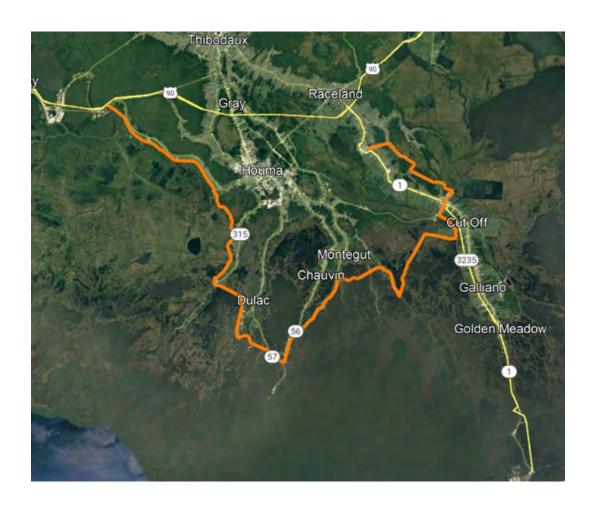
# MORGANZA TO THE GULF SURVEYS AND BORINGS ANALYSIS TERREBONNE AND LAFOURCHE PARISHES, LOUSIANA



**APPENDIX B: FIGURES** 

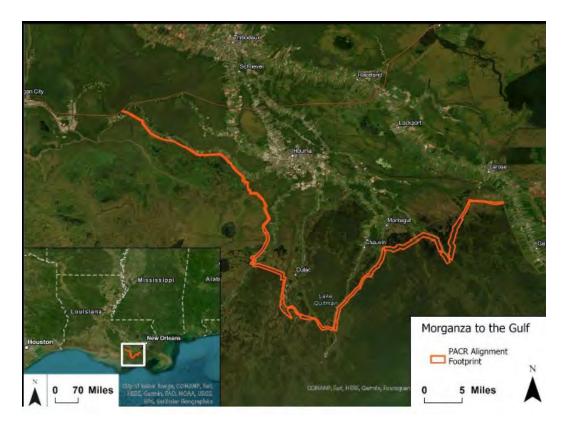


Figure 1: Authorized Morganza to the Gulf Alignment

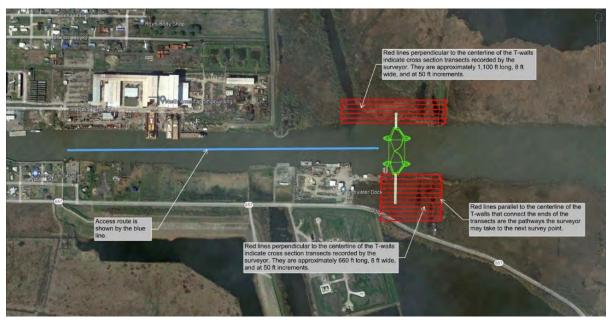


Figure 2: Overview of GIWW East Floodgate Survey Work Zone

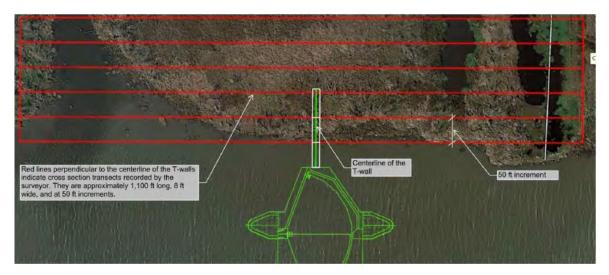


Figure 3: Details of GIWW East Floodgate Survey Work Zone



Figure 4: Overview of GIWW East Boring Work Zone

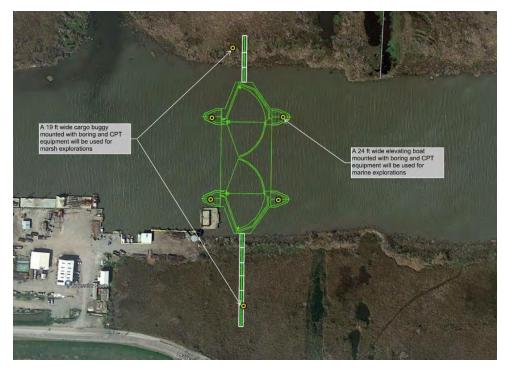


Figure 5: Details of GIWW East Boring Work Zone



Figure 6: Overview of GIWW East T-Wall and Levee Survey Work Zone



