - 72 hrs	Sub-Basin 2 Lake	228.0058	13.11
25 Yr - 72 hrs	Sub-Basin 2 Lake	230.0058	13.09
25 Yr - 72 hrs	Sub-Basin 2 Lake	232.0058	13.08
25 Yr - 72 hrs	Sub-Basin 2 Lake	234.0058	13.06
25 Yr - 72 hrs	Sub-Basin 2 Lake	236.0058	13.04
25 Yr - 72 hrs	Sub-Basin 2 Lake	238.0058	13.02
25 Yr - 72 hrs	Sub-Basin 2 Lake	240.0058	13.00
25 Yr - 72 hrs	Sub-Basin 2 Lake	242.0058	12.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	244.0058	12.96
25 Yr - 72 hrs	Sub-Basin 2 Lake	246.0058	12.93
25 Yr - 72 hrs	Sub-Basin 2 Lake	248.0058	12.90
25 Yr - 72 hrs	Sub-Basin 2 Lake	250.0058	12.86
25 Yr - 72 hrs	Sub-Basin 2 Lake	252.0058	12.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	254.0058	12.76
25 Yr - 72 hrs	Sub-Basin 2 Lake	256.0058	12.70
25 Yr - 72 hrs	Sub-Basin 2 Lake	258.0058	12.65
25 Yr - 72 hrs	Sub-Basin 2 Lake	260.0058	12.59

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2 Lake	262.0058	12.53
25 Yr - 72 hrs	Sub-Basin 2 Lake	264.0058	12.48
25 Yr - 72 hrs	Sub-Basin 2 Lake	266.0058	12.43
25 Yr - 72 hrs	Sub-Basin 2 Lake	268.0058	12.38
25 Yr - 72 hrs	Sub-Basin 2 Lake	270.0058	12.33
25 Yr - 72 hrs	Sub-Basin 2 Lake	272.0058	12.28
25 Yr - 72 hrs	Sub-Basin 2 Lake	274.0058	12.24
25 Yr - 72 hrs	Sub-Basin 2 Lake	276.0058	12.20
25 Yr - 72 hrs	Sub-Basin 2 Lake	278.0058	12.16
25 Yr - 72 hrs	Sub-Basin 2 Lake	280.0058	12.13
25 Yr - 72 hrs	Sub-Basin 2 Lake	282.0058	12.10
25 Yr - 72 hrs	Sub-Basin 2 Lake	284.0058	12.07
25 Yr - 72 hrs	Sub-Basin 2 Lake	286.0058	12.05
25 Yr - 72 hrs	Sub-Basin 2 Lake	288.0058	12.03
25 Yr - 72 hrs	Sub-Basin 2 Lake	290.0058	12.01
25 Yr - 72 hrs	Sub-Basin 2 Lake	292.0058	11.99
25 Yr - 72 hrs	Sub-Basin 2 Lake	294.0058	11.98
25 Yr - 72 hrs	Sub-Basin 2 Lake	296.0058	11.96
25 Yr - 72 hrs	Sub-Basin 2 Lake	298.0058	11.95
25 Yr - 72 hrs	Sub-Basin 2 Lake	300.0058	11.93
25 Yr - 72 hrs	Sub-Basin 2 Lake	302.0058	11.92
25 Yr - 72 hrs	Sub-Basin 2 Lake	304.0058	11.91
25 Yr - 72 hrs	Sub-Basin 2 Lake	306.0058	11.90
25 Yr - 72 hrs	Sub-Basin 2 Lake	308.0058	11.89
25 Yr - 72 hrs	Sub-Basin 2 Lake	310.0058	11.89
25 Yr - 72 hrs	Sub-Basin 2 Lake	312.0058	11.88
25 Yr - 72 hrs	Sub-Basin 2 Lake	314.0058	11.87
25 Yr - 72 hrs	Sub-Basin 2 Lake	316.0058	11.87
25 Yr - 72 hrs	Sub-Basin 2 Lake	318.0058	11.86
25 Yr - 72 hrs	Sub-Basin 2 Lake	320.0058	11.85
25 Yr - 72 hrs	Sub-Basin 2 Lake	322.0058	11.85
25 Yr - 72 hrs	Sub-Basin 2 Lake	324.0058	11.84
25 Yr - 72 hrs	Sub-Basin 2 Lake	326.0058	11.84
25 Yr - 72 hrs	Sub-Basin 2 Lake	328.0058	11.83
25 Yr - 72 hrs	Sub-Basin 2 Lake	330.0058	11.83
25 Yr - 72 hrs	Sub-Basin 2 Lake	332.0058	11.82
25 Yr - 72 hrs	Sub-Basin 2 Lake	334.0058	11.82
25 Yr - 72 hrs	Sub-Basin 2 Lake	336.0058	11.82
25 Yr - 72 hrs	Sub-Basin 2 Lake	338.0058	11.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	340.0058	11.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	342.0058	11.81
25 Yr - 72 hrs	Sub-Basin 2 Lake	344.0058	11.80

