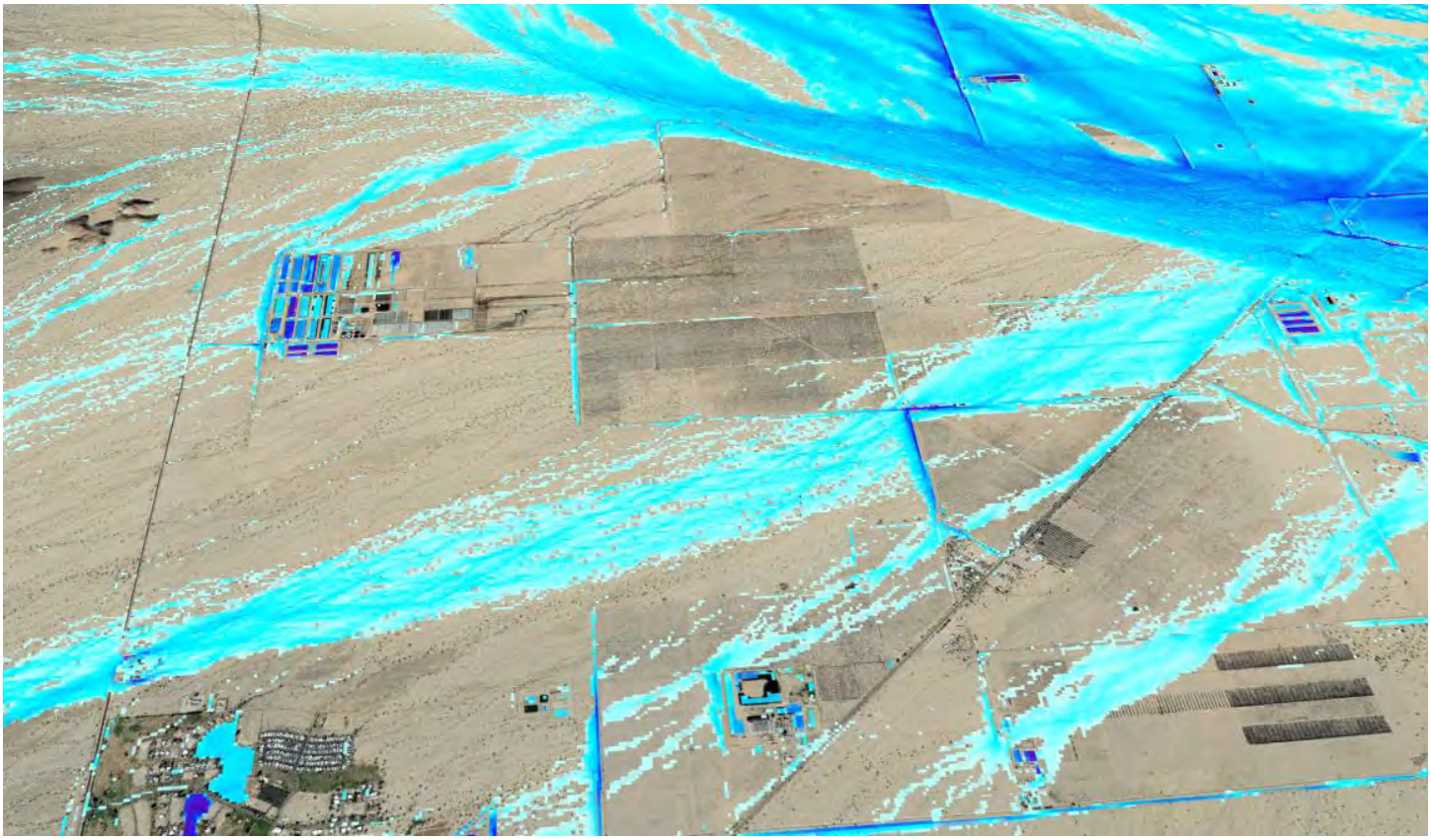
Appendix BB

HYDROLOGICAL STUDY



PRELIMINARY HYDROLOGY STUDY

Easley Solar Project

Riverside County, California

FEBRUARY 17, 2023

PREPARED FOR:

Intersect Power

PREPARED BY:

Westwood

Westwood

Preliminary Hydrology Study

Easley Solar Project

Riverside County, California

Prepared For:

IP Easley, LLC
2 Embarcadero Center, 7th Floor
San Francisco, CA 94111

Prepared By:

Westwood
12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343
(952) 937-5150

Project Number: R0034007.00
Date: February 17, 2023

Westwood

Table of Contents

Executive Summary 1

1.0 Data Sources 2

2.0 Coordinate System 2

3.0 Existing Conditions 3
3.1 Project Location 3
3.2 Watershed Hydrology 3
3.3 Onsite Conditions 3
3.4 FEMA Flood Zones 4

4.0 Proposed Conditions 4
4.1 Proposed Conditions 4
4.2 Post-Construction Stormwater Management 4

5.0 FLO-2D Modeling 4
5.1 FLO-2D Modeling Overview 4
5.2 Elevation Data 5
5.3 Watershed Soils and Land Cover 5
5.4 Precipitation 5
5.5 Inflows 5

6.0 Flood Analysis Results 6
6.1 Existing Conditions Flood Analysis 6
6.2 Scour 6

7.0 Recommendations 7

8.0 Next Steps 7

9.0 Included Output Files 8

10.0 References Cited 9

Tables

Table 1 – Data Sources 2
Table 2 – Coordinate System Used 2
Table 3 – Flood Depths Onsite 6

Exhibits

Exhibit 1: Location Map
Exhibit 2: Base Hydrologic Map
Exhibit 3: Soils Map
Exhibit 4: Landcover Map
Exhibit 5: Curve Number and Topographic Source Map
Exhibit 6: 100-Year Max Flood Depth Map
Exhibit 6A: 100-Year Max Flood Depth Project Area Map
Exhibit 7: 100-Year Peak Velocity Map
Exhibit 7A: 100-Year Peak Velocity Project Area Map
Exhibit 8: 100-Year Scour Map

Appendices

Appendix A: NOAA Atlas 14 Precipitation Data
Appendix B: Curve Number Table
Appendix C: FLO-2D Inflows

Executive Summary

The purpose of this study is to analyze and review the existing hydrology of the Easley Solar Project (Project or Site) and any impacts that the hydrology may play in the design of the proposed solar array. This report was prepared to be used by the Project Team in the design and layout of the Project and not intended for submittal to reviewing agencies for stormwater permitting. The modeling in this report was originally created for the adjacent Oberon Project and was reanalyzed for the Easley Project.

The Project Site is proposed on approximately 3,750 acres and is located within Riverside County, California, approximately 2 miles north of Desert Center, California. The Site is located on relatively flat land that generally slopes to the northeast. The modeled watershed area encompasses approximately 97 square miles and generally slopes east.

The analysis shows low to moderate water depths and velocities (Exhibits 6 through 8) across the majority of the Site. Higher flood depths exist within the washes located within and adjacent to the Site. Moderate to high velocities and moderate scour are anticipated within and surrounding the washes on Site.

Based on experience with similar projects, the majority of the Site is suitable for the planned development by avoiding or designing to areas of high flood depths, velocities, and scour.

1.0 Data Sources

Table 1 – Data Sources

Task	Format	Source	Use
Elevation	1ft Lidar 1m Tif 5m DTM 10m Tif	Westwood The USGS National Map Intermap Nextmap USGS Data Gateway	FLO-2D Model Elevations
Crop Data	Shapefile	USDA 2013 Crop Data Layer	Landcover
Soils	Shapefile	USGS SSURGO Dataset	Curve Numbers
Precipitation	PDF File	NOAA Atlas 14	Design Storms
HUC-12 Drainage Boundary	Shapefile	USGS	Define Model Extents
Site Boundary	230213_Easley_boundary.shp	IP Easley, LLC	Define Model Extents
2014 Aerial Photography	ArcGIS Map Service	USDA FSA	Reference
Culvert Locating and Sizing	Aerial Imagery	Google Earth	Culvert Modeling

2.0 Coordinate System

Table 2 – Coordinate System Used

Projection	State Plane Coordinate System
Zone	California Zone 6 (FIPS 406)
Datum	NAD83
Planar Units	Feet (U.S. Survey)

3.0 Existing Conditions

3.1 Project Location

The Project Site covers approximately 3,750 acres and is located within Riverside County, California (Exhibit 1). The Project Site is located approximately 164 miles southeast of Los Angeles, California, and is located near Desert Center, California. Desert Center is located 2 miles south of the Project Area (Exhibit 1).

3.2 Watershed Hydrology

The modeled watershed area encompasses approximately 97 square miles that generally slopes to the east. Big Wash enters the modeled watershed area along the western boundary and flows southeast where it briefly enters and then flows just northeast of the Site before it exits the modeled watershed along its eastern boundary. Pinto Wash enters the modeled watershed area from its northwestern boundary and flows southeast, converging with Big Wash just northeast of the Site, before it exits the model along its northeastern boundary. An unnamed wash named Inflow 5 for this study enters the modeled watershed from the northwest, flowing southeast to the north of the Project and converting with Pinto Wash. Unnamed washes, named Inflows 1, 2, and 3 for this study, enter the modeled watershed from the western boundary, flowing northeast through the Project before converging with Pinto Wash. Other unnamed washes originate in the southern region of the modeled area and flow north across Highway I-10 toward the Site.

3.3 Onsite Conditions

The Project is located within five HUC-12 boundaries. The northern region of the Site is located within the Upper Big Wash boundary, while the north central region is located within the Dragon Wash boundary. The Greuendikes Well boundary covers the southern region of the Site, while the south-central region is located within the Lake Tamarisk boundary. The eastern region of the Site is located within the Lower Big Wash boundary, which the other four regions flow directly into. Drainage on the Site flows northeast towards Big Wash. Big Wash runs through the northern boundary of the Site and continues to flow southeast just outside of the Project boundary collecting drainage from the Site. The Project receives large offsite flows. In general, the Site is relatively flat with slopes of less than 2%.

US Fish and Wildlife Service National Wetlands Inventory (NWI Wetlands) provides information on the distribution of US wetlands and are shown in Exhibit 2. The NWI Wetlands dataset is not all-inclusive and other wetlands not shown may exist. The landcover on the Project area is primarily barren (Exhibit 4) and has soils that are primarily belonging to Hydrologic Soil Group (HSG) A (Exhibit 3). Typically, A soils are Sands.

The main potential hydrologic issues on Site are flooding within and near the areas surrounding washes and erosive velocities within the concentrated flow paths.

3.4 FEMA Flood Zones

FEMA has completed a study to determine flood hazards for the selected location; the project area is covered by FIRM panels 6065C1825G, 6065C2425G, 6065C2450G and 6065C1800G, however no panels covering the Site are printed. The Project does not contain any areas of FEMA Flood Zone A or AE (Exhibits 2 and 6) however, this does not reduce any hydrologic risk to the Site. The Project contains flood hazards from the CA DWR Flood Awareness layer surrounding Pinto Wash, Big Wash, and other unnamed washes (Exhibit 2). No preliminary or pending FEMA changes are proposed within the project area.

4.0 Proposed Conditions

4.1 Proposed Conditions

The majority of the proposed solar facility will consist of above ground mounted solar modules. Natural desert landscaping should be restored below the modules and would make up the majority of the land cover. A small amount of impervious surface will be added from the gravel access roads and electrical equipment pads. The Project should be designed to minimize grading and maintain existing drainage patterns. A flood analysis of pre-development and post development depths may need to be completed once civil design is finalized for permitting purposes.

4.2 Post-Construction Stormwater Management

Please refer to the Permitting Drainage Study being prepared for the Project for onsite stormwater management practices. As the Project design advances, the post-construction stormwater management should be reviewed in further detail with the County Engineer.

5.0 FLO-2D Modeling

5.1 FLO-2D Modeling Overview

FLO-2D is a physical process model that routes rainfall runoff and flood hydrographs over flow surfaces or in channels using the dynamic wave approximation to the momentum equation. FLO-2D offers advantages over 1-D models and unit hydrograph methods by allowing for breakout flows and visualization of flows across a potential site. The primary inputs are a DTM (elevation data), curve numbers, and precipitation. Major culverts impacting the site were modeled based on aerial imagery provided by Google Earth (Exhibits 6-8).

A FLO-2D model with 50-foot grid cells was utilized to model the watershed within and directly impacting the Project Site.

5.2 Elevation Data

The elevation data input into the FLO-2D model was a blend of 1ft Lidar data from Westwood, 1m Tif data from The USGS National Map, 5m DTM data from Intermap Nextmap, and 10m Tif data from The USGS Data Gateway (Exhibit 5). The 1ft Lidar data and the 1m Tif data were used for topographic coverage of the onsite and offsite watersheds, while the 5m DTM and the 10m Tif data were used for topographic coverage of the offsite watersheds (Exhibit 5). This data was exported as a single digital terrain model (DTM), which is read directly into FLO-2D.

5.3 Watershed Soils and Land Cover

USDA-NRCS SSURGO soil data provides soil types only within a small portion of the contributing watershed and does not provide soil types within the Project boundary. In areas where SSURGO soils that was not available, STATSGO data was utilized. Soils are primarily classified as Hydrologic Soil Group (HSG) A within the Project boundary (Exhibit 3). Land cover was obtained from the USDA 2013 Crop Data Layer. Exhibit 4 displays the land cover classes for the entire watershed. Curve numbers were applied to each grid cell in the FLO-2D model based on intersecting the grid with the curve numbers (Exhibit 5).

5.4 Precipitation

Precipitation data was downloaded from NOAA Atlas 14 (Appendix A) and used for the FLO-2D analysis for the 100-Year, 24-Hour storm event. Using the 100-Year rainfall depth of 4.14 inches for this location allows for the best initial analysis in order to determine the worst areas of flooding and erosion. Rainfall inputs were distributed based on a site-specific nested Atlas 14 distribution pattern.

5.5 Inflows

Inflows were added to the FLO-2D model due to the large drainage area reaching the project site. The 6 inflows were calculated using a large-scale FLO-2D model that encompassed the entire drainage area reaching the project site (Appendix C). The 100-Year peak inflow rates for Inflows 1 through 6 were 2,574 cfs, 1,385 cfs, 813 cfs, 1,727 cfs, 674 cfs, and 32,820 cfs, respectively. Please see Exhibit 6 for inflow locations.

6.0 Flood Analysis Results

6.1 Existing Conditions Flood Analysis

The analysis shows low to moderate water depths and velocities (Exhibits 6 through 8) across the majority of the Site. During a 100-year storm, the flood depths across the majority of the Project Area are less than 1 foot with velocities less than 1 foot/second, with the exception of some large, manmade ponding areas where the depths can reach as high as 6.8 feet. See Table 3 below for a breakdown of flood depths within the Project Site.

Table 3 – Flood Depths Onsite

Peak Flow Depth (ft)	Percentage of Project Area Covered by Peak Flow Depths
0.00 - 0.49	64.9%
0.50 - 1.00	31.9%
1.01 - 1.50	2.5%
1.51 - 2.00	0.3%
2.01 - 2.50	0.1%
2.51 - 3.00	<0.1%
3.01 - 4.00	<0.1%
4.01 - 6.00	<0.1%
6.01+	<0.1%

See Exhibits 6 through 7A for areas within the Project with higher flood depths and velocities.

6.2 Scour

Minimal scour is expected onsite outside of the washes (Exhibit 8). The scour depths calculated for this Project are based on HEC-18 Pier Scour Equations of a 6-inch-wide pile perpendicular to flow. Scour calculations consist of local scour only with unarmored soils and pile bases to provide the conservative local scour results. These scour results do not account for general, rill, or gully scour.

7.0 Recommendations

Based on experience on similar projects, the Site is suitable for the planned development and hydrologic concerns can be addressed by either avoiding areas of high flood depths, velocity, and scour, or through detailed engineering design.

8.0 Next Steps

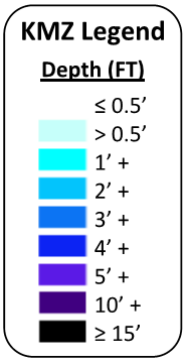
1. Final engineering design should account for the flood depths and velocities presented in Exhibits 6-8.
2. Facilities to be elevated 1' above the 100-year, 24-hour peak flood elevations.
3. Stormwater management should be revisited to ensure the final design meets the local and state requirements.

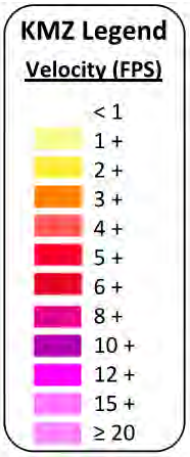
9.0 Included Output Files

1. Shapefile of 100-Year Rain Event Flow Depth
   2023-02-17_Easley_PrelimFlowDepthatCell_100yr.shp
   Attribute "ID" = Grid Cell Number
   Attribute "VAR" = Max Flow Depth (Feet)

2. Shapefile of 100-Year Rain Event Velocity
   2023-02-17_Easley_PrelimVelocityatCell_100yr.shp
   Attribute "ID" = Grid Cell Number
   Attribute "VAR" = Max Velocity (Feet)

3. KMZ of FLO-2D Results
   2023-02-17_Easley_PrelimFLO-2D.kmz
   Overlay in Google Earth for graphical representation.





10.0 References Cited

National Engineering Handbook, Part 630 Hydrology. Chapter 9 Hydrologic Soil-Cover Complexes. USDA. NRCS. 210-VI-NEH, July 2004

The National Map, 1-meter DEM, Elevation data. Retrieved September 2020, from https://viewer.nationalmap.gov/basic/

NEXTMap Intermap, 5-meter DEM, Elevation data. Retrieved September 2020, from https://www.intermap.com/nextmap

Web soil survey. Retrieved September 2020, from https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

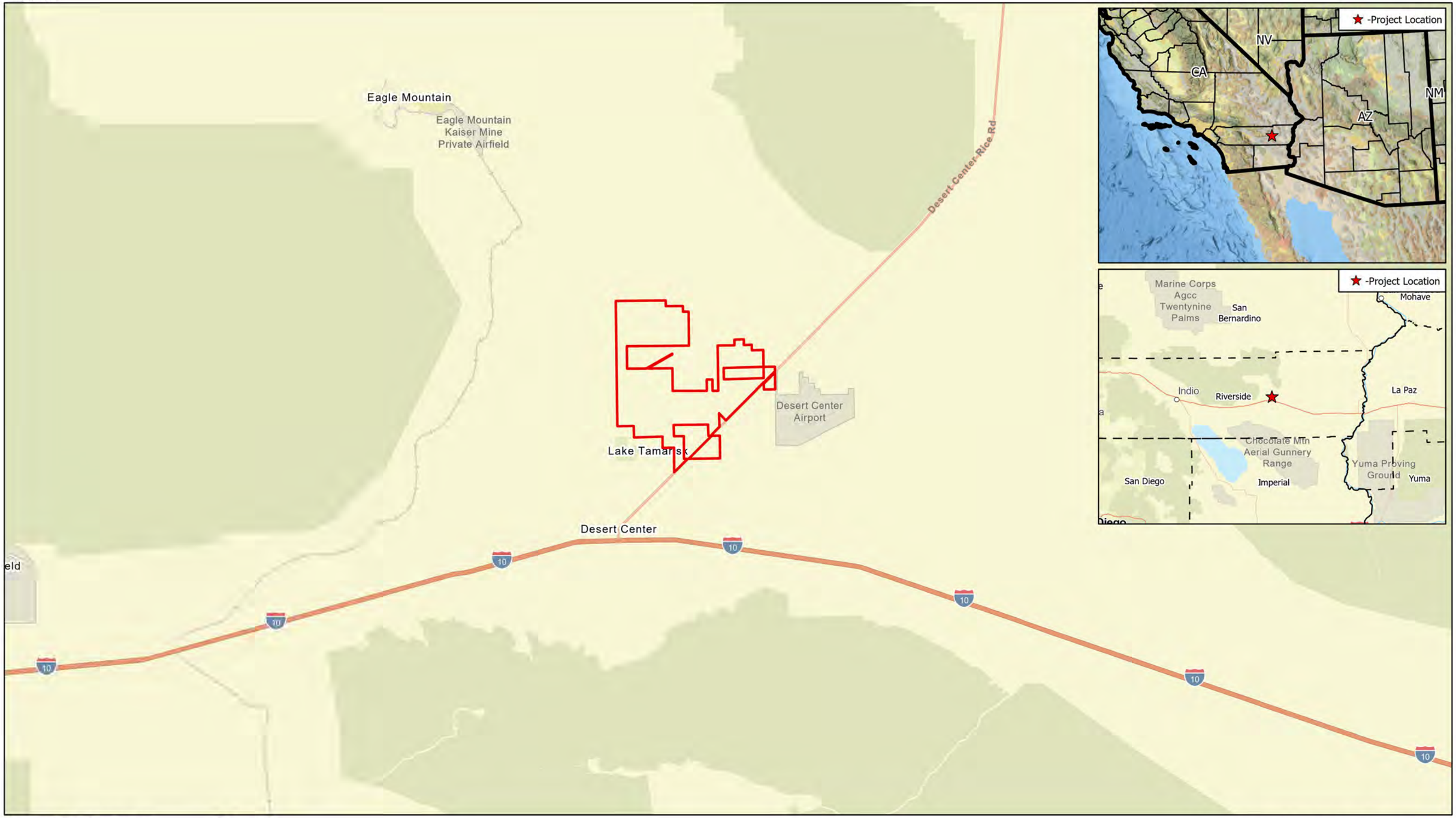
NOAA Atlas 14 Point Precipitation Frequency Estimates. Retrieved September 2020, from https://hdsc.nws.noaa.gov/hdsc/pfds/

USGS. USGS water resources: About USGS water resources. Retrieved September 2020, from https://water.usgs.gov/GIS/huc.html

USDA 2013 Crop Data Layer, Landcover data. Retrieved September 2020, from https://www.nass.usda.gov/Research_and_Science/Cropland/SARS1a.php

Exhibits

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary

N

0 2 Miles

Easley Solar Project

Riverside County, CA

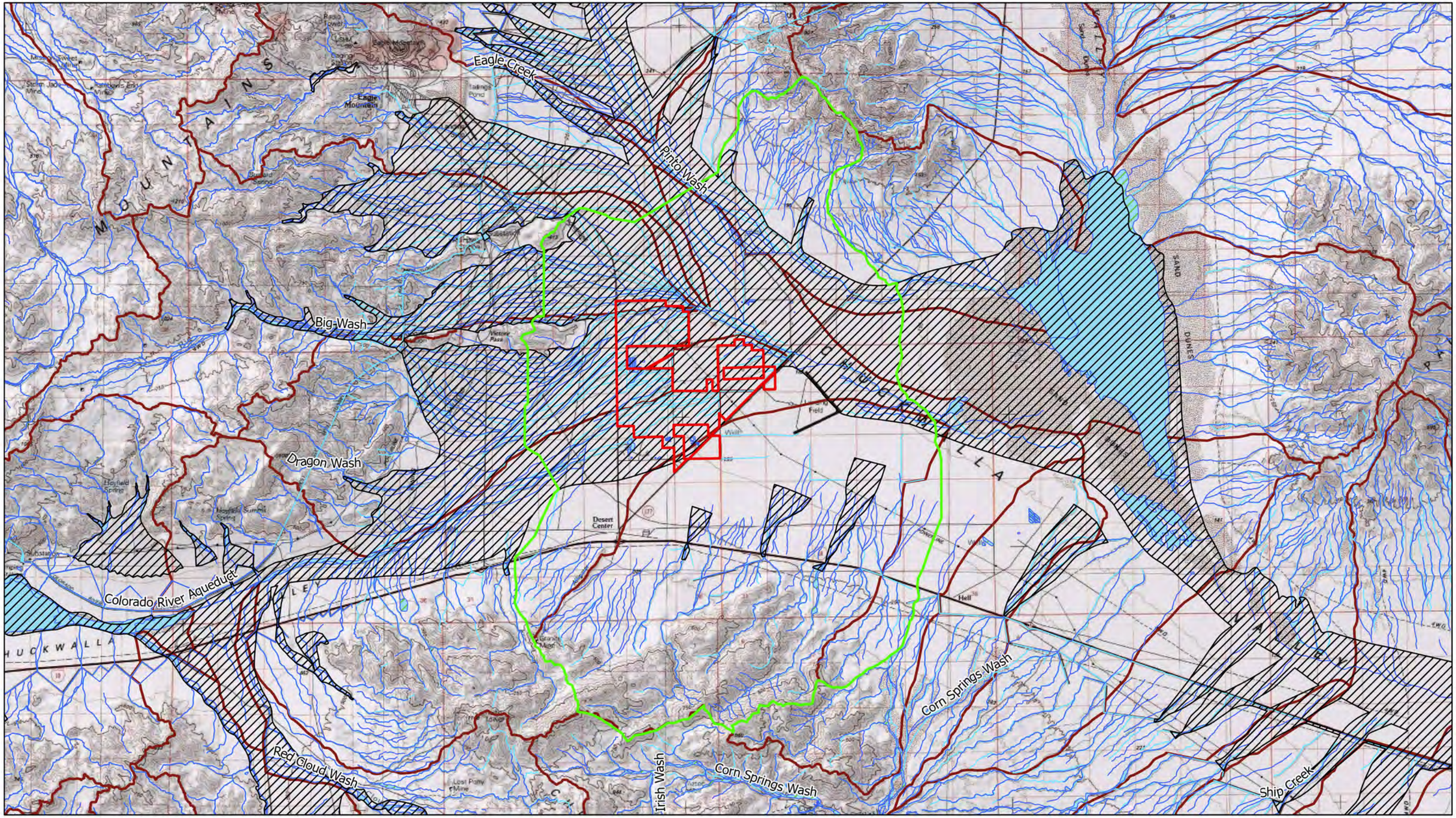
Exhibit 1: Location Map

February 15, 2023

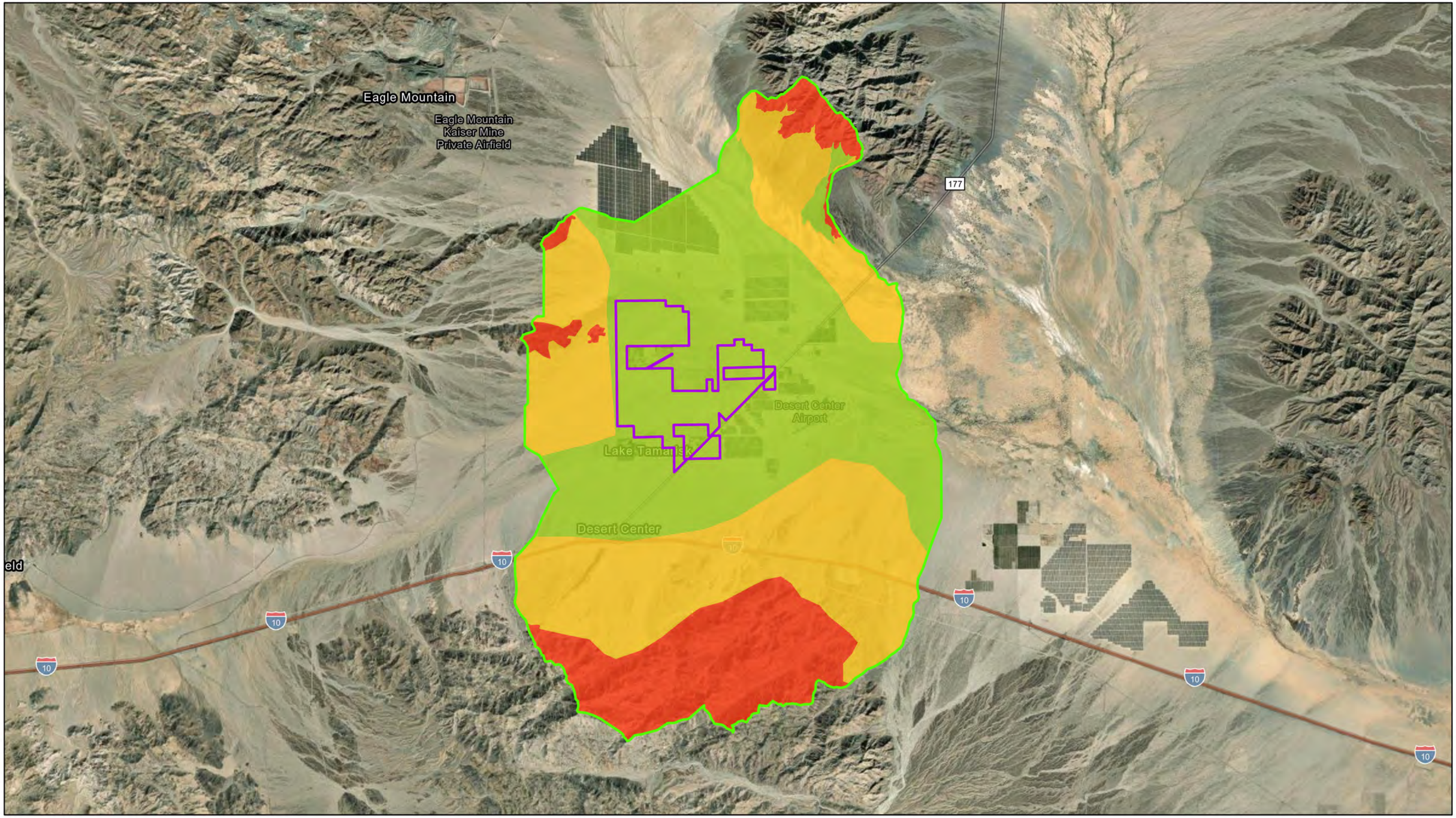
Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034007.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 1-5\Easley Solar Project.aprx
Location Map - Location Map | 2/15/2024 4:20 PM | RMEvern

© 2023 Westwood


Eagle Creek
Pinto Wash
Big Wash
Dragon Wash
Colorado River Aqueduct
Red Cloud Wash
Irish Wash
Corn Springs Wash
Corn Springs Wash
Ship Creek
Desert Center
Eagle Mountain
Hell
Field
Well
Substation
Tailings Pond
Victorio Pass
Grant Mine
Lost Pony Mine
Hayfield Spring
Hayfield Summit Spring
Bluebird Spring
Sand Dunes
Sand Dunes
Mt
Wells
Power line
Power line
Power line

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary

Hydrologic Soils Group

- A
- C
- D

N

0 2 Miles

Easley Solar Project

Riverside County, CA

Exhibit 3: Soils Map

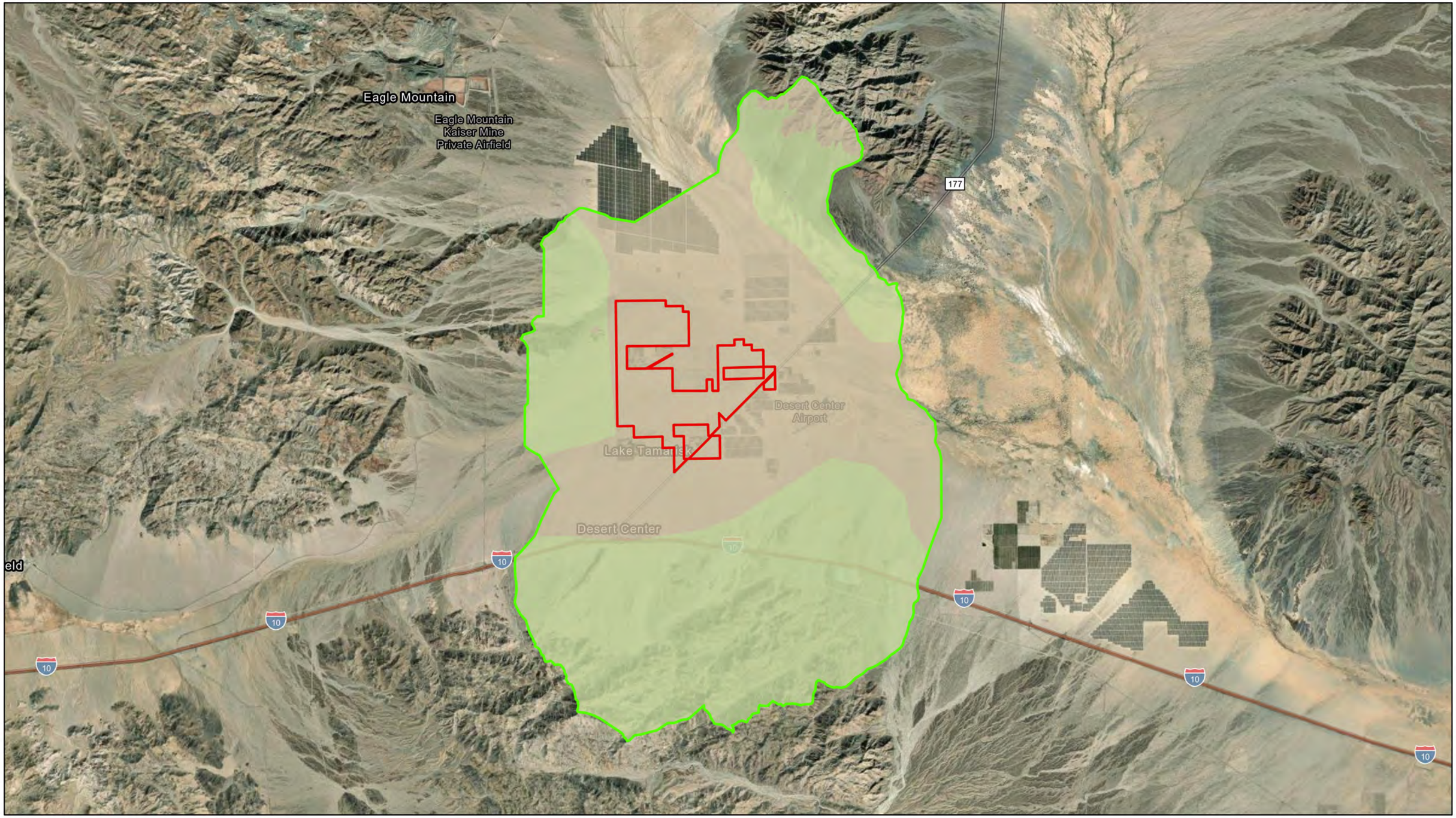
February 15, 2023

Westwood

Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034907.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 1-3\Easley Solar Project.aprx
Soils Map - Soils Map | 2/15/2023 4:25 PM | RMEsen