Figure 7: Survey Work Zone for T-wall and Levee

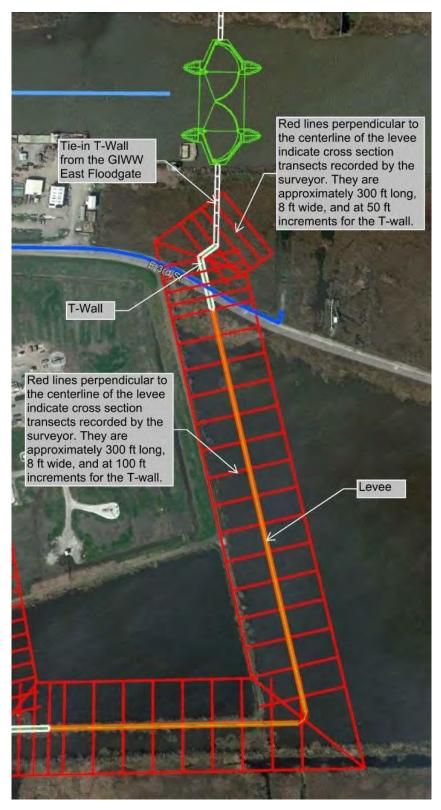


Figure 8: Survey Work Zone for GIWW T-Wall and Levee



Figure 9: Boring Locations for GIWW T-Wall and Levee



Figure 10: Boring Locations for GIWW T-Wall and Levee

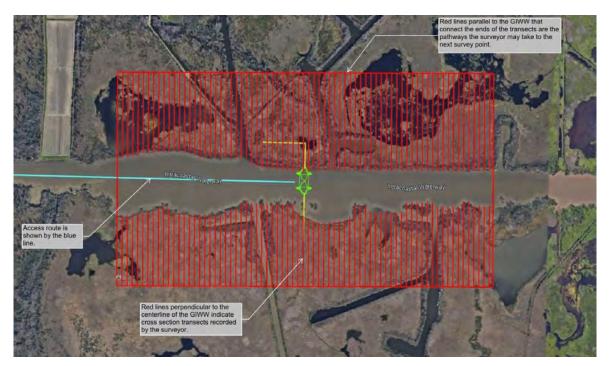


Figure 11: GIWW West Floodgate Survey Work Zone



Figure 12: GIWW West Floodgate Survey Work Zone



Figure 13: Boring Work Zone

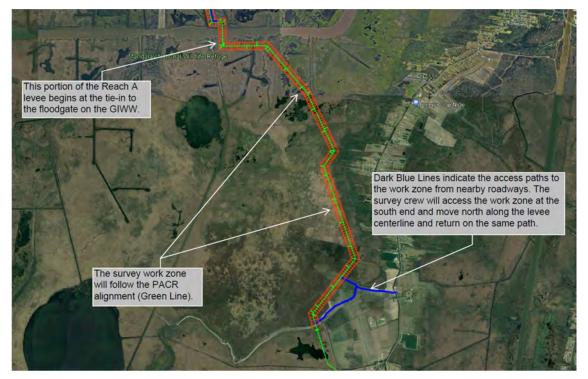


Figure 14: Overview of Survey Work Zone

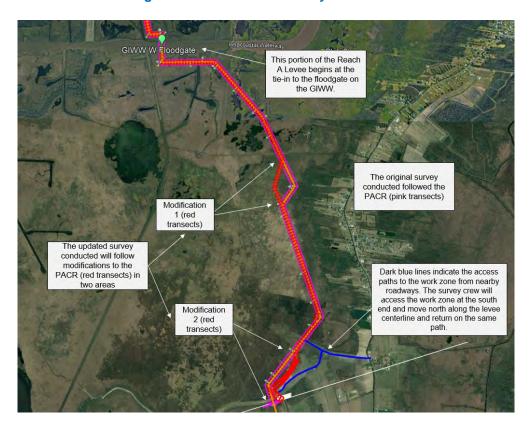


Figure 15: Survey Work within Modified PACR alignment

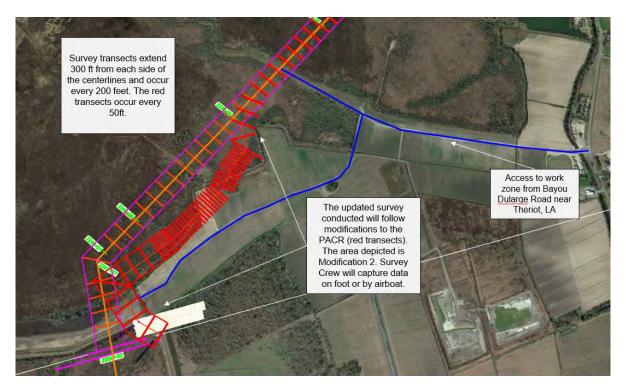


Figure 16: Details of Survey Work Zone