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 2 Lake	346.0058	11.80
25 Yr - 72 hrs	Sub-Basin 2 Lake	348.0058	11.80
25 Yr - 72 hrs	Sub-Basin 2 Lake	350.0058	11.80
25 Yr - 72 hrs	Sub-Basin 2 Lake	352.0058	11.79
25 Yr - 72 hrs	Sub-Basin 2 Lake	354.0058	11.79
25 Yr - 72 hrs	Sub-Basin 2 Lake	356.0058	11.79
25 Yr - 72 hrs	Sub-Basin 2 Lake	358.0058	11.79
25 Yr - 72 hrs	Sub-Basin 2 Lake	360.0058	11.79
25 Yr - 72 hrs	Sub-Basin 3 Preserve	0.0000	12.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	2.0042	12.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	4.0017	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	6.0002	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	8.0010	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	10.0018	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	12.0007	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	14.0000	12.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	16.0007	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	18.0001	12.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	20.0005	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	22.0002	12.22
25 Yr - 72 hrs	Sub-Basin 3 Preserve	24.0004	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	26.0004	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	28.0003	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	30.0007	12.21
25 Yr - 72 hrs	Sub-Basin 3 Preserve	32.0008	12.27
25 Yr - 72 hrs	Sub-Basin 3 Preserve	34.0068	12.38
25 Yr - 72 hrs	Sub-Basin 3 Preserve	36.0068	12.44
25 Yr - 72 hrs	Sub-Basin 3 Preserve	38.0068	12.48
25 Yr - 72 hrs	Sub-Basin 3 Preserve	40.0068	12.53
25 Yr - 72 hrs	Sub-Basin 3 Preserve	42.0068	12.61
25 Yr - 72 hrs	Sub-Basin 3 Preserve	44.0068	12.70
25 Yr - 72 hrs	Sub-Basin 3 Preserve	46.0068	12.77
25 Yr - 72 hrs	Sub-Basin 3 Preserve	48.0068	12.85
25 Yr - 72 hrs	Sub-Basin 3 Preserve	50.0068	12.92
25 Yr - 72 hrs	Sub-Basin 3 Preserve	52.0068	12.99
25 Yr - 72 hrs	Sub-Basin 3 Preserve	54.0068	13.09
25 Yr - 72 hrs	Sub-Basin 3 Preserve	56.0068	13.22
25 Yr - 72 hrs	Sub-Basin 3 Preserve	58.0068	13.39
25 Yr - 72 hrs	Sub-Basin 3 Preserve	60.0000	13.79
25 Yr - 72 hrs	Sub-Basin 3 Preserve	61.0000	14.49
25 Yr - 72 hrs	Sub-Basin 3 Preserve	62.0032	14.85
25 Yr - 72 hrs	Sub-Basin 3 Preserve	63.0058	14.96

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 3 Preserve	64.0058	15.02
25 Yr - 72 hrs	Sub-Basin 3 Preserve	65.0058	15.06
25 Yr - 72 hrs	Sub-Basin 3 Preserve	66.0058	15.09
25 Yr - 72 hrs	Sub-Basin 3 Preserve	67.0058	15.12
25 Yr - 72 hrs	Sub-Basin 3 Preserve	68.0058	15.14
25 Yr - 72 hrs	Sub-Basin 3 Preserve	69.0058	15.16
25 Yr - 72 hrs	Sub-Basin 3 Preserve	70.0058	15.18
25 Yr - 72 hrs	Sub-Basin 3 Preserve	71.0058	15.19
25 Yr - 72 hrs	Sub-Basin 3 Preserve	72.0058	15.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	73.0058	15.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	74.0058	15.18
25 Yr - 72 hrs	Sub-Basin 3 Preserve	75.0058	15.17
25 Yr - 72 hrs	Sub-Basin 3 Preserve	76.0058	15.15
25 Yr - 72 hrs	Sub-Basin 3 Preserve	77.0058	15.14
25 Yr - 72 hrs	Sub-Basin 3 Preserve	78.0058	15.12
25 Yr - 72 hrs	Sub-Basin 3 Preserve	79.0058	15.11
25 Yr - 72 hrs	Sub-Basin 3 Preserve	80.0058	15.09
25 Yr - 72 hrs	Sub-Basin 3 Preserve	82.0058	15.06
25 Yr - 72 hrs	Sub-Basin 3 Preserve	84.0058	15.03
25 Yr - 72 hrs	Sub-Basin 3 Preserve	86.0058	15.00
25 Yr - 72 hrs	Sub-Basin 3 Preserve	88.0058	14.97
25 Yr - 72 hrs	Sub-Basin 3 Preserve	90.0058	14.94
25 Yr - 72 hrs	Sub-Basin 3 Preserve	92.0058	14.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	94.0058	14.88
25 Yr - 72 hrs	Sub-Basin 3 Preserve	96.0058	14.85
25 Yr - 72 hrs	Sub-Basin 3 Preserve	98.0058	14.82
25 Yr - 72 hrs	Sub-Basin 3 Preserve	100.0058	14.79
25 Yr - 72 hrs	Sub-Basin 3 Preserve	102.0058	14.76
25 Yr - 72 hrs	Sub-Basin 3 Preserve	104.0058	14.73
25 Yr - 72 hrs	Sub-Basin 3 Preserve	106.0058	14.70
25 Yr - 72 hrs	Sub-Basin 3 Preserve	108.0058	14.67
25 Yr - 72 hrs	Sub-Basin 3 Preserve	110.0058	14.64
25 Yr - 72 hrs	Sub-Basin 3 Preserve	112.0058	14.61
25 Yr - 72 hrs	Sub-Basin 3 Preserve	114.0058	14.58
25 Yr - 72 hrs	Sub-Basin 3 Preserve	116.0058	14.55
25 Yr - 72 hrs	Sub-Basin 3 Preserve	118.0058	14.52
25 Yr - 72 hrs	Sub-Basin 3 Preserve	120.0058	14.49
25 Yr - 72 hrs	Sub-Basin 3 Preserve	122.0058	14.46
25 Yr - 72 hrs	Sub-Basin 3 Preserve	124.0058	14.43
25 Yr - 72 hrs	Sub-Basin 3 Preserve	126.0058	14.40
25 Yr - 72 hrs	Sub-Basin 3 Preserve	128.0058	14.37
25 Yr - 72 hrs	Sub-Basin 3 Preserve	130.0058	14.34