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary

Landcover

- Barren
- Developed
- Shrubland

N

0 2 Miles

Easley Solar Project

Riverside County, CA

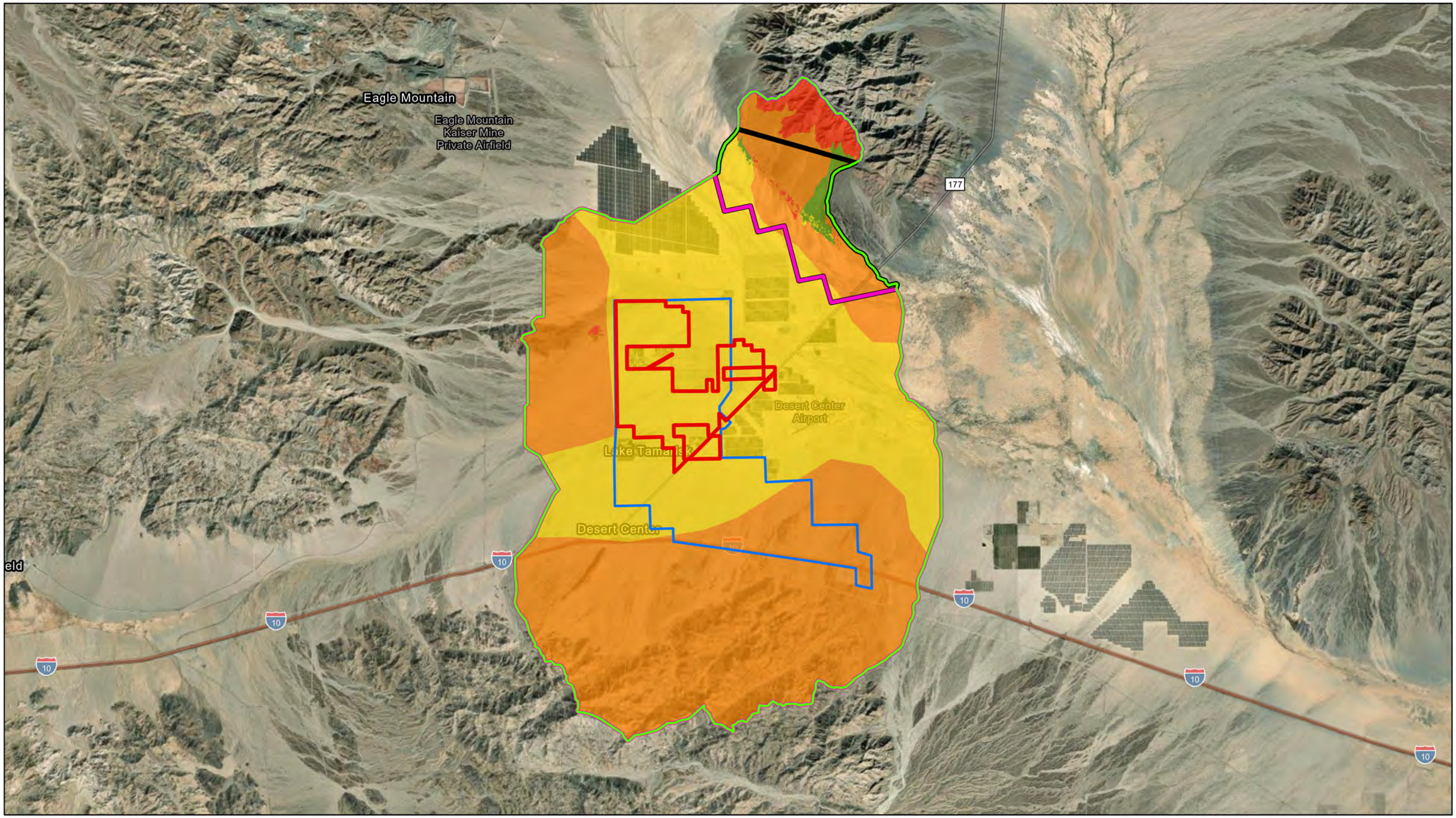
Exhibit 4: Landcover Map

February 13, 2023

Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034\007 00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 1-3\Easley Solar Project.aprx
Landcover - Landcover | 2/13/2023 2:37 PM | RMEsvin

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary
- 1-Foot Extents
- 1-Meter Extents
- Nextmap 5 DTM
- 10-Meter Extents

Curve Number

- 40 - 49
- 50 - 59
- 60 - 69
- 70 - 79
- 80 - 89
- 90 - 99

N

0 2 Miles

Easley Solar Project

Riverside County, CA

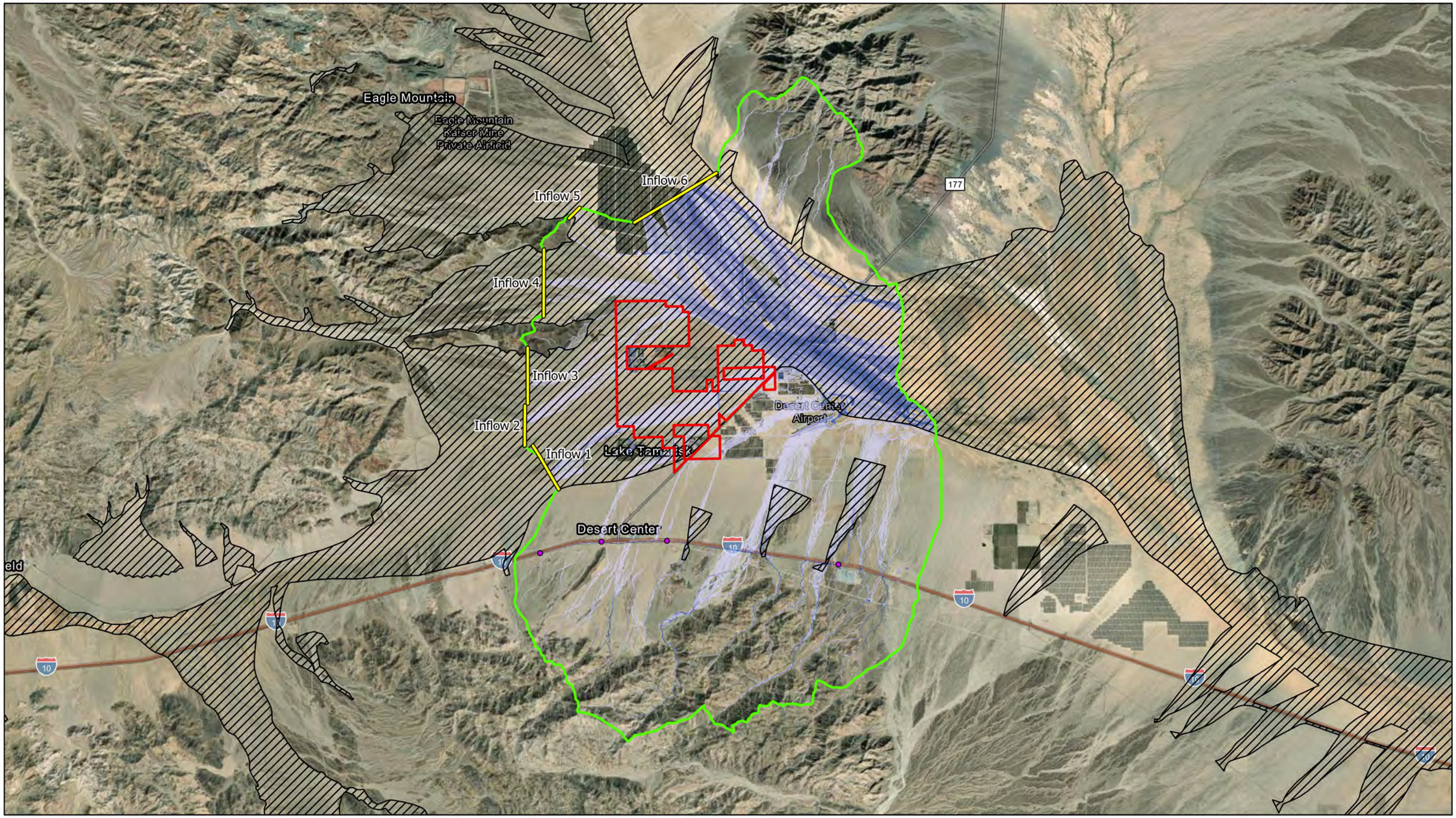
Exhibit 5: Curve Number and Topographic Source Map

February 13, 2023

Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034\007.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 1-5\Easley Solar Project.aprx
CN And Topo Sources - CN and Topo Sources | 2/13/2023 2:37 PM | RMEven

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary
- CA DWR Flood Awareness Layer
- Modeled Inflows
- Modeled Culvert Locations

Max Water Depth (ft)

- 0.50 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 - 6.00
- 6.01 +

N

0 2 Miles

Westwood

Toll Free (888) 937-5150 westwoodps.com

Easley Solar Project

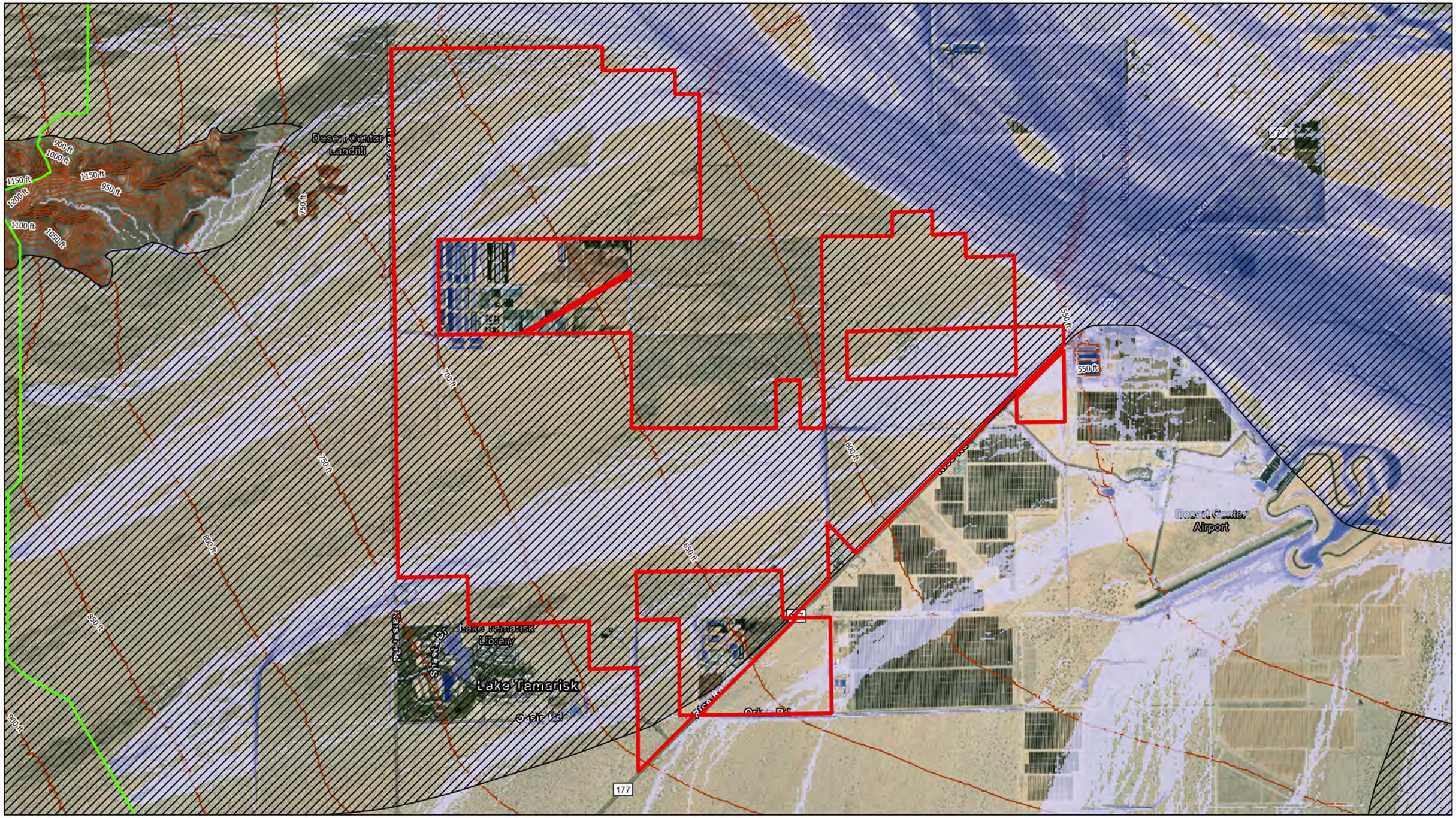
Riverside County, CA

Exhibit 6: 100-Year Max Water Depth Map

February 16, 2023

N:\0034007.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 6-8\Easley Solar Project.aprx
100 Yr Max Water Depth Map - 100 Yr Max Water Depth | 2/16/2023 11:41 AM | RMEsen

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- CA DWR Flood Awareness Layer
- County Boundary
- Modeled Culvert Locations

Max Water Depth (ft)

- 0.50 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 - 6.00
- 6.01 +

N

0 2,500 US Feet

Easley Solar Project

Riverside County, CA

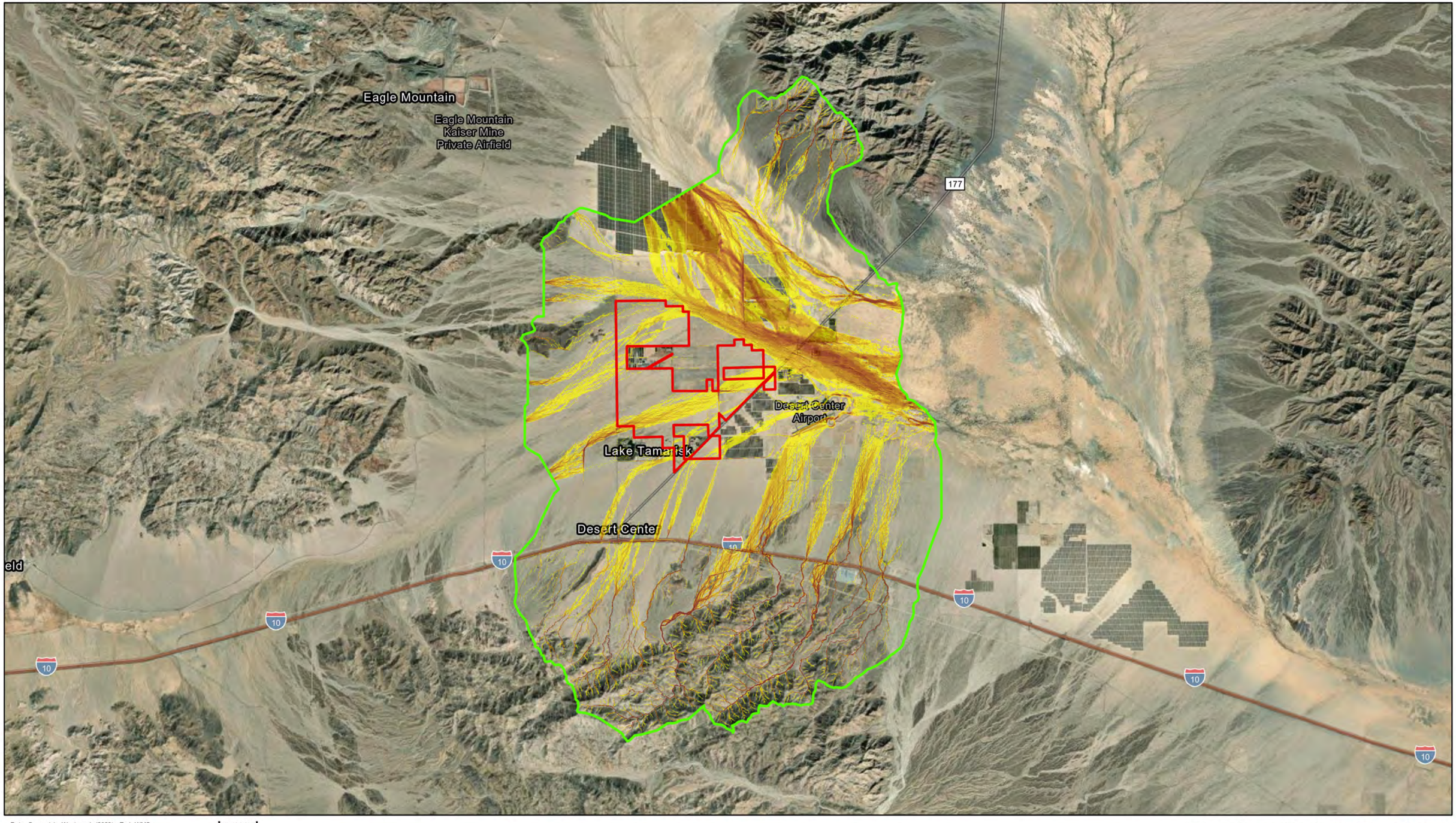
Exhibit 6A: 100-Year Max Water Depth Project Area Map

February 16, 2023

Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034007.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 6-8\Easley Solar Project.aprx
100 Yr Max Water Depth Project Area.mlp - 100 Yr Max Water Depth Project Area | 2/16/2023 11:27 AM | RiffEsn

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary

Peak Velocity (fps)

- 1.00 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 +

N

0 2 Miles

Westwood
Toll Free (888) 937-5150 westwoodps.com

Easley Solar Project

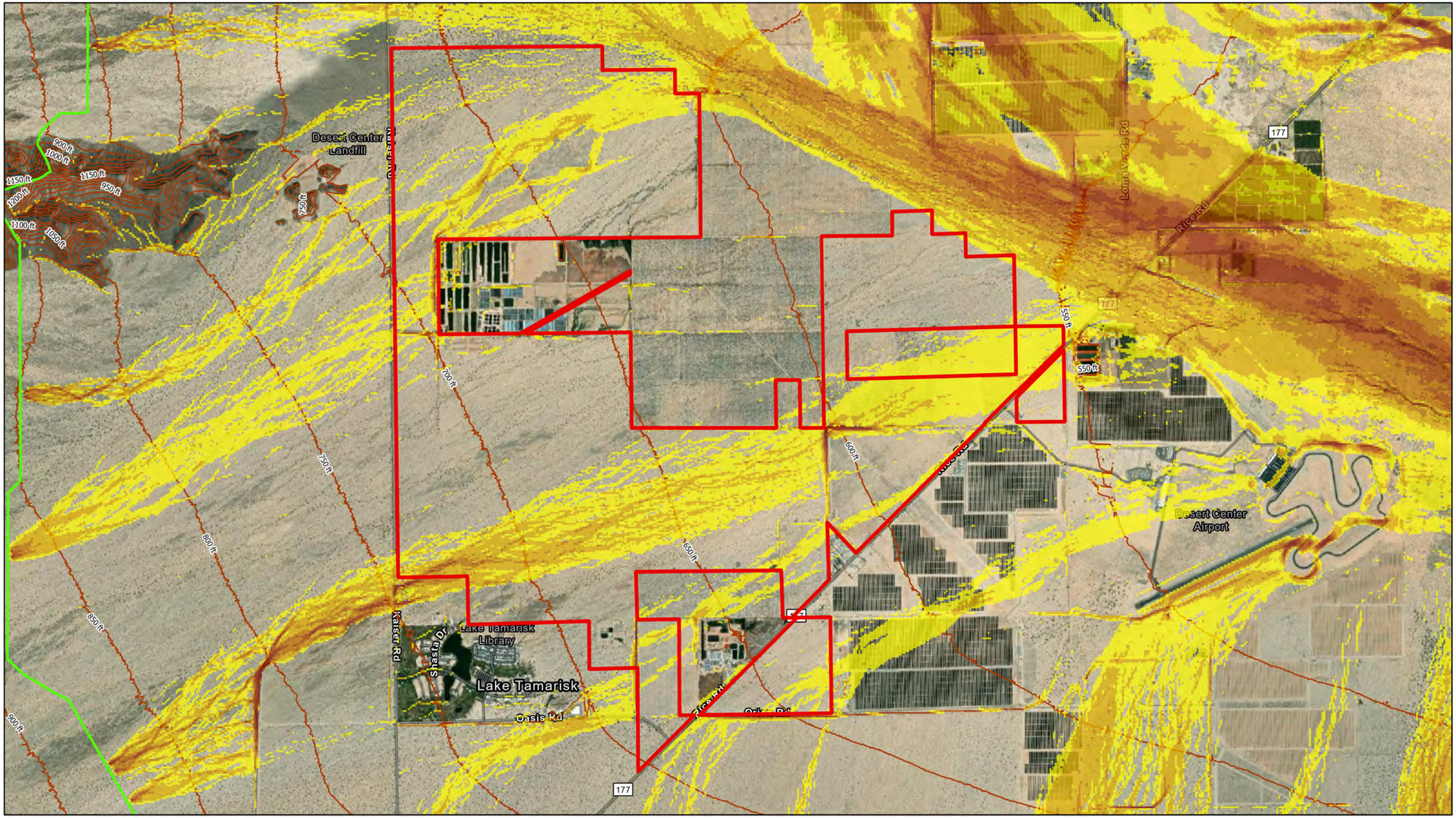
Riverside County, CA

Exhibit 7: 100-Year Peak Velocity Map

February 16, 2023

N:\0034007.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 6-8\Easley Solar Project.aprx
100 YY Peak Velocity Map - 100 YY Peak Velocity | 2/16/2023 11:30 AM | RMEvert

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary
- 50' Contours

Peak Velocity (fps)

- 1.00 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 +

N

0 2,500 US Feet

Easley Solar Project

Riverside County, CA

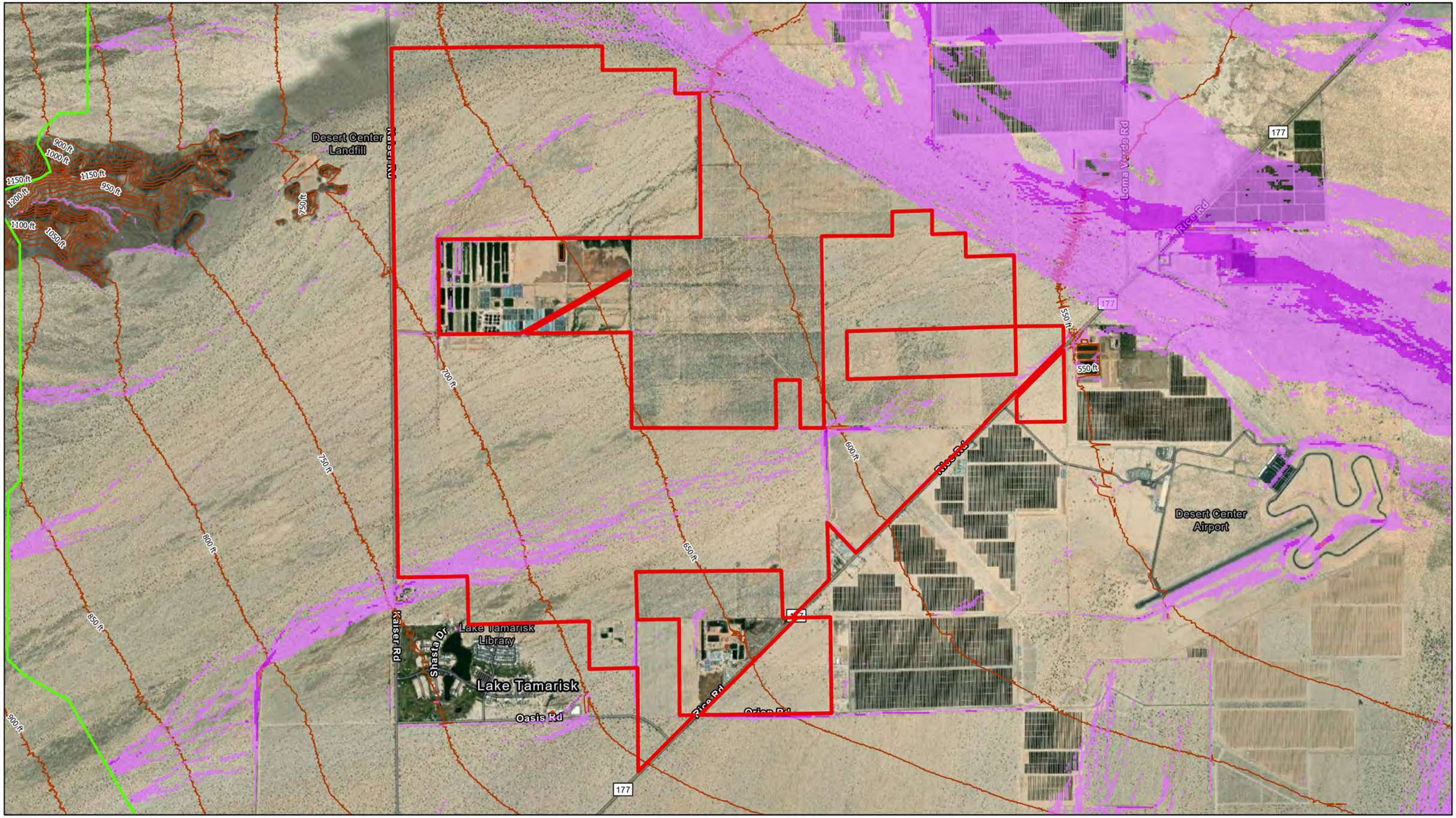
Exhibit 7A: 100-Year Peak Velocity Project Area Map

February 16, 2023

Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\00340107.00_GIS_Hydro_Exhibits\Easley Hydro Exhibits\Exhibits 6-8\Easley Solar Project.aprx
100 Yr Peak Velocity Project Area Map - 100 Yr Peak Velocity Project Area | 2/16/2023 11:23 AM | RMEsen

© 2023 Westwood



Data Source(s): Westwood (2023); Esri WMS Basemap Imagery (Accessed 2023); USGS (2023); FEMA (2023); USDA (2023)

Legend

- Project Boundary
- FLO-2D Model Boundary
- County Boundary
- 50' Contours
- Scour (ft)
  - 1.00 - 1.50
  - 1.51 - 2.00
  - 2.01 +

N

0 2,500 US Feet

Easley Solar Project

Riverside County, CA

Exhibit 8: 100-Year Scour Map

February 16, 2023

Westwood
Toll Free (888) 937-5150 westwoodps.com

\\westwoodps.local\Global Projects\0034\007 00\ GIS\ Hydro Exhibits\Easley Hydro Exhibits\Exhibits 6-8\Easley Solar Project.aprx
100 Yr Scour Map - 100 Yr Scour | 2/16/2023 11:29 AM | RaiEvan

Appendix A

NOAA Atlas 14 Precipitation Data

NOAA Atlas 14, Volume 6, Version 2
Location name: Desert Center, California, USA*
Latitude: 33.7189°, Longitude: -115.396°
Elevation: 839.98 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

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	0.082 (0.068-0.099)	0.129 (0.107-0.156)	0.194 (0.161-0.236)	0.251 (0.206-0.308)	0.333 (0.265-0.422)	0.400 (0.312-0.519)	0.473 (0.360-0.629)	0.554 (0.409-0.757)	0.671 (0.476-0.956)	0.769 (0.527-1.14)
10-min	0.118 (0.098-0.143)	0.185 (0.154-0.224)	0.278 (0.231-0.339)	0.359 (0.296-0.441)	0.477 (0.380-0.605)	0.574 (0.447-0.744)	0.679 (0.516-0.902)	0.794 (0.587-1.08)	0.962 (0.682-1.37)	1.10 (0.755-1.63)
15-min	0.142 (0.119-0.172)	0.223 (0.186-0.271)	0.337 (0.279-0.410)	0.434 (0.358-0.533)	0.577 (0.459-0.732)	0.694 (0.541-0.900)	0.821 (0.624-1.09)	0.960 (0.709-1.31)	1.16 (0.824-1.66)	1.33 (0.913-1.97)
30-min	0.198 (0.165-0.241)	0.312 (0.259-0.378)	0.470 (0.390-0.572)	0.606 (0.499-0.744)	0.805 (0.641-1.02)	0.968 (0.755-1.25)	1.15 (0.871-1.52)	1.34 (0.990-1.83)	1.62 (1.15-2.31)	1.86 (1.27-2.74)
60-min	0.270 (0.225-0.327)	0.423 (0.352-0.514)	0.638 (0.530-0.776)	0.823 (0.678-1.01)	1.09 (0.870-1.39)	1.32 (1.02-1.71)	1.56 (1.18-2.07)	1.82 (1.34-2.49)	2.20 (1.56-3.14)	2.53 (1.73-3.73)
2-hr	0.355 (0.296-0.431)	0.536 (0.446-0.650)	0.791 (0.657-0.963)	1.02 (0.836-1.25)	1.35 (1.07-1.71)	1.63 (1.27-2.11)	1.93 (1.47-2.56)	2.26 (1.67-3.09)	2.76 (1.96-3.94)	3.19 (2.18-4.70)
3-hr	0.407 (0.339-0.493)	0.604 (0.503-0.733)	0.887 (0.736-1.08)	1.14 (0.935-1.39)	1.51 (1.20-1.91)	1.82 (1.42-2.36)	2.16 (1.65-2.88)	2.55 (1.88-3.48)	3.12 (2.21-4.45)	3.61 (2.47-5.33)
6-hr	0.496 (0.414-0.601)	0.731 (0.609-0.887)	1.07 (0.887-1.30)	1.37 (1.13-1.68)	1.82 (1.45-2.30)	2.19 (1.71-2.84)	2.61 (1.99-3.47)	3.08 (2.28-4.21)	3.79 (2.69-5.40)	4.39 (3.01-6.48)
12-hr	0.578 (0.482-0.701)	0.865 (0.720-1.05)	1.28 (1.06-1.55)	1.64 (1.35-2.01)	2.17 (1.73-2.76)	2.63 (2.05-3.41)	3.13 (2.38-4.15)	3.68 (2.72-5.03)	4.50 (3.19-6.42)	5.21 (3.56-7.68)
24-hr	0.741 (0.656-0.855)	1.13 (1.00-1.31)	1.69 (1.49-1.95)	2.17 (1.90-2.54)	2.89 (2.45-3.48)	3.49 (2.90-4.29)	4.14 (3.36-5.20)	4.86 (3.85-6.27)	5.92 (4.50-7.95)	6.82 (5.02-9.46)
2-day	0.857 (0.759-0.988)	1.33 (1.17-1.53)	1.99 (1.75-2.30)	2.57 (2.24-2.99)	3.41 (2.89-4.11)	4.12 (3.42-5.05)	4.88 (3.96-6.13)	5.72 (4.52-7.38)	6.95 (5.28-9.33)	7.98 (5.87-11.1)
3-day	0.910 (0.806-1.05)	1.41 (1.25-1.63)	2.12 (1.87-2.46)	2.74 (2.40-3.20)	3.65 (3.09-4.39)	4.40 (3.66-5.40)	5.21 (4.24-6.55)	6.11 (4.83-7.89)	7.42 (5.64-9.96)	8.52 (6.27-11.8)
4-day	0.964 (0.853-1.11)	1.49 (1.32-1.72)	2.24 (1.97-2.59)	2.89 (2.53-3.37)	3.85 (3.26-4.63)	4.64 (3.86-5.70)	5.51 (4.47-6.92)	6.46 (5.11-8.33)	7.85 (5.97-10.5)	9.01 (6.63-12.5)
7-day	1.02 (0.902-1.18)	1.56 (1.38-1.80)	2.33 (2.05-2.69)	3.00 (2.63-3.50)	4.00 (3.39-4.81)	4.83 (4.01-5.93)	5.73 (4.66-7.20)	6.74 (5.33-8.69)	8.21 (6.24-11.0)	9.45 (6.95-13.1)
10-day	1.05 (0.931-1.21)	1.60 (1.41-1.85)	2.38 (2.10-2.76)	3.07 (2.68-3.58)	4.09 (3.46-4.92)	4.94 (4.10-6.06)	5.87 (4.76-7.37)	6.89 (5.45-8.90)	8.41 (6.39-11.3)	9.69 (7.13-13.4)
20-day	1.15 (1.01-1.32)	1.75 (1.54-2.02)	2.60 (2.29-3.01)	3.35 (2.93-3.90)	4.45 (3.77-5.35)	5.37 (4.46-6.59)	6.36 (5.17-8.00)	7.47 (5.90-9.63)	9.08 (6.90-12.2)	10.4 (7.68-14.5)
30-day	1.23 (1.09-1.41)	1.89 (1.67-2.18)	2.82 (2.48-3.26)	3.63 (3.18-4.24)	4.82 (4.09-5.81)	5.81 (4.83-7.13)	6.88 (5.58-8.64)	8.04 (6.36-10.4)	9.74 (7.41-13.1)	11.2 (8.21-15.5)
45-day	1.31 (1.16-1.51)	2.05 (1.81-2.37)	3.09 (2.73-3.58)	4.00 (3.50-4.66)	5.31 (4.51-6.40)	6.39 (5.31-7.85)	7.55 (6.13-9.49)	8.80 (6.96-11.4)	10.6 (8.06-14.2)	12.1 (8.88-16.8)
60-day	1.41 (1.25-1.63)	2.24 (1.98-2.59)	3.41 (3.00-3.94)	4.41 (3.86-5.14)	5.85 (4.96-7.04)	7.03 (5.84-8.63)	8.28 (6.73-10.4)	9.63 (7.61-12.4)	11.5 (8.78-15.5)	13.1 (9.64-18.2)