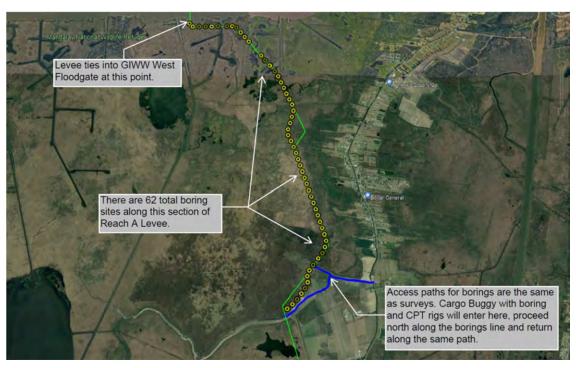


Figure 17: Overview of Borings Work Zone

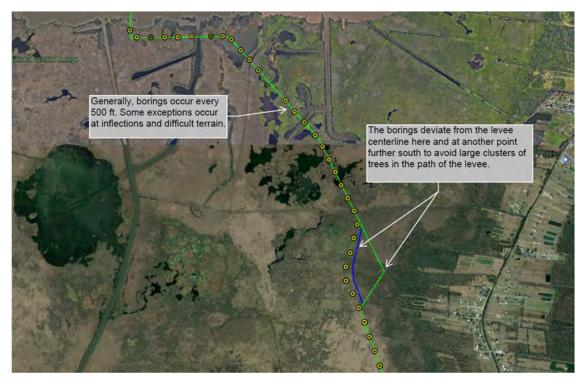


Figure 18: Details of Borings Work Zone

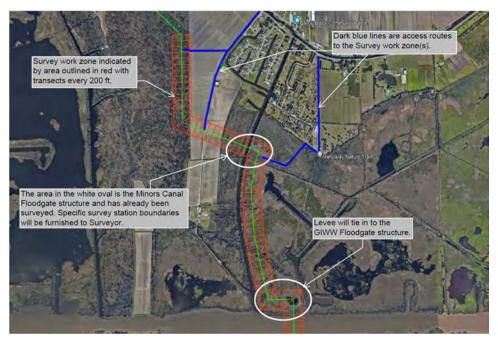


Figure 19: Overview of Survey Area



Figure 20: Details of Survey Area



Figure 21: Overview of Borings Area

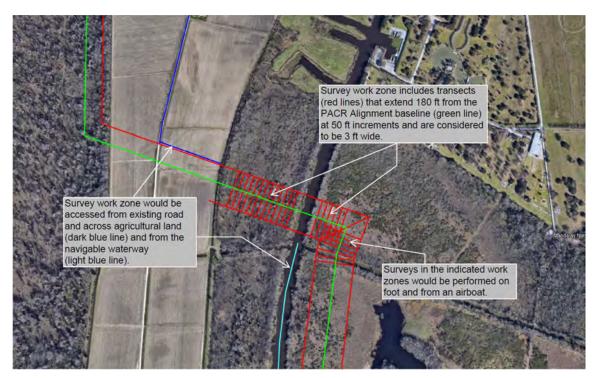


Figure 22: Overview of Survey Area

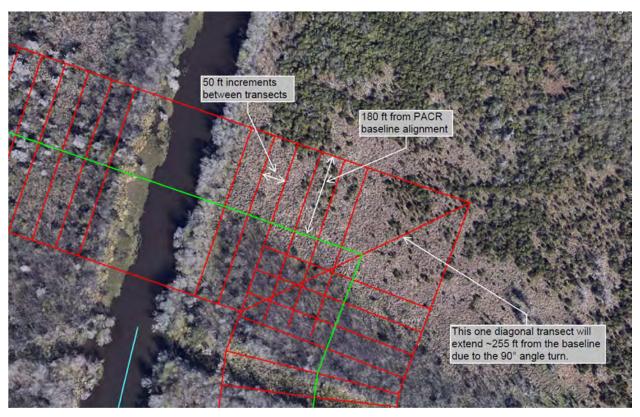


Figure 23: Details of Survey Area



Figure 24: Overview of Borings Area

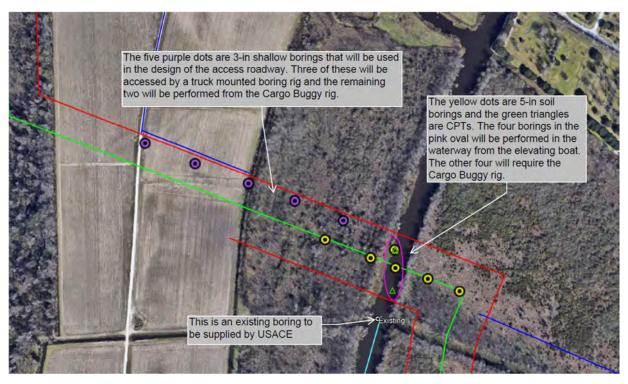


Figure 25: Details of Borings Area

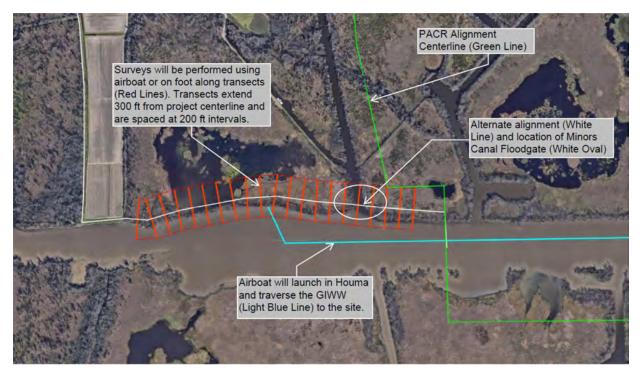


Figure 26: Overview of Survey Area



Figure 27: Overview of Borings Area