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 3 Preserve	132.0058	14.31
25 Yr - 72 hrs	Sub-Basin 3 Preserve	134.0058	14.28
25 Yr - 72 hrs	Sub-Basin 3 Preserve	136.0058	14.25
25 Yr - 72 hrs	Sub-Basin 3 Preserve	138.0058	14.22
25 Yr - 72 hrs	Sub-Basin 3 Preserve	140.0058	14.19
25 Yr - 72 hrs	Sub-Basin 3 Preserve	142.0058	14.16
25 Yr - 72 hrs	Sub-Basin 3 Preserve	144.0058	14.13
25 Yr - 72 hrs	Sub-Basin 3 Preserve	146.0058	14.11
25 Yr - 72 hrs	Sub-Basin 3 Preserve	148.0058	14.08
25 Yr - 72 hrs	Sub-Basin 3 Preserve	150.0058	14.05
25 Yr - 72 hrs	Sub-Basin 3 Preserve	152.0058	14.02
25 Yr - 72 hrs	Sub-Basin 3 Preserve	154.0058	14.00
25 Yr - 72 hrs	Sub-Basin 3 Preserve	156.0058	13.97
25 Yr - 72 hrs	Sub-Basin 3 Preserve	158.0058	13.94
25 Yr - 72 hrs	Sub-Basin 3 Preserve	160.0058	13.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	162.0058	13.89
25 Yr - 72 hrs	Sub-Basin 3 Preserve	164.0058	13.86
25 Yr - 72 hrs	Sub-Basin 3 Preserve	166.0058	13.84
25 Yr - 72 hrs	Sub-Basin 3 Preserve	168.0058	13.81
25 Yr - 72 hrs	Sub-Basin 3 Preserve	170.0058	13.78
25 Yr - 72 hrs	Sub-Basin 3 Preserve	172.0058	13.76
25 Yr - 72 hrs	Sub-Basin 3 Preserve	174.0058	13.73
25 Yr - 72 hrs	Sub-Basin 3 Preserve	176.0058	13.71
25 Yr - 72 hrs	Sub-Basin 3 Preserve	178.0058	13.68
25 Yr - 72 hrs	Sub-Basin 3 Preserve	180.0058	13.66
25 Yr - 72 hrs	Sub-Basin 3 Preserve	182.0058	13.63
25 Yr - 72 hrs	Sub-Basin 3 Preserve	184.0058	13.61
25 Yr - 72 hrs	Sub-Basin 3 Preserve	186.0058	13.58
25 Yr - 72 hrs	Sub-Basin 3 Preserve	188.0058	13.56
25 Yr - 72 hrs	Sub-Basin 3 Preserve	190.0058	13.53
25 Yr - 72 hrs	Sub-Basin 3 Preserve	192.0058	13.51
25 Yr - 72 hrs	Sub-Basin 3 Preserve	194.0058	13.49
25 Yr - 72 hrs	Sub-Basin 3 Preserve	196.0058	13.46
25 Yr - 72 hrs	Sub-Basin 3 Preserve	198.0058	13.44
25 Yr - 72 hrs	Sub-Basin 3 Preserve	200.0058	13.42
25 Yr - 72 hrs	Sub-Basin 3 Preserve	202.0058	13.39
25 Yr - 72 hrs	Sub-Basin 3 Preserve	204.0058	13.37
25 Yr - 72 hrs	Sub-Basin 3 Preserve	206.0058	13.35
25 Yr - 72 hrs	Sub-Basin 3 Preserve	208.0058	13.33
25 Yr - 72 hrs	Sub-Basin 3 Preserve	210.0058	13.31
25 Yr - 72 hrs	Sub-Basin 3 Preserve	212.0058	13.29
25 Yr - 72 hrs	Sub-Basin 3 Preserve	214.0058	13.26

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 3 Preserve	216.0058	13.24
25 Yr - 72 hrs	Sub-Basin 3 Preserve	218.0058	13.22
25 Yr - 72 hrs	Sub-Basin 3 Preserve	220.0058	13.20
25 Yr - 72 hrs	Sub-Basin 3 Preserve	222.0058	13.18
25 Yr - 72 hrs	Sub-Basin 3 Preserve	224.0058	13.16
25 Yr - 72 hrs	Sub-Basin 3 Preserve	226.0058	13.14
25 Yr - 72 hrs	Sub-Basin 3 Preserve	228.0058	13.12
25 Yr - 72 hrs	Sub-Basin 3 Preserve	230.0058	13.10
25 Yr - 72 hrs	Sub-Basin 3 Preserve	232.0058	13.08
25 Yr - 72 hrs	Sub-Basin 3 Preserve	234.0058	13.07
25 Yr - 72 hrs	Sub-Basin 3 Preserve	236.0058	13.05
25 Yr - 72 hrs	Sub-Basin 3 Preserve	238.0058	13.03
25 Yr - 72 hrs	Sub-Basin 3 Preserve	240.0058	13.01
25 Yr - 72 hrs	Sub-Basin 3 Preserve	242.0058	12.99
25 Yr - 72 hrs	Sub-Basin 3 Preserve	244.0058	12.97
25 Yr - 72 hrs	Sub-Basin 3 Preserve	246.0058	12.95
25 Yr - 72 hrs	Sub-Basin 3 Preserve	248.0058	12.94
25 Yr - 72 hrs	Sub-Basin 3 Preserve	250.0058	12.93
25 Yr - 72 hrs	Sub-Basin 3 Preserve	252.0058	12.92
25 Yr - 72 hrs	Sub-Basin 3 Preserve	254.0058	12.92
25 Yr - 72 hrs	Sub-Basin 3 Preserve	256.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	258.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	260.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	262.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	264.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	266.0058	12.91
25 Yr - 72 hrs	Sub-Basin 3 Preserve	268.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	270.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	272.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	274.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	276.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	278.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	280.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	282.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	284.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	286.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	288.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	290.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	292.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	294.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	296.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	298.0058	12.90