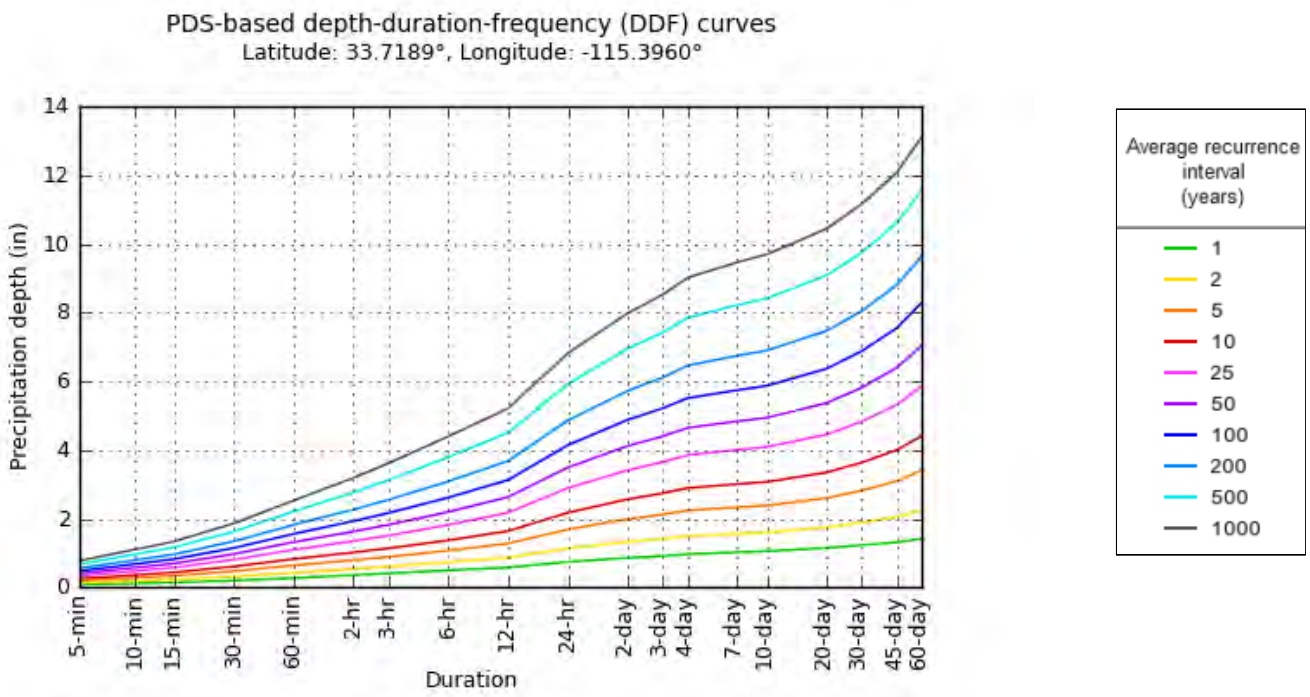
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

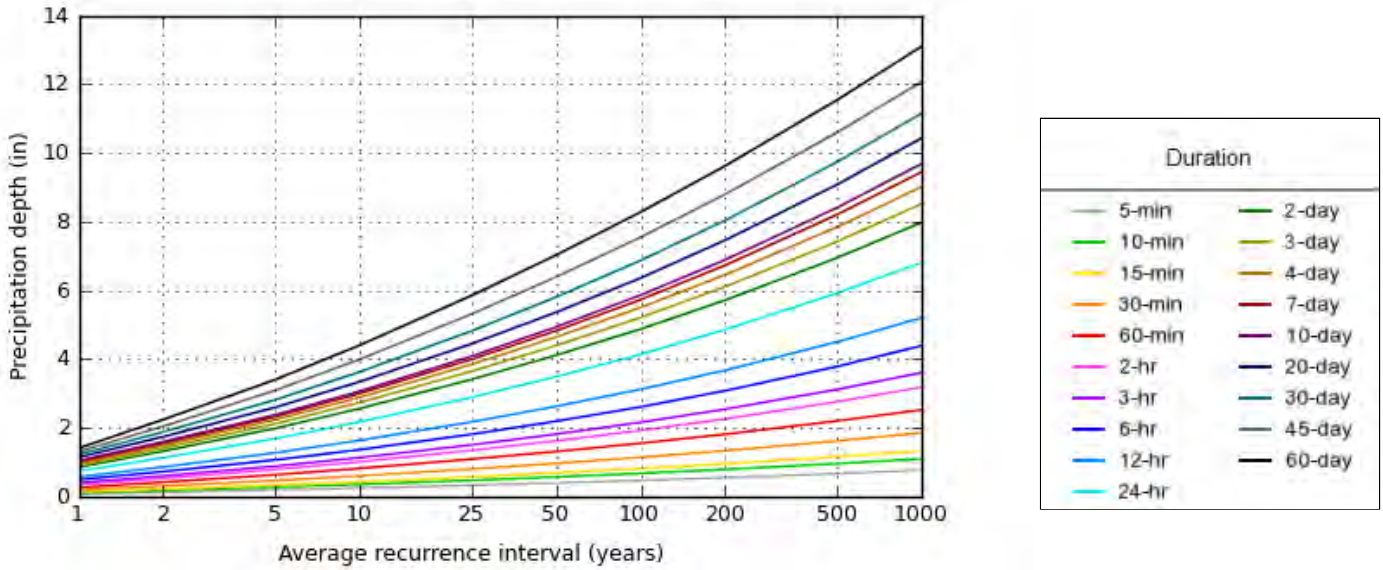
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper 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.

Back to Top

PF graphical





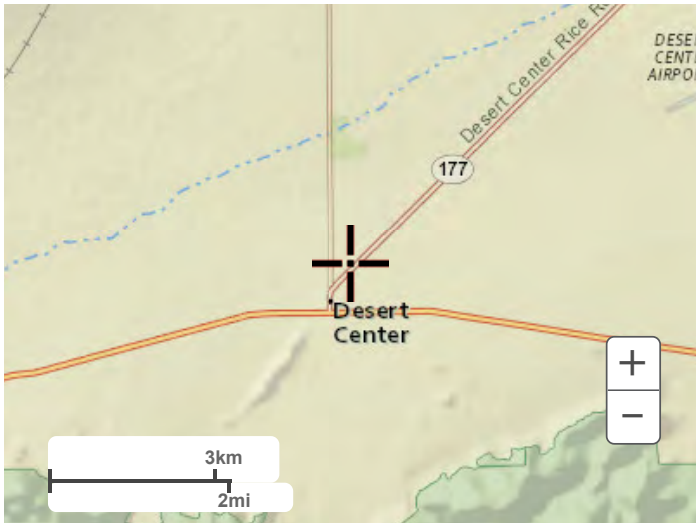
NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Tue Sep 15 12:45:50 2020

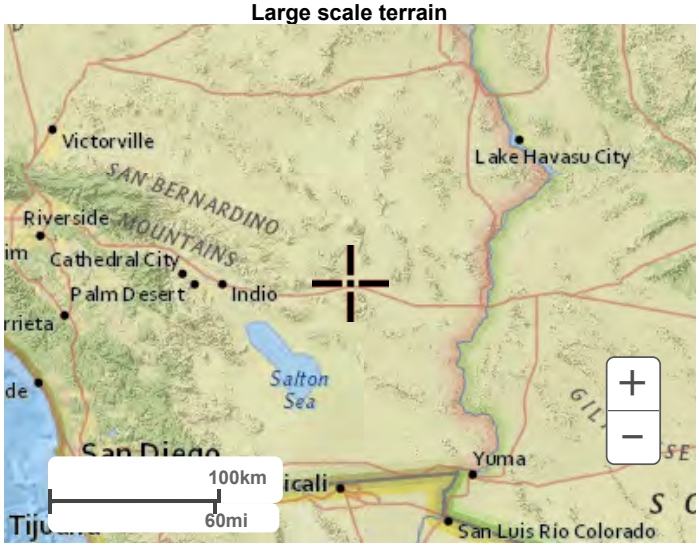
Back to Top

Maps & aerials

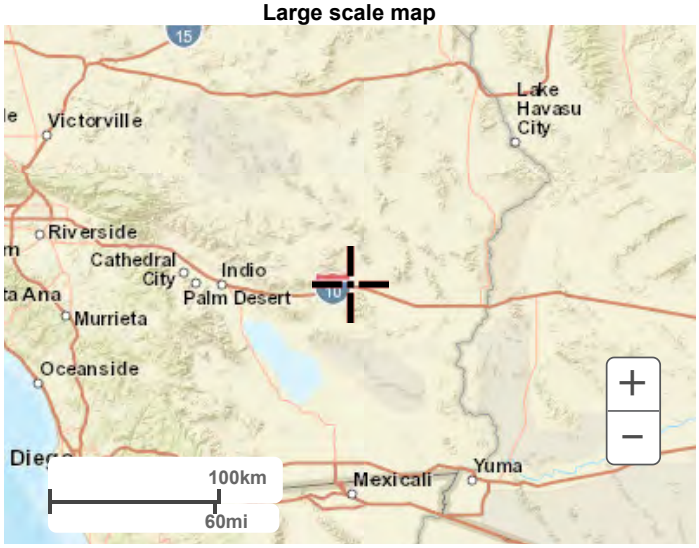
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial

[Back to Top](#)

US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

Appendix B

Curve Number Table

Table 2. Semi-Arid Curve Numbers (adapted from NEH 630)

Class	Value	Classification Description	Curve Number Soil Type* A	B	C	D	W
Water	11	Open Water - areas of open water, generally with less than 25% cover of vegetation or soil.	98	98	98	98	100
	12	Perennial Ice/Snow - areas characterized by a perennial cover of ice and/or snow, generally greater than 25% of total cover.	98	98	98	98	100
Developed	21	Developed, Open Space - areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.	46	65	77	82	100
	22	Developed, Low Intensity - areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20% to 49% percent of total cover. These areas most commonly include single-family housing units.	61	75	83	87	100
	23	Developed, Medium Intensity – areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.	77	85	90	95	100
	24	Developed High Intensity -highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.	89	92	94	95	100
Barren	31	Barren Land (Rock/Sand/Clay) - areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.	77	86	91	94	100
Forest	41	Deciduous Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.	43	55	70	77	100
	42	Evergreen Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.	43	55	70	77	100
	43	Mixed Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.	43	55	70	77	100
Shrubland	51	Dwarf Scrub - Alaska only areas dominated by shrubs less than 20 centimeters tall with shrub canopy typically greater than 20% of total vegetation. This type is often co-associated with grasses, sedges, herbs, and non-vascular vegetation.	55	71	81	89	100
	52	Shrub/Scrub - areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.	55	71	81	89	100
Herbaceous	71	Grassland/Herbaceous - areas dominated by gramanoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.	55	71	81	89	100
	72	Sedge/Herbaceous - Alaska only areas dominated by sedges and forbs, generally greater than 80% of total vegetation. This type can occur with significant other grasses or other grass like plants, and includes sedge tundra, and sedge tussock tundra.	55	71	81	89	100
	73	Lichens - Alaska only areas dominated by fruticose or foliose lichens generally greater than 80% of total vegetation.	55	71	81	89	100
	74	Moss - Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.	55	71	81	89	100
Planted/Cultivated	81	Pasture/Hay – areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.	55	71	81	89	100
	82	Cultivated Crops – areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.	67	78	85	89	100
	83	Small Grains	63	75	83	87	100
Wetlands	91	Woody Wetlands - areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.	45	66	77	83	100
	92	Emergent Herbaceous Wetlands - Areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.	45	66	77	83	100

*A/D, B/D and C/D soils lumped as D soils, W denotes water

**Curve Numbers for NLCD Codes 41-43 have been increased from 30 to 43 as many of these areas are partially grazed Woods-grass combination.

Appendix C

FLO-2D Inflows

THE MAXIMUM DISCHARGE FROM CROSS SECTION 1 IS: 2574.05 CFS AT TIME: 18.76 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 4835.69 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 1

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00

6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	0.00	0.00	0.00	0.00	0.00
7.80	0.00	0.00	0.00	0.00	0.00
7.90	0.00	0.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	0.00	0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	0.00	0.00	0.00	0.00	0.00
8.60	0.00	0.00	0.00	0.00	0.00
8.70	0.00	0.00	0.00	0.00	0.00
8.80	0.00	0.00	0.00	0.00	0.00
8.90	0.00	0.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	0.00	0.00
9.10	0.00	0.00	0.00	0.00	0.00
9.20	0.00	0.00	0.00	0.00	0.00
9.30	0.00	0.00	0.00	0.00	0.00
9.40	0.00	0.00	0.00	0.00	0.00
9.50	0.00	0.00	0.00	0.00	0.00
9.60	0.00	0.00	0.00	0.00	0.00
9.70	0.00	0.00	0.00	0.00	0.00
9.80	0.00	0.00	0.00	0.00	0.00
9.90	181.06	0.00	862.27	0.03	0.00
10.00	366.67	0.00	862.27	0.04	0.01
10.10	795.32	0.00	862.27	0.04	0.03
10.20	885.07	0.00	862.27	0.05	0.04
10.30	1130.67	0.00	862.27	0.04	0.05
10.40	1259.84	0.00	862.27	0.04	0.07
10.50	1341.41	0.00	862.27	0.04	0.08
10.60	1383.33	0.00	862.27	0.05	0.10
10.70	1500.87	0.00	862.27	0.05	0.12
10.80	2258.10	0.00	862.27	0.04	0.16
10.90	3214.67	0.00	862.27	0.03	0.22
11.00	4382.70	0.00	862.27	0.03	0.31
11.10	5089.56	0.00	862.27	0.03	0.42
11.20	5314.02	0.00	862.27	0.03	0.53
11.30	5399.97	0.00	862.27	0.03	0.66
11.40	5399.97	0.00	862.27	0.03	0.84
11.50	5399.97	0.01	862.27	0.04	1.06
11.60	5399.97	0.01	862.27	0.04	1.49
11.70	5399.97	0.01	862.28	0.05	2.22
11.80	5399.97	0.01	862.28	0.06	3.48
11.90	5399.97	0.02	862.28	0.08	7.76
12.00	5399.97	0.03	862.29	0.11	15.06
12.10	5399.97	0.03	862.30	0.12	22.68
12.20	5399.97	0.04	862.31	0.14	29.17
12.30	5399.97	0.04	862.31	0.15	36.19
12.40	5399.97	0.05	862.32	0.16	41.34
12.50	5399.97	0.05	862.32	0.17	46.40
12.60	5399.97	0.05	862.32	0.17	50.35
12.70	5399.97	0.06	862.32	0.17	53.01
12.80	5399.97	0.06	862.33	0.18	55.71
12.90	5399.97	0.06	862.33	0.18	58.11
13.00	5399.97	0.06	862.33	0.18	60.52
13.10	5399.97	0.06	862.33	0.19	62.84
13.20	5399.97	0.06	862.33	0.19	65.04
13.30	5399.97	0.07	862.33	0.19	67.27
13.40	5399.97	0.07	862.33	0.19	69.36
13.50	5399.97	0.07	862.34	0.20	71.45
13.60	5399.97	0.07	862.34	0.20	73.45
13.70	5399.97	0.07	862.34	0.20	75.34
13.80	5399.97	0.07	862.34	0.20	77.24
13.90	5399.97	0.07	862.34	0.20	79.05
14.00	5399.97	0.07	862.34	0.21	80.86

14.10	5399.97	0.07	862.34	0.21	82.66
14.20	5399.97	0.07	862.34	0.21	84.44
14.30	5399.97	0.08	862.34	0.21	86.28
14.40	5399.97	0.08	862.34	0.21	88.11
14.50	5399.97	0.08	862.34	0.21	89.99
14.60	5399.97	0.08	862.35	0.22	91.86
14.70	5399.97	0.08	862.35	0.22	93.72
14.80	5399.97	0.08	862.35	0.22	95.58
14.90	5399.97	0.08	862.35	0.22	97.37
15.00	5399.97	0.08	862.35	0.22	99.12
15.10	5399.97	0.08	862.35	0.23	100.82
15.20	5399.97	0.08	862.35	0.23	102.46
15.30	5399.97	0.08	862.35	0.23	104.09
15.40	5399.97	0.09	862.35	0.23	105.71
15.50	5399.97	0.09	862.36	0.24	113.48
15.60	5399.97	0.13	862.40	0.50	374.52
15.70	5399.97	0.15	862.42	0.76	623.13
15.80	5399.97	0.16	862.42	0.76	643.66
15.90	5399.97	0.16	862.43	0.78	683.37
16.00	5399.97	0.17	862.44	0.78	708.25
16.10	5399.97	0.17	862.44	0.78	727.61
16.20	5399.97	0.18	862.44	0.79	746.47
16.30	5399.97	0.18	862.45	0.79	760.79
16.40	5399.97	0.18	862.45	0.80	775.48
16.50	5399.97	0.18	862.45	0.80	791.46
16.60	5399.97	0.18	862.45	0.81	802.89
16.70	5399.97	0.19	862.45	0.81	821.34
16.80	5399.97	0.19	862.46	0.82	839.23
16.90	5399.97	0.19	862.46	0.82	851.75
17.00	5399.97	0.20	862.46	0.82	863.09
17.10	5399.97	0.20	862.47	0.81	869.59
17.20	5399.97	0.20	862.47	0.82	886.56
17.30	5399.97	0.21	862.48	0.97	1098.24
17.40	5399.97	0.22	862.49	1.13	1373.30
17.50	5399.97	0.24	862.51	1.26	1669.91
17.60	5399.97	0.26	862.53	1.36	1914.29
17.70	5399.97	0.27	862.54	1.41	2089.54
17.80	5399.97	0.28	862.55	1.45	2225.61
17.90	5399.97	0.29	862.56	1.47	2332.63
18.00	5399.97	0.30	862.57	1.48	2397.83
18.10	5399.97	0.31	862.57	1.48	2441.33
18.20	5399.97	0.31	862.58	1.48	2487.72
18.30	5399.97	0.31	862.58	1.49	2520.20
18.40	5399.97	0.32	862.58	1.48	2538.19
18.50	5399.97	0.32	862.59	1.48	2555.76
18.60	5399.97	0.32	862.59	1.48	2564.72
18.70	5399.97	0.32	862.59	1.47	2569.80
18.80	5399.97	0.33	862.59	1.46	2572.12
18.90	5399.97	0.33	862.59	1.46	2568.24
19.00	5399.97	0.33	862.60	1.45	2563.19
19.10	5399.97	0.33	862.60	1.44	2555.91
19.20	5399.97	0.33	862.60	1.43	2544.81
19.30	5399.97	0.33	862.60	1.42	2532.34
19.40	5399.97	0.33	862.60	1.41	2517.87
19.50	5399.97	0.33	862.60	1.40	2499.35
19.60	5399.97	0.33	862.60	1.39	2480.90
19.70	5399.97	0.33	862.60	1.38	2462.03
19.80	5399.97	0.33	862.60	1.37	2445.65
19.90	5399.97	0.33	862.60	1.36	2430.20
20.00	5399.97	0.33	862.60	1.36	2420.21
20.10	5399.97	0.33	862.60	1.35	2409.52
20.20	5399.97	0.33	862.60	1.35	2400.50
20.30	5399.97	0.33	862.60	1.34	2392.90
20.40	5399.97	0.33	862.60	1.33	2383.98
20.50	5399.97	0.33	862.60	1.33	2375.61
20.60	5399.97	0.33	862.60	1.32	2369.23
20.70	5399.97	0.33	862.60	1.32	2364.61
20.80	5399.97	0.33	862.60	1.32	2366.96
20.90	5399.97	0.33	862.60	1.32	2376.24
21.00	5399.97	0.34	862.60	1.32	2387.60
21.10	5399.97	0.34	862.60	1.32	2396.81
21.20	5399.97	0.34	862.60	1.32	2402.74
21.30	5399.97	0.34	862.61	1.32	2403.20
21.40	5399.97	0.34	862.61	1.31	2400.71
21.50	5399.97	0.34	862.61	1.30	2395.12
21.60	5399.97	0.34	862.61	1.30	2389.89

21.70	5399.97	0.34	862.61	1.29	2384.90
21.80	5399.97	0.34	862.61	1.29	2380.70
21.90	5399.97	0.34	862.61	1.28	2377.20
22.00	5399.97	0.34	862.61	1.28	2375.70
22.10	5399.97	0.34	862.61	1.28	2377.19
22.20	5399.97	0.35	862.61	1.27	2376.33
22.30	5399.97	0.35	862.61	1.27	2381.71
22.40	5399.97	0.35	862.62	1.27	2384.11
22.50	5399.97	0.35	862.62	1.26	2385.20
22.60	5399.97	0.35	862.62	1.26	2387.48
22.70	5399.97	0.35	862.62	1.25	2387.95
22.80	5399.97	0.36	862.62	1.24	2394.20
22.90	5399.97	0.36	862.63	1.23	2397.34
23.00	5399.97	0.36	862.63	1.23	2401.88
23.10	5399.97	0.36	862.63	1.23	2394.54
23.20	5399.97	0.36	862.63	1.23	2380.14
23.30	5399.97	0.36	862.63	1.22	2366.40
23.40	5399.97	0.36	862.62	1.22	2353.61
23.50	5399.97	0.36	862.62	1.21	2338.33
23.60	5399.97	0.36	862.62	1.21	2326.77
23.70	5399.97	0.36	862.62	1.21	2315.70
23.80	5399.97	0.35	862.62	1.20	2305.17
23.90	5399.97	0.35	862.62	1.20	2291.16
24.00	5399.97	0.35	862.62	1.20	2278.41
24.10	5399.97	0.35	862.62	1.19	2265.60
24.20	5399.97	0.35	862.62	1.19	2251.05
24.30	5399.97	0.35	862.62	1.18	2234.88
24.40	5399.97	0.35	862.62	1.18	2220.06
24.50	5399.97	0.35	862.62	1.17	2207.64
24.60	5399.97	0.35	862.61	1.17	2198.39
24.70	5399.97	0.35	862.61	1.17	2195.25
24.80	5399.97	0.35	862.61	1.18	2197.91
24.90	5399.97	0.35	862.61	1.18	2210.28
25.00	5399.97	0.35	862.62	1.19	2239.33
25.10	5399.97	0.35	862.62	1.21	2280.13
25.20	5399.97	0.35	862.62	1.23	2322.81
25.30	5399.97	0.35	862.62	1.24	2368.90
25.40	5399.97	0.35	862.62	1.26	2411.78
25.50	5399.97	0.36	862.62	1.27	2442.09
25.60	5399.97	0.36	862.62	1.28	2463.45
25.70	5399.97	0.36	862.62	1.28	2477.66
25.80	5399.97	0.36	862.63	1.29	2487.07
25.90	5399.97	0.36	862.63	1.29	2492.87
26.00	5399.97	0.36	862.63	1.29	2496.85
26.10	5399.97	0.36	862.63	1.29	2497.41
26.20	5399.97	0.36	862.62	1.29	2495.98
26.30	5399.97	0.36	862.62	1.29	2492.04
26.40	5399.97	0.36	862.62	1.29	2487.13
26.50	5399.97	0.36	862.62	1.29	2481.80
26.60	5399.97	0.36	862.62	1.29	2474.95
26.70	5399.97	0.36	862.62	1.29	2466.80
26.80	5399.97	0.35	862.62	1.28	2458.25
26.90	5399.97	0.35	862.62	1.28	2449.83
27.00	5399.97	0.35	862.62	1.28	2439.73
27.10	5399.97	0.35	862.62	1.27	2428.63
27.20	5399.97	0.35	862.62	1.27	2418.19
27.30	5399.97	0.35	862.62	1.27	2408.54
27.40	5399.97	0.35	862.62	1.26	2398.96
27.50	5399.97	0.35	862.62	1.26	2389.66
27.60	5399.97	0.35	862.62	1.26	2380.59
27.70	5399.97	0.35	862.62	1.25	2368.75
27.80	5399.97	0.35	862.62	1.25	2356.17
27.90	5399.97	0.35	862.62	1.24	2345.89
28.00	5399.97	0.35	862.62	1.24	2333.99
28.10	5399.97	0.35	862.62	1.24	2320.60
28.20	5399.97	0.35	862.61	1.23	2308.14
28.30	5399.97	0.35	862.61	1.23	2298.08
28.40	5399.97	0.35	862.61	1.23	2286.08
28.50	5399.97	0.34	862.61	1.22	2272.96
28.60	5399.97	0.34	862.61	1.22	2261.34
28.70	5399.97	0.34	862.61	1.22	2250.25
28.80	5399.97	0.34	862.61	1.21	2238.40
28.90	5399.97	0.34	862.61	1.21	2224.96
29.00	5399.97	0.34	862.61	1.21	2211.76
29.10	5399.97	0.34	862.61	1.20	2200.05
29.20	5399.97	0.34	862.61	1.20	2188.42

29.30	5399.97	0.34	862.60	1.19	2176.31
29.40	5399.97	0.34	862.60	1.19	2165.81
29.50	5399.97	0.34	862.60	1.19	2154.72
29.60	5399.97	0.33	862.60	1.19	2144.57
29.70	5399.97	0.33	862.60	1.18	2134.33
29.80	5399.97	0.33	862.60	1.18	2123.17
29.90	5399.97	0.33	862.60	1.18	2112.73
30.00	5399.97	0.33	862.60	1.17	2101.89
30.10	5399.97	0.33	862.60	1.17	2091.90
30.20	5399.97	0.33	862.60	1.17	2080.13
30.30	5399.97	0.33	862.60	1.17	2068.49
30.40	5399.97	0.33	862.60	1.16	2055.85
30.50	5399.97	0.33	862.59	1.16	2044.89
30.60	5399.97	0.33	862.59	1.16	2033.47
30.70	5399.97	0.33	862.59	1.15	2021.18
30.80	5399.97	0.32	862.59	1.15	2008.02
30.90	5399.97	0.32	862.59	1.14	1995.39
31.00	5399.97	0.32	862.59	1.14	1983.40
31.10	5399.97	0.32	862.59	1.14	1970.97
31.20	5399.97	0.32	862.59	1.13	1958.99
31.30	5399.97	0.32	862.59	1.13	1946.94
31.40	5399.97	0.32	862.59	1.12	1934.00
31.50	5399.97	0.32	862.59	1.12	1921.46
31.60	5399.97	0.32	862.58	1.11	1908.95
31.70	5399.97	0.32	862.58	1.11	1895.91
31.80	5399.97	0.32	862.58	1.11	1883.38
31.90	5399.97	0.31	862.58	1.10	1868.40
32.00	5399.97	0.31	862.58	1.10	1856.86
32.10	5399.97	0.31	862.58	1.09	1842.35
32.20	5399.97	0.31	862.58	1.09	1827.96
32.30	5399.97	0.31	862.58	1.08	1812.46
32.40	5399.97	0.31	862.58	1.08	1800.59
32.50	5399.97	0.31	862.58	1.07	1786.92
32.60	5399.97	0.31	862.57	1.07	1776.01
32.70	5399.97	0.31	862.57	1.07	1764.99
32.80	5399.97	0.31	862.57	1.06	1753.61
32.90	5399.97	0.30	862.57	1.06	1742.23
33.00	5399.97	0.30	862.57	1.06	1729.22
33.10	5399.97	0.30	862.57	1.05	1717.78
33.20	5399.97	0.30	862.57	1.05	1705.32
33.30	5399.97	0.30	862.57	1.04	1691.94
33.40	5399.97	0.30	862.57	1.04	1680.22
33.50	5399.97	0.30	862.57	1.03	1670.16
33.60	5399.97	0.30	862.57	1.03	1658.70
33.70	5399.97	0.30	862.56	1.03	1645.99
33.80	5399.97	0.30	862.56	1.02	1633.96
33.90	5399.97	0.29	862.56	1.02	1620.68
34.00	5399.97	0.29	862.56	1.01	1607.08
34.10	5399.97	0.29	862.56	1.01	1594.61
34.20	5399.97	0.29	862.56	1.00	1582.68
34.30	5399.97	0.29	862.56	1.00	1568.24
34.40	5399.97	0.29	862.56	0.99	1558.37
34.50	5399.97	0.29	862.56	0.99	1548.34
34.60	5399.97	0.29	862.56	0.99	1538.28
34.70	5399.97	0.29	862.56	0.98	1524.64
34.80	5399.97	0.29	862.55	0.98	1514.64
34.90	5399.97	0.29	862.55	0.97	1503.63
35.00	5399.97	0.29	862.55	0.97	1493.53
35.10	5399.97	0.28	862.55	0.97	1483.82
35.20	5399.97	0.28	862.55	0.96	1474.15
35.30	5399.97	0.28	862.55	0.96	1462.45
35.40	5399.97	0.28	862.55	0.95	1451.81
35.50	5399.97	0.28	862.55	0.95	1440.69
35.60	5399.97	0.28	862.55	0.95	1429.83
35.70	5399.97	0.28	862.55	0.94	1418.03
35.80	5399.97	0.28	862.55	0.94	1405.35
35.90	5399.97	0.28	862.54	0.93	1394.67
36.00	5399.97	0.28	862.54	0.93	1385.84
36.10	5399.97	0.28	862.54	0.93	1376.80
36.20	5399.97	0.27	862.54	0.92	1367.87
36.30	5399.97	0.27	862.54	0.92	1355.98
36.40	5399.97	0.27	862.54	0.91	1347.27
36.50	5399.97	0.27	862.54	0.91	1338.27
36.60	5399.97	0.27	862.54	0.91	1327.35
36.70	5399.97	0.27	862.54	0.90	1318.64
36.80	5399.97	0.27	862.54	0.90	1307.80

36.90	5399.97	0.27	862.54	0.89	1299.19
37.00	5399.97	0.27	862.54	0.89	1289.10
37.10	5399.97	0.27	862.53	0.89	1278.56
37.20	5399.97	0.27	862.53	0.88	1267.16
37.30	5399.97	0.27	862.53	0.88	1255.64
37.40	5399.97	0.26	862.53	0.87	1246.00
37.50	5399.97	0.26	862.53	0.87	1236.43
37.60	5399.97	0.26	862.53	0.87	1226.94
37.70	5399.97	0.26	862.53	0.86	1218.98
37.80	5399.97	0.26	862.53	0.86	1211.61
37.90	5399.97	0.26	862.53	0.86	1203.60
38.00	5399.97	0.26	862.53	0.85	1193.77
38.10	5399.97	0.26	862.53	0.85	1186.66
38.20	5399.97	0.26	862.53	0.85	1177.75
38.30	5399.97	0.26	862.52	0.84	1169.00
38.40	5399.97	0.26	862.52	0.84	1161.68
38.50	5399.97	0.26	862.52	0.84	1155.07
38.60	5399.97	0.25	862.52	0.83	1145.85
38.70	5399.97	0.25	862.52	0.83	1137.59
38.80	5399.97	0.25	862.52	0.83	1128.72
38.90	5399.97	0.25	862.52	0.82	1119.81
39.00	5399.97	0.25	862.52	0.82	1108.07
39.10	5399.97	0.25	862.52	0.81	1102.60
39.20	5399.97	0.25	862.52	0.81	1094.43
39.30	5399.97	0.25	862.52	0.81	1088.41
39.40	5399.97	0.25	862.52	0.80	1078.65
39.50	5399.97	0.25	862.52	0.80	1073.44
39.60	5399.97	0.25	862.52	0.80	1066.91
39.70	5399.97	0.25	862.51	0.79	1057.82
39.80	5399.97	0.25	862.51	0.79	1049.21
39.90	5399.97	0.25	862.51	0.78	1039.86
40.00	5399.97	0.24	862.51	0.78	1031.77
40.10	5399.97	0.24	862.51	0.78	1027.81
40.20	5399.97	0.24	862.51	0.78	1021.43
40.30	5399.97	0.24	862.51	0.77	1013.96
40.40	5399.97	0.24	862.51	0.77	1008.09
40.50	5399.97	0.24	862.51	0.77	1000.26
40.60	5399.97	0.24	862.51	0.76	993.32
40.70	5399.97	0.24	862.51	0.76	987.18
40.80	5399.97	0.24	862.51	0.76	980.91
40.90	5399.97	0.24	862.51	0.75	974.38
41.00	5399.97	0.24	862.51	0.75	968.49
41.10	5399.97	0.24	862.51	0.75	961.64
41.20	5399.97	0.24	862.50	0.74	954.95
41.30	5399.97	0.24	862.50	0.74	948.82
41.40	5399.97	0.24	862.50	0.74	943.79
41.50	5399.97	0.24	862.50	0.74	938.62
41.60	5399.97	0.23	862.50	0.74	932.08
41.70	5399.97	0.23	862.50	0.73	925.76
41.80	5399.97	0.23	862.50	0.73	919.80
41.90	5399.97	0.23	862.50	0.73	913.95
42.00	5399.97	0.23	862.50	0.72	907.47
42.10	5399.97	0.23	862.50	0.72	901.56
42.20	5399.97	0.23	862.50	0.72	895.90
42.30	5399.97	0.23	862.50	0.72	890.03
42.40	5399.97	0.23	862.50	0.71	883.87
42.50	5399.97	0.23	862.50	0.71	878.18
42.60	5399.97	0.23	862.50	0.71	872.84
42.70	5399.97	0.23	862.49	0.71	867.61
42.80	5399.97	0.23	862.49	0.70	862.23
42.90	5399.97	0.23	862.49	0.70	856.70
43.00	5399.97	0.23	862.49	0.70	850.94
43.10	5399.97	0.22	862.49	0.70	845.81
43.20	5399.97	0.22	862.49	0.69	840.20
43.30	5399.97	0.22	862.49	0.69	834.75
43.40	5399.97	0.22	862.49	0.69	829.23
43.50	5399.97	0.22	862.49	0.69	823.86
43.60	5399.97	0.22	862.49	0.68	818.68
43.70	5399.97	0.22	862.49	0.68	813.48
43.80	5399.97	0.22	862.49	0.68	808.19
43.90	5399.97	0.22	862.49	0.68	803.01
44.00	5399.97	0.22	862.49	0.67	798.11
44.10	5399.97	0.22	862.49	0.67	793.24
44.20	5399.97	0.22	862.49	0.67	788.27
44.30	5399.97	0.22	862.48	0.67	783.32
44.40	5399.97	0.22	862.48	0.67	778.35