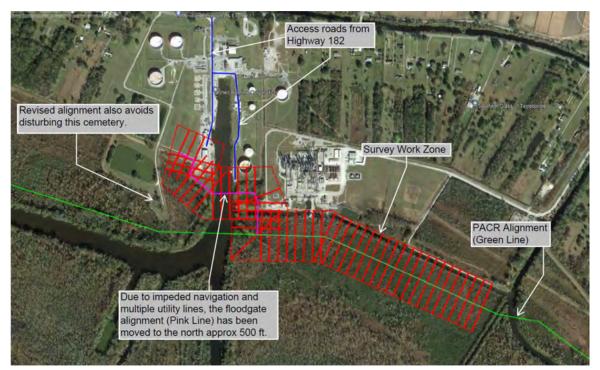


Figure 28: Overview of Survey Area

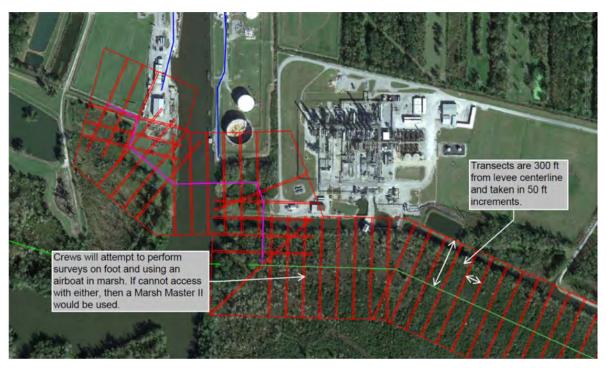


Figure 29: Details of Survey Area

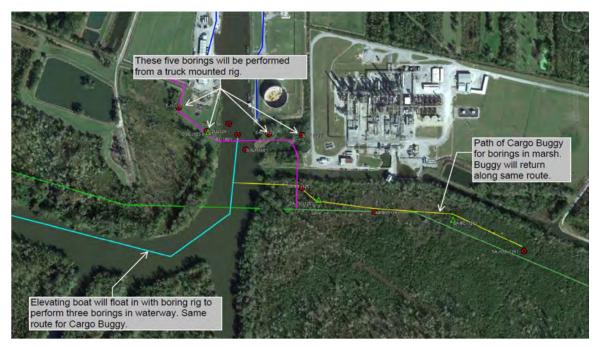


Figure 30: Overview of Boring Area

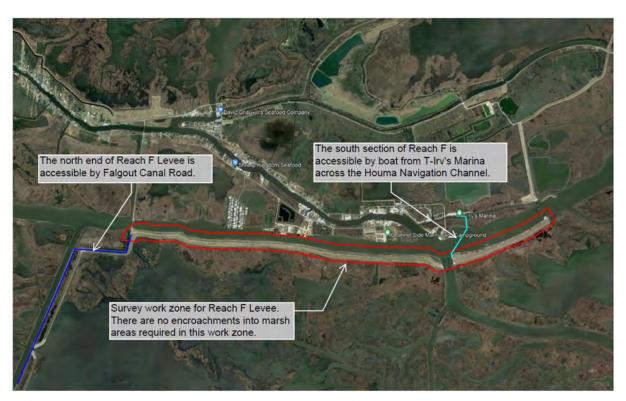


Figure 31: Overview of Survey Area



Figure 32: Overview of Boring Area



Figure 33: Overview of Boring Area



Figure 34: Overview of Boring Area



Figure 35: Overview of Survey Area



Figure 36: Details of Survey Area



Figure 37: Overview of Boring Area



Figure 38: Overview of Boring Area



Figure 39: Overview of Boring Area

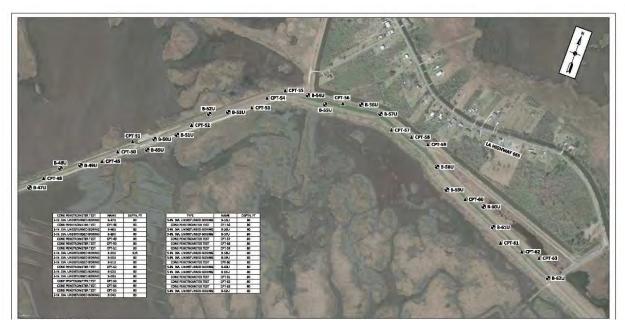


Figure 40: Overview of Boring Area