Time Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]
25 Yr - 72 hrs	Sub-Basin 3 Preserve	300.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	302.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	304.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	306.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	308.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	310.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	312.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	314.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	316.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	318.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	320.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	322.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	324.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	326.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	328.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	330.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	332.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	334.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	336.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	338.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	340.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	342.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	344.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	346.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	348.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	350.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	352.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	354.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	356.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	358.0058	12.90
25 Yr - 72 hrs	Sub-Basin 3 Preserve	360.0058	12.90

Volume Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Volume [ft3]	Total Outflow Volume [ft3]
25 Yr - 72 hrs	Sub-Basin 2 Lake	0.0000	11.70	0	0
25 Yr - 72 hrs	Sub-Basin 2 Lake	2.0042	11.71	192	0
25 Yr - 72 hrs	Sub-Basin 2 Lake	4.0017	11.72	399	2
25 Yr - 72 hrs	Sub-Basin 2 Lake	6.0002	11.73	643	29
25 Yr - 72 hrs	Sub-Basin 2 Lake	8.0010	11.74	944	90
25 Yr - 72 hrs	Sub-Basin 2 Lake	10.0018	11.76	1836	499
25 Yr - 72 hrs	Sub-Basin 2 Lake	12.0007	11.81	4469	1979
25 Yr - 72 hrs	Sub-Basin 2 Lake	14.0000	11.86	7109	3468
25 Yr - 72 hrs	Sub-Basin 2 Lake	16.0007	11.90	9603	4873
25 Yr - 72 hrs	Sub-Basin 2 Lake	18.0001	11.95	12010	6312
25 Yr - 72 hrs	Sub-Basin 2 Lake	20.0005	11.98	14424	7842
25 Yr - 72 hrs	Sub-Basin 2 Lake	22.0002	12.02	16850	9414
25 Yr - 72 hrs	Sub-Basin 2 Lake	24.0004	12.10	19667	10391
25 Yr - 72 hrs	Sub-Basin 2 Lake	26.0004	12.21	23814	11892
25 Yr - 72 hrs	Sub-Basin 2 Lake	28.0003	12.32	28631	14000
25 Yr - 72 hrs	Sub-Basin 2 Lake	30.0007	12.43	33757	16450
25 Yr - 72 hrs	Sub-Basin 2 Lake	32.0008	12.54	39152	19190
25 Yr - 72 hrs	Sub-Basin 2 Lake	34.0068	12.65	44806	22196
25 Yr - 72 hrs	Sub-Basin 2 Lake	36.0068	12.75	50662	25424
25 Yr - 72 hrs	Sub-Basin 2 Lake	38.0068	12.86	56755	28866
25 Yr - 72 hrs	Sub-Basin 2 Lake	40.0068	12.95	62679	32508
25 Yr - 72 hrs	Sub-Basin 2 Lake	42.0068	12.97	67266	36460
25 Yr - 72 hrs	Sub-Basin 2 Lake	44.0068	12.98	71827	40898
25 Yr - 72 hrs	Sub-Basin 2 Lake	46.0068	12.98	76450	45464
25 Yr - 72 hrs	Sub-Basin 2 Lake	48.0068	12.98	81132	50098
25 Yr - 72 hrs	Sub-Basin 2 Lake	50.0068	12.99	86359	55060
25 Yr - 72 hrs	Sub-Basin 2 Lake	52.0068	13.03	92858	60586
25 Yr - 72 hrs	Sub-Basin 2 Lake	54.0068	13.12	102610	67964
25 Yr - 72 hrs	Sub-Basin 2 Lake	56.0068	13.25	117061	78977
25 Yr - 72 hrs	Sub-Basin 2 Lake	58.0068	13.43	137632	94777
25 Yr - 72 hrs	Sub-Basin 2 Lake	60.0000	14.99	222593	134884
25 Yr - 72 hrs	Sub-Basin 2 Lake	61.0000	15.31	297559	199736
25 Yr - 72 hrs	Sub-Basin 2 Lake	62.0032	14.94	320516	234416
25 Yr - 72 hrs	Sub-Basin 2 Lake	63.0058	14.97	331670	244367
25 Yr - 72 hrs	Sub-Basin 2 Lake	64.0058	15.03	340705	251533
25 Yr - 72 hrs	Sub-Basin 2 Lake	65.0058	15.07	348015	257876
25 Yr - 72 hrs	Sub-Basin 2 Lake	66.0058	15.09	355110	264083
25 Yr - 72 hrs	Sub-Basin 2 Lake	67.0058	15.12	362199	270314
25 Yr - 72 hrs	Sub-Basin 2 Lake	68.0058	15.15	369301	276569
25 Yr - 72 hrs	Sub-Basin 2 Lake	69.0058	15.16	376053	282839
25 Yr - 72 hrs	Sub-Basin 2 Lake	70.0058	15.18	382741	289113
25 Yr - 72 hrs	Sub-Basin 2 Lake	71.0058	15.19	389421	295389