44.50	5399.97	0.22	862.48	0.66	773.43
44.60	5399.97	0.22	862.48	0.66	768.61
44.70	5399.97	0.21	862.48	0.66	763.84
44.80	5399.97	0.21	862.48	0.66	759.01
44.90	5399.97	0.21	862.48	0.65	754.29
45.00	5399.97	0.21	862.48	0.65	749.70
45.10	5399.97	0.21	862.48	0.65	745.12
45.20	5399.97	0.21	862.48	0.65	740.56
45.30	5399.97	0.21	862.48	0.65	736.03
45.40	5399.97	0.21	862.48	0.64	731.67
45.50	5399.97	0.21	862.48	0.64	727.38
45.60	5399.97	0.21	862.48	0.64	723.08
45.70	5399.97	0.21	862.48	0.64	718.83
45.80	5399.97	0.21	862.48	0.64	714.47
45.90	5399.97	0.21	862.47	0.63	709.89
46.00	5399.97	0.21	862.47	0.63	705.02
46.10	5399.97	0.21	862.47	0.63	699.82
46.20	5399.97	0.21	862.47	0.63	694.86
46.30	5399.97	0.20	862.47	0.62	690.39
46.40	5399.97	0.20	862.47	0.62	685.88
46.50	5399.97	0.20	862.47	0.62	681.28
46.60	5399.97	0.20	862.47	0.62	676.73
46.70	5399.97	0.20	862.47	0.61	671.97
46.80	5399.97	0.20	862.47	0.61	666.98
46.90	5399.97	0.20	862.47	0.61	662.25
47.00	5399.97	0.20	862.47	0.61	658.02
47.10	5399.97	0.20	862.47	0.61	653.92
47.20	5399.97	0.20	862.47	0.60	649.77
47.30	5399.97	0.20	862.47	0.60	645.64
47.40	5399.97	0.20	862.47	0.60	641.55
47.50	5399.97	0.20	862.46	0.60	637.57
47.60	5399.97	0.20	862.46	0.60	633.55
47.70	5399.97	0.20	862.46	0.59	629.43
47.80	5399.97	0.20	862.46	0.59	625.35
47.90	5399.97	0.20	862.46	0.59	621.42
48.00	5399.97	0.19	862.46	0.59	617.63
48.10	5399.97	0.19	862.46	0.59	613.84
48.20	5399.97	0.19	862.46	0.58	610.02
48.30	5399.97	0.19	862.46	0.58	606.23
48.40	5399.97	0.19	862.46	0.58	602.47
48.50	5399.97	0.19	862.46	0.58	598.75
48.60	5399.97	0.19	862.46	0.58	595.13
48.70	5399.97	0.19	862.46	0.57	591.62
48.80	5399.97	0.19	862.46	0.57	588.20
48.90	5399.97	0.19	862.46	0.57	584.84
49.00	5399.97	0.19	862.46	0.57	581.51
49.10	5399.97	0.19	862.46	0.57	578.22
49.20	5399.97	0.19	862.46	0.57	575.01
49.30	5399.97	0.19	862.45	0.57	571.86
49.40	5399.97	0.19	862.45	0.56	568.70
49.50	5399.97	0.19	862.45	0.56	565.49
49.60	5399.97	0.19	862.45	0.56	562.23
49.70	5399.97	0.19	862.45	0.56	559.04
49.80	5399.97	0.18	862.45	0.56	555.90
49.90	5399.97	0.18	862.45	0.56	552.82
50.00	5399.97	0.18	862.45	0.55	549.80
50.10	5399.97	0.18	862.45	0.55	546.80
50.20	5399.97	0.18	862.45	0.55	543.79
50.30	5399.97	0.18	862.45	0.55	540.78
50.40	5399.97	0.18	862.45	0.55	537.81
50.50	5399.97	0.18	862.45	0.55	534.89
50.60	5399.97	0.18	862.45	0.55	531.97
50.70	5399.97	0.18	862.45	0.54	529.02
50.80	5399.97	0.18	862.45	0.54	526.09
50.90	5399.97	0.18	862.45	0.54	523.19
51.00	5399.97	0.18	862.45	0.54	520.31
51.10	5399.97	0.18	862.45	0.54	517.47
51.20	5399.97	0.18	862.45	0.54	514.67
51.30	5399.97	0.18	862.44	0.53	511.90
51.40	5399.97	0.18	862.44	0.53	509.16
51.50	5399.97	0.18	862.44	0.53	506.45
51.60	5399.97	0.18	862.44	0.53	503.78
51.70	5399.97	0.18	862.44	0.53	501.14
51.80	5399.97	0.17	862.44	0.53	498.50
51.90	5399.97	0.17	862.44	0.53	495.82
52.00	5399.97	0.17	862.44	0.53	493.08

52.10	5399.97	0.17	862.44	0.52	490.28
52.20	5399.97	0.17	862.44	0.52	487.49
52.30	5399.97	0.17	862.44	0.52	484.79
52.40	5399.97	0.17	862.44	0.52	482.19
52.50	5399.97	0.17	862.44	0.52	479.66
52.60	5399.97	0.17	862.44	0.52	477.15
52.70	5399.97	0.17	862.44	0.52	474.63
52.80	5399.97	0.17	862.44	0.51	472.16
52.90	5399.97	0.17	862.44	0.51	469.73
53.00	5399.97	0.17	862.44	0.51	467.30
53.10	5399.97	0.17	862.44	0.51	464.87
53.20	5399.97	0.17	862.44	0.51	462.44
53.30	5399.97	0.17	862.44	0.51	460.04
53.40	5399.97	0.17	862.43	0.51	457.62
53.50	5399.97	0.17	862.43	0.50	455.19
53.60	5399.97	0.17	862.43	0.50	452.78
53.70	5399.97	0.17	862.43	0.50	450.38
53.80	5399.97	0.17	862.43	0.50	447.96
53.90	5399.97	0.17	862.43	0.50	445.56
54.00	5399.97	0.16	862.43	0.50	443.20
54.10	5399.97	0.16	862.43	0.50	440.89
54.20	5399.97	0.16	862.43	0.50	438.62
54.30	5399.97	0.16	862.43	0.49	436.38
54.40	5399.97	0.16	862.43	0.49	434.15
54.50	5399.97	0.16	862.43	0.49	431.89
54.60	5399.97	0.16	862.43	0.49	429.62
54.70	5399.97	0.16	862.43	0.49	427.32
54.80	5399.97	0.16	862.43	0.49	425.01
54.90	5399.97	0.16	862.43	0.49	422.69
55.00	5399.97	0.16	862.43	0.48	420.38
55.10	5399.97	0.16	862.43	0.48	418.14
55.20	5399.97	0.16	862.43	0.48	415.96
55.30	5399.97	0.16	862.43	0.48	413.81
55.40	5399.97	0.16	862.43	0.48	411.68
55.50	5399.97	0.16	862.43	0.48	409.55
55.60	5399.97	0.16	862.43	0.48	407.43
55.70	5399.97	0.16	862.43	0.48	405.33
55.80	5399.97	0.16	862.42	0.47	403.26
55.90	5399.97	0.16	862.42	0.47	401.17
56.00	5399.97	0.16	862.42	0.47	399.07
56.10	5399.97	0.16	862.42	0.47	396.98
56.20	5399.97	0.16	862.42	0.47	394.88
56.30	5399.97	0.16	862.42	0.47	392.75
56.40	5399.97	0.15	862.42	0.47	390.63
56.50	5399.97	0.15	862.42	0.47	388.55
56.60	5399.97	0.15	862.42	0.46	386.49
56.70	5399.97	0.15	862.42	0.46	384.46
56.80	5399.97	0.15	862.42	0.46	382.46
56.90	5399.97	0.15	862.42	0.46	380.50
57.00	5399.97	0.15	862.42	0.46	378.57
57.10	5399.97	0.15	862.42	0.46	376.69
57.20	5399.97	0.15	862.42	0.46	374.84
57.30	5399.97	0.15	862.42	0.46	372.99
57.40	5399.97	0.15	862.42	0.46	371.17
57.50	5399.97	0.15	862.42	0.45	369.38
57.60	5399.97	0.15	862.42	0.45	367.64
57.70	5399.97	0.15	862.42	0.45	365.92
57.80	5399.97	0.15	862.42	0.45	364.20
57.90	5399.97	0.15	862.42	0.45	362.51
58.00	5399.97	0.15	862.42	0.45	360.80
58.10	5399.97	0.15	862.42	0.45	359.09
58.20	5399.97	0.15	862.42	0.45	357.35
58.30	5399.97	0.15	862.41	0.45	355.61
58.40	5399.97	0.15	862.41	0.45	353.85
58.50	5399.97	0.15	862.41	0.44	352.09
58.60	5399.97	0.15	862.41	0.44	350.33
58.70	5399.97	0.15	862.41	0.44	348.59
58.80	5399.97	0.15	862.41	0.44	346.89
58.90	5399.97	0.15	862.41	0.44	345.22
59.00	5399.97	0.14	862.41	0.44	343.58
59.10	5399.97	0.14	862.41	0.44	341.98
59.20	5399.97	0.14	862.41	0.44	340.40
59.30	5399.97	0.14	862.41	0.44	338.83
59.40	5399.97	0.14	862.41	0.44	337.26
59.50	5399.97	0.14	862.41	0.43	335.71
59.60	5399.97	0.14	862.41	0.43	334.18

59.70	5399.97	0.14	862.41	0.43	332.65
59.80	5399.97	0.14	862.41	0.43	331.13
59.90	5399.97	0.14	862.41	0.43	329.60
60.00	5399.97	0.14	862.41	0.43	328.06

THE MAXIMUM DISCHARGE FROM CROSS SECTION 2 IS: 1385.07 CFS AT TIME: 17.92 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 1724.13 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 2

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00

6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	0.00	0.00	0.00	0.00	0.00
7.80	0.00	0.00	0.00	0.00	0.00
7.90	0.00	0.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	0.00	0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	0.00	0.00	0.00	0.00	0.00
8.60	0.00	0.00	0.00	0.00	0.00
8.70	0.00	0.00	0.00	0.00	0.00
8.80	0.00	0.00	0.00	0.00	0.00
8.90	0.00	0.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	0.00	0.00
9.10	0.00	0.00	0.00	0.00	0.00
9.20	0.00	0.00	0.00	0.00	0.00
9.30	0.00	0.00	0.00	0.00	0.00
9.40	0.00	0.00	0.00	0.00	0.00
9.50	0.00	0.00	0.00	0.00	0.00
9.60	0.00	0.00	0.00	0.00	0.00
9.70	0.00	0.00	0.00	0.00	0.00
9.80	84.67	0.00	869.94	0.01	0.00
9.90	904.23	0.00	869.94	0.01	0.02
10.00	1591.18	0.00	869.94	0.02	0.04
10.10	3032.82	0.00	869.94	0.02	0.10
10.20	3747.87	0.00	869.94	0.02	0.15
10.30	4130.44	0.00	869.94	0.02	0.20
10.40	4505.01	0.00	869.94	0.02	0.25
10.50	4751.02	0.00	869.94	0.02	0.31
10.60	4765.66	0.00	869.94	0.02	0.38
10.70	4765.66	0.00	869.94	0.03	0.45
10.80	4765.66	0.00	869.94	0.03	0.54
10.90	4765.66	0.00	869.95	0.03	0.65
11.00	4778.68	0.00	869.95	0.03	0.77
11.10	4854.90	0.01	869.95	0.04	0.93
11.20	4886.65	0.01	869.95	0.04	1.12
11.30	4941.39	0.01	869.95	0.04	1.35
11.40	4941.39	0.01	869.95	0.04	1.65
11.50	4941.39	0.01	869.95	0.05	2.01
11.60	4977.31	0.01	869.95	0.05	2.67
11.70	4999.97	0.01	869.95	0.06	3.77
11.80	4999.97	0.02	869.96	0.07	5.56
11.90	4999.97	0.02	869.96	0.09	11.25
12.00	4999.97	0.03	869.97	0.12	20.35
12.10	4999.97	0.04	869.98	0.14	29.51
12.20	4999.97	0.05	869.99	0.15	37.17
12.30	4999.97	0.06	870.00	0.16	45.42
12.40	4999.97	0.06	870.00	0.17	51.58
12.50	4999.97	0.06	870.01	0.18	57.75
12.60	4999.97	0.07	870.01	0.18	62.79
12.70	4999.97	0.07	870.01	0.19	66.49
12.80	4999.97	0.07	870.01	0.19	70.34
12.90	4999.97	0.08	870.02	0.20	73.95
13.00	4999.97	0.08	870.02	0.20	77.64
13.10	4999.97	0.08	870.02	0.20	81.26
13.20	4999.97	0.08	870.02	0.21	84.79
13.30	4999.97	0.08	870.02	0.21	88.39
13.40	4999.97	0.09	870.03	0.21	91.83
13.50	4999.97	0.09	870.03	0.22	95.28
13.60	4999.97	0.09	870.03	0.22	98.62

13.70	4999.97	0.09	870.03	0.22	101.77
13.80	4999.97	0.09	870.03	0.23	104.81
13.90	4999.97	0.09	870.03	0.23	107.60
14.00	4999.97	0.10	870.04	0.23	110.22
14.10	4999.97	0.10	870.04	0.23	112.59
14.20	4999.97	0.10	870.04	0.24	114.69
14.30	4999.97	0.10	870.04	0.24	116.61
14.40	4999.97	0.10	870.04	0.24	118.27
14.50	4999.97	0.10	870.04	0.24	119.75
14.60	4999.97	0.10	870.04	0.24	121.06
14.70	4999.97	0.10	870.04	0.24	122.22
14.80	4999.97	0.10	870.04	0.24	123.29
14.90	4999.97	0.10	870.04	0.24	124.25
15.00	4999.97	0.10	870.04	0.24	125.18
15.10	4999.97	0.10	870.04	0.24	126.07
15.20	4999.97	0.10	870.04	0.25	126.93
15.30	4999.97	0.10	870.04	0.25	127.83
15.40	4999.97	0.10	870.05	0.25	128.72
15.50	4999.97	0.10	870.05	0.25	129.68
15.60	4999.97	0.11	870.05	0.25	130.68
15.70	4999.97	0.11	870.05	0.25	131.73
15.80	4999.97	0.11	870.05	0.25	132.86
15.90	4999.97	0.11	870.05	0.25	134.08
16.00	4999.97	0.11	870.05	0.25	136.55
16.10	4999.97	0.13	870.07	0.28	182.69
16.20	4999.97	0.18	870.12	0.58	537.34
16.30	4999.97	0.19	870.13	0.64	615.61
16.40	4999.97	0.20	870.14	0.66	657.19
16.50	4999.97	0.21	870.15	0.67	704.46
16.60	4999.97	0.22	870.16	0.68	738.24
16.70	4999.97	0.22	870.16	0.69	765.71
16.80	4999.97	0.23	870.17	0.70	788.90
16.90	4999.97	0.23	870.17	0.70	809.38
17.00	4999.97	0.24	870.18	0.71	829.75
17.10	4999.97	0.24	870.18	0.72	864.49
17.20	4999.97	0.25	870.19	0.76	958.77
17.30	4999.97	0.27	870.21	0.85	1157.64
17.40	4999.97	0.29	870.23	0.88	1257.64
17.50	4999.97	0.30	870.24	0.89	1326.63
17.60	4999.97	0.31	870.25	0.89	1352.47
17.70	4999.97	0.31	870.25	0.88	1371.28
17.80	4999.97	0.31	870.25	0.88	1380.81
17.90	4999.97	0.32	870.26	0.88	1384.30
18.00	4999.97	0.32	870.26	0.87	1384.75
18.10	4999.97	0.32	870.26	0.87	1382.57
18.20	4999.97	0.32	870.26	0.87	1378.08
18.30	4999.97	0.32	870.26	0.86	1371.74
18.40	4999.97	0.32	870.26	0.85	1364.50
18.50	4999.97	0.32	870.26	0.85	1357.74
18.60	4999.97	0.32	870.26	0.84	1349.03
18.70	4999.97	0.32	870.26	0.84	1339.59
18.80	4999.97	0.32	870.26	0.83	1329.72
18.90	4999.97	0.32	870.26	0.83	1321.18
19.00	4999.97	0.32	870.26	0.82	1314.27
19.10	4999.97	0.32	870.26	0.82	1307.81
19.20	4999.97	0.32	870.26	0.82	1301.60
19.30	4999.97	0.32	870.26	0.81	1297.11
19.40	4999.97	0.32	870.26	0.81	1293.91
19.50	4999.97	0.32	870.26	0.81	1289.75
19.60	4999.97	0.32	870.26	0.81	1285.48
19.70	4999.97	0.32	870.26	0.80	1279.71
19.80	4999.97	0.32	870.26	0.80	1274.12
19.90	4999.97	0.32	870.26	0.79	1269.11
20.00	4999.97	0.32	870.26	0.79	1263.42
20.10	4999.97	0.32	870.26	0.78	1257.68
20.20	4999.97	0.32	870.26	0.77	1254.32
20.30	4999.97	0.33	870.27	0.77	1252.95
20.40	4999.97	0.33	870.27	0.77	1250.56
20.50	4999.97	0.33	870.27	0.76	1245.61
20.60	4999.97	0.33	870.27	0.76	1238.15
20.70	4999.97	0.33	870.27	0.75	1229.39
20.80	4999.97	0.33	870.27	0.75	1220.27
20.90	4999.97	0.32	870.27	0.75	1211.00
21.00	4999.97	0.32	870.26	0.74	1201.32
21.10	4999.97	0.32	870.26	0.74	1191.11
21.20	4999.97	0.32	870.26	0.73	1180.70

21.30	4999.97	0.32	870.26	0.73	1170.71
21.40	4999.97	0.32	870.26	0.72	1161.42
21.50	4999.97	0.32	870.26	0.72	1152.50
21.60	4999.97	0.32	870.26	0.72	1143.34
21.70	4999.97	0.32	870.26	0.71	1134.01
21.80	4999.97	0.32	870.26	0.71	1124.82
21.90	4999.97	0.32	870.26	0.70	1115.94
22.00	4999.97	0.32	870.26	0.70	1107.79
22.10	4999.97	0.32	870.26	0.70	1100.68
22.20	4999.97	0.32	870.26	0.69	1094.81
22.30	4999.97	0.32	870.26	0.69	1090.79
22.40	4999.97	0.32	870.26	0.69	1089.08
22.50	4999.97	0.32	870.26	0.69	1089.24
22.60	4999.97	0.32	870.26	0.68	1089.06
22.70	4999.97	0.32	870.26	0.68	1086.00
22.80	4999.97	0.32	870.26	0.68	1080.34
22.90	4999.97	0.32	870.26	0.68	1074.19
23.00	4999.97	0.32	870.26	0.68	1068.14
23.10	4999.97	0.32	870.26	0.67	1061.95
23.20	4999.97	0.31	870.26	0.67	1055.31
23.30	4999.97	0.31	870.25	0.67	1048.12
23.40	4999.97	0.31	870.25	0.66	1040.56
23.50	4999.97	0.31	870.25	0.66	1032.75
23.60	4999.97	0.31	870.25	0.66	1024.82
23.70	4999.97	0.31	870.25	0.66	1016.95
23.80	4999.97	0.31	870.25	0.65	1009.05
23.90	4999.97	0.31	870.25	0.65	1001.11
24.00	4999.97	0.31	870.25	0.65	993.19
24.10	4999.97	0.31	870.25	0.64	984.33
24.20	4999.97	0.30	870.25	0.64	974.41
24.30	4999.97	0.30	870.24	0.64	964.61
24.40	4999.97	0.30	870.24	0.63	954.94
24.50	4999.97	0.30	870.24	0.63	945.34
24.60	4999.97	0.30	870.24	0.62	935.82
24.70	4999.97	0.30	870.24	0.62	926.41
24.80	4999.97	0.30	870.24	0.62	917.16
24.90	4999.97	0.30	870.24	0.61	908.01
25.00	4999.97	0.29	870.24	0.61	898.96
25.10	4999.97	0.29	870.23	0.61	890.10
25.20	4999.97	0.29	870.23	0.60	881.35
25.30	4999.97	0.29	870.23	0.60	872.77
25.40	4999.97	0.29	870.23	0.60	864.29
25.50	4999.97	0.29	870.23	0.59	855.90
25.60	4999.97	0.29	870.23	0.59	847.60
25.70	4999.97	0.29	870.23	0.59	839.39
25.80	4999.97	0.28	870.22	0.59	831.32
25.90	4999.97	0.28	870.22	0.58	823.40
26.00	4999.97	0.28	870.22	0.58	815.58
26.10	4999.97	0.28	870.22	0.58	807.81
26.20	4999.97	0.28	870.22	0.57	800.21
26.30	4999.97	0.28	870.22	0.57	792.78
26.40	4999.97	0.28	870.22	0.57	785.47
26.50	4999.97	0.28	870.22	0.56	778.29
26.60	4999.97	0.27	870.22	0.56	771.24
26.70	4999.97	0.27	870.21	0.56	764.37
26.80	4999.97	0.27	870.21	0.56	757.76
26.90	4999.97	0.27	870.21	0.55	751.42
27.00	4999.97	0.27	870.21	0.55	745.34
27.10	4999.97	0.27	870.21	0.55	739.54
27.20	4999.97	0.27	870.21	0.55	734.01
27.30	4999.97	0.27	870.21	0.54	728.69
27.40	4999.97	0.27	870.21	0.54	723.47
27.50	4999.97	0.27	870.21	0.54	718.29
27.60	4999.97	0.27	870.21	0.54	713.10
27.70	4999.97	0.26	870.20	0.54	707.88
27.80	4999.97	0.26	870.20	0.53	702.65
27.90	4999.97	0.26	870.20	0.53	697.42
28.00	4999.97	0.26	870.20	0.53	692.24
28.10	4999.97	0.26	870.20	0.53	687.08
28.20	4999.97	0.26	870.20	0.53	681.89
28.30	4999.97	0.26	870.20	0.52	676.74
28.40	4999.97	0.26	870.20	0.52	671.64
28.50	4999.97	0.26	870.20	0.52	666.44
28.60	4999.97	0.26	870.20	0.52	661.46
28.70	4999.97	0.25	870.20	0.51	656.43
28.80	4999.97	0.25	870.19	0.51	651.44

28.90	4999.97	0.25	870.19	0.51	646.48
29.00	4999.97	0.25	870.19	0.51	641.55
29.10	4999.97	0.25	870.19	0.51	636.66
29.20	4999.97	0.25	870.19	0.50	631.82
29.30	4999.97	0.25	870.19	0.50	627.03
29.40	4999.97	0.25	870.19	0.50	622.28
29.50	4999.97	0.25	870.19	0.50	617.55
29.60	4999.97	0.25	870.19	0.50	612.86
29.70	4999.97	0.25	870.19	0.49	608.23
29.80	4999.97	0.24	870.19	0.49	603.62
29.90	4999.97	0.24	870.18	0.49	599.04
30.00	4999.97	0.24	870.18	0.49	594.51
30.10	4999.97	0.24	870.18	0.49	589.93
30.20	4999.97	0.24	870.18	0.49	585.52
30.30	4999.97	0.24	870.18	0.48	581.11
30.40	4999.97	0.24	870.18	0.48	576.72
30.50	4999.97	0.24	870.18	0.48	572.34
30.60	4999.97	0.24	870.18	0.48	568.03
30.70	4999.97	0.24	870.18	0.48	563.74
30.80	4999.97	0.24	870.18	0.47	559.45
30.90	4999.97	0.24	870.18	0.47	555.19
31.00	4999.97	0.23	870.18	0.47	550.96
31.10	4999.97	0.23	870.17	0.47	546.78
31.20	4999.97	0.23	870.17	0.47	542.64
31.30	4999.97	0.23	870.17	0.46	538.52
31.40	4999.97	0.23	870.17	0.46	534.43
31.50	4999.97	0.23	870.17	0.46	530.35
31.60	4999.97	0.23	870.17	0.46	526.30
31.70	4999.97	0.23	870.17	0.46	522.27
31.80	4999.97	0.23	870.17	0.46	518.27
31.90	4999.97	0.23	870.17	0.45	514.32
32.00	4999.97	0.23	870.17	0.45	510.37
32.10	4999.97	0.22	870.17	0.45	506.47
32.20	4999.97	0.22	870.16	0.45	502.60
32.30	4999.97	0.22	870.16	0.45	498.73
32.40	4999.97	0.22	870.16	0.45	494.91
32.50	4999.97	0.22	870.16	0.44	491.11
32.60	4999.97	0.22	870.16	0.44	487.32
32.70	4999.97	0.22	870.16	0.44	483.55
32.80	4999.97	0.22	870.16	0.44	479.83
32.90	4999.97	0.22	870.16	0.44	476.11
33.00	4999.97	0.22	870.16	0.43	472.43
33.10	4999.97	0.22	870.16	0.43	468.78
33.20	4999.97	0.22	870.16	0.43	465.13
33.30	4999.97	0.21	870.16	0.43	461.48
33.40	4999.97	0.21	870.15	0.43	457.85
33.50	4999.97	0.21	870.15	0.43	454.26
33.60	4999.97	0.21	870.15	0.42	450.70
33.70	4999.97	0.21	870.15	0.42	447.16
33.80	4999.97	0.21	870.15	0.42	443.63
33.90	4999.97	0.21	870.15	0.42	440.14
34.00	4999.97	0.21	870.15	0.42	436.69
34.10	4999.97	0.21	870.15	0.42	433.27
34.20	4999.97	0.21	870.15	0.42	429.87
34.30	4999.97	0.21	870.15	0.41	426.52
34.40	4999.97	0.21	870.15	0.41	423.18
34.50	4999.97	0.20	870.15	0.41	419.80
34.60	4999.97	0.20	870.14	0.41	416.59
34.70	4999.97	0.20	870.14	0.41	413.32
34.80	4999.97	0.20	870.14	0.41	410.06
34.90	4999.97	0.20	870.14	0.40	406.79
35.00	4999.97	0.20	870.14	0.40	403.52
35.10	4999.97	0.20	870.14	0.40	400.30
35.20	4999.97	0.20	870.14	0.40	397.10
35.30	4999.97	0.20	870.14	0.40	393.92
35.40	4999.97	0.20	870.14	0.40	390.74
35.50	4999.97	0.20	870.14	0.40	387.55
35.60	4999.97	0.20	870.14	0.39	384.39
35.70	4999.97	0.19	870.14	0.39	381.25
35.80	4999.97	0.19	870.13	0.39	378.12
35.90	4999.97	0.19	870.13	0.39	375.01
36.00	4999.97	0.19	870.13	0.39	371.92
36.10	4999.97	0.19	870.13	0.39	368.84
36.20	4999.97	0.19	870.13	0.39	365.80
36.30	4999.97	0.19	870.13	0.38	362.79
36.40	4999.97	0.19	870.13	0.38	359.79

36.50	4999.97	0.19	870.13	0.38	356.81
36.60	4999.97	0.19	870.13	0.38	353.87
36.70	4999.97	0.19	870.13	0.38	350.97
36.80	4999.97	0.18	870.13	0.38	348.09
36.90	4999.97	0.18	870.12	0.38	345.22
37.00	4999.97	0.18	870.12	0.37	342.35
37.10	4999.97	0.18	870.12	0.37	339.53
37.20	4999.97	0.18	870.12	0.37	336.75
37.30	4999.97	0.18	870.12	0.37	333.98
37.40	4999.97	0.18	870.12	0.37	331.24
37.50	4999.97	0.18	870.12	0.37	328.52
37.60	4999.97	0.18	870.12	0.37	325.81
37.70	4999.97	0.18	870.12	0.36	323.13
37.80	4999.97	0.18	870.12	0.36	320.45
37.90	4999.97	0.18	870.12	0.36	317.77
38.00	4999.97	0.17	870.12	0.36	315.12
38.10	4999.97	0.17	870.11	0.36	312.48
38.20	4999.97	0.17	870.11	0.36	309.87
38.30	4999.97	0.17	870.11	0.36	307.31
38.40	4999.97	0.17	870.11	0.36	304.75
38.50	4999.97	0.17	870.11	0.35	302.19
38.60	4999.97	0.17	870.11	0.35	299.65
38.70	4999.97	0.17	870.11	0.35	297.15
38.80	4999.97	0.17	870.11	0.35	294.68
38.90	4999.97	0.17	870.11	0.35	292.23
39.00	4999.97	0.17	870.11	0.35	289.81
39.10	4999.97	0.17	870.11	0.35	287.42
39.20	4999.97	0.16	870.11	0.35	285.06
39.30	4999.97	0.16	870.10	0.35	282.71
39.40	4999.97	0.16	870.10	0.34	280.39
39.50	4999.97	0.16	870.10	0.34	278.11
39.60	4999.97	0.16	870.10	0.34	275.83
39.70	4999.97	0.16	870.10	0.34	273.57
39.80	4999.97	0.16	870.10	0.34	271.33
39.90	4999.97	0.16	870.10	0.34	269.11
40.00	4999.97	0.16	870.10	0.34	266.91
40.10	4999.97	0.16	870.10	0.34	264.73
40.20	4999.97	0.16	870.10	0.34	262.56
40.30	4999.97	0.16	870.10	0.33	260.41
40.40	4999.97	0.16	870.10	0.33	258.24
40.50	4999.97	0.15	870.10	0.33	256.17
40.60	4999.97	0.15	870.09	0.33	254.08
40.70	4999.97	0.15	870.09	0.33	252.01
40.80	4999.97	0.15	870.09	0.33	249.96
40.90	4999.97	0.15	870.09	0.33	247.94
41.00	4999.97	0.15	870.09	0.33	245.95
41.10	4999.97	0.15	870.09	0.33	243.98
41.20	4999.97	0.15	870.09	0.32	242.01
41.30	4999.97	0.15	870.09	0.32	240.07
41.40	4999.97	0.15	870.09	0.32	238.14
41.50	4999.97	0.15	870.09	0.32	236.23
41.60	4999.97	0.15	870.09	0.32	234.34
41.70	4999.97	0.15	870.09	0.32	232.45
41.80	4999.97	0.14	870.09	0.32	230.59
41.90	4999.97	0.14	870.08	0.32	228.73
42.00	4999.97	0.14	870.08	0.32	226.88
42.10	4999.97	0.14	870.08	0.32	225.06
42.20	4999.97	0.14	870.08	0.31	223.26
42.30	4999.97	0.14	870.08	0.31	221.47
42.40	4999.97	0.14	870.08	0.31	219.68
42.50	4999.97	0.14	870.08	0.31	217.91
42.60	4999.97	0.14	870.08	0.31	216.16
42.70	4999.97	0.14	870.08	0.31	214.41
42.80	4999.97	0.14	870.08	0.31	212.67
42.90	4999.97	0.14	870.08	0.31	210.96
43.00	4999.97	0.14	870.08	0.31	209.26
43.10	4999.97	0.14	870.08	0.31	207.58
43.20	4999.97	0.14	870.08	0.30	205.90
43.30	4999.97	0.13	870.08	0.30	204.25
43.40	4999.97	0.13	870.07	0.30	202.63
43.50	4999.97	0.13	870.07	0.30	201.01
43.60	4999.97	0.13	870.07	0.30	199.41
43.70	4999.97	0.13	870.07	0.30	197.82
43.80	4999.97	0.13	870.07	0.30	196.25
43.90	4999.97	0.13	870.07	0.30	194.69
44.00	4999.97	0.13	870.07	0.30	193.15

44.10	4999.97	0.13	870.07	0.30	191.63
44.20	4999.97	0.13	870.07	0.29	190.13
44.30	4999.97	0.13	870.07	0.29	188.65
44.40	4999.97	0.13	870.07	0.29	187.18
44.50	4999.97	0.13	870.07	0.29	185.72
44.60	4999.97	0.13	870.07	0.29	184.29
44.70	4999.97	0.13	870.07	0.29	182.87
44.80	4999.97	0.13	870.07	0.29	181.46
44.90	4999.97	0.12	870.07	0.29	180.06
45.00	4999.97	0.12	870.06	0.29	178.68
45.10	4999.97	0.12	870.06	0.29	177.31
45.20	4999.97	0.12	870.06	0.29	175.95
45.30	4999.97	0.12	870.06	0.29	174.61
45.40	4999.97	0.12	870.06	0.28	173.28
45.50	4999.97	0.12	870.06	0.28	171.96
45.60	4999.97	0.12	870.06	0.28	170.65
45.70	4999.97	0.12	870.06	0.28	169.34
45.80	4999.97	0.12	870.06	0.28	168.04
45.90	4999.97	0.12	870.06	0.28	166.77
46.00	4999.97	0.12	870.06	0.28	165.51
46.10	4999.97	0.12	870.06	0.28	164.25
46.20	4999.97	0.12	870.06	0.28	162.99
46.30	4999.97	0.12	870.06	0.28	161.76
46.40	4999.97	0.12	870.06	0.28	160.54
46.50	4999.97	0.12	870.06	0.27	159.32
46.60	4999.97	0.12	870.06	0.27	158.13
46.70	4999.97	0.11	870.06	0.27	156.94
46.80	4999.97	0.11	870.06	0.27	155.76
46.90	4999.97	0.11	870.05	0.27	154.60
47.00	4999.97	0.11	870.05	0.27	153.45
47.10	4999.97	0.11	870.05	0.27	152.31
47.20	4999.97	0.11	870.05	0.27	151.17
47.30	4999.97	0.11	870.05	0.27	150.05
47.40	4999.97	0.11	870.05	0.27	148.95
47.50	4999.97	0.11	870.05	0.27	147.85
47.60	4999.97	0.11	870.05	0.27	146.76
47.70	4999.97	0.11	870.05	0.27	145.69
47.80	4999.97	0.11	870.05	0.26	144.63
47.90	4999.97	0.11	870.05	0.26	143.57
48.00	4999.97	0.11	870.05	0.26	142.52
48.10	4999.97	0.11	870.05	0.26	141.49
48.20	4999.97	0.11	870.05	0.26	140.46
48.30	4999.97	0.11	870.05	0.26	139.45
48.40	4999.97	0.11	870.05	0.26	138.45
48.50	4999.97	0.11	870.05	0.26	137.45
48.60	4999.97	0.11	870.05	0.26	136.45
48.70	4999.97	0.11	870.05	0.26	135.47
48.80	4999.97	0.10	870.05	0.26	134.51
48.90	4999.97	0.10	870.05	0.26	133.55
49.00	4999.97	0.10	870.04	0.26	132.60
49.10	4999.97	0.10	870.04	0.25	131.65
49.20	4999.97	0.10	870.04	0.25	130.72
49.30	4999.97	0.10	870.04	0.25	129.80
49.40	4999.97	0.10	870.04	0.25	128.88
49.50	4999.97	0.10	870.04	0.25	127.97
49.60	4999.97	0.10	870.04	0.25	127.07
49.70	4999.97	0.10	870.04	0.25	126.18
49.80	4999.97	0.10	870.04	0.25	125.30
49.90	4999.97	0.10	870.04	0.25	124.42
50.00	4999.97	0.10	870.04	0.25	123.55
50.10	4999.97	0.10	870.04	0.25	122.69
50.20	4999.97	0.10	870.04	0.25	121.84
50.30	4999.97	0.10	870.04	0.25	120.99
50.40	4999.97	0.10	870.04	0.25	120.15
50.50	4999.97	0.10	870.04	0.25	119.33
50.60	4999.97	0.10	870.04	0.24	118.51
50.70	4999.97	0.10	870.04	0.24	117.69
50.80	4999.97	0.10	870.04	0.24	116.88
50.90	4999.97	0.10	870.04	0.24	116.08
51.00	4999.97	0.10	870.04	0.24	115.28
51.10	4999.97	0.09	870.04	0.24	114.49
51.20	4999.97	0.09	870.04	0.24	113.71
51.30	4999.97	0.09	870.03	0.24	112.93
51.40	4999.97	0.09	870.03	0.24	112.16
51.50	4999.97	0.09	870.03	0.24	111.40
51.60	4999.97	0.09	870.03	0.24	110.64