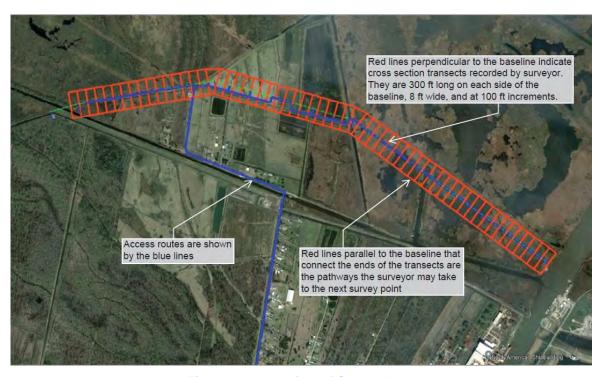


Figure 41: Overview of Survey Area



Figure 42: Details of Survey Work Zone

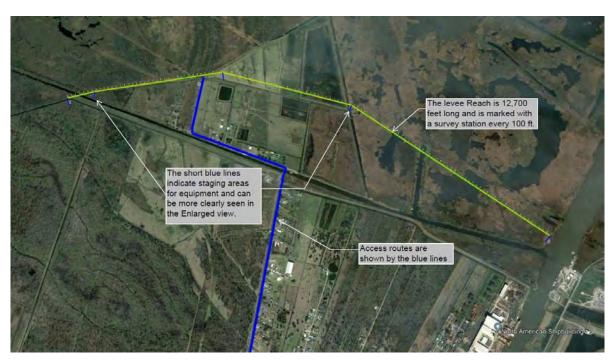


Figure 43: Overview of Boring Locations



Figure 44: Overview of Boring Locations by Equipment Type



Figure 45: Details of Boring Work Zone

### **CLIMATE AND CLIMATE CHANGE FIGURES**

# Annual-Mean 1-day Temperature

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 80 :2006 Simulated Temperature (F) 75 65 1950 1975 2000 2025 2050 2075 2100 Water Year - Linear Regression (Historical) Simulated Historical - Linear Regression (Future)-RCP 4.5 Simulated Future-RCP 4.5 Simulated Future-RCP 8.5 - Linear Regression (Future)-RCP 8.5