Volume Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Volume [ft3]	Total Outflow Volume [ft3]
25 Yr - 72 hrs	Sub-Basin 2 Lake	72.0058	15.20	396098	301667
25 Yr - 72 hrs	Sub-Basin 2 Lake	73.0058	15.19	401946	307939
25 Yr - 72 hrs	Sub-Basin 2 Lake	74.0058	15.17	407747	314195
25 Yr - 72 hrs	Sub-Basin 2 Lake	75.0058	15.16	413502	320433
25 Yr - 72 hrs	Sub-Basin 2 Lake	76.0058	15.14	419231	326653
25 Yr - 72 hrs	Sub-Basin 2 Lake	77.0058	15.13	424943	332855
25 Yr - 72 hrs	Sub-Basin 2 Lake	78.0058	15.11	430638	339038
25 Yr - 72 hrs	Sub-Basin 2 Lake	79.0058	15.10	436316	345202
25 Yr - 72 hrs	Sub-Basin 2 Lake	80.0058	15.08	441977	351348
25 Yr - 72 hrs	Sub-Basin 2 Lake	82.0058	15.05	453246	363584
25 Yr - 72 hrs	Sub-Basin 2 Lake	84.0058	15.02	464448	375745
25 Yr - 72 hrs	Sub-Basin 2 Lake	86.0058	14.99	475581	387832
25 Yr - 72 hrs	Sub-Basin 2 Lake	88.0058	14.96	486646	399844
25 Yr - 72 hrs	Sub-Basin 2 Lake	90.0058	14.93	497644	411781
25 Yr - 72 hrs	Sub-Basin 2 Lake	92.0058	14.90	508578	423646
25 Yr - 72 hrs	Sub-Basin 2 Lake	94.0058	14.87	519449	435442
25 Yr - 72 hrs	Sub-Basin 2 Lake	96.0058	14.84	530259	447169
25 Yr - 72 hrs	Sub-Basin 2 Lake	98.0058	14.81	541006	458828
25 Yr - 72 hrs	Sub-Basin 2 Lake	100.0058	14.78	551692	470417
25 Yr - 72 hrs	Sub-Basin 2 Lake	102.0058	14.75	562316	481937
25 Yr - 72 hrs	Sub-Basin 2 Lake	104.0058	14.72	572877	493388
25 Yr - 72 hrs	Sub-Basin 2 Lake	106.0058	14.69	583377	504771
25 Yr - 72 hrs	Sub-Basin 2 Lake	108.0058	14.66	593814	516084
25 Yr - 72 hrs	Sub-Basin 2 Lake	110.0058	14.63	604189	527328
25 Yr - 72 hrs	Sub-Basin 2 Lake	112.0058	14.60	614498	538503
25 Yr - 72 hrs	Sub-Basin 2 Lake	114.0058	14.57	624674	549606
25 Yr - 72 hrs	Sub-Basin 2 Lake	116.0058	14.54	634770	560630
25 Yr - 72 hrs	Sub-Basin 2 Lake	118.0058	14.51	644796	571577
25 Yr - 72 hrs	Sub-Basin 2 Lake	120.0058	14.48	654753	582446
25 Yr - 72 hrs	Sub-Basin 2 Lake	122.0058	14.45	664640	593236
25 Yr - 72 hrs	Sub-Basin 2 Lake	124.0058	14.42	674457	603949
25 Yr - 72 hrs	Sub-Basin 2 Lake	126.0058	14.39	684205	614583
25 Yr - 72 hrs	Sub-Basin 2 Lake	128.0058	14.36	693884	625140
25 Yr - 72 hrs	Sub-Basin 2 Lake	130.0058	14.33	703493	635618
25 Yr - 72 hrs	Sub-Basin 2 Lake	132.0058	14.30	713032	646019
25 Yr - 72 hrs	Sub-Basin 2 Lake	134.0058	14.27	722501	656341
25 Yr - 72 hrs	Sub-Basin 2 Lake	136.0058	14.24	731901	666586
25 Yr - 72 hrs	Sub-Basin 2 Lake	138.0058	14.21	741231	676753
25 Yr - 72 hrs	Sub-Basin 2 Lake	140.0058	14.18	750491	686841
25 Yr - 72 hrs	Sub-Basin 2 Lake	142.0058	14.15	759682	696852
25 Yr - 72 hrs	Sub-Basin 2 Lake	144.0058	14.12	768802	706784
25 Yr - 72 hrs	Sub-Basin 2 Lake	146.0058	14.10	777852	716639