51.70	4999.97	0.09	870.03	0.24	109.89
51.80	4999.97	0.09	870.03	0.24	109.15
51.90	4999.97	0.09	870.03	0.24	108.42
52.00	4999.97	0.09	870.03	0.24	107.69
52.10	4999.97	0.09	870.03	0.23	106.96
52.20	4999.97	0.09	870.03	0.23	106.24
52.30	4999.97	0.09	870.03	0.23	105.53
52.40	4999.97	0.09	870.03	0.23	104.83
52.50	4999.97	0.09	870.03	0.23	104.13
52.60	4999.97	0.09	870.03	0.23	103.44
52.70	4999.97	0.09	870.03	0.23	102.76
52.80	4999.97	0.09	870.03	0.23	102.08
52.90	4999.97	0.09	870.03	0.23	101.41
53.00	4999.97	0.09	870.03	0.23	100.75
53.10	4999.97	0.09	870.03	0.23	100.09
53.20	4999.97	0.09	870.03	0.23	99.44
53.30	4999.97	0.09	870.03	0.23	98.80
53.40	4999.97	0.09	870.03	0.23	98.16
53.50	4999.97	0.09	870.03	0.23	97.53
53.60	4999.97	0.09	870.03	0.23	96.91
53.70	4999.97	0.09	870.03	0.23	96.29
53.80	4999.97	0.09	870.03	0.22	95.67
53.90	4999.97	0.08	870.03	0.22	95.06
54.00	4999.97	0.08	870.03	0.22	94.46
54.10	4999.97	0.08	870.03	0.22	93.86
54.20	4999.97	0.08	870.02	0.22	93.27
54.30	4999.97	0.08	870.02	0.22	92.69
54.40	4999.97	0.08	870.02	0.22	92.12
54.50	4999.97	0.08	870.02	0.22	91.54
54.60	4999.97	0.08	870.02	0.22	90.97
54.70	4999.97	0.08	870.02	0.22	90.41
54.80	4999.97	0.08	870.02	0.22	89.85
54.90	4999.97	0.08	870.02	0.22	89.30
55.00	4999.97	0.08	870.02	0.22	88.74
55.10	4999.97	0.08	870.02	0.22	88.20
55.20	4999.97	0.08	870.02	0.22	87.66
55.30	4999.97	0.08	870.02	0.22	87.13
55.40	4999.97	0.08	870.02	0.22	86.59
55.50	4999.97	0.08	870.02	0.22	86.07
55.60	4999.97	0.08	870.02	0.21	85.54
55.70	4999.97	0.08	870.02	0.21	85.02
55.80	4999.97	0.08	870.02	0.21	84.51
55.90	4999.97	0.08	870.02	0.21	84.00
56.00	4999.97	0.08	870.02	0.21	83.49
56.10	4999.97	0.08	870.02	0.21	82.99
56.20	4999.97	0.08	870.02	0.21	82.49
56.30	4999.97	0.08	870.02	0.21	81.99
56.40	4999.97	0.08	870.02	0.21	81.50
56.50	4999.97	0.08	870.02	0.21	81.01
56.60	4999.97	0.08	870.02	0.21	80.53
56.70	4999.97	0.08	870.02	0.21	80.05
56.80	4999.97	0.08	870.02	0.21	79.57
56.90	4999.97	0.08	870.02	0.21	79.10
57.00	4999.97	0.08	870.02	0.21	78.63
57.10	4999.97	0.08	870.02	0.21	78.17
57.20	4999.97	0.08	870.02	0.21	77.71
57.30	4999.97	0.07	870.02	0.21	77.25
57.40	4999.97	0.07	870.02	0.21	76.80
57.50	4999.97	0.07	870.02	0.21	76.34
57.60	4999.97	0.07	870.01	0.20	75.90
57.70	4999.97	0.07	870.01	0.20	75.46
57.80	4999.97	0.07	870.01	0.20	75.02
57.90	4999.97	0.07	870.01	0.20	74.58
58.00	4999.97	0.07	870.01	0.20	74.15
58.10	4999.97	0.07	870.01	0.20	73.72
58.20	4999.97	0.07	870.01	0.20	73.30
58.30	4999.97	0.07	870.01	0.20	72.87
58.40	4999.97	0.07	870.01	0.20	72.45
58.50	4999.97	0.07	870.01	0.20	72.04
58.60	4999.97	0.07	870.01	0.20	71.62
58.70	4999.97	0.07	870.01	0.20	71.21
58.80	4999.97	0.07	870.01	0.20	70.81
58.90	4999.97	0.07	870.01	0.20	70.41
59.00	4999.97	0.07	870.01	0.20	70.00
59.10	4999.97	0.07	870.01	0.20	69.61
59.20	4999.97	0.07	870.01	0.20	69.22

59.30	4999.97	0.07	870.01	0.20	68.83
59.40	4999.97	0.07	870.01	0.20	68.44
59.50	4999.97	0.07	870.01	0.20	68.05
59.60	4999.97	0.07	870.01	0.20	67.67
59.70	4999.97	0.07	870.01	0.20	67.30
59.80	4999.97	0.07	870.01	0.19	66.93
59.90	4999.97	0.07	870.01	0.19	66.55
60.00	4999.97	0.07	870.01	0.19	66.19

THE MAXIMUM DISCHARGE FROM CROSS SECTION 3 IS: 812.67 CFS AT TIME: 18.12 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 916.54 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 3

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00

5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	83.02	0.00	855.86	0.00	0.00
7.50	458.58	0.00	855.86	0.00	0.00
7.60	535.66	0.00	855.86	0.03	0.01
7.70	595.45	0.00	855.86	0.05	0.01
7.80	600.00	0.00	855.86	0.06	0.01
7.90	600.00	0.00	855.86	0.07	0.02
8.00	600.00	0.00	855.86	0.09	0.03
8.10	600.00	0.00	855.86	0.11	0.04
8.20	600.00	0.00	855.86	0.13	0.05
8.30	600.00	0.00	855.86	0.15	0.06
8.40	600.00	0.00	855.86	0.16	0.08
8.50	600.00	0.00	855.86	0.18	0.09
8.60	600.00	0.00	855.86	0.20	0.12
8.70	600.00	0.00	855.86	0.22	0.14
8.80	600.00	0.00	855.86	0.24	0.17
8.90	652.51	0.00	855.86	0.23	0.20
9.00	741.42	0.00	855.86	0.22	0.24
9.10	771.23	0.00	855.86	0.23	0.28
9.20	800.00	0.00	855.86	0.23	0.33
9.30	800.00	0.00	855.86	0.24	0.37
9.40	800.00	0.00	855.86	0.25	0.42
9.50	813.55	0.00	855.86	0.25	0.47
9.60	884.33	0.00	855.86	0.24	0.53
9.70	1773.73	0.00	855.86	0.13	0.61
9.80	3598.41	0.00	855.86	0.07	0.70
9.90	4389.97	0.00	855.86	0.06	0.78
10.00	4894.21	0.00	855.86	0.05	0.88
10.10	5550.39	0.00	855.86	0.05	0.99
10.20	6143.16	0.00	855.86	0.04	1.11
10.30	6436.05	0.00	855.86	0.04	1.23
10.40	6591.90	0.00	855.86	0.04	1.36
10.50	6599.96	0.00	855.86	0.04	1.50
10.60	6599.96	0.01	855.86	0.05	1.66
10.70	6599.96	0.01	855.86	0.05	1.84
10.80	6599.96	0.01	855.86	0.05	2.05
10.90	6599.96	0.01	855.87	0.05	2.29
11.00	6599.96	0.01	855.87	0.05	2.56
11.10	6599.96	0.01	855.87	0.05	2.89
11.20	6599.96	0.01	855.87	0.06	3.27
11.30	6599.96	0.01	855.87	0.06	3.72
11.40	6599.96	0.01	855.87	0.06	4.29
11.50	6599.96	0.01	855.87	0.06	4.96
11.60	6599.96	0.01	855.87	0.07	6.11
11.70	6599.96	0.02	855.87	0.07	7.98
11.80	6599.96	0.02	855.88	0.08	10.94
11.90	6599.96	0.03	855.89	0.10	19.67
12.00	6599.96	0.04	855.90	0.13	34.30
12.10	6599.96	0.05	855.91	0.15	51.10
12.20	6599.96	0.06	855.92	0.17	65.67
12.30	6599.96	0.07	855.92	0.18	78.25
12.40	6599.96	0.07	855.93	0.18	84.73
12.50	6599.96	0.07	855.93	0.19	89.69
12.60	6599.96	0.07	855.93	0.19	92.75
12.70	6599.96	0.08	855.93	0.19	94.09
12.80	6599.96	0.08	855.94	0.19	96.37
12.90	6599.96	0.08	855.94	0.19	100.44
13.00	6599.96	0.09	855.94	0.19	109.97
13.10	6599.96	0.09	855.95	0.21	130.17
13.20	6599.96	0.10	855.96	0.23	155.61

13.30	6599.96	0.10	855.96	0.25	166.50
13.40	6599.96	0.10	855.96	0.25	163.17
13.50	6599.96	0.10	855.96	0.24	157.33
13.60	6599.96	0.10	855.96	0.24	152.15
13.70	6599.96	0.10	855.95	0.23	148.00
13.80	6599.96	0.09	855.95	0.23	144.07
13.90	6599.96	0.09	855.95	0.23	139.88
14.00	6599.96	0.09	855.95	0.22	135.56
14.10	6599.96	0.09	855.95	0.22	131.09
14.20	6599.96	0.09	855.95	0.22	126.57
14.30	6599.96	0.09	855.94	0.21	122.16
14.40	6599.96	0.08	855.94	0.21	117.86
14.50	6599.96	0.08	855.94	0.21	113.81
14.60	6599.96	0.08	855.94	0.20	109.98
14.70	6599.96	0.08	855.94	0.20	106.39
14.80	6599.96	0.08	855.94	0.20	103.11
14.90	6599.96	0.08	855.94	0.20	100.11
15.00	6599.96	0.08	855.93	0.19	97.46
15.10	6599.96	0.07	855.93	0.19	95.15
15.20	6599.96	0.07	855.93	0.19	93.19
15.30	6599.96	0.07	855.93	0.19	91.60
15.40	6599.96	0.07	855.93	0.19	90.26
15.50	6599.96	0.07	855.93	0.19	89.17
15.60	6599.96	0.07	855.93	0.19	88.20
15.70	6599.96	0.07	855.93	0.19	87.24
15.80	6599.96	0.07	855.93	0.19	86.23
15.90	6599.96	0.07	855.93	0.19	85.12
16.00	6599.96	0.07	855.93	0.18	83.97
16.10	6599.96	0.07	855.93	0.18	82.77
16.20	6599.96	0.07	855.93	0.18	81.54
16.30	6599.96	0.07	855.93	0.18	80.31
16.40	6599.96	0.07	855.92	0.18	79.13
16.50	6599.96	0.07	855.92	0.18	78.43
16.60	6599.96	0.09	855.95	0.23	153.77
16.70	6599.96	0.13	855.99	0.58	494.66
16.80	6599.96	0.14	856.00	0.55	500.99
16.90	6599.96	0.15	856.01	0.57	564.30
17.00	6599.96	0.16	856.02	0.59	617.74
17.10	6599.96	0.16	856.02	0.61	659.84
17.20	6599.96	0.17	856.03	0.62	690.95
17.30	6599.96	0.18	856.03	0.62	722.23
17.40	6599.96	0.18	856.04	0.63	745.28
17.50	6599.96	0.18	856.04	0.63	760.55
17.60	6599.96	0.19	856.04	0.63	771.68
17.70	6599.96	0.19	856.05	0.63	785.69
17.80	6599.96	0.19	856.05	0.63	799.71
17.90	6599.96	0.19	856.05	0.63	803.18
18.00	6599.96	0.19	856.05	0.63	806.62
18.10	6599.96	0.20	856.05	0.63	811.57
18.20	6599.96	0.20	856.06	0.63	812.02
18.30	6599.96	0.20	856.06	0.62	809.37
18.40	6599.96	0.20	856.06	0.62	807.53
18.50	6599.96	0.20	856.06	0.61	806.92
18.60	6599.96	0.20	856.06	0.61	805.78
18.70	6599.96	0.20	856.06	0.61	804.54
18.80	6599.96	0.20	856.06	0.60	803.93
18.90	6599.96	0.20	856.06	0.60	804.27
19.00	6599.96	0.21	856.06	0.60	805.50
19.10	6599.96	0.21	856.07	0.59	806.91
19.20	6599.96	0.21	856.07	0.59	808.09
19.30	6599.96	0.21	856.07	0.58	809.09
19.40	6599.96	0.21	856.07	0.58	809.61
19.50	6599.96	0.21	856.07	0.57	809.38
19.60	6599.96	0.21	856.07	0.57	807.88
19.70	6599.96	0.22	856.07	0.57	804.86
19.80	6599.96	0.22	856.08	0.56	800.93
19.90	6599.96	0.22	856.08	0.56	796.58
20.00	6599.96	0.22	856.08	0.55	792.15
20.10	6599.96	0.22	856.08	0.55	787.27
20.20	6599.96	0.22	856.08	0.54	781.76
20.30	6599.96	0.22	856.08	0.54	776.16
20.40	6599.96	0.22	856.08	0.53	770.48
20.50	6599.96	0.22	856.08	0.53	764.33
20.60	6599.96	0.22	856.08	0.52	757.76
20.70	6599.96	0.22	856.08	0.52	749.98
20.80	6599.96	0.22	856.08	0.52	741.54

20.90	6599.96	0.22	856.07	0.51	732.58
21.00	6599.96	0.21	856.07	0.51	723.64
21.10	6599.96	0.21	856.07	0.51	714.87
21.20	6599.96	0.21	856.07	0.50	706.17
21.30	6599.96	0.21	856.07	0.50	697.60
21.40	6599.96	0.21	856.07	0.50	689.07
21.50	6599.96	0.21	856.07	0.49	680.70
21.60	6599.96	0.21	856.07	0.49	672.56
21.70	6599.96	0.21	856.07	0.49	664.54
21.80	6599.96	0.21	856.06	0.48	656.52
21.90	6599.96	0.20	856.06	0.48	648.41
22.00	6599.96	0.20	856.06	0.48	640.31
22.10	6599.96	0.20	856.06	0.47	632.38
22.20	6599.96	0.20	856.06	0.47	624.73
22.30	6599.96	0.20	856.06	0.47	617.41
22.40	6599.96	0.20	856.06	0.46	610.26
22.50	6599.96	0.20	856.06	0.46	603.25
22.60	6599.96	0.20	856.06	0.46	596.34
22.70	6599.96	0.20	856.05	0.46	589.57
22.80	6599.96	0.19	856.05	0.45	582.99
22.90	6599.96	0.19	856.05	0.45	576.50
23.00	6599.96	0.19	856.05	0.45	570.13
23.10	6599.96	0.19	856.05	0.45	563.89
23.20	6599.96	0.19	856.05	0.44	557.80
23.30	6599.96	0.19	856.05	0.44	551.83
23.40	6599.96	0.19	856.05	0.44	546.04
23.50	6599.96	0.19	856.05	0.44	540.41
23.60	6599.96	0.19	856.05	0.43	534.88
23.70	6599.96	0.19	856.04	0.43	529.48
23.80	6599.96	0.19	856.04	0.43	524.10
23.90	6599.96	0.18	856.04	0.43	518.71
24.00	6599.96	0.18	856.04	0.42	513.38
24.10	6599.96	0.18	856.04	0.42	507.51
24.20	6599.96	0.18	856.04	0.42	501.08
24.30	6599.96	0.18	856.04	0.42	494.78
24.40	6599.96	0.18	856.04	0.41	488.63
24.50	6599.96	0.18	856.04	0.41	482.61
24.60	6599.96	0.18	856.03	0.41	476.76
24.70	6599.96	0.17	856.03	0.41	471.08
24.80	6599.96	0.17	856.03	0.41	465.59
24.90	6599.96	0.17	856.03	0.40	460.26
25.00	6599.96	0.17	856.03	0.40	455.09
25.10	6599.96	0.17	856.03	0.40	450.13
25.20	6599.96	0.17	856.03	0.40	445.31
25.30	6599.96	0.17	856.03	0.40	440.65
25.40	6599.96	0.17	856.03	0.39	436.10
25.50	6599.96	0.17	856.03	0.39	431.65
25.60	6599.96	0.17	856.02	0.39	427.31
25.70	6599.96	0.16	856.02	0.39	423.08
25.80	6599.96	0.16	856.02	0.39	418.96
25.90	6599.96	0.16	856.02	0.39	414.97
26.00	6599.96	0.16	856.02	0.38	411.03
26.10	6599.96	0.16	856.02	0.38	407.13
26.20	6557.61	0.16	856.02	0.38	403.33
26.30	6555.80	0.16	856.02	0.38	399.62
26.40	6555.80	0.16	856.02	0.38	395.96
26.50	6552.20	0.16	856.02	0.38	392.35
26.60	6541.39	0.16	856.02	0.38	388.78
26.70	6541.39	0.16	856.01	0.38	385.26
26.80	6541.39	0.16	856.01	0.38	381.80
26.90	6541.39	0.15	856.01	0.37	378.41
27.00	6541.39	0.15	856.01	0.37	375.04
27.10	6541.39	0.15	856.01	0.37	371.69
27.20	6541.39	0.15	856.01	0.37	368.37
27.30	6541.39	0.15	856.01	0.37	365.10
27.40	6541.39	0.15	856.01	0.37	361.87
27.50	6541.39	0.15	856.01	0.37	358.68
27.60	6541.39	0.15	856.01	0.36	355.53
27.70	6462.05	0.15	856.01	0.37	352.42
27.80	6399.96	0.15	856.01	0.37	349.33
27.90	6399.96	0.15	856.01	0.37	346.27
28.00	6399.96	0.15	856.00	0.37	343.26
28.10	6399.96	0.15	856.00	0.37	340.28
28.20	6399.96	0.14	856.00	0.36	337.32
28.30	6399.96	0.14	856.00	0.36	334.41
28.40	6399.96	0.14	856.00	0.36	331.55

28.50	6399.96	0.14	856.00	0.36	328.67
28.60	6399.96	0.14	856.00	0.36	325.94
28.70	6399.96	0.14	856.00	0.36	323.22
28.80	6399.96	0.14	856.00	0.36	320.55
28.90	6399.96	0.14	856.00	0.35	317.90
29.00	6399.96	0.14	856.00	0.35	315.27
29.10	6399.96	0.14	856.00	0.35	312.66
29.20	6399.96	0.14	856.00	0.35	310.09
29.30	6399.96	0.14	856.00	0.35	307.53
29.40	6399.96	0.14	856.00	0.35	305.01
29.50	6399.96	0.14	855.99	0.35	302.52
29.60	6399.96	0.14	855.99	0.35	300.06
29.70	6399.96	0.14	855.99	0.34	297.64
29.80	6399.96	0.13	855.99	0.34	295.23
29.90	6399.96	0.13	855.99	0.34	292.83
30.00	6399.96	0.13	855.99	0.34	290.46
30.10	6399.96	0.13	855.99	0.34	288.06
30.20	6399.96	0.13	855.99	0.34	285.74
30.30	6399.96	0.13	855.99	0.34	283.41
30.40	6399.96	0.13	855.99	0.34	281.07
30.50	6399.96	0.13	855.99	0.33	278.73
30.60	6399.96	0.13	855.99	0.33	276.41
30.70	6399.96	0.13	855.99	0.33	274.11
30.80	6399.96	0.13	855.99	0.33	271.80
30.90	6399.96	0.13	855.99	0.33	269.50
31.00	6399.96	0.13	855.99	0.33	267.21
31.10	6399.96	0.13	855.99	0.33	264.94
31.20	6399.96	0.13	855.98	0.33	262.68
31.30	6399.96	0.13	855.98	0.32	260.42
31.40	6399.96	0.12	855.98	0.32	258.14
31.50	6395.08	0.12	855.98	0.32	255.87
31.60	6341.39	0.12	855.98	0.32	253.63
31.70	6325.86	0.12	855.98	0.32	251.38
31.80	6282.81	0.13	855.98	0.31	249.14
31.90	6282.81	0.13	855.98	0.31	246.93
32.00	6282.81	0.12	855.98	0.31	244.72
32.10	6282.81	0.12	855.98	0.31	242.52
32.20	6282.81	0.12	855.98	0.31	240.35
32.30	6282.81	0.12	855.98	0.31	238.18
32.40	6282.81	0.12	855.98	0.31	236.03
32.50	6282.81	0.12	855.98	0.31	233.90
32.60	6282.81	0.12	855.98	0.30	231.76
32.70	6282.81	0.12	855.98	0.30	229.65
32.80	6282.81	0.12	855.98	0.30	227.54
32.90	6282.81	0.12	855.98	0.30	225.43
33.00	6240.21	0.12	855.98	0.30	223.33
33.10	6160.75	0.12	855.98	0.30	221.24
33.20	6141.39	0.12	855.98	0.30	219.17
33.30	6141.39	0.12	855.98	0.30	217.09
33.40	6141.39	0.12	855.97	0.30	215.04
33.50	6141.39	0.12	855.97	0.30	213.01
33.60	6141.39	0.12	855.97	0.30	211.01
33.70	6141.39	0.11	855.97	0.30	209.00
33.80	6141.39	0.11	855.97	0.30	207.01
33.90	6141.39	0.11	855.97	0.29	205.05
34.00	6141.39	0.11	855.97	0.29	203.11
34.10	6141.39	0.11	855.97	0.29	201.20
34.20	6141.39	0.11	855.97	0.29	199.28
34.30	6141.39	0.11	855.97	0.29	197.38
34.40	6141.39	0.11	855.97	0.29	195.49
34.50	6141.39	0.11	855.97	0.29	193.57
34.60	6141.39	0.11	855.97	0.29	191.75
34.70	6141.39	0.11	855.97	0.29	189.92
34.80	6106.22	0.11	855.97	0.29	188.11
34.90	5999.97	0.11	855.97	0.27	186.32
35.00	5999.97	0.11	855.97	0.27	184.55
35.10	5999.97	0.11	855.97	0.27	182.83
35.20	5999.97	0.11	855.97	0.27	181.12
35.30	5999.97	0.11	855.97	0.27	179.44
35.40	5999.97	0.11	855.97	0.27	177.77
35.50	5999.97	0.11	855.97	0.27	176.12
35.60	5999.97	0.11	855.97	0.27	174.51
35.70	5999.97	0.11	855.97	0.26	172.90
35.80	5999.97	0.11	855.97	0.26	171.32
35.90	5999.97	0.11	855.97	0.26	169.76
36.00	5999.97	0.11	855.97	0.26	168.22

36.10	5999.97	0.11	855.97	0.26	166.70
36.20	5999.97	0.11	855.96	0.26	165.21
36.30	5999.97	0.11	855.96	0.26	163.75
36.40	5999.97	0.11	855.96	0.26	162.30
36.50	5999.97	0.10	855.96	0.26	160.88
36.60	5999.97	0.10	855.96	0.26	159.48
36.70	5999.97	0.10	855.96	0.25	158.10
36.80	5999.97	0.10	855.96	0.25	156.74
36.90	5999.97	0.10	855.96	0.25	155.39
37.00	5999.97	0.10	855.96	0.25	154.05
37.10	5999.97	0.10	855.96	0.25	152.72
37.20	5999.97	0.10	855.96	0.25	151.42
37.30	5999.97	0.10	855.96	0.25	150.12
37.40	5999.97	0.10	855.96	0.25	148.85
37.50	5999.97	0.10	855.96	0.25	147.58
37.60	5999.97	0.10	855.96	0.25	146.32
37.70	5999.97	0.10	855.96	0.25	145.09
37.80	5999.97	0.10	855.96	0.25	143.86
37.90	5999.97	0.10	855.96	0.24	142.64
38.00	5999.97	0.10	855.96	0.24	141.44
38.10	5999.97	0.10	855.95	0.24	140.25
38.20	5999.97	0.10	855.95	0.24	139.06
38.30	5999.97	0.10	855.95	0.24	137.88
38.40	5999.97	0.09	855.95	0.24	136.72
38.50	5999.97	0.09	855.95	0.24	135.56
38.60	5999.97	0.09	855.95	0.24	134.40
38.70	5999.97	0.09	855.95	0.24	133.25
38.80	5999.97	0.09	855.95	0.24	132.11
38.90	5999.97	0.09	855.95	0.24	130.97
39.00	5999.97	0.09	855.95	0.24	129.84
39.10	5999.97	0.09	855.95	0.23	128.71
39.20	5999.97	0.09	855.95	0.23	127.60
39.30	5999.97	0.09	855.95	0.23	126.48
39.40	5999.97	0.09	855.95	0.23	125.38
39.50	5995.53	0.09	855.95	0.23	124.29
39.60	5941.39	0.09	855.95	0.23	123.19
39.70	5941.39	0.09	855.95	0.23	122.10
39.80	5941.39	0.09	855.95	0.23	121.03
39.90	5941.39	0.09	855.95	0.23	119.96
40.00	5941.39	0.09	855.95	0.23	118.90
40.10	5941.39	0.09	855.95	0.23	117.85
40.20	5941.39	0.09	855.94	0.23	116.81
40.30	5941.39	0.09	855.94	0.23	115.78
40.40	5941.39	0.09	855.94	0.23	114.74
40.50	5941.39	0.08	855.94	0.23	113.75
40.60	5941.39	0.08	855.94	0.22	112.75
40.70	5941.39	0.08	855.94	0.22	111.77
40.80	5941.39	0.08	855.94	0.22	110.80
40.90	5941.39	0.08	855.94	0.22	109.84
41.00	5941.39	0.08	855.94	0.22	108.89
41.10	5941.39	0.08	855.94	0.22	107.96
41.20	5941.39	0.08	855.94	0.22	107.03
41.30	5941.39	0.08	855.94	0.22	106.12
41.40	5941.39	0.08	855.94	0.22	105.22
41.50	5941.39	0.08	855.94	0.22	104.34
41.60	5941.39	0.08	855.94	0.22	103.46
41.70	5941.39	0.08	855.94	0.22	102.60
41.80	5941.39	0.08	855.94	0.22	101.75
41.90	5941.39	0.08	855.94	0.22	100.91
42.00	5941.39	0.08	855.94	0.21	100.07
42.10	5941.39	0.08	855.94	0.21	99.26
42.20	5941.39	0.08	855.94	0.21	98.45
42.30	5941.39	0.08	855.94	0.21	97.65
42.40	5941.39	0.08	855.94	0.21	96.86
42.50	5941.39	0.08	855.94	0.21	96.08
42.60	5941.39	0.08	855.93	0.21	95.32
42.70	5941.39	0.08	855.93	0.21	94.55
42.80	5941.39	0.08	855.93	0.21	93.80
42.90	5941.39	0.08	855.93	0.21	93.05
43.00	5941.39	0.07	855.93	0.21	92.32
43.10	5941.39	0.07	855.93	0.21	91.59
43.20	5941.39	0.07	855.93	0.21	90.87
43.30	5941.39	0.07	855.93	0.21	90.15
43.40	5941.39	0.07	855.93	0.20	89.45
43.50	5941.39	0.07	855.93	0.20	88.75
43.60	5941.39	0.07	855.93	0.20	88.06

43.70	5941.39	0.07	855.93	0.20	87.37
43.80	5941.39	0.07	855.93	0.20	86.69
43.90	5941.39	0.07	855.93	0.20	86.02
44.00	5941.39	0.07	855.93	0.20	85.35
44.10	5941.39	0.07	855.93	0.20	84.69
44.20	5941.39	0.07	855.93	0.20	84.04
44.30	5941.39	0.07	855.93	0.20	83.40
44.40	5941.39	0.07	855.93	0.20	82.75
44.50	5941.39	0.07	855.93	0.20	82.12
44.60	5941.39	0.07	855.93	0.20	81.49
44.70	5941.39	0.07	855.93	0.20	80.87
44.80	5941.39	0.07	855.93	0.20	80.25
44.90	5941.39	0.07	855.93	0.20	79.64
45.00	5941.39	0.07	855.93	0.20	79.04
45.10	5941.39	0.07	855.93	0.19	78.44
45.20	5941.39	0.07	855.93	0.19	77.85
45.30	5941.39	0.07	855.93	0.19	77.26
45.40	5941.39	0.07	855.93	0.19	76.68
45.50	5941.39	0.07	855.93	0.19	76.11
45.60	5941.39	0.07	855.92	0.19	75.53
45.70	5941.39	0.07	855.92	0.19	74.97
45.80	5941.39	0.07	855.92	0.19	74.41
45.90	5941.39	0.07	855.92	0.19	73.85
46.00	5941.39	0.07	855.92	0.19	73.31
46.10	5941.39	0.06	855.92	0.19	72.77
46.20	5941.39	0.06	855.92	0.19	72.23
46.30	5941.39	0.06	855.92	0.19	71.70
46.40	5941.39	0.06	855.92	0.19	71.18
46.50	5941.39	0.06	855.92	0.19	70.66
46.60	5941.39	0.06	855.92	0.19	70.15
46.70	5941.39	0.06	855.92	0.19	69.65
46.80	5941.39	0.06	855.92	0.18	69.14
46.90	5941.39	0.06	855.92	0.18	68.65
47.00	5941.39	0.06	855.92	0.18	68.16
47.10	5941.39	0.06	855.92	0.18	67.68
47.20	5941.39	0.06	855.92	0.18	67.19
47.30	5941.39	0.06	855.92	0.18	66.72
47.40	5941.39	0.06	855.92	0.18	66.25
47.50	5941.39	0.06	855.92	0.18	65.78
47.60	5941.39	0.06	855.92	0.18	65.32
47.70	5941.39	0.06	855.92	0.18	64.86
47.80	5941.39	0.06	855.92	0.18	64.41
47.90	5941.39	0.06	855.92	0.18	63.96
48.00	5941.39	0.06	855.92	0.18	63.52
48.10	5941.39	0.06	855.92	0.18	63.08
48.20	5941.39	0.06	855.92	0.18	62.64
48.30	5941.39	0.06	855.92	0.18	62.21
48.40	5941.39	0.06	855.92	0.18	61.78
48.50	5941.39	0.06	855.92	0.18	61.35
48.60	5941.39	0.06	855.92	0.18	60.93
48.70	5941.39	0.06	855.92	0.18	60.51
48.80	5941.39	0.06	855.92	0.17	60.10
48.90	5941.39	0.06	855.92	0.17	59.69
49.00	5941.39	0.06	855.92	0.17	59.28
49.10	5941.39	0.06	855.92	0.17	58.88
49.20	5941.39	0.06	855.92	0.17	58.48
49.30	5941.39	0.06	855.92	0.17	58.09
49.40	5941.39	0.06	855.91	0.17	57.69
49.50	5941.39	0.06	855.91	0.17	57.31
49.60	5941.39	0.06	855.91	0.17	56.92
49.70	5941.39	0.06	855.91	0.17	56.55
49.80	5941.39	0.06	855.91	0.17	56.17
49.90	5941.39	0.06	855.91	0.17	55.79
50.00	5941.39	0.06	855.91	0.17	55.43
50.10	5941.39	0.05	855.91	0.17	55.06
50.20	5941.39	0.05	855.91	0.17	54.70
50.30	5941.39	0.05	855.91	0.17	54.34
50.40	5941.39	0.05	855.91	0.17	53.99
50.50	5941.39	0.05	855.91	0.17	53.64
50.60	5941.39	0.05	855.91	0.17	53.29
50.70	5941.39	0.05	855.91	0.17	52.95
50.80	5941.39	0.05	855.91	0.17	52.61
50.90	5941.39	0.05	855.91	0.17	52.27
51.00	5941.39	0.05	855.91	0.16	51.94
51.10	5941.39	0.05	855.91	0.16	51.61
51.20	5941.39	0.05	855.91	0.16	51.28

