

Table 18: Lower Rio Grande Region Previous Floodplain Studies and Models (§361.13(e)(2))

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| Study Name | Study Description | RFPG Number | RFPG Name | Counties | Municipalities | HUC8s | HUC10s | HUC12s | Watersheds | Study Sponsor (FEMA, TWDB, USACE, County, City, Developer, etc.) | Study Completion Date | Study Conditions (Existing, Future, Both