Volume Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Volume [ft3]	Total Outflow Volume [ft3]
25 Yr - 72 hrs	Sub-Basin 2 Lake	148.0058	14.07	786833	726415
25 Yr - 72 hrs	Sub-Basin 2 Lake	150.0058	14.04	795743	736113
25 Yr - 72 hrs	Sub-Basin 2 Lake	152.0058	14.01	804583	745733
25 Yr - 72 hrs	Sub-Basin 2 Lake	154.0058	13.99	813352	755274
25 Yr - 72 hrs	Sub-Basin 2 Lake	156.0058	13.96	822050	764737
25 Yr - 72 hrs	Sub-Basin 2 Lake	158.0058	13.93	830675	774122
25 Yr - 72 hrs	Sub-Basin 2 Lake	160.0058	13.91	839228	783427
25 Yr - 72 hrs	Sub-Basin 2 Lake	162.0058	13.88	847708	792652
25 Yr - 72 hrs	Sub-Basin 2 Lake	164.0058	13.85	856115	801798
25 Yr - 72 hrs	Sub-Basin 2 Lake	166.0058	13.83	864448	810863
25 Yr - 72 hrs	Sub-Basin 2 Lake	168.0058	13.80	872707	819848
25 Yr - 72 hrs	Sub-Basin 2 Lake	170.0058	13.77	880891	828751
25 Yr - 72 hrs	Sub-Basin 2 Lake	172.0058	13.75	889001	837573
25 Yr - 72 hrs	Sub-Basin 2 Lake	174.0058	13.72	897035	846313
25 Yr - 72 hrs	Sub-Basin 2 Lake	176.0058	13.70	904993	854971
25 Yr - 72 hrs	Sub-Basin 2 Lake	178.0058	13.67	912875	863545
25 Yr - 72 hrs	Sub-Basin 2 Lake	180.0058	13.65	920680	872036
25 Yr - 72 hrs	Sub-Basin 2 Lake	182.0058	13.62	928407	880442
25 Yr - 72 hrs	Sub-Basin 2 Lake	184.0058	13.60	936057	888763
25 Yr - 72 hrs	Sub-Basin 2 Lake	186.0058	13.57	943628	896999
25 Yr - 72 hrs	Sub-Basin 2 Lake	188.0058	13.55	951119	905148
25 Yr - 72 hrs	Sub-Basin 2 Lake	190.0058	13.52	958530	913210
25 Yr - 72 hrs	Sub-Basin 2 Lake	192.0058	13.50	965861	921184
25 Yr - 72 hrs	Sub-Basin 2 Lake	194.0058	13.48	973109	929068
25 Yr - 72 hrs	Sub-Basin 2 Lake	196.0058	13.45	980275	936863
25 Yr - 72 hrs	Sub-Basin 2 Lake	198.0058	13.43	987356	944566
25 Yr - 72 hrs	Sub-Basin 2 Lake	200.0058	13.41	994352	952176
25 Yr - 72 hrs	Sub-Basin 2 Lake	202.0058	13.38	1001254	959683
25 Yr - 72 hrs	Sub-Basin 2 Lake	204.0058	13.36	1008052	967076
25 Yr - 72 hrs	Sub-Basin 2 Lake	206.0058	13.34	1014739	974350
25 Yr - 72 hrs	Sub-Basin 2 Lake	208.0058	13.32	1021278	981462
25 Yr - 72 hrs	Sub-Basin 2 Lake	210.0058	13.30	1027664	988407
25 Yr - 72 hrs	Sub-Basin 2 Lake	212.0058	13.28	1033898	995188
25 Yr - 72 hrs	Sub-Basin 2 Lake	214.0058	13.26	1039998	1001833
25 Yr - 72 hrs	Sub-Basin 2 Lake	216.0058	13.24	1045982	1008357
25 Yr - 72 hrs	Sub-Basin 2 Lake	218.0058	13.21	1051832	1014744
25 Yr - 72 hrs	Sub-Basin 2 Lake	220.0058	13.19	1057543	1020987
25 Yr - 72 hrs	Sub-Basin 2 Lake	222.0058	13.17	1063111	1027081
25 Yr - 72 hrs	Sub-Basin 2 Lake	224.0058	13.15	1068537	1033028
25 Yr - 72 hrs	Sub-Basin 2 Lake	226.0058	13.13	1073822	1038828
25 Yr - 72 hrs	Sub-Basin 2 Lake	228.0058	13.11	1078971	1044488
25 Yr - 72 hrs	Sub-Basin 2 Lake	230.0058	13.09	1083989	1050012