Figure 46: Annual Mean 1-day Temp - HUC 08090301 East Central LA Coastal

#### Annual-Maximum 1-day Temperature Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 110 :2006 Simulated Temperature (F) 100 90 1950 1975 2000 2025 2050 2075 2100 Water Year Simulated Historical - Linear Regression (Historical) Simulated Future-RCP 4.5 Linear Regression (Future)-RCP 4.5 Simulated Future-RCP 8.5 - Linear Regression (Future)-RCP 8.5

Figure 47: Annual Max 1-day Temp - HUC 08090301 East Central LA Coastal

### **Annual-Minimum 1-day Temperature**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios

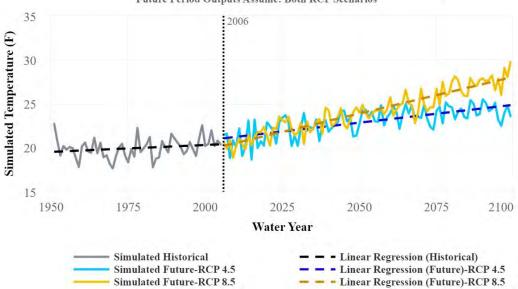


Figure 48: Annual Minimum 1-day Temp - HUC 08090301 East Central LA Coastal

# **Annual-Mean 1-day Temperature**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios

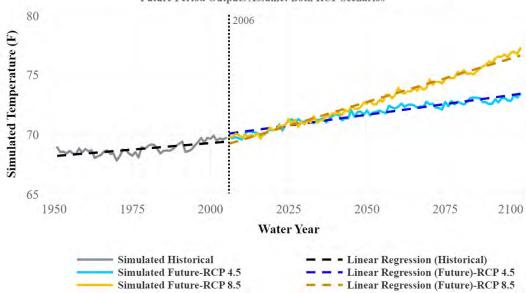


Figure 49: Annual Mean 1-day Temp - HUC 08090302 West Central LA Coastal

## Annual-Maximum 1-day Temperature

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 110 Simulated Temperature (F) 105 100 95 90 2025 1950 1975 2000 2050 2075 2100 Water Year Simulated Historical Linear Regression (Historical) Simulated Future-RCP 4.5 - Linear Regression (Future)-RCP 4.5

Figure 50: Annual Max 1-day Temp - HUC 08090302 West Central LA Coastal

- Linear Regression (Future)-RCP 8.5

- Linear Regression (Future)-RCP 8.5

Simulated Future-RCP 8.5

# **Annual-Minimum 1-day Temperature**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 30 2006 Simulated Temperature (F) 15 10 1950 1975 2000 2025 2050 2100 2075 Water Year Simulated Historical - Linear Regression (Historical) Simulated Future-RCP 4.5 Linear Regression (Future)-RCP 4.5

Figure 51: Annual Minimum 1-day Temp - HUC 08090302 West Central LA Coastal

Simulated Future-RCP 8.5

### **Annual-Accumulated Precipitation**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 75 2006 Simulated Precipitation (in) 70 60 55 50 1950 2025 2050 2100 1975 2000 2075 Water Year Simulated Historical Linear Regression (Historical) Simulated Future-RCP 4.5 Linear Regression (Future)-RCP 4.5

Figure 52: Annual Accumulated Precipitation - HUC 08090301 East Central LA Coastal

Linear Regression (Future)-RCP 8.5

Simulated Future-RCP 8.5

## Drought Indicator: Annual-Maximum of Number of Consecutive Dry Days

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios 18 :2006 Simulated Inter-Model-Mean 16 Number of Days 12 10 1950 1975 2000 2025 2050 2075 2100 Water Year Simulated Historical Linear Regression (Historical) Simulated Future-RCP 4.5 - Linear Regression (Future)-RCP 4.5 Simulated Future-RCP 8.5 Linear Regression (Future)-RCP 8.5