51.30	5941.39	0.05	855.91	0.16	50.96
51.40	5941.39	0.05	855.91	0.16	50.64
51.50	5941.39	0.05	855.91	0.16	50.32
51.60	5941.39	0.05	855.91	0.16	50.01
51.70	5941.39	0.05	855.91	0.16	49.70
51.80	5941.39	0.05	855.91	0.16	49.39
51.90	5941.39	0.05	855.91	0.16	49.08
52.00	5941.39	0.05	855.91	0.16	48.78
52.10	5941.39	0.05	855.91	0.16	48.48
52.20	5941.39	0.05	855.91	0.16	48.18
52.30	5941.39	0.05	855.91	0.16	47.88
52.40	5941.39	0.05	855.91	0.16	47.59
52.50	5941.39	0.05	855.91	0.16	47.30
52.60	5941.39	0.05	855.91	0.16	47.01
52.70	5941.39	0.05	855.91	0.16	46.73
52.80	5941.39	0.05	855.91	0.16	46.45
52.90	5941.39	0.05	855.91	0.16	46.17
53.00	5941.39	0.05	855.91	0.16	45.89
53.10	5941.39	0.05	855.91	0.16	45.61
53.20	5941.39	0.05	855.91	0.16	45.34
53.30	5941.39	0.05	855.91	0.16	45.07
53.40	5941.39	0.05	855.91	0.16	44.80
53.50	5941.39	0.05	855.91	0.16	44.53
53.60	5941.39	0.05	855.91	0.15	44.27
53.70	5941.39	0.05	855.91	0.15	44.01
53.80	5941.39	0.05	855.91	0.15	43.75
53.90	5941.39	0.05	855.91	0.15	43.49
54.00	5941.39	0.05	855.91	0.15	43.23
54.10	5941.39	0.05	855.91	0.15	42.98
54.20	5941.39	0.05	855.91	0.15	42.73
54.30	5941.39	0.05	855.91	0.15	42.48
54.40	5941.39	0.05	855.91	0.15	42.24
54.50	5941.39	0.05	855.91	0.15	41.99
54.60	5941.39	0.05	855.90	0.15	41.75
54.70	5941.39	0.05	855.90	0.15	41.51
54.80	5941.39	0.05	855.90	0.15	41.27
54.90	5941.39	0.05	855.90	0.15	41.04
55.00	5941.39	0.05	855.90	0.15	40.80
55.10	5941.39	0.05	855.90	0.15	40.57
55.20	5941.39	0.05	855.90	0.15	40.34
55.30	5941.39	0.05	855.90	0.15	40.11
55.40	5941.39	0.05	855.90	0.15	39.88
55.50	5941.39	0.05	855.90	0.15	39.65
55.60	5941.39	0.04	855.90	0.15	39.43
55.70	5941.39	0.04	855.90	0.15	39.21
55.80	5928.37	0.04	855.90	0.15	38.99
55.90	5882.81	0.04	855.90	0.15	38.77
56.00	5882.81	0.04	855.90	0.15	38.55
56.10	5882.81	0.04	855.90	0.15	38.34
56.20	5882.81	0.04	855.90	0.15	38.12
56.30	5882.81	0.04	855.90	0.15	37.91
56.40	5882.81	0.04	855.90	0.15	37.70
56.50	5882.81	0.04	855.90	0.15	37.49
56.60	5882.81	0.04	855.90	0.15	37.29
56.70	5882.81	0.04	855.90	0.15	37.08
56.80	5882.81	0.04	855.90	0.15	36.88
56.90	5882.81	0.04	855.90	0.15	36.67
57.00	5882.81	0.04	855.90	0.14	36.47
57.10	5882.81	0.04	855.90	0.14	36.27
57.20	5882.81	0.04	855.90	0.14	36.08
57.30	5882.81	0.04	855.90	0.14	35.88
57.40	5882.81	0.04	855.90	0.14	35.68
57.50	5882.81	0.04	855.90	0.14	35.49
57.60	5882.81	0.04	855.90	0.14	35.30
57.70	5882.81	0.04	855.90	0.14	35.11
57.80	5882.81	0.04	855.90	0.14	34.92
57.90	5882.81	0.04	855.90	0.14	34.73
58.00	5882.81	0.04	855.90	0.14	34.54
58.10	5882.81	0.04	855.90	0.14	34.36
58.20	5882.81	0.04	855.90	0.14	34.17
58.30	5882.81	0.04	855.90	0.14	33.99
58.40	5882.81	0.04	855.90	0.14	33.81
58.50	5882.81	0.04	855.90	0.14	33.63
58.60	5882.81	0.04	855.90	0.14	33.45
58.70	5882.81	0.04	855.90	0.14	33.28
58.80	5882.81	0.04	855.90	0.14	33.10

58.90	5882.81	0.04	855.90	0.14	32.93
59.00	5882.81	0.04	855.90	0.14	32.76
59.10	5882.81	0.04	855.90	0.14	32.59
59.20	5882.81	0.04	855.90	0.14	32.42
59.30	5882.81	0.04	855.90	0.14	32.25
59.40	5882.81	0.04	855.90	0.14	32.08
59.50	5882.81	0.04	855.90	0.14	31.91
59.60	5882.81	0.04	855.90	0.14	31.75
59.70	5882.81	0.04	855.90	0.14	31.58
59.80	5882.81	0.04	855.90	0.14	31.42
59.90	5882.81	0.04	855.90	0.14	31.26
60.00	5882.81	0.04	855.90	0.14	31.10

THE MAXIMUM DISCHARGE FROM CROSS SECTION 4 IS: 1727.49 CFS AT TIME: 17.72 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 1718.67 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 4

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00

5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	0.00	0.00	0.00	0.00	0.00
7.80	0.00	0.00	0.00	0.00	0.00
7.90	0.00	0.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	0.00	0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	180.53	0.00	802.35	0.04	0.00
8.60	200.00	0.00	802.35	0.09	0.01
8.70	256.53	0.00	802.35	0.09	0.01
8.80	341.42	0.00	802.35	0.09	0.02
8.90	393.20	0.00	802.35	0.10	0.03
9.00	400.00	0.00	802.35	0.12	0.03
9.10	400.00	0.00	802.35	0.13	0.04
9.20	400.00	0.00	802.35	0.14	0.05
9.30	400.00	0.00	802.35	0.15	0.06
9.40	400.00	0.00	802.35	0.15	0.07
9.50	482.09	0.00	802.35	0.12	0.08
9.60	515.17	0.00	802.35	0.11	0.09
9.70	2567.08	0.00	802.35	0.03	0.14
9.80	4539.66	0.00	802.35	0.02	0.18
9.90	5647.78	0.00	802.35	0.02	0.24
10.00	6769.28	0.00	802.35	0.02	0.31
10.10	7452.87	0.00	802.35	0.02	0.39
10.20	7746.30	0.00	802.35	0.02	0.48
10.30	7843.57	0.00	802.35	0.02	0.56
10.40	7941.38	0.00	802.35	0.02	0.67
10.50	7941.38	0.00	802.35	0.03	0.78
10.60	7954.81	0.00	802.35	0.03	0.92
10.70	7999.96	0.00	802.35	0.03	1.08
10.80	7999.96	0.01	802.35	0.03	1.26
10.90	7999.96	0.01	802.35	0.03	1.48
11.00	7999.96	0.01	802.35	0.04	1.73
11.10	7999.96	0.01	802.35	0.04	2.02
11.20	7999.96	0.01	802.36	0.04	2.38
11.30	7999.96	0.01	802.36	0.04	2.80
11.40	7999.96	0.01	802.36	0.05	3.35
11.50	7999.96	0.01	802.36	0.05	3.98
11.60	7999.96	0.01	802.36	0.05	5.14
11.70	7999.96	0.01	802.36	0.06	7.02
11.80	7999.96	0.02	802.37	0.07	10.05
11.90	7999.96	0.03	802.37	0.09	19.39
12.00	7999.96	0.04	802.39	0.11	34.38
12.10	7999.96	0.05	802.39	0.13	50.11
12.20	7999.96	0.05	802.40	0.15	63.65
12.30	7999.96	0.06	802.41	0.16	78.17
12.40	7999.96	0.07	802.41	0.17	89.39
12.50	7999.96	0.07	802.42	0.18	100.72
12.60	7999.96	0.08	802.42	0.18	110.55
12.70	7999.96	0.08	802.43	0.19	118.53
12.80	7999.96	0.08	802.43	0.20	127.06

12.90	7999.96	0.08	802.43	0.20	135.84
13.00	7999.96	0.09	802.44	0.21	146.37
13.10	7999.96	0.09	802.44	0.22	161.70
13.20	7999.96	0.10	802.45	0.24	192.69
13.30	7999.96	0.11	802.46	0.28	246.18
13.40	7999.96	0.11	802.46	0.30	273.81
13.50	7999.96	0.12	802.46	0.30	279.95
13.60	7999.96	0.12	802.46	0.31	286.26
13.70	7999.96	0.12	802.47	0.31	290.65
13.80	7999.96	0.12	802.47	0.31	290.82
13.90	7999.96	0.12	802.47	0.31	289.49
14.00	7999.96	0.12	802.47	0.30	287.08
14.10	7999.96	0.12	802.47	0.30	283.98
14.20	7999.96	0.12	802.47	0.30	280.73
14.30	7999.96	0.12	802.46	0.30	277.98
14.40	7999.96	0.12	802.46	0.30	276.90
14.50	7999.96	0.12	802.47	0.30	282.83
14.60	7999.96	0.12	802.47	0.32	305.79
14.70	7999.96	0.12	802.47	0.34	328.57
14.80	7999.96	0.12	802.47	0.34	333.34
14.90	7999.96	0.12	802.47	0.34	333.74
15.00	7999.96	0.12	802.47	0.34	333.28
15.10	7999.96	0.12	802.47	0.34	331.44
15.20	7999.96	0.12	802.47	0.34	329.14
15.30	7999.96	0.12	802.47	0.34	326.13
15.40	7999.96	0.12	802.47	0.34	322.84
15.50	7999.96	0.12	802.47	0.33	319.45
15.60	7999.96	0.12	802.47	0.33	316.15
15.70	7999.96	0.12	802.47	0.33	313.15
15.80	7999.96	0.12	802.47	0.33	310.68
15.90	7999.96	0.12	802.47	0.33	308.76
16.00	7999.96	0.12	802.47	0.33	307.51
16.10	7999.96	0.12	802.47	0.33	306.95
16.20	7999.96	0.12	802.47	0.33	306.97
16.30	7999.96	0.12	802.47	0.33	307.60
16.40	7999.96	0.15	802.50	0.40	493.08
16.50	7999.96	0.18	802.53	0.62	883.31
16.60	7999.96	0.19	802.54	0.67	1031.09
16.70	7999.96	0.19	802.54	0.69	1075.49
16.80	7999.96	0.20	802.55	0.71	1135.96
16.90	7999.96	0.21	802.56	0.71	1193.55
17.00	7999.96	0.24	802.59	0.75	1434.37
17.10	7999.96	0.25	802.60	0.77	1551.94
17.20	7999.96	0.26	802.61	0.79	1657.09
17.30	7999.96	0.27	802.61	0.80	1702.86
17.40	7999.96	0.27	802.62	0.79	1701.62
17.50	7999.96	0.27	802.62	0.79	1709.81
17.60	7999.96	0.27	802.62	0.79	1716.05
17.70	7999.96	0.27	802.62	0.79	1717.63
17.80	7999.96	0.27	802.62	0.78	1723.68
17.90	7999.96	0.28	802.62	0.78	1714.19
18.00	7999.96	0.28	802.62	0.77	1705.70
18.10	7999.96	0.28	802.62	0.77	1699.50
18.20	7999.96	0.28	802.62	0.76	1681.49
18.30	7999.96	0.28	802.62	0.75	1662.22
18.40	7999.96	0.28	802.62	0.75	1650.07
18.50	7999.96	0.28	802.62	0.74	1635.23
18.60	7999.96	0.28	802.62	0.73	1619.21
18.70	7999.96	0.28	802.62	0.72	1604.10
18.80	7999.96	0.28	802.63	0.72	1590.66
18.90	7999.96	0.28	802.63	0.71	1580.59
19.00	7999.96	0.28	802.63	0.70	1575.77
19.10	7999.96	0.28	802.63	0.70	1582.70
19.20	7999.96	0.29	802.63	0.70	1592.92
19.30	7999.96	0.28	802.63	0.70	1584.50
19.40	7999.96	0.28	802.63	0.69	1567.98
19.50	7999.96	0.28	802.63	0.69	1551.77
19.60	7999.96	0.28	802.63	0.68	1535.36
19.70	7999.96	0.28	802.63	0.68	1517.94
19.80	7999.96	0.28	802.63	0.67	1499.35
19.90	7999.96	0.28	802.62	0.67	1480.04
20.00	7999.96	0.28	802.62	0.66	1460.43
20.10	7999.96	0.27	802.62	0.66	1440.90
20.20	7999.96	0.27	802.62	0.65	1424.07
20.30	7999.96	0.27	802.62	0.65	1404.69
20.40	7999.96	0.27	802.62	0.64	1388.41

20.50	7999.96	0.27	802.62	0.64	1373.42
20.60	7999.96	0.27	802.62	0.63	1358.02
20.70	7999.96	0.27	802.62	0.63	1342.46
20.80	7999.96	0.27	802.61	0.62	1326.32
20.90	7999.96	0.26	802.61	0.62	1309.99
21.00	7999.96	0.26	802.61	0.61	1293.67
21.10	7999.96	0.26	802.61	0.61	1277.98
21.20	7999.96	0.26	802.61	0.61	1262.33
21.30	7999.96	0.26	802.61	0.60	1245.84
21.40	7999.96	0.26	802.61	0.60	1228.28
21.50	7999.96	0.26	802.60	0.59	1210.88
21.60	7999.96	0.25	802.60	0.59	1194.81
21.70	7999.96	0.25	802.60	0.58	1179.67
21.80	7999.96	0.25	802.60	0.58	1164.57
21.90	7999.96	0.25	802.60	0.57	1149.38
22.00	7999.96	0.25	802.60	0.57	1134.46
22.10	7999.96	0.25	802.59	0.57	1120.23
22.20	7999.96	0.25	802.59	0.56	1107.10
22.30	7999.96	0.24	802.59	0.56	1094.89
22.40	7999.96	0.24	802.59	0.56	1083.18
22.50	7999.96	0.24	802.59	0.55	1071.96
22.60	7999.96	0.24	802.59	0.55	1061.04
22.70	7999.96	0.24	802.59	0.55	1050.04
22.80	7999.96	0.24	802.59	0.54	1038.87
22.90	7999.96	0.24	802.59	0.54	1027.36
23.00	7999.96	0.24	802.58	0.54	1015.51
23.10	7999.96	0.24	802.58	0.53	1003.54
23.20	7999.96	0.23	802.58	0.53	991.90
23.30	7999.96	0.23	802.58	0.53	980.91
23.40	7999.96	0.23	802.58	0.52	970.58
23.50	7999.96	0.23	802.58	0.52	960.54
23.60	7999.96	0.23	802.58	0.52	950.66
23.70	7999.96	0.23	802.58	0.51	941.04
23.80	7999.96	0.23	802.58	0.51	931.56
23.90	7999.96	0.23	802.57	0.51	922.19
24.00	7999.96	0.23	802.57	0.51	912.99
24.10	7999.96	0.22	802.57	0.50	902.80
24.20	7999.96	0.22	802.57	0.50	891.71
24.30	7999.96	0.22	802.57	0.50	881.01
24.40	7999.96	0.22	802.57	0.49	870.66
24.50	7999.96	0.22	802.57	0.49	860.57
24.60	7999.96	0.22	802.57	0.49	850.71
24.70	7999.96	0.22	802.56	0.49	840.87
24.80	7999.96	0.22	802.56	0.48	831.47
24.90	7999.96	0.21	802.56	0.48	822.30
25.00	7999.96	0.21	802.56	0.48	813.54
25.10	7999.96	0.21	802.56	0.47	804.67
25.20	7999.96	0.21	802.56	0.47	796.16
25.30	7999.96	0.21	802.56	0.47	788.22
25.40	7999.96	0.21	802.56	0.47	780.27
25.50	7999.96	0.21	802.56	0.46	772.39
25.60	7999.96	0.21	802.55	0.46	764.58
25.70	7999.96	0.21	802.55	0.46	756.74
25.80	7999.96	0.20	802.55	0.46	748.86
25.90	7999.96	0.20	802.55	0.46	740.93
26.00	7999.96	0.20	802.55	0.45	732.90
26.10	7999.96	0.20	802.55	0.45	724.82
26.20	7999.96	0.20	802.55	0.45	716.98
26.30	7999.96	0.20	802.55	0.45	709.45
26.40	7999.96	0.20	802.55	0.44	702.17
26.50	7999.96	0.20	802.54	0.44	695.12
26.60	7999.96	0.20	802.54	0.44	688.26
26.70	7999.96	0.20	802.54	0.44	681.63
26.80	7999.96	0.19	802.54	0.43	675.23
26.90	7999.96	0.19	802.54	0.43	669.03
27.00	7999.96	0.19	802.54	0.43	662.97
27.10	7999.96	0.19	802.54	0.43	657.03
27.20	7999.96	0.19	802.54	0.43	651.24
27.30	7999.96	0.19	802.54	0.42	645.56
27.40	7999.96	0.19	802.54	0.42	639.97
27.50	7999.96	0.19	802.54	0.42	634.43
27.60	7999.96	0.19	802.54	0.42	628.91
27.70	7999.96	0.19	802.53	0.42	623.41
27.80	7999.96	0.19	802.53	0.42	617.90
27.90	7999.96	0.18	802.53	0.41	612.42
28.00	7999.96	0.18	802.53	0.41	607.02

28.10	7974.29	0.18	802.53	0.41	601.68
28.20	7941.38	0.18	802.53	0.41	596.41
28.30	7899.25	0.18	802.53	0.41	591.24
28.40	7882.80	0.18	802.53	0.41	586.16
28.50	7882.80	0.18	802.53	0.41	581.00
28.60	7882.80	0.18	802.53	0.41	576.05
28.70	7882.80	0.18	802.53	0.41	571.08
28.80	7882.80	0.18	802.53	0.40	566.18
28.90	7882.80	0.18	802.52	0.40	561.35
29.00	7882.80	0.18	802.52	0.40	556.55
29.10	7882.80	0.18	802.52	0.40	551.80
29.20	7882.80	0.17	802.52	0.40	547.11
29.30	7882.80	0.17	802.52	0.40	542.44
29.40	7882.80	0.17	802.52	0.39	537.80
29.50	7882.80	0.17	802.52	0.39	533.18
29.60	7882.80	0.17	802.52	0.39	528.58
29.70	7882.80	0.17	802.52	0.39	524.01
29.80	7818.67	0.17	802.52	0.39	519.46
29.90	7741.38	0.17	802.52	0.38	514.93
30.00	7741.38	0.17	802.52	0.38	510.46
30.10	7741.38	0.17	802.52	0.38	505.93
30.20	7741.38	0.17	802.52	0.38	501.58
30.30	7741.38	0.17	802.52	0.38	497.22
30.40	7741.38	0.17	802.52	0.38	492.87
30.50	7741.38	0.17	802.52	0.37	488.51
30.60	7741.38	0.17	802.52	0.37	484.18
30.70	7741.38	0.17	802.51	0.37	479.86
30.80	7741.38	0.17	802.51	0.37	475.53
30.90	7741.38	0.17	802.51	0.37	471.20
31.00	7741.38	0.16	802.51	0.37	466.89
31.10	7741.38	0.16	802.51	0.36	462.63
31.20	7741.38	0.16	802.51	0.36	458.43
31.30	7741.38	0.16	802.51	0.36	454.27
31.40	7741.38	0.16	802.51	0.36	450.17
31.50	7741.38	0.16	802.51	0.36	446.10
31.60	7741.38	0.16	802.51	0.36	442.08
31.70	7741.38	0.16	802.51	0.35	438.06
31.80	7741.38	0.16	802.51	0.35	434.05
31.90	7741.38	0.16	802.51	0.35	430.07
32.00	7741.38	0.16	802.50	0.35	426.09
32.10	7741.38	0.16	802.50	0.35	422.13
32.20	7741.38	0.16	802.50	0.35	418.22
32.30	7741.38	0.15	802.50	0.35	414.31
32.40	7741.38	0.15	802.50	0.34	410.46
32.50	7741.38	0.15	802.50	0.34	406.65
32.60	7741.38	0.15	802.50	0.34	402.85
32.70	7741.38	0.15	802.50	0.34	399.09
32.80	7741.38	0.15	802.50	0.34	395.40
32.90	7741.38	0.15	802.50	0.34	391.75
33.00	7741.38	0.15	802.50	0.34	388.18
33.10	7741.38	0.15	802.50	0.33	384.69
33.20	7741.38	0.15	802.50	0.33	381.24
33.30	7741.38	0.15	802.50	0.33	377.85
33.40	7741.38	0.15	802.49	0.33	374.50
33.50	7741.38	0.15	802.49	0.33	371.21
33.60	7741.38	0.15	802.49	0.33	367.97
33.70	7741.38	0.14	802.49	0.33	364.76
33.80	7741.38	0.14	802.49	0.32	361.58
33.90	7741.38	0.14	802.49	0.32	358.43
34.00	7741.38	0.14	802.49	0.32	355.31
34.10	7741.38	0.14	802.49	0.32	352.21
34.20	7741.38	0.14	802.49	0.32	349.11
34.30	7741.38	0.14	802.49	0.32	346.03
34.40	7741.38	0.14	802.49	0.32	342.95
34.50	7741.38	0.14	802.49	0.32	339.81
34.60	7741.38	0.14	802.49	0.31	336.81
34.70	7741.38	0.14	802.49	0.31	333.77
34.80	7741.38	0.14	802.48	0.31	330.76
34.90	7741.38	0.14	802.48	0.31	327.77
35.00	7741.38	0.14	802.48	0.31	324.78
35.10	7741.38	0.14	802.48	0.31	321.84
35.20	7741.38	0.13	802.48	0.31	318.92
35.30	7741.38	0.13	802.48	0.31	315.99
35.40	7741.38	0.13	802.48	0.30	313.07
35.50	7741.38	0.13	802.48	0.30	310.14
35.60	7741.38	0.13	802.48	0.30	307.25

35.70	7741.38	0.13	802.48	0.30	304.37
35.80	7741.38	0.13	802.48	0.30	301.51
35.90	7741.38	0.13	802.48	0.30	298.68
36.00	7741.38	0.13	802.48	0.30	295.86
36.10	7741.38	0.13	802.48	0.30	293.08
36.20	7741.38	0.13	802.48	0.29	290.32
36.30	7741.38	0.13	802.47	0.29	287.59
36.40	7741.38	0.13	802.47	0.29	284.87
36.50	7741.38	0.13	802.47	0.29	282.17
36.60	7741.38	0.12	802.47	0.29	279.51
36.70	7741.38	0.12	802.47	0.29	276.88
36.80	7741.38	0.12	802.47	0.29	274.28
36.90	7741.38	0.12	802.47	0.29	271.68
37.00	7741.38	0.12	802.47	0.28	269.10
37.10	7741.38	0.12	802.47	0.28	266.56
37.20	7741.38	0.12	802.47	0.28	264.08
37.30	7741.38	0.12	802.47	0.28	261.61
37.40	7741.38	0.12	802.47	0.28	259.18
37.50	7741.38	0.12	802.47	0.28	256.78
37.60	7741.38	0.12	802.47	0.28	254.41
37.70	7741.38	0.12	802.47	0.28	252.10
37.80	7741.38	0.12	802.46	0.28	249.81
37.90	7741.38	0.12	802.46	0.27	247.54
38.00	7741.38	0.12	802.46	0.27	245.32
38.10	7741.38	0.12	802.46	0.27	243.11
38.20	7741.38	0.11	802.46	0.27	240.92
38.30	7741.38	0.11	802.46	0.27	238.77
38.40	7741.38	0.11	802.46	0.27	236.65
38.50	7741.38	0.11	802.46	0.27	234.56
38.60	7741.38	0.11	802.46	0.27	232.49
38.70	7741.38	0.11	802.46	0.27	230.44
38.80	7741.38	0.11	802.46	0.26	228.43
38.90	7741.38	0.11	802.46	0.26	226.43
39.00	7741.38	0.11	802.46	0.26	224.46
39.10	7741.38	0.11	802.46	0.26	222.51
39.20	7741.38	0.11	802.46	0.26	220.58
39.30	7741.38	0.11	802.46	0.26	218.67
39.40	7741.38	0.11	802.46	0.26	216.78
39.50	7741.38	0.11	802.46	0.26	214.93
39.60	7741.38	0.11	802.45	0.26	213.08
39.70	7741.38	0.11	802.45	0.26	211.25
39.80	7741.38	0.11	802.45	0.26	209.45
39.90	7741.38	0.11	802.45	0.25	207.67
40.00	7741.38	0.10	802.45	0.25	205.91
40.10	7741.38	0.10	802.45	0.25	204.17
40.20	7741.38	0.10	802.45	0.25	202.45
40.30	7741.38	0.10	802.45	0.25	200.74
40.40	7741.38	0.10	802.45	0.25	199.01
40.50	7741.38	0.10	802.45	0.25	197.37
40.60	7741.38	0.10	802.45	0.25	195.70
40.70	7741.38	0.10	802.45	0.25	194.06
40.80	7741.38	0.10	802.45	0.25	192.44
40.90	7741.38	0.10	802.45	0.25	190.83
41.00	7741.38	0.10	802.45	0.24	189.24
41.10	7741.38	0.10	802.45	0.24	187.67
41.20	7741.38	0.10	802.45	0.24	186.10
41.30	7741.38	0.10	802.45	0.24	184.55
41.40	7741.38	0.10	802.45	0.24	183.03
41.50	7741.38	0.10	802.45	0.24	181.52
41.60	7741.38	0.10	802.44	0.24	180.04
41.70	7741.38	0.10	802.44	0.24	178.56
41.80	7741.38	0.10	802.44	0.24	177.11
41.90	7741.38	0.10	802.44	0.24	175.66
42.00	7741.38	0.10	802.44	0.24	174.22
42.10	7741.38	0.09	802.44	0.24	172.81
42.20	7741.38	0.09	802.44	0.23	171.41
42.30	7741.38	0.09	802.44	0.23	170.02
42.40	7741.38	0.09	802.44	0.23	168.63
42.50	7741.38	0.09	802.44	0.23	167.25
42.60	7741.38	0.09	802.44	0.23	165.89
42.70	7741.38	0.09	802.44	0.23	164.53
42.80	7741.38	0.09	802.44	0.23	163.19
42.90	7741.38	0.09	802.44	0.23	161.86
43.00	7741.38	0.09	802.44	0.23	160.56
43.10	7741.38	0.09	802.44	0.23	159.26
43.20	7741.38	0.09	802.44	0.23	157.97

43.30	7741.38	0.09	802.44	0.23	156.71
43.40	7741.38	0.09	802.44	0.23	155.47
43.50	7741.38	0.09	802.44	0.22	154.23
43.60	7741.38	0.09	802.44	0.22	153.01
43.70	7741.38	0.09	802.44	0.22	151.81
43.80	7741.38	0.09	802.44	0.22	150.62
43.90	7741.38	0.09	802.43	0.22	149.45
44.00	7741.38	0.09	802.43	0.22	148.28
44.10	7741.38	0.09	802.43	0.22	147.12
44.20	7741.38	0.09	802.43	0.22	145.97
44.30	7741.38	0.09	802.43	0.22	144.83
44.40	7741.38	0.08	802.43	0.22	143.71
44.50	7741.38	0.08	802.43	0.22	142.59
44.60	7741.38	0.08	802.43	0.22	141.49
44.70	7741.38	0.08	802.43	0.22	140.40
44.80	7741.38	0.08	802.43	0.22	139.32
44.90	7741.38	0.08	802.43	0.22	138.25
45.00	7741.38	0.08	802.43	0.21	137.20
45.10	7741.38	0.08	802.43	0.21	136.16
45.20	7741.38	0.08	802.43	0.21	135.13
45.30	7741.38	0.08	802.43	0.21	134.12
45.40	7741.38	0.08	802.43	0.21	133.11
45.50	7741.38	0.08	802.43	0.21	132.12
45.60	7741.38	0.08	802.43	0.21	131.13
45.70	7741.38	0.08	802.43	0.21	130.16
45.80	7741.38	0.08	802.43	0.21	129.19
45.90	7741.38	0.08	802.43	0.21	128.24
46.00	7741.38	0.08	802.43	0.21	127.31
46.10	7741.38	0.08	802.43	0.21	126.37
46.20	7741.38	0.08	802.43	0.21	125.45
46.30	7741.38	0.08	802.43	0.21	124.55
46.40	7741.38	0.08	802.43	0.21	123.65
46.50	7741.38	0.08	802.43	0.21	122.77
46.60	7741.38	0.08	802.42	0.20	121.90
46.70	7741.38	0.08	802.42	0.20	121.03
46.80	7741.38	0.08	802.42	0.20	120.17
46.90	7741.38	0.08	802.42	0.20	119.33
47.00	7741.38	0.08	802.42	0.20	118.49
47.10	7741.38	0.08	802.42	0.20	117.66
47.20	7741.38	0.08	802.42	0.20	116.83
47.30	7741.38	0.07	802.42	0.20	116.02
47.40	7741.38	0.07	802.42	0.20	115.21
47.50	7741.38	0.07	802.42	0.20	114.41
47.60	7741.38	0.07	802.42	0.20	113.61
47.70	7741.38	0.07	802.42	0.20	112.82
47.80	7741.38	0.07	802.42	0.20	112.05
47.90	7741.38	0.07	802.42	0.20	111.27
48.00	7741.38	0.07	802.42	0.20	110.50
48.10	7741.38	0.07	802.42	0.20	109.74
48.20	7741.38	0.07	802.42	0.20	108.99
48.30	7741.38	0.07	802.42	0.20	108.24
48.40	7741.38	0.07	802.42	0.19	107.51
48.50	7741.38	0.07	802.42	0.19	106.77
48.60	7741.38	0.07	802.42	0.19	106.04
48.70	7741.38	0.07	802.42	0.19	105.32
48.80	7741.38	0.07	802.42	0.19	104.61
48.90	7741.38	0.07	802.42	0.19	103.90
49.00	7741.38	0.07	802.42	0.19	103.20
49.10	7741.38	0.07	802.42	0.19	102.50
49.20	7741.38	0.07	802.42	0.19	101.81
49.30	7741.38	0.07	802.42	0.19	101.13
49.40	7741.38	0.07	802.42	0.19	100.45
49.50	7741.38	0.07	802.42	0.19	99.78
49.60	7741.38	0.07	802.42	0.19	99.11
49.70	7741.38	0.07	802.42	0.19	98.46
49.80	7741.38	0.07	802.42	0.19	97.81
49.90	7741.38	0.07	802.41	0.19	97.16
50.00	7741.38	0.07	802.41	0.19	96.52
50.10	7741.38	0.07	802.41	0.19	95.89
50.20	7741.38	0.07	802.41	0.19	95.26
50.30	7741.38	0.07	802.41	0.18	94.64
50.40	7741.38	0.07	802.41	0.18	94.02
50.50	7741.38	0.07	802.41	0.18	93.42
50.60	7741.38	0.07	802.41	0.18	92.82
50.70	7741.38	0.07	802.41	0.18	92.22
50.80	7741.38	0.06	802.41	0.18	91.63

50.90	7741.38	0.06	802.41	0.18	91.04
51.00	7741.38	0.06	802.41	0.18	90.46
51.10	7741.38	0.06	802.41	0.18	89.89
51.20	7741.38	0.06	802.41	0.18	89.32
51.30	7741.38	0.06	802.41	0.18	88.75
51.40	7741.38	0.06	802.41	0.18	88.19
51.50	7741.38	0.06	802.41	0.18	87.64
51.60	7741.38	0.06	802.41	0.18	87.09
51.70	7741.38	0.06	802.41	0.18	86.55
51.80	7741.38	0.06	802.41	0.18	86.01
51.90	7741.38	0.06	802.41	0.18	85.48
52.00	7741.38	0.06	802.41	0.18	84.95
52.10	7741.38	0.06	802.41	0.18	84.43
52.20	7741.38	0.06	802.41	0.18	83.91
52.30	7741.38	0.06	802.41	0.18	83.39
52.40	7741.38	0.06	802.41	0.18	82.88
52.50	7741.38	0.06	802.41	0.17	82.38
52.60	7741.38	0.06	802.41	0.17	81.88
52.70	7741.38	0.06	802.41	0.17	81.38
52.80	7741.38	0.06	802.41	0.17	80.89
52.90	7741.38	0.06	802.41	0.17	80.40
53.00	7741.38	0.06	802.41	0.17	79.91
53.10	7741.38	0.06	802.41	0.17	79.43
53.20	7741.38	0.06	802.41	0.17	78.96
53.30	7741.38	0.06	802.41	0.17	78.49
53.40	7741.38	0.06	802.41	0.17	78.02
53.50	7741.38	0.06	802.41	0.17	77.56
53.60	7741.38	0.06	802.41	0.17	77.10
53.70	7741.38	0.06	802.41	0.17	76.64
53.80	7741.38	0.06	802.41	0.17	76.19
53.90	7741.38	0.06	802.41	0.17	75.74
54.00	7741.38	0.06	802.41	0.17	75.29
54.10	7741.38	0.06	802.41	0.17	74.85
54.20	7741.38	0.06	802.40	0.17	74.41
54.30	7741.38	0.06	802.40	0.17	73.98
54.40	7741.38	0.06	802.40	0.17	73.56
54.50	7741.38	0.06	802.40	0.17	73.13
54.60	7741.38	0.06	802.40	0.17	72.71
54.70	7724.34	0.06	802.40	0.17	72.29
54.80	7682.80	0.06	802.40	0.17	71.87
54.90	7682.80	0.06	802.40	0.17	71.46
55.00	7682.80	0.06	802.40	0.17	71.05
55.10	7682.80	0.06	802.40	0.17	70.64
55.20	7682.80	0.06	802.40	0.17	70.24
55.30	7682.80	0.06	802.40	0.16	69.85
55.40	7682.80	0.05	802.40	0.16	69.45
55.50	7682.80	0.05	802.40	0.16	69.06
55.60	7682.80	0.05	802.40	0.16	68.67
55.70	7682.80	0.05	802.40	0.16	68.28
55.80	7682.80	0.05	802.40	0.16	67.90
55.90	7682.80	0.05	802.40	0.16	67.52
56.00	7682.80	0.05	802.40	0.16	67.14
56.10	7682.80	0.05	802.40	0.16	66.77
56.20	7682.80	0.05	802.40	0.16	66.40
56.30	7682.80	0.05	802.40	0.16	66.02
56.40	7682.80	0.05	802.40	0.16	65.66
56.50	7682.80	0.05	802.40	0.16	65.29
56.60	7682.80	0.05	802.40	0.16	64.93
56.70	7682.80	0.05	802.40	0.16	64.57
56.80	7682.80	0.05	802.40	0.16	64.22
56.90	7682.80	0.05	802.40	0.16	63.87
57.00	7682.80	0.05	802.40	0.16	63.52
57.10	7682.80	0.05	802.40	0.16	63.17
57.20	7682.80	0.05	802.40	0.16	62.83
57.30	7682.80	0.05	802.40	0.16	62.48
57.40	7682.80	0.05	802.40	0.16	62.14
57.50	7682.80	0.05	802.40	0.16	61.80
57.60	7682.80	0.05	802.40	0.16	61.47
57.70	7682.80	0.05	802.40	0.16	61.14
57.80	7682.80	0.05	802.40	0.16	60.81
57.90	7682.80	0.05	802.40	0.16	60.48
58.00	7682.80	0.05	802.40	0.16	60.16
58.10	7682.80	0.05	802.40	0.16	59.83
58.20	7682.80	0.05	802.40	0.15	59.51
58.30	7682.80	0.05	802.40	0.15	59.20
58.40	7682.80	0.05	802.40	0.15	58.88