Volume Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Volume [ft3]	Total Outflow Volume [ft3]
25 Yr - 72 hrs	Sub-Basin 2 Lake	232.0058	13.08	1088882	1055407
25 Yr - 72 hrs	Sub-Basin 2 Lake	234.0058	13.06	1093655	1060681
25 Yr - 72 hrs	Sub-Basin 2 Lake	236.0058	13.04	1098317	1065840
25 Yr - 72 hrs	Sub-Basin 2 Lake	238.0058	13.02	1102872	1070894
25 Yr - 72 hrs	Sub-Basin 2 Lake	240.0058	13.00	1107327	1075850
25 Yr - 72 hrs	Sub-Basin 2 Lake	242.0058	12.98	1111685	1080717
25 Yr - 72 hrs	Sub-Basin 2 Lake	244.0058	12.96	1115938	1085502
25 Yr - 72 hrs	Sub-Basin 2 Lake	246.0058	12.93	1120048	1090211
25 Yr - 72 hrs	Sub-Basin 2 Lake	248.0058	12.90	1123932	1094844
25 Yr - 72 hrs	Sub-Basin 2 Lake	250.0058	12.86	1127469	1099402
25 Yr - 72 hrs	Sub-Basin 2 Lake	252.0058	12.81	1130670	1103862
25 Yr - 72 hrs	Sub-Basin 2 Lake	254.0058	12.76	1133644	1108203
25 Yr - 72 hrs	Sub-Basin 2 Lake	256.0058	12.70	1136446	1112415
25 Yr - 72 hrs	Sub-Basin 2 Lake	258.0058	12.65	1139106	1116489
25 Yr - 72 hrs	Sub-Basin 2 Lake	260.0058	12.59	1141640	1120423
25 Yr - 72 hrs	Sub-Basin 2 Lake	262.0058	12.53	1144059	1124211
25 Yr - 72 hrs	Sub-Basin 2 Lake	264.0058	12.48	1146368	1127852
25 Yr - 72 hrs	Sub-Basin 2 Lake	266.0058	12.43	1148571	1131342
25 Yr - 72 hrs	Sub-Basin 2 Lake	268.0058	12.38	1150659	1134663
25 Yr - 72 hrs	Sub-Basin 2 Lake	270.0058	12.33	1152634	1137813
25 Yr - 72 hrs	Sub-Basin 2 Lake	272.0058	12.28	1154498	1140791
25 Yr - 72 hrs	Sub-Basin 2 Lake	274.0058	12.24	1156249	1143594
25 Yr - 72 hrs	Sub-Basin 2 Lake	276.0058	12.20	1157888	1146222
25 Yr - 72 hrs	Sub-Basin 2 Lake	278.0058	12.16	1159346	1148558
25 Yr - 72 hrs	Sub-Basin 2 Lake	280.0058	12.13	1160599	1150566
25 Yr - 72 hrs	Sub-Basin 2 Lake	282.0058	12.10	1161698	1152329
25 Yr - 72 hrs	Sub-Basin 2 Lake	284.0058	12.07	1162717	1153964
25 Yr - 72 hrs	Sub-Basin 2 Lake	286.0058	12.05	1163652	1155465
25 Yr - 72 hrs	Sub-Basin 2 Lake	288.0058	12.03	1164502	1156830
25 Yr - 72 hrs	Sub-Basin 2 Lake	290.0058	12.01	1165273	1158067
25 Yr - 72 hrs	Sub-Basin 2 Lake	292.0058	11.99	1165970	1159186
25 Yr - 72 hrs	Sub-Basin 2 Lake	294.0058	11.98	1166601	1160201
25 Yr - 72 hrs	Sub-Basin 2 Lake	296.0058	11.96	1167174	1161123
25 Yr - 72 hrs	Sub-Basin 2 Lake	298.0058	11.95	1167695	1161962
25 Yr - 72 hrs	Sub-Basin 2 Lake	300.0058	11.93	1168170	1162727
25 Yr - 72 hrs	Sub-Basin 2 Lake	302.0058	11.92	1168605	1163428
25 Yr - 72 hrs	Sub-Basin 2 Lake	304.0058	11.91	1169002	1164068
25 Yr - 72 hrs	Sub-Basin 2 Lake	306.0058	11.90	1169366	1164656
25 Yr - 72 hrs	Sub-Basin 2 Lake	308.0058	11.89	1169701	1165198
25 Yr - 72 hrs	Sub-Basin 2 Lake	310.0058	11.89	1170010	1165698
25 Yr - 72 hrs	Sub-Basin 2 Lake	312.0058	11.88	1170297	1166161
25 Yr - 72 hrs	Sub-Basin 2 Lake	314.0058	11.87	1170563	1166592

Volume Series

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Volume [ft3]	Total Outflow Volume [ft3]
25 Yr - 72 hrs	Sub-Basin 2 Lake	316.0058	11.87	1170811	1166993
25 Yr - 72 hrs	Sub-Basin 2 Lake	318.0058	11.86	1171042	1167368
25 Yr - 72 hrs	Sub-Basin 2 Lake	320.0058	11.85	1171258	1167718
25 Yr - 72 hrs	Sub-Basin 2 Lake	322.0058	11.85	1171461	1168047
25 Yr - 72 hrs	Sub-Basin 2 Lake	324.0058	11.84	1171652	1168356
25 Yr - 72 hrs	Sub-Basin 2 Lake	326.0058	11.84	1171832	1168647
25 Yr - 72 hrs	Sub-Basin 2 Lake	328.0058	11.83	1172001	1168922
25 Yr - 72 hrs	Sub-Basin 2 Lake	330.0058	11.83	1172161	1169181
25 Yr - 72 hrs	Sub-Basin 2 Lake	332.0058	11.82	1172312	1169427
25 Yr - 72 hrs	Sub-Basin 2 Lake	334.0058	11.82	1172455	1169660
25 Yr - 72 hrs	Sub-Basin 2 Lake	336.0058	11.82	1172591	1169880
25 Yr - 72 hrs	Sub-Basin 2 Lake	338.0058	11.81	1172720	1170090
25 Yr - 72 hrs	Sub-Basin 2 Lake	340.0058	11.81	1172843	1170289
25 Yr - 72 hrs	Sub-Basin 2 Lake	342.0058	11.81	1172959	1170478
25 Yr - 72 hrs	Sub-Basin 2 Lake	344.0058	11.80	1173069	1170658
25 Yr - 72 hrs	Sub-Basin 2 Lake	346.0058	11.80	1173175	1170829
25 Yr - 72 hrs	Sub-Basin 2 Lake	348.0058	11.80	1173274	1170991
25 Yr - 72 hrs	Sub-Basin 2 Lake	350.0058	11.80	1173370	1171146
25 Yr - 72 hrs	Sub-Basin 2 Lake	352.0058	11.79	1173460	1171293
25 Yr - 72 hrs	Sub-Basin 2 Lake	354.0058	11.79	1173546	1171433
25 Yr - 72 hrs	Sub-Basin 2 Lake	356.0058	11.79	1173628	1171567
25 Yr - 72 hrs	Sub-Basin 2 Lake	358.0058	11.79	1173707	1171694
25 Yr - 72 hrs	Sub-Basin 2 Lake	360.0058	11.79	1173781	1171816