Figure 53: Annual Max Consecutive Dry Days - HUC 08090301 East Central LA Coastal

### **Annual-Maximum 1-day Precipitation**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios

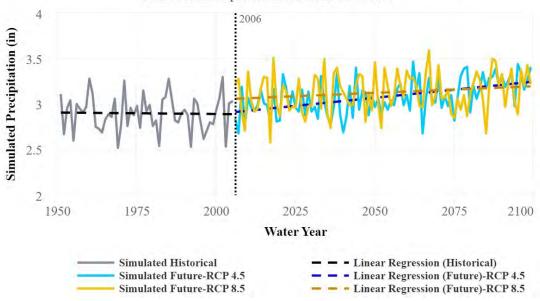
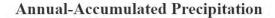


Figure 54: Annual Max 1-day Precipitation - HUC 08090301 East Central LA Coastal



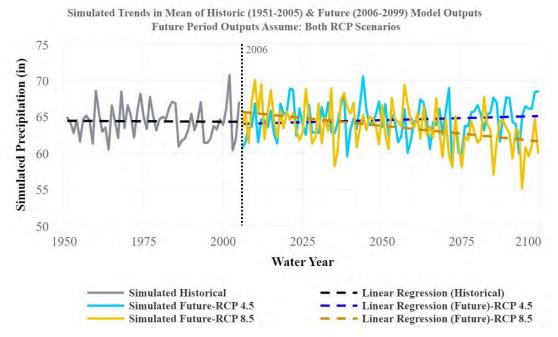


Figure 55: Annual Accumulated Precipitation - HUC 08090302 West Central LA Coastal

### Drought Indicator: Annual-Maximum of Number of Consecutive Dry Days

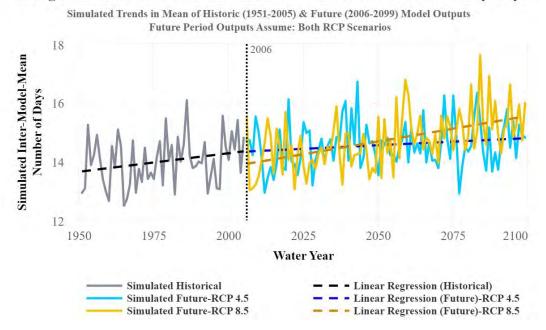


Figure 56: Annual Max Consecutive Dry Days - HUC 08090302 West Central LA Coastal

# **Annual-Maximum 1-day Precipitation**

Simulated Trends in Mean of Historic (1951-2005) & Future (2006-2099) Model Outputs Future Period Outputs Assume: Both RCP Scenarios

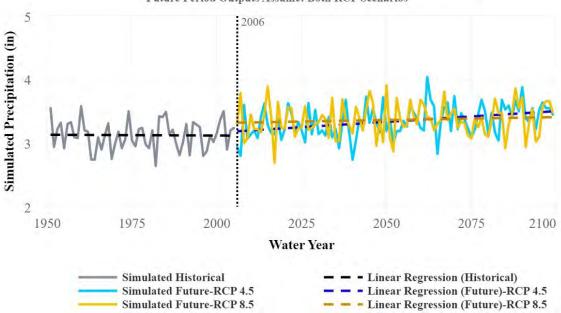


Figure 57: Annual Max 1-day Precipitation - HUC 08090302 West Central LA Coastal

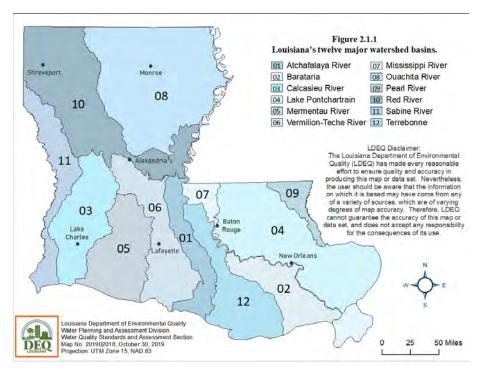


Figure 58: Louisiana Watersheds