58.50	7682.80	0.05	802.40	0.15	58.57
58.60	7682.80	0.05	802.40	0.15	58.26
58.70	7682.80	0.05	802.40	0.15	57.95
58.80	7682.80	0.05	802.40	0.15	57.65
58.90	7682.80	0.05	802.40	0.15	57.35
59.00	7682.80	0.05	802.40	0.15	57.04
59.10	7682.80	0.05	802.40	0.15	56.75
59.20	7682.80	0.05	802.40	0.15	56.45
59.30	7682.80	0.05	802.40	0.15	56.16
59.40	7682.80	0.05	802.40	0.15	55.87
59.50	7682.80	0.05	802.40	0.15	55.58
59.60	7682.80	0.05	802.40	0.15	55.29
59.70	7682.80	0.05	802.40	0.15	55.00
59.80	7682.80	0.05	802.40	0.15	54.72
59.90	7682.80	0.05	802.40	0.15	54.44
60.00	7682.80	0.05	802.40	0.15	54.16

THE MAXIMUM DISCHARGE FROM CROSS SECTION 5 IS: 674.27 CFS AT TIME: 18.44 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 772.54 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 5

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00

4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	781.55	0.00	0.00
7.00	47.66	0.00	781.55	0.00	0.00
7.10	175.73	0.00	781.55	0.06	0.00
7.20	185.65	0.00	781.55	0.08	0.01
7.30	313.62	0.00	781.55	0.06	0.01
7.40	317.16	0.00	781.55	0.07	0.01
7.50	317.16	0.00	781.55	0.08	0.02
7.60	317.16	0.00	781.55	0.10	0.02
7.70	399.28	0.00	781.55	0.09	0.03
7.80	436.02	0.00	781.55	0.09	0.04
7.90	482.84	0.00	781.55	0.09	0.04
8.00	482.84	0.00	781.55	0.10	0.05
8.10	482.84	0.00	781.55	0.10	0.05
8.20	482.84	0.00	781.55	0.11	0.06
8.30	482.84	0.00	781.55	0.11	0.07
8.40	506.69	0.00	781.55	0.11	0.08
8.50	541.42	0.00	781.55	0.11	0.09
8.60	541.42	0.00	781.55	0.12	0.10
8.70	541.42	0.00	781.55	0.12	0.11
8.80	541.42	0.00	781.55	0.13	0.12
8.90	556.59	0.00	781.55	0.13	0.14
9.00	600.00	0.00	781.55	0.12	0.15
9.10	600.00	0.00	781.55	0.13	0.16
9.20	600.00	0.00	781.55	0.13	0.18
9.30	600.00	0.00	781.55	0.13	0.20
9.40	600.00	0.00	781.55	0.14	0.21
9.50	600.00	0.00	781.55	0.14	0.23
9.60	600.00	0.00	781.56	0.14	0.25
9.70	600.00	0.00	781.56	0.15	0.27
9.80	600.00	0.00	781.56	0.15	0.29
9.90	600.00	0.00	781.56	0.15	0.31
10.00	600.00	0.00	781.56	0.15	0.33
10.10	600.00	0.00	781.56	0.16	0.36
10.20	641.38	0.00	781.56	0.15	0.38
10.30	658.57	0.00	781.56	0.14	0.41
10.40	658.57	0.00	781.56	0.14	0.44
10.50	658.57	0.00	781.56	0.14	0.47
10.60	658.57	0.01	781.56	0.15	0.51
10.70	762.17	0.01	781.56	0.13	0.55
10.80	974.20	0.01	781.56	0.10	0.59
10.90	1164.60	0.01	781.56	0.09	0.65
11.00	1425.51	0.01	781.56	0.07	0.71
11.10	1544.33	0.01	781.56	0.07	0.78
11.20	1565.68	0.01	781.56	0.07	0.86
11.30	1604.55	0.01	781.56	0.07	0.95
11.40	1624.26	0.01	781.56	0.07	1.08
11.50	1624.26	0.01	781.56	0.07	1.22
11.60	1681.73	0.01	781.56	0.07	1.48
11.70	1721.52	0.01	781.57	0.08	1.95
11.80	1741.41	0.02	781.57	0.08	2.67
11.90	1754.67	0.03	781.58	0.11	5.02
12.00	1799.99	0.04	781.59	0.13	8.81
12.10	1799.99	0.05	781.60	0.14	12.14
12.20	1799.99	0.05	781.61	0.14	13.80
12.30	1799.99	0.06	781.61	0.14	15.00
12.40	1799.99	0.06	781.61	0.14	15.15

12.50	1799.99	0.06	781.62	0.13	15.19
12.60	1799.99	0.06	781.62	0.13	15.03
12.70	1799.99	0.06	781.62	0.13	14.62
12.80	1799.99	0.06	781.62	0.12	14.42
12.90	1799.99	0.06	781.62	0.12	14.29
13.00	1799.99	0.06	781.62	0.12	14.30
13.10	1799.99	0.06	781.62	0.12	14.40
13.20	1799.99	0.07	781.62	0.12	14.67
13.30	1799.99	0.07	781.62	0.13	15.51
13.40	1799.99	0.07	781.63	0.14	19.11
13.50	1799.99	0.09	781.65	0.20	33.87
13.60	1799.99	0.11	781.66	0.34	64.02
13.70	1799.99	0.10	781.65	0.42	76.18
13.80	1799.99	0.10	781.65	0.38	66.06
13.90	1799.99	0.10	781.65	0.38	67.97
14.00	1799.99	0.10	781.65	0.39	69.79
14.10	1799.99	0.10	781.65	0.38	68.36
14.20	1799.99	0.10	781.65	0.36	65.78
14.30	1799.99	0.10	781.65	0.36	66.15
14.40	1799.99	0.10	781.65	0.35	65.37
14.50	1799.99	0.10	781.66	0.35	64.31
14.60	1799.99	0.10	781.66	0.34	63.25
14.70	1799.99	0.10	781.66	0.34	62.25
14.80	1799.99	0.10	781.66	0.33	61.34
14.90	1799.99	0.10	781.66	0.33	60.53
15.00	1799.99	0.10	781.66	0.32	59.87
15.10	1799.99	0.10	781.66	0.32	59.42
15.20	1799.99	0.10	781.66	0.32	59.26
15.30	1799.99	0.10	781.66	0.32	59.57
15.40	1799.99	0.10	781.66	0.33	60.63
15.50	1799.99	0.10	781.66	0.34	63.05
15.60	1799.99	0.11	781.66	0.36	68.88
15.70	1799.99	0.11	781.66	0.39	73.68
15.80	1799.99	0.11	781.66	0.40	76.91
15.90	1799.99	0.10	781.66	0.43	80.52
16.00	1799.99	0.11	781.66	0.43	81.44
16.10	1799.99	0.11	781.66	0.44	83.12
16.20	1799.99	0.11	781.66	0.44	84.73
16.30	1799.99	0.11	781.66	0.44	86.04
16.40	1799.99	0.11	781.66	0.44	87.06
16.50	1799.99	0.11	781.66	0.45	87.87
16.60	1799.99	0.11	781.66	0.45	88.54
16.70	1799.99	0.11	781.66	0.45	89.61
16.80	1799.99	0.12	781.67	0.49	103.44
16.90	1796.13	0.14	781.70	0.62	161.64
17.00	1798.70	0.18	781.73	0.87	285.41
17.10	1799.99	0.20	781.76	1.02	371.86
17.20	1799.99	0.22	781.77	1.06	415.85
17.30	1799.99	0.23	781.78	1.10	460.42
17.40	1799.99	0.24	781.80	1.12	491.78
17.50	1799.99	0.25	781.80	1.12	507.81
17.60	1799.99	0.26	781.81	1.12	524.83
17.70	1799.99	0.27	781.82	1.14	555.36
17.80	1799.99	0.29	781.84	1.15	590.54
17.90	1799.99	0.30	781.85	1.15	615.67
18.00	1799.99	0.30	781.86	1.15	627.89
18.10	1799.99	0.31	781.86	1.14	637.41
18.20	1799.99	0.32	781.87	1.14	647.23
18.30	1799.99	0.32	781.87	1.15	659.99
18.40	1799.99	0.32	781.87	1.16	671.41
18.50	1799.99	0.32	781.87	1.16	674.07
18.60	1799.99	0.32	781.88	1.16	672.25
18.70	1799.99	0.32	781.88	1.15	667.80
18.80	1799.99	0.32	781.88	1.14	663.09
18.90	1799.99	0.32	781.87	1.13	657.42
19.00	1799.99	0.32	781.87	1.13	652.76
19.10	1799.99	0.32	781.87	1.12	648.51
19.20	1799.99	0.32	781.87	1.11	645.07
19.30	1799.99	0.32	781.88	1.10	643.22
19.40	1799.99	0.33	781.88	1.09	644.22
19.50	1799.99	0.33	781.88	1.08	648.33
19.60	1799.99	0.34	781.89	1.08	653.61
19.70	1799.99	0.34	781.89	1.08	654.82
19.80	1799.99	0.34	781.89	1.07	651.83
19.90	1799.99	0.34	781.89	1.07	647.39
20.00	1799.99	0.33	781.89	1.07	642.42

20.10	1799.99	0.33	781.89	1.06	637.82
20.20	1799.99	0.33	781.88	1.06	633.70
20.30	1799.99	0.33	781.88	1.06	628.98
20.40	1799.99	0.33	781.88	1.05	623.90
20.50	1799.99	0.33	781.88	1.05	619.08
20.60	1799.99	0.33	781.88	1.04	615.14
20.70	1799.99	0.33	781.88	1.04	611.86
20.80	1799.99	0.33	781.88	1.04	609.32
20.90	1799.99	0.32	781.88	1.04	607.32
21.00	1799.99	0.32	781.88	1.04	605.25
21.10	1799.99	0.32	781.88	1.04	602.80
21.20	1799.99	0.32	781.87	1.03	599.92
21.30	1799.99	0.32	781.87	1.03	596.99
21.40	1799.99	0.32	781.87	1.03	593.28
21.50	1799.99	0.32	781.87	1.03	588.89
21.60	1799.99	0.32	781.87	1.02	584.03
21.70	1799.99	0.32	781.87	1.02	579.13
21.80	1799.99	0.32	781.87	1.01	575.07
21.90	1799.99	0.31	781.87	1.01	570.98
22.00	1799.99	0.31	781.86	1.01	566.40
22.10	1799.99	0.31	781.86	1.00	561.30
22.20	1799.99	0.31	781.86	1.00	557.20
22.30	1799.99	0.31	781.86	0.99	553.50
22.40	1799.99	0.31	781.86	0.99	549.32
22.50	1799.99	0.31	781.86	0.99	544.59
22.60	1799.99	0.31	781.86	0.98	539.65
22.70	1799.99	0.30	781.86	0.98	534.25
22.80	1799.99	0.30	781.85	0.97	528.27
22.90	1799.99	0.30	781.85	0.97	522.80
23.00	1799.99	0.30	781.85	0.96	517.88
23.10	1799.99	0.30	781.85	0.96	512.98
23.20	1799.99	0.30	781.85	0.95	507.82
23.30	1799.99	0.30	781.85	0.94	502.58
23.40	1799.99	0.29	781.85	0.94	497.42
23.50	1799.99	0.29	781.85	0.93	492.78
23.60	1799.99	0.29	781.84	0.93	488.18
23.70	1799.99	0.29	781.84	0.92	483.58
23.80	1799.99	0.29	781.84	0.92	478.79
23.90	1799.99	0.29	781.84	0.91	474.09
24.00	1799.99	0.29	781.84	0.91	469.61
24.10	1799.99	0.29	781.84	0.90	464.89
24.20	1799.99	0.28	781.84	0.90	459.87
24.30	1799.99	0.28	781.83	0.89	454.98
24.40	1795.12	0.28	781.83	0.89	450.36
24.50	1717.15	0.28	781.83	0.93	445.55
24.60	1717.15	0.28	781.83	0.92	440.92
24.70	1717.15	0.28	781.83	0.92	436.36
24.80	1717.15	0.27	781.83	0.91	431.36
24.90	1717.15	0.27	781.83	0.91	425.91
25.00	1717.15	0.27	781.82	0.90	420.99
25.10	1717.15	0.27	781.82	0.90	416.84
25.20	1717.15	0.27	781.82	0.89	412.77
25.30	1717.15	0.27	781.82	0.89	408.47
25.40	1684.80	0.27	781.82	0.90	404.01
25.50	1673.66	0.26	781.82	0.90	399.49
25.60	1672.56	0.26	781.81	0.90	394.36
25.70	1670.99	0.26	781.81	0.89	389.13
25.80	1670.99	0.26	781.81	0.89	385.43
25.90	1670.28	0.26	781.81	0.88	381.11
26.00	1669.22	0.26	781.81	0.88	376.80
26.10	1668.33	0.26	781.81	0.88	372.59
26.20	1668.48	0.25	781.81	0.87	368.98
26.30	1666.68	0.25	781.80	0.87	365.24
26.40	1666.68	0.25	781.80	0.87	361.36
26.50	1666.68	0.25	781.80	0.86	357.55
26.60	1663.01	0.25	781.80	0.86	353.68
26.70	1658.57	0.25	781.80	0.86	350.79
26.80	1658.57	0.24	781.80	0.86	347.83
26.90	1658.57	0.24	781.80	0.85	344.12
27.00	1658.57	0.24	781.79	0.85	340.80
27.10	1658.57	0.24	781.79	0.85	337.24
27.20	1658.57	0.24	781.79	0.84	333.51
27.30	1658.57	0.24	781.79	0.84	329.55
27.40	1658.57	0.24	781.79	0.83	325.85
27.50	1658.57	0.23	781.79	0.83	322.70
27.60	1658.57	0.23	781.79	0.83	319.98

27.70	1658.57	0.23	781.78	0.82	317.15
27.80	1652.14	0.23	781.78	0.82	314.02
27.90	1517.15	0.26	781.81	0.79	310.81
28.00	1517.15	0.26	781.81	0.79	307.77
28.10	1517.15	0.26	781.81	0.79	304.75
28.20	1517.15	0.25	781.81	0.78	301.96
28.30	1517.15	0.25	781.81	0.78	299.19
28.40	1517.15	0.25	781.80	0.78	296.44
28.50	1517.15	0.25	781.80	0.77	293.72
28.60	1517.15	0.25	781.80	0.77	291.03
28.70	1514.76	0.25	781.80	0.77	288.43
28.80	1458.57	0.25	781.80	0.79	285.79
28.90	1458.57	0.25	781.80	0.79	282.67
29.00	1458.57	0.24	781.80	0.78	279.94
29.10	1458.57	0.24	781.80	0.78	277.83
29.20	1515.22	0.24	781.79	0.75	275.50
29.30	1517.15	0.24	781.79	0.74	272.91
29.40	1517.15	0.24	781.79	0.74	270.31
29.50	1517.15	0.24	781.79	0.74	268.20
29.60	1517.15	0.24	781.79	0.74	265.88
29.70	1517.15	0.24	781.79	0.73	263.44
29.80	1517.15	0.24	781.79	0.73	260.80
29.90	1517.15	0.23	781.79	0.72	258.09
30.00	1517.15	0.23	781.79	0.72	255.78
30.10	1517.15	0.23	781.78	0.72	253.58
30.20	1517.15	0.23	781.78	0.72	251.43
30.30	1517.15	0.23	781.78	0.71	249.17
30.40	1517.15	0.23	781.78	0.71	246.84
30.50	1517.15	0.23	781.78	0.71	244.81
30.60	1517.15	0.23	781.78	0.70	242.67
30.70	1517.15	0.23	781.78	0.70	240.40
30.80	1517.15	0.23	781.78	0.70	237.93
30.90	1517.15	0.22	781.78	0.69	234.90
31.00	1517.15	0.22	781.77	0.69	233.29
31.10	1517.15	0.22	781.77	0.69	231.62
31.20	1517.15	0.22	781.77	0.69	229.56
31.30	1517.15	0.22	781.77	0.68	227.62
31.40	1517.15	0.22	781.77	0.68	226.14
31.50	1517.15	0.22	781.77	0.68	224.32
31.60	1517.15	0.22	781.77	0.68	222.44
31.70	1517.15	0.22	781.77	0.68	220.62
31.80	1517.15	0.21	781.77	0.67	218.54
31.90	1517.15	0.21	781.76	0.67	216.47
32.00	1517.15	0.21	781.76	0.67	214.49
32.10	1517.15	0.21	781.76	0.67	212.60
32.20	1517.15	0.21	781.76	0.66	210.73
32.30	1517.15	0.21	781.76	0.66	208.87
32.40	1517.15	0.21	781.76	0.66	207.09
32.50	1517.15	0.21	781.76	0.66	205.37
32.60	1517.15	0.21	781.76	0.65	203.64
32.70	1517.15	0.20	781.76	0.65	201.98
32.80	1517.15	0.20	781.76	0.65	200.38
32.90	1517.15	0.20	781.75	0.65	198.79
33.00	1517.15	0.20	781.75	0.64	197.19
33.10	1517.15	0.20	781.75	0.64	195.57
33.20	1517.15	0.20	781.75	0.64	193.87
33.30	1517.15	0.20	781.75	0.64	192.08
33.40	1517.15	0.20	781.75	0.63	190.33
33.50	1517.15	0.20	781.75	0.63	188.98
33.60	1517.15	0.20	781.75	0.63	187.61
33.70	1517.15	0.20	781.75	0.63	186.10
33.80	1517.15	0.19	781.75	0.63	184.68
33.90	1517.15	0.19	781.75	0.62	183.23
34.00	1517.15	0.19	781.74	0.62	181.77
34.10	1517.15	0.19	781.74	0.62	180.30
34.20	1517.15	0.19	781.74	0.62	178.83
34.30	1517.15	0.19	781.74	0.62	177.34
34.40	1517.15	0.19	781.74	0.61	175.76
34.50	1517.15	0.19	781.74	0.61	174.14
34.60	1517.15	0.19	781.74	0.61	172.67
34.70	1517.15	0.19	781.74	0.61	171.24
34.80	1517.15	0.19	781.74	0.60	169.87
34.90	1517.15	0.18	781.74	0.60	168.54
35.00	1517.15	0.18	781.74	0.60	167.24
35.10	1517.15	0.18	781.73	0.60	165.96
35.20	1517.15	0.18	781.73	0.60	164.60

35.30	1517.15	0.18	781.73	0.59	163.00
35.40	1517.15	0.18	781.73	0.59	161.51
35.50	1517.15	0.18	781.73	0.59	160.31
35.60	1517.15	0.18	781.73	0.59	159.18
35.70	1517.15	0.18	781.73	0.59	157.83
35.80	1517.15	0.18	781.73	0.58	156.60
35.90	1517.15	0.18	781.73	0.58	155.42
36.00	1517.15	0.18	781.73	0.58	154.29
36.10	1517.15	0.17	781.73	0.58	153.17
36.20	1517.15	0.17	781.73	0.58	152.06
36.30	1517.15	0.17	781.73	0.57	150.93
36.40	1517.15	0.17	781.72	0.57	149.75
36.50	1517.15	0.17	781.72	0.57	148.54
36.60	1517.15	0.17	781.72	0.57	147.39
36.70	1517.15	0.17	781.72	0.57	146.30
36.80	1517.15	0.17	781.72	0.57	145.22
36.90	1517.15	0.17	781.72	0.56	144.13
37.00	1517.15	0.17	781.72	0.56	143.06
37.10	1517.15	0.17	781.72	0.56	141.86
37.20	1517.15	0.17	781.72	0.56	140.60
37.30	1517.15	0.17	781.72	0.56	139.45
37.40	1517.15	0.16	781.72	0.55	138.34
37.50	1517.15	0.16	781.72	0.55	137.28
37.60	1517.15	0.16	781.72	0.55	136.31
37.70	1517.15	0.16	781.71	0.55	135.29
37.80	1517.15	0.16	781.71	0.55	134.33
37.90	1517.15	0.16	781.71	0.55	133.35
38.00	1517.15	0.16	781.71	0.54	132.40
38.10	1517.15	0.16	781.71	0.54	131.36
38.20	1517.15	0.16	781.71	0.54	130.44
38.30	1517.15	0.16	781.71	0.54	129.38
38.40	1517.15	0.16	781.71	0.54	128.29
38.50	1517.15	0.16	781.71	0.54	127.20
38.60	1517.15	0.16	781.71	0.53	125.70
38.70	1517.15	0.15	781.71	0.53	124.28
38.80	1517.15	0.15	781.71	0.53	123.17
38.90	1517.15	0.15	781.71	0.53	122.29
39.00	1517.15	0.15	781.70	0.53	121.41
39.10	1517.15	0.15	781.70	0.52	120.61
39.20	1517.15	0.15	781.70	0.52	119.61
39.30	1517.15	0.15	781.70	0.52	118.59
39.40	1517.15	0.15	781.70	0.52	117.29
39.50	1517.15	0.15	781.70	0.52	116.45
39.60	1517.15	0.15	781.70	0.52	116.06
39.70	1517.15	0.15	781.70	0.52	115.27
39.80	1517.15	0.15	781.70	0.51	114.33
39.90	1517.15	0.15	781.70	0.51	113.39
40.00	1517.15	0.15	781.70	0.51	112.48
40.10	1517.15	0.14	781.70	0.51	111.58
40.20	1517.15	0.14	781.70	0.51	110.69
40.30	1517.15	0.14	781.70	0.50	109.80
40.40	1517.15	0.14	781.70	0.50	108.90
40.50	1517.15	0.14	781.69	0.50	108.02
40.60	1517.15	0.14	781.69	0.50	107.14
40.70	1517.15	0.14	781.69	0.50	106.27
40.80	1517.15	0.14	781.69	0.49	105.42
40.90	1517.15	0.14	781.69	0.49	104.61
41.00	1517.15	0.14	781.69	0.49	103.85
41.10	1517.15	0.14	781.69	0.49	103.06
41.20	1517.15	0.14	781.69	0.49	102.25
41.30	1517.15	0.14	781.69	0.49	101.46
41.40	1517.15	0.14	781.69	0.49	100.70
41.50	1517.15	0.14	781.69	0.48	99.98
41.60	1517.15	0.14	781.69	0.48	99.28
41.70	1517.15	0.13	781.69	0.48	98.60
41.80	1517.15	0.13	781.69	0.48	97.92
41.90	1517.15	0.13	781.69	0.48	97.23
42.00	1517.15	0.13	781.69	0.48	96.53
42.10	1517.15	0.13	781.68	0.48	95.84
42.20	1517.15	0.13	781.68	0.47	95.14
42.30	1517.15	0.13	781.68	0.47	94.41
42.40	1517.15	0.13	781.68	0.47	93.58
42.50	1517.15	0.13	781.68	0.47	92.77
42.60	1517.15	0.13	781.68	0.47	92.08
42.70	1517.15	0.13	781.68	0.47	91.47
42.80	1517.15	0.13	781.68	0.47	90.86

42.90	1517.15	0.13	781.68	0.46	90.23
43.00	1517.15	0.13	781.68	0.46	89.60
43.10	1517.15	0.13	781.68	0.46	88.98
43.20	1517.15	0.13	781.68	0.46	88.35
43.30	1517.15	0.13	781.68	0.46	87.72
43.40	1517.15	0.13	781.68	0.46	87.04
43.50	1517.15	0.12	781.68	0.46	86.27
43.60	1517.15	0.12	781.68	0.45	85.54
43.70	1517.15	0.12	781.68	0.45	84.87
43.80	1517.15	0.12	781.68	0.45	84.25
43.90	1517.15	0.12	781.67	0.45	83.66
44.00	1517.15	0.12	781.67	0.45	83.07
44.10	1517.15	0.12	781.67	0.44	81.88
44.20	1517.15	0.12	781.67	0.44	80.83
44.30	1517.15	0.12	781.67	0.44	80.84
44.40	1517.15	0.12	781.67	0.44	80.99
44.50	1517.15	0.12	781.67	0.43	79.22
44.60	1517.15	0.12	781.67	0.43	79.35
44.70	1517.15	0.12	781.67	0.42	78.46
44.80	1517.15	0.12	781.67	0.42	78.36
44.90	1517.15	0.12	781.67	0.42	77.86
45.00	1517.15	0.12	781.67	0.42	77.27
45.10	1517.15	0.12	781.67	0.42	76.67
45.20	1517.15	0.12	781.67	0.42	76.08
45.30	1517.15	0.12	781.67	0.41	75.47
45.40	1517.15	0.12	781.67	0.41	74.85
45.50	1517.15	0.12	781.67	0.41	74.24
45.60	1517.15	0.12	781.67	0.41	73.63
45.70	1517.15	0.12	781.67	0.41	73.05
45.80	1517.15	0.12	781.67	0.41	72.48
45.90	1517.15	0.12	781.67	0.40	71.93
46.00	1517.15	0.12	781.67	0.40	70.98
46.10	1517.15	0.12	781.67	0.40	70.48
46.20	1517.15	0.12	781.67	0.39	69.81
46.30	1517.15	0.12	781.67	0.38	68.65
46.40	1517.15	0.12	781.67	0.39	69.20
46.50	1517.15	0.12	781.67	0.38	68.48
46.60	1517.15	0.12	781.67	0.38	68.23
46.70	1517.15	0.12	781.67	0.38	67.76
46.80	1517.15	0.12	781.67	0.38	67.26
46.90	1517.15	0.12	781.67	0.38	66.77
47.00	1517.15	0.12	781.67	0.38	66.30
47.10	1517.15	0.12	781.67	0.37	65.85
47.20	1517.15	0.12	781.67	0.37	65.40
47.30	1517.15	0.12	781.67	0.37	64.97
47.40	1517.15	0.11	781.67	0.37	64.53
47.50	1517.15	0.11	781.67	0.37	64.09
47.60	1517.15	0.11	781.67	0.37	63.64
47.70	1517.15	0.11	781.67	0.37	63.19
47.80	1517.15	0.11	781.67	0.36	62.75
47.90	1517.15	0.11	781.67	0.36	62.31
48.00	1517.15	0.11	781.67	0.36	61.87
48.10	1517.15	0.11	781.66	0.36	61.44
48.20	1517.15	0.11	781.66	0.36	61.01
48.30	1517.15	0.11	781.66	0.36	60.58
48.40	1517.15	0.11	781.66	0.35	60.15
48.50	1517.15	0.11	781.66	0.35	59.73
48.60	1517.15	0.11	781.66	0.35	59.31
48.70	1517.15	0.11	781.66	0.35	58.89
48.80	1517.15	0.11	781.66	0.35	58.48
48.90	1517.15	0.11	781.66	0.35	58.08
49.00	1517.15	0.11	781.66	0.35	57.68
49.10	1517.15	0.11	781.66	0.34	57.28
49.20	1517.15	0.11	781.66	0.34	56.89
49.30	1517.15	0.11	781.66	0.34	56.49
49.40	1517.15	0.11	781.66	0.34	56.11
49.50	1517.15	0.11	781.66	0.34	55.72
49.60	1517.15	0.11	781.66	0.34	55.34
49.70	1517.15	0.11	781.66	0.34	54.96
49.80	1517.15	0.11	781.66	0.33	54.58
49.90	1517.15	0.11	781.66	0.33	54.20
50.00	1517.15	0.11	781.66	0.33	53.83
50.10	1517.15	0.11	781.66	0.33	53.46
50.20	1517.15	0.11	781.66	0.33	53.09
50.30	1517.15	0.11	781.66	0.33	52.65
50.40	1517.15	0.11	781.66	0.33	52.17

50.50	1517.15	0.11	781.66	0.32	51.72
50.60	1517.15	0.10	781.66	0.32	51.30
50.70	1517.15	0.10	781.66	0.32	50.92
50.80	1517.15	0.10	781.66	0.32	50.55
50.90	1517.15	0.10	781.66	0.32	50.19
51.00	1517.15	0.10	781.66	0.32	49.83
51.10	1517.15	0.10	781.66	0.32	49.48
51.20	1517.15	0.10	781.66	0.31	49.14
51.30	1517.15	0.10	781.65	0.31	48.79
51.40	1517.15	0.10	781.65	0.31	48.43
51.50	1517.15	0.10	781.65	0.31	48.09
51.60	1517.15	0.10	781.65	0.31	47.74
51.70	1517.15	0.10	781.65	0.31	47.42
51.80	1517.15	0.10	781.65	0.31	47.07
51.90	1517.15	0.10	781.65	0.31	46.74
52.00	1517.15	0.10	781.65	0.30	46.43
52.10	1517.15	0.10	781.65	0.30	46.08
52.20	1517.15	0.10	781.65	0.30	45.73
52.30	1517.15	0.10	781.65	0.30	45.46
52.40	1517.15	0.10	781.65	0.30	45.19
52.50	1517.15	0.10	781.65	0.30	44.89
52.60	1517.15	0.10	781.65	0.30	44.59
52.70	1517.15	0.10	781.65	0.30	44.31
52.80	1517.15	0.10	781.65	0.30	44.07
52.90	1517.15	0.10	781.65	0.29	43.85
53.00	1517.15	0.10	781.65	0.29	43.61
53.10	1517.15	0.10	781.65	0.29	43.35
53.20	1517.15	0.10	781.65	0.29	43.09
53.30	1517.15	0.10	781.65	0.29	42.82
53.40	1517.15	0.10	781.65	0.29	42.55
53.50	1517.15	0.10	781.65	0.29	42.29
53.60	1517.15	0.10	781.65	0.29	42.03
53.70	1517.15	0.10	781.65	0.29	41.77
53.80	1517.15	0.10	781.65	0.29	41.51
53.90	1517.15	0.10	781.65	0.28	41.25
54.00	1517.15	0.10	781.65	0.28	41.00
54.10	1517.15	0.10	781.65	0.28	40.74
54.20	1517.15	0.09	781.65	0.28	40.49
54.30	1517.15	0.09	781.65	0.28	40.24
54.40	1517.15	0.09	781.65	0.28	39.99
54.50	1517.15	0.09	781.65	0.28	39.74
54.60	1517.15	0.09	781.65	0.28	39.50
54.70	1517.15	0.09	781.65	0.28	39.25
54.80	1517.15	0.09	781.65	0.28	39.01
54.90	1517.15	0.09	781.65	0.27	38.77
55.00	1517.15	0.09	781.65	0.27	38.53
55.10	1517.15	0.09	781.64	0.27	38.30
55.20	1517.15	0.09	781.64	0.27	38.06
55.30	1517.15	0.09	781.64	0.27	37.83
55.40	1517.15	0.09	781.64	0.27	37.59
55.50	1517.15	0.09	781.64	0.27	37.36
55.60	1517.15	0.09	781.64	0.27	37.13
55.70	1517.15	0.09	781.64	0.27	36.91
55.80	1517.15	0.09	781.64	0.27	36.68
55.90	1517.15	0.09	781.64	0.27	36.46
56.00	1517.15	0.09	781.64	0.26	36.23
56.10	1517.15	0.09	781.64	0.26	36.01
56.20	1517.15	0.09	781.64	0.26	35.80
56.30	1517.15	0.09	781.64	0.26	35.58
56.40	1517.15	0.09	781.64	0.26	35.36
56.50	1517.15	0.09	781.64	0.26	35.14
56.60	1517.15	0.09	781.64	0.26	34.93
56.70	1517.15	0.09	781.64	0.26	34.72
56.80	1517.15	0.09	781.64	0.26	34.51
56.90	1517.15	0.09	781.64	0.26	34.30
57.00	1517.15	0.09	781.64	0.26	34.09
57.10	1517.15	0.09	781.64	0.25	33.89
57.20	1517.15	0.09	781.64	0.25	33.69
57.30	1517.15	0.09	781.64	0.25	33.49
57.40	1517.15	0.09	781.64	0.25	33.29
57.50	1517.15	0.09	781.64	0.25	33.09
57.60	1517.15	0.09	781.64	0.25	32.89
57.70	1517.15	0.09	781.64	0.25	32.70
57.80	1517.15	0.09	781.64	0.25	32.50
57.90	1517.15	0.09	781.64	0.25	32.31
58.00	1517.15	0.09	781.64	0.25	32.12