Node Max (Back to Back)

Node Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
25 Yr - 72 hrs	GWT	0.00	0.00	11.90	0.0000	4111.87	0.22	0
25 Yr - 72 hrs	Outfall	0.00	0.00	13.00	0.0002	1.91	0.00	0
25 Yr - 72 hrs	Sub-Basin 1	0.00	0.00	15.33	0.0008	63.60	57.72	32272
25 Yr - 72 hrs	Sub-Basin 1 Lake	0.00	0.00	15.30	0.0010	78.65	43.02	48470
25 Yr - 72 hrs	Sub-Basin 2	0.00	0.00	15.52	-0.0010	47.41	42.72	13726
25 Yr - 72 hrs	Sub-Basin 2 Lake	0.00	0.00	15.50	0.0010	46.74	19.65	32103
25 Yr - 72 hrs	Sub-Basin 3 Preserve	0.00	0.00	14.96	-0.0022	60.80	4111.87	277726

Link Max (Back to Back)

Link Min/Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Link Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
25 Yr - 72 hrs	CS-L1 - Pipe	43.02	-1.06	-0.13	0.00	0.00	0.00
25 Yr - 72 hrs	CS-L1 - Weir: 1	43.02	-1.06	-0.11	3.19	3.19	3.19
25 Yr - 72 hrs	CS-L2 - Pipe	1.91	0.00	0.02	0.00	0.00	0.00
25 Yr - 72 hrs	CS-L2 - Weir: 1	1.08	0.00	0.00	7.93	7.93	7.93
25 Yr - 72 hrs	CS-L2 - Weir: 2	0.83	0.00	0.00	7.48	7.48	7.48
25 Yr - 72 hrs	CS-RB1-1-4 - Pipe	57.72	0.00	0.14	0.00	0.00	0.00
25 Yr - 72 hrs	CS-RB1-1-4 - Weir: 1	57.72	0.00	-0.17	2.14	2.14	2.14
25 Yr - 72 hrs	CS-RB2-1-4 - Pipe	42.72	0.00	0.16	0.00	0.00	0.00
25 Yr - 72 hrs	CS-RB2-1-4 - Weir: 1	42.72	0.00	0.39	1.94	1.94	1.94
25 Yr - 72 hrs	L1-L2	1.38	-17.75	0.15	-1.84	-1.84	-1.84
25 Yr - 72 hrs	Percolate Link	4111.87	-0.22	-5714.14	0.00	0.00	0.00

Node Max

Node Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
100 Yr - 72 hrs	GWT	0.00	0.00	11.90	0.0000	12.06	0.00	0
100 Yr - 72 hrs	Outfall	0.00	0.00	13.00	0.0002	0.00	0.00	0
100 Yr - 72 hrs	Sub-Basin 1	0.00	0.00	16.40	0.0010	86.45	55.66	157269
100 Yr - 72 hrs	Sub-Basin 1 Lake	0.00	0.00	16.40	0.0010	81.24	43.22	52531
100 Yr - 72 hrs	Sub-Basin 2	0.00	0.00	16.40	0.0010	64.65	45.88	95574
100 Yr - 72 hrs	Sub-Basin 2 Lake	0.00	0.00	16.40	0.0010	51.25	18.58	34402
100 Yr - 72 hrs	Sub-Basin 3 Preserve	0.00	0.00	16.40	-0.0081	66.77	12.06	277726

Link Max

Link Min/Max Conditions : Multi Item | (sim, name) [Scenario1]

Sim Name	Link Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
100 Yr - 72 hrs	CS-L1 - Pipe	43.22	-0.01	-0.10	0.00	0.00	0.00
100 Yr - 72 hrs	CS-L1 - Weir: 1	43.22	-0.01	-0.08	3.20	3.20	3.20
100 Yr - 72 hrs	CS-L2 - Pipe	0.00	0.00	0.00	0.00	0.00	0.00
100 Yr - 72 hrs	CS-L2 - Weir: 1	0.00	0.00	0.00	0.00	0.00	0.00
100 Yr - 72 hrs	CS-L2 - Weir: 2	0.00	0.00	0.00	0.00	0.00	0.00
100 Yr - 72 hrs	CS-RB1-1-4 - Pipe	55.66	0.00	-0.22	0.00	0.00	0.00
100 Yr - 72 hrs	CS-RB1-1-4 - Weir: 1	55.67	-0.01	-0.31	1.71	1.71	1.71
100 Yr - 72 hrs	CS-RB2-1-4 - Pipe	45.88	0.00	-0.18	0.00	0.00	0.00
100 Yr - 72 hrs	CS-RB2-1-4 - Weir: 1	45.88	0.00	0.26	1.54	1.54	1.54
100 Yr - 72 hrs	L1-L2	0.00	-18.58	0.09	-1.93	-1.93	-1.93
100 Yr - 72 hrs	Percolate Link	12.06	0.00	11.70	0.00	0.00	0.00

Follow up with Chris.