58.10	1517.15	0.09	781.64	0.25	31.93
58.20	1517.15	0.09	781.64	0.24	31.74
58.30	1517.15	0.09	781.64	0.24	31.55
58.40	1517.15	0.08	781.64	0.24	31.36
58.50	1517.15	0.08	781.64	0.24	31.18
58.60	1517.15	0.08	781.64	0.24	30.99
58.70	1517.15	0.08	781.64	0.24	30.81
58.80	1517.15	0.08	781.64	0.24	30.63
58.90	1517.15	0.08	781.64	0.24	30.45
59.00	1517.15	0.08	781.64	0.24	30.27
59.10	1517.15	0.08	781.64	0.24	30.10
59.20	1517.15	0.08	781.64	0.24	29.93
59.30	1517.15	0.08	781.64	0.24	29.76
59.40	1517.15	0.08	781.64	0.24	29.58
59.50	1517.15	0.08	781.63	0.23	29.41
59.60	1517.15	0.08	781.63	0.23	29.25
59.70	1517.15	0.08	781.63	0.23	29.08
59.80	1517.15	0.08	781.63	0.23	28.91
59.90	1517.15	0.08	781.63	0.23	28.75
60.00	1517.15	0.08	781.63	0.23	28.58

THE MAXIMUM DISCHARGE FROM CROSS SECTION 6 IS: 32820.44 CFS AT TIME: 30.84 HOURS
THE TOTAL VOLUME OF DISCHARGE IS: 43989.75 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 6

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME (HRS)	FLOW WIDTH (FT)	AVE. DEPTH (FT)	WS ELEV (FT/FT)	VELOCITY (FPS)	DISCHARGE (CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00

4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	0.00	0.00	0.00	0.00	0.00
7.80	0.00	0.00	0.00	0.00	0.00
7.90	0.00	0.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	0.00	0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	0.00	0.00	0.00	0.00	0.00
8.60	0.00	0.00	0.00	0.00	0.00
8.70	0.00	0.00	0.00	0.00	0.00
8.80	0.00	0.00	0.00	0.00	0.00
8.90	0.00	0.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	0.00	0.00
9.10	0.00	0.00	0.00	0.00	0.00
9.20	0.00	0.00	0.00	0.00	0.00
9.30	0.00	0.00	0.00	0.00	0.00
9.40	0.00	0.00	0.00	0.00	0.00
9.50	0.00	0.00	0.00	0.00	0.00
9.60	0.00	0.00	0.00	0.00	0.00
9.70	0.00	0.00	0.00	0.00	0.00
9.80	0.00	0.00	0.00	0.00	0.00
9.90	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	0.00	0.00
10.10	0.00	0.00	0.00	0.00	0.00
10.20	0.00	0.00	0.00	0.00	0.00
10.30	0.00	0.00	0.00	0.00	0.00
10.40	0.00	0.00	0.00	0.00	0.00
10.50	0.00	0.00	0.00	0.00	0.00
10.60	37.08	0.00	675.38	0.01	0.00
10.70	398.66	0.00	675.38	0.01	0.01
10.80	643.27	0.00	675.38	0.01	0.01
10.90	964.62	0.00	675.38	0.01	0.01
11.00	1613.10	0.00	675.38	0.01	0.03
11.10	4246.68	0.00	675.38	0.01	0.14
11.20	7804.19	0.00	675.38	0.02	0.36
11.30	9566.03	0.00	675.38	0.02	0.56
11.40	10433.52	0.00	675.38	0.02	0.79
11.50	10850.21	0.00	675.38	0.02	1.04
11.60	11045.20	0.01	675.38	0.03	1.55
11.70	11141.36	0.01	675.39	0.03	2.43
11.80	11185.57	0.01	675.39	0.04	3.95
11.90	11199.94	0.02	675.39	0.05	9.34
12.00	11199.94	0.02	675.40	0.07	18.73

12.10	11199.94	0.03	675.41	0.08	28.65
12.20	11199.94	0.04	675.42	0.09	37.13
12.30	11199.94	0.04	675.42	0.10	46.35
12.40	11199.94	0.04	675.42	0.11	53.02
12.50	11199.94	0.05	675.43	0.11	59.61
12.60	11199.94	0.05	675.43	0.11	64.69
12.70	11199.94	0.05	675.43	0.12	68.11
12.80	11199.94	0.05	675.43	0.12	71.62
12.90	11199.94	0.06	675.43	0.12	74.78
13.00	11199.94	0.06	675.44	0.12	78.01
13.10	11199.94	0.06	675.44	0.13	81.14
13.20	11199.94	0.06	675.44	0.13	84.17
13.30	11199.94	0.06	675.44	0.13	87.30
13.40	11199.94	0.06	675.44	0.13	90.29
13.50	11199.94	0.06	675.44	0.13	93.37
13.60	11199.94	0.06	675.44	0.13	96.42
13.70	11199.94	0.07	675.44	0.14	99.44
13.80	11199.94	0.07	675.45	0.14	102.55
13.90	11199.94	0.07	675.45	0.14	105.59
14.00	11199.94	0.07	675.45	0.14	108.59
14.10	11199.94	0.07	675.45	0.14	111.23
14.20	11199.94	0.07	675.45	0.14	113.35
14.30	11199.94	0.07	675.45	0.14	116.21
14.40	11199.94	0.08	675.46	0.14	121.25
14.50	11199.94	0.08	675.46	0.14	126.58
14.60	11199.94	0.08	675.46	0.15	131.95
14.70	11199.94	0.08	675.46	0.15	137.90
14.80	11199.94	0.08	675.46	0.15	142.67
14.90	11199.94	0.09	675.47	0.15	147.75
15.00	11199.94	0.09	675.47	0.15	152.77
15.10	11199.94	0.09	675.47	0.16	157.74
15.20	11199.94	0.09	675.47	0.16	163.13
15.30	11199.94	0.09	675.47	0.16	168.68
15.40	11199.94	0.10	675.47	0.16	174.44
15.50	11199.94	0.10	675.48	0.17	180.00
15.60	11199.94	0.10	675.48	0.17	185.76
15.70	11199.94	0.10	675.48	0.17	191.11
15.80	11199.94	0.10	675.48	0.18	197.11
15.90	11199.94	0.10	675.48	0.18	207.58
16.00	11199.94	0.10	675.48	0.20	240.72
16.10	11199.94	0.11	675.49	0.24	286.78
16.20	11199.94	0.11	675.49	0.25	310.02
16.30	11199.94	0.11	675.49	0.26	335.72
16.40	11199.94	0.12	675.49	0.28	366.76
16.50	11199.94	0.12	675.50	0.29	386.67
16.60	11199.94	0.12	675.50	0.30	401.48
16.70	11199.94	0.12	675.50	0.30	410.69
16.80	11199.94	0.12	675.50	0.31	416.58
16.90	11199.94	0.12	675.50	0.31	420.43
17.00	11199.94	0.12	675.50	0.31	422.28
17.10	11199.94	0.12	675.50	0.31	424.00
17.20	11199.94	0.12	675.50	0.31	425.58
17.30	11199.94	0.12	675.50	0.31	427.19
17.40	11199.94	0.13	675.50	0.30	427.97
17.50	11199.94	0.13	675.51	0.30	428.58
17.60	11199.94	0.13	675.51	0.30	429.18
17.70	11199.94	0.13	675.51	0.30	429.37
17.80	11199.94	0.13	675.51	0.30	429.44
17.90	11199.94	0.13	675.51	0.30	429.40
18.00	11199.94	0.13	675.51	0.30	429.13
18.10	11199.94	0.13	675.51	0.30	428.60
18.20	11199.94	0.13	675.51	0.30	427.83
18.30	11199.94	0.13	675.51	0.29	427.12
18.40	11199.94	0.13	675.51	0.29	426.48
18.50	11199.94	0.13	675.51	0.29	425.88
18.60	11199.94	0.13	675.51	0.29	425.28
18.70	11199.94	0.13	675.51	0.29	424.72
18.80	11199.94	0.13	675.51	0.29	424.26
18.90	11199.94	0.13	675.51	0.29	423.90
19.00	11199.94	0.13	675.51	0.29	423.68
19.10	11199.94	0.13	675.51	0.28	423.61
19.20	11199.94	0.13	675.51	0.28	423.33
19.30	11199.94	0.13	675.51	0.28	423.08
19.40	11199.94	0.13	675.51	0.28	423.66
19.50	11199.94	0.14	675.51	0.28	426.24
19.60	11199.94	0.14	675.52	0.28	432.33

19.70	11199.94	0.14	675.52	0.29	454.80
19.80	11199.94	0.15	675.53	0.31	513.20
19.90	11199.94	0.16	675.54	0.37	657.29
20.00	11199.94	0.19	675.57	0.62	1309.16
20.10	11199.94	0.24	675.62	0.96	2637.56
20.20	11199.94	0.25	675.63	1.06	2982.00
20.30	11199.94	0.26	675.64	1.09	3137.84
20.40	11199.94	0.26	675.64	1.12	3273.26
20.50	11199.94	0.27	675.65	1.13	3361.34
20.60	11199.94	0.27	675.65	1.14	3429.81
20.70	11199.94	0.27	675.65	1.14	3473.81
20.80	11199.94	0.28	675.65	1.14	3516.12
20.90	11199.94	0.30	675.68	1.14	3806.70
21.00	11199.94	0.31	675.69	1.16	3975.98
21.10	11199.94	0.31	675.69	1.15	4021.15
21.20	11199.94	0.32	675.69	1.15	4062.14
21.30	11199.94	0.32	675.70	1.15	4092.37
21.40	11199.94	0.32	675.70	1.15	4123.06
21.50	11199.94	0.32	675.70	1.15	4159.59
21.60	11199.94	0.33	675.71	1.15	4203.78
21.70	11199.94	0.33	675.71	1.15	4264.05
21.80	11199.94	0.33	675.71	1.16	4361.65
21.90	11199.94	0.34	675.72	1.18	4507.64
22.00	11199.94	0.35	675.73	1.21	4691.05
22.10	11199.94	0.35	675.73	1.24	4888.67
22.20	11199.94	0.36	675.74	1.26	5074.71
22.30	11199.94	0.36	675.74	1.28	5232.75
22.40	11199.94	0.37	675.75	1.30	5379.42
22.50	11199.94	0.37	675.75	1.32	5506.31
22.60	11199.94	0.38	675.76	1.33	5610.68
22.70	11199.94	0.38	675.76	1.34	5704.98
22.80	11199.94	0.38	675.76	1.35	5790.67
22.90	11199.94	0.39	675.77	1.35	5864.14
23.00	11199.94	0.39	675.77	1.36	5927.89
23.10	11199.94	0.39	675.77	1.36	5982.87
23.20	11199.94	0.39	675.77	1.37	6031.77
23.30	11199.94	0.40	675.78	1.37	6077.73
23.40	11199.94	0.40	675.78	1.37	6122.78
23.50	11199.94	0.40	675.78	1.38	6163.03
23.60	11199.94	0.40	675.78	1.38	6196.95
23.70	11199.94	0.40	675.78	1.38	6220.44
23.80	11199.94	0.40	675.78	1.38	6236.79
23.90	11199.94	0.40	675.78	1.38	6246.62
24.00	11199.94	0.41	675.78	1.38	6251.01
24.10	11199.94	0.41	675.79	1.37	6247.07
24.20	11199.94	0.41	675.79	1.37	6236.17
24.30	11199.94	0.41	675.79	1.36	6220.86
24.40	11199.94	0.41	675.79	1.36	6202.44
24.50	11199.94	0.41	675.79	1.36	6182.91
24.60	11199.94	0.41	675.79	1.35	6161.00
24.70	11199.94	0.41	675.79	1.35	6139.57
24.80	11199.94	0.41	675.79	1.34	6118.23
24.90	11199.94	0.41	675.79	1.34	6096.13
25.00	11199.94	0.41	675.78	1.34	6076.19
25.10	11199.94	0.40	675.78	1.34	6056.43
25.20	11199.94	0.40	675.78	1.34	6042.62
25.30	11199.94	0.40	675.78	1.34	6034.86
25.40	11199.94	0.40	675.78	1.34	6031.29
25.50	11199.94	0.40	675.78	1.34	6032.14
25.60	11199.94	0.40	675.78	1.34	6033.41
25.70	11199.94	0.40	675.78	1.34	6037.13
25.80	11199.94	0.40	675.78	1.34	6042.14
25.90	11199.94	0.40	675.78	1.35	6046.33
26.00	11199.94	0.40	675.78	1.35	6047.99
26.10	11199.94	0.40	675.78	1.35	6045.85
26.20	11199.94	0.40	675.78	1.35	6042.91
26.30	11199.94	0.40	675.78	1.35	6032.11
26.40	11199.94	0.40	675.78	1.35	6023.61
26.50	11199.94	0.40	675.78	1.35	6007.26
26.60	11199.94	0.40	675.78	1.34	5986.80
26.70	11199.94	0.40	675.78	1.34	5963.69
26.80	11199.94	0.40	675.77	1.34	5938.68
26.90	11199.94	0.39	675.77	1.34	5910.77
27.00	11199.94	0.39	675.77	1.33	5882.27
27.10	11199.94	0.39	675.77	1.33	5850.61
27.20	11199.94	0.39	675.77	1.33	5819.85

27.30	11199.94	0.39	675.77	1.32	5788.49
27.40	11199.94	0.39	675.77	1.32	5756.00
27.50	11199.94	0.39	675.77	1.32	5723.52
27.60	11199.94	0.39	675.77	1.31	5693.04
27.70	11199.94	0.39	675.77	1.31	5660.71
27.80	11199.94	0.39	675.76	1.31	5629.91
27.90	11199.94	0.38	675.76	1.30	5598.44
28.00	11199.94	0.38	675.76	1.30	5567.73
28.10	11199.94	0.38	675.76	1.30	5537.54
28.20	11199.94	0.38	675.76	1.29	5506.43
28.30	11199.94	0.38	675.76	1.29	5474.67
28.40	11199.94	0.38	675.76	1.29	5443.53
28.50	11199.94	0.38	675.76	1.28	5413.46
28.60	11199.94	0.38	675.76	1.28	5385.60
28.70	11199.94	0.38	675.75	1.28	5356.32
28.80	11199.94	0.37	675.75	1.27	5328.30
28.90	11199.94	0.37	675.75	1.27	5299.74
29.00	11199.94	0.37	675.75	1.27	5270.15
29.10	11199.94	0.37	675.75	1.26	5242.64
29.20	11199.94	0.37	675.75	1.26	5217.51
29.30	11199.94	0.37	675.75	1.26	5195.01
29.40	11199.94	0.37	675.75	1.26	5174.16
29.50	11199.94	0.39	675.77	1.38	6018.08
29.60	11199.94	0.54	675.92	2.50	15280.92
29.70	11199.94	0.63	676.00	3.01	21090.32
29.80	11199.94	0.68	676.06	3.22	24405.68
29.90	11199.94	0.72	676.10	3.34	26793.22
30.00	11199.94	0.75	676.12	3.42	28545.14
30.10	11199.94	0.77	676.15	3.47	29862.08
30.20	11199.94	0.79	676.16	3.50	30812.71
30.30	11199.94	0.80	676.18	3.53	31508.79
30.40	11199.94	0.81	676.19	3.54	32011.74
30.50	11199.94	0.81	676.19	3.55	32364.55
30.60	11199.94	0.82	676.20	3.56	32597.78
30.70	11199.94	0.82	676.20	3.56	32740.28
30.80	11199.94	0.82	676.20	3.56	32804.72
30.90	11199.94	0.82	676.20	3.56	32817.55
31.00	11199.94	0.82	676.20	3.55	32787.99
31.10	11199.94	0.82	676.20	3.55	32718.27
31.20	11199.94	0.82	676.20	3.54	32617.90
31.30	11199.94	0.82	676.20	3.54	32494.41
31.40	11199.94	0.82	676.20	3.53	32351.90
31.50	11199.94	0.82	676.20	3.52	32191.38
31.60	11199.94	0.81	676.19	3.51	32023.16
31.70	11199.94	0.81	676.19	3.50	31842.48
31.80	11199.94	0.81	676.19	3.49	31657.03
31.90	11199.94	0.81	676.19	3.48	31467.11
32.00	11199.94	0.80	676.18	3.47	31268.70
32.10	11199.94	0.80	676.18	3.46	31068.12
32.20	11199.94	0.80	676.18	3.45	30865.26
32.30	11199.94	0.80	676.17	3.44	30658.90
32.40	11199.94	0.79	676.17	3.43	30452.47
32.50	11199.94	0.79	676.17	3.42	30243.51
32.60	11199.94	0.79	676.17	3.41	30032.51
32.70	11199.94	0.78	676.16	3.40	29824.99
32.80	11199.94	0.78	676.16	3.39	29618.64
32.90	11199.94	0.78	676.16	3.38	29410.52
33.00	11199.94	0.77	676.15	3.37	29200.61
33.10	11199.94	0.77	676.15	3.36	28995.13
33.20	11199.94	0.77	676.15	3.34	28793.14
33.30	11199.94	0.77	676.14	3.33	28590.30
33.40	11199.94	0.76	676.14	3.32	28391.00
33.50	11199.94	0.76	676.14	3.31	28193.00
33.60	11199.94	0.76	676.14	3.30	28000.82
33.70	11199.94	0.75	676.13	3.29	27809.03
33.80	11199.94	0.75	676.13	3.28	27618.53
33.90	11199.94	0.75	676.13	3.27	27429.76
34.00	11199.94	0.75	676.12	3.26	27245.90
34.10	11199.94	0.74	676.12	3.25	27066.83
34.20	11199.94	0.74	676.12	3.24	26888.36
34.30	11199.94	0.74	676.12	3.23	26713.83
34.40	11199.94	0.73	676.11	3.22	26544.19
34.50	11199.94	0.73	676.11	3.22	26370.72
34.60	11199.94	0.73	676.11	3.21	26205.32
34.70	11199.94	0.73	676.11	3.20	26039.43
34.80	11199.94	0.72	676.10	3.19	25877.60

34.90	11199.94	0.72	676.10	3.18	25713.49
35.00	11199.94	0.72	676.10	3.17	25550.49
35.10	11199.94	0.72	676.10	3.16	25391.01
35.20	11199.94	0.71	676.09	3.15	25233.02
35.30	11199.94	0.71	676.09	3.15	25075.20
35.40	11199.94	0.71	676.09	3.14	24921.03
35.50	11199.94	0.71	676.09	3.13	24767.16
35.60	11199.94	0.70	676.08	3.12	24612.93
35.70	11199.94	0.70	676.08	3.11	24458.10
35.80	11199.94	0.70	676.08	3.10	24301.51
35.90	11199.94	0.70	676.08	3.10	24147.09
36.00	11199.94	0.69	676.07	3.09	23994.23
36.10	11199.94	0.69	676.07	3.08	23840.83
36.20	11199.94	0.69	676.07	3.07	23688.19
36.30	11199.94	0.69	676.07	3.06	23537.51
36.40	11199.94	0.68	676.06	3.05	23385.37
36.50	11199.94	0.68	676.06	3.04	23234.83
36.60	11199.94	0.68	676.06	3.04	23084.35
36.70	11199.94	0.68	676.06	3.03	22935.55
36.80	11199.94	0.67	676.05	3.02	22787.21
36.90	11199.94	0.67	676.05	3.01	22637.62
37.00	11199.94	0.67	676.05	3.00	22491.03
37.10	11199.94	0.67	676.05	2.99	22343.12
37.20	11199.94	0.66	676.04	2.98	22200.36
37.30	11199.94	0.66	676.04	2.98	22057.67
37.40	11199.94	0.66	676.04	2.97	21914.77
37.50	11199.94	0.66	676.04	2.96	21771.52
37.60	11199.94	0.65	676.03	2.95	21628.22
37.70	11199.94	0.65	676.03	2.94	21486.94
37.80	11199.94	0.65	676.03	2.93	21345.02
37.90	11199.94	0.65	676.03	2.92	21206.13
38.00	11199.94	0.65	676.02	2.92	21068.38
38.10	11199.94	0.64	676.02	2.91	20931.06
38.20	11199.94	0.64	676.02	2.90	20793.88
38.30	11199.94	0.64	676.02	2.89	20656.43
38.40	11199.94	0.64	676.01	2.88	20520.59
38.50	11199.94	0.63	676.01	2.87	20384.77
38.60	11199.94	0.63	676.01	2.87	20248.42
38.70	11199.94	0.63	676.01	2.86	20110.61
38.80	11199.94	0.63	676.01	2.85	19976.39
38.90	11199.94	0.62	676.00	2.84	19844.62
39.00	11199.94	0.62	676.00	2.83	19713.43
39.10	11199.94	0.62	676.00	2.82	19582.76
39.20	11199.94	0.62	676.00	2.82	19451.73
39.30	11199.94	0.61	675.99	2.81	19321.64
39.40	11199.94	0.61	675.99	2.80	19193.67
39.50	11199.94	0.61	675.99	2.79	19067.69
39.60	11199.94	0.61	675.99	2.78	18941.23
39.70	11199.94	0.61	675.98	2.78	18815.73
39.80	11199.94	0.60	675.98	2.77	18690.19
39.90	11199.94	0.60	675.98	2.76	18563.69
40.00	11199.94	0.60	675.98	2.75	18441.14
40.10	11199.94	0.60	675.98	2.74	18318.70
40.20	11199.94	0.59	675.97	2.74	18197.28
40.30	11199.94	0.59	675.97	2.73	18074.95
40.40	11199.94	0.59	675.97	2.72	17951.44
40.50	11199.94	0.59	675.97	2.71	17834.41
40.60	11199.94	0.59	675.96	2.70	17717.51
40.70	11199.94	0.58	675.96	2.69	17600.49
40.80	11199.94	0.58	675.96	2.69	17484.74
40.90	11199.94	0.58	675.96	2.68	17370.57
41.00	11199.94	0.58	675.96	2.67	17257.85
41.10	11199.94	0.57	675.95	2.66	17145.22
41.20	11199.94	0.57	675.95	2.66	17031.50
41.30	11199.94	0.57	675.95	2.65	16919.97
41.40	11199.94	0.57	675.95	2.64	16808.96
41.50	11199.94	0.57	675.95	2.63	16697.56
41.60	11199.94	0.56	675.94	2.63	16586.21
41.70	11199.94	0.56	675.94	2.62	16474.68
41.80	11199.94	0.56	675.94	2.61	16365.29
41.90	11199.94	0.56	675.94	2.60	16257.90
42.00	11199.94	0.56	675.93	2.59	16149.61
42.10	11199.94	0.55	675.93	2.59	16043.26
42.20	11199.94	0.55	675.93	2.58	15937.58
42.30	11199.94	0.55	675.93	2.57	15832.16
42.40	11199.94	0.55	675.93	2.57	15727.81

42.50	11199.94	0.55	675.92	2.56	15624.23
42.60	11199.94	0.54	675.92	2.55	15521.94
42.70	11199.94	0.54	675.92	2.54	15420.24
42.80	11199.94	0.54	675.92	2.54	15319.03
42.90	11199.94	0.54	675.92	2.53	15219.61
43.00	11199.94	0.54	675.91	2.52	15121.01
43.10	11199.94	0.53	675.91	2.51	15023.22
43.20	11199.94	0.53	675.91	2.51	14925.10
43.30	11199.94	0.53	675.91	2.50	14828.06
43.40	11199.94	0.53	675.91	2.49	14734.01
43.50	11199.94	0.53	675.91	2.49	14639.89
43.60	11199.94	0.52	675.90	2.48	14544.24
43.70	11199.94	0.52	675.90	2.47	14449.15
43.80	11199.94	0.52	675.90	2.46	14355.30
43.90	11199.94	0.52	675.90	2.46	14262.56
44.00	11199.94	0.52	675.90	2.45	14170.88
44.10	11199.94	0.51	675.89	2.44	14080.61
44.20	11199.94	0.51	675.89	2.44	13991.21
44.30	11199.94	0.51	675.89	2.43	13903.26
44.40	11199.94	0.51	675.89	2.42	13815.12
44.50	11199.94	0.51	675.89	2.42	13726.60
44.60	11199.94	0.51	675.88	2.41	13638.28
44.70	11199.94	0.50	675.88	2.40	13549.74
44.80	11199.94	0.50	675.88	2.40	13462.05
44.90	11199.94	0.50	675.88	2.39	13375.23
45.00	11199.94	0.50	675.88	2.38	13289.79
45.10	11199.94	0.50	675.88	2.38	13203.64
45.20	11199.94	0.49	675.87	2.37	13119.36
45.30	11199.94	0.49	675.87	2.36	13036.79
45.40	11199.94	0.49	675.87	2.35	12954.98
45.50	11199.94	0.49	675.87	2.35	12873.25
45.60	11199.94	0.49	675.87	2.34	12791.95
45.70	11199.94	0.49	675.87	2.34	12711.08
45.80	11199.94	0.48	675.86	2.33	12630.95
45.90	11199.94	0.48	675.86	2.32	12551.66
46.00	11199.94	0.48	675.86	2.32	12472.00
46.10	11199.94	0.48	675.86	2.31	12391.50
46.20	11199.94	0.48	675.86	2.30	12312.25
46.30	11199.94	0.48	675.85	2.30	12234.91
46.40	11199.94	0.47	675.85	2.29	12159.55
46.50	11199.94	0.47	675.85	2.28	12083.51
46.60	11199.94	0.47	675.85	2.28	12008.35
46.70	11199.94	0.47	675.85	2.27	11934.26
46.80	11199.94	0.47	675.85	2.26	11859.83
46.90	11199.94	0.47	675.85	2.26	11786.86
47.00	11199.94	0.46	675.84	2.25	11714.30
47.10	11199.94	0.46	675.84	2.25	11641.09
47.20	11199.94	0.46	675.84	2.24	11567.62
47.30	11199.94	0.46	675.84	2.23	11495.20
47.40	11199.94	0.46	675.84	2.23	11422.79
47.50	11199.94	0.46	675.84	2.22	11351.74
47.60	11199.94	0.45	675.83	2.21	11281.63
47.70	11199.94	0.45	675.83	2.21	11212.20
47.80	11199.94	0.45	675.83	2.20	11143.22
47.90	11199.94	0.45	675.83	2.20	11074.08
48.00	11199.94	0.45	675.83	2.19	11006.54
48.10	11199.94	0.45	675.83	2.19	10939.32
48.20	11199.94	0.45	675.82	2.18	10873.26
48.30	11199.94	0.44	675.82	2.17	10807.81
48.40	11199.94	0.44	675.82	2.17	10742.96
48.50	11199.94	0.44	675.82	2.16	10678.26
48.60	11199.94	0.44	675.82	2.16	10613.62
48.70	11199.94	0.44	675.82	2.15	10548.81
48.80	11199.94	0.44	675.82	2.14	10484.47
48.90	11199.94	0.44	675.81	2.14	10420.59
49.00	11199.94	0.43	675.81	2.13	10356.67
49.10	11199.94	0.43	675.81	2.13	10293.09
49.20	11199.94	0.43	675.81	2.12	10229.15
49.30	11199.94	0.43	675.81	2.11	10166.19
49.40	11199.94	0.43	675.81	2.11	10104.46
49.50	11199.94	0.43	675.81	2.10	10044.13
49.60	11199.94	0.43	675.80	2.10	9983.79
49.70	11199.94	0.42	675.80	2.09	9926.05
49.80	11199.94	0.42	675.80	2.09	9867.64
49.90	11199.94	0.42	675.80	2.08	9809.32
50.00	11199.94	0.42	675.80	2.08	9751.78

50.10	11199.94	0.42	675.80	2.07	9694.59
50.20	11199.94	0.42	675.80	2.06	9637.82
50.30	11199.94	0.42	675.79	2.06	9581.45
50.40	11199.94	0.41	675.79	2.05	9524.95
50.50	11199.94	0.41	675.79	2.05	9469.12
50.60	11199.94	0.41	675.79	2.04	9413.57
50.70	11199.94	0.41	675.79	2.04	9358.00
50.80	11199.94	0.41	675.79	2.03	9306.00
50.90	11199.94	0.41	675.79	2.03	9252.69
51.00	11199.94	0.41	675.78	2.02	9199.47
51.10	11199.94	0.40	675.78	2.02	9145.93
51.20	11199.94	0.40	675.78	2.01	9093.55
51.30	11199.94	0.40	675.78	2.01	9041.46
51.40	11199.94	0.40	675.78	2.00	8989.67
51.50	11199.94	0.40	675.78	2.00	8939.10
51.60	11199.94	0.40	675.78	2.00	8888.60
51.70	11199.94	0.40	675.78	1.99	8838.04
51.80	11199.94	0.40	675.77	1.99	8788.26
51.90	11199.94	0.39	675.77	1.98	8738.45
52.00	11199.94	0.39	675.77	1.98	8686.88
52.10	11199.94	0.39	675.77	1.97	8637.01
52.20	11199.94	0.39	675.77	1.97	8589.63
52.30	11199.94	0.39	675.77	1.96	8541.86
52.40	11199.94	0.39	675.77	1.96	8493.71
52.50	11199.94	0.39	675.77	1.95	8448.17
52.60	11199.94	0.38	675.76	1.95	8401.20
52.70	11199.94	0.38	675.76	1.94	8353.85
52.80	11199.94	0.38	675.76	1.94	8306.68
52.90	11199.94	0.38	675.76	1.94	8259.94
53.00	11199.94	0.38	675.76	1.93	8213.71
53.10	11199.94	0.38	675.76	1.93	8167.46
53.20	11199.94	0.38	675.76	1.92	8121.25
53.30	11199.94	0.38	675.76	1.92	8075.68
53.40	11199.94	0.37	675.75	1.91	8029.94
53.50	11199.94	0.37	675.75	1.91	7984.74
53.60	11199.94	0.37	675.75	1.90	7941.42
53.70	11199.94	0.37	675.75	1.90	7897.45
53.80	11199.94	0.37	675.75	1.90	7853.98
53.90	11199.94	0.37	675.75	1.89	7809.26
54.00	11199.94	0.37	675.75	1.89	7766.87
54.10	11199.94	0.37	675.75	1.88	7724.20
54.20	11199.94	0.37	675.74	1.88	7682.61
54.30	11199.94	0.36	675.74	1.87	7640.86
54.40	11199.94	0.36	675.74	1.87	7600.30
54.50	11199.94	0.36	675.74	1.86	7559.42
54.60	11199.94	0.36	675.74	1.86	7517.98
54.70	11199.94	0.36	675.74	1.86	7476.38
54.80	11199.94	0.36	675.74	1.85	7435.51
54.90	11199.94	0.36	675.74	1.85	7394.94
55.00	11199.94	0.36	675.74	1.84	7353.62
55.10	11199.94	0.36	675.73	1.84	7313.53
55.20	11199.94	0.35	675.73	1.83	7273.98
55.30	11199.94	0.35	675.73	1.83	7235.77
55.40	11199.94	0.35	675.73	1.83	7196.66
55.50	11199.94	0.35	675.73	1.82	7157.46
55.60	11199.94	0.35	675.73	1.82	7119.53
55.70	11199.94	0.35	675.73	1.81	7082.28
55.80	11199.94	0.35	675.73	1.81	7044.33
55.90	11199.94	0.35	675.73	1.80	7006.42
56.00	11199.94	0.35	675.72	1.80	6968.64
56.10	11199.94	0.34	675.72	1.80	6930.08
56.20	11199.94	0.34	675.72	1.79	6891.10
56.30	11199.94	0.34	675.72	1.79	6853.58
56.40	11199.94	0.34	675.72	1.78	6817.79
56.50	11199.94	0.34	675.72	1.78	6782.19
56.60	11199.94	0.34	675.72	1.78	6746.43
56.70	11199.94	0.34	675.72	1.77	6710.60
56.80	11199.94	0.34	675.72	1.77	6674.31
56.90	11199.94	0.34	675.72	1.76	6638.02
57.00	11199.94	0.34	675.71	1.76	6602.70
57.10	11199.94	0.33	675.71	1.76	6567.17
57.20	11199.94	0.33	675.71	1.75	6532.79
57.30	11199.94	0.33	675.71	1.75	6497.48
57.40	11199.94	0.33	675.71	1.74	6463.32
57.50	11199.94	0.33	675.71	1.74	6430.17
57.60	11199.94	0.33	675.71	1.73	6398.23

57.70	11199.94	0.33	675.71	1.73	6366.33
57.80	11199.94	0.33	675.71	1.73	6333.74
57.90	11199.94	0.33	675.71	1.72	6301.53
58.00	11199.94	0.33	675.70	1.72	6270.20
58.10	11199.94	0.32	675.70	1.72	6237.87
58.20	11199.94	0.32	675.70	1.71	6205.15
58.30	11199.94	0.32	675.70	1.71	6173.15
58.40	11199.94	0.32	675.70	1.70	6141.49
58.50	11199.94	0.32	675.70	1.70	6109.46
58.60	11199.94	0.32	675.70	1.70	6077.64
58.70	11199.94	0.32	675.70	1.69	6046.32
58.80	11199.94	0.32	675.70	1.69	6016.85
58.90	11199.94	0.32	675.70	1.68	5986.80
59.00	11199.94	0.32	675.70	1.68	5956.26
59.10	11199.94	0.32	675.69	1.68	5926.59
59.20	11199.94	0.31	675.69	1.67	5897.17
59.30	11199.94	0.31	675.69	1.67	5867.45
59.40	11199.94	0.31	675.69	1.67	5838.25
59.50	11199.94	0.31	675.69	1.66	5808.66
59.60	11199.94	0.31	675.69	1.66	5778.72
59.70	11199.94	0.31	675.69	1.66	5749.85
59.80	11199.94	0.31	675.69	1.65	5720.74
59.90	11199.94	0.31	675.69	1.65	5691.90
60.00	11199.94	0.31	675.69	1.64	5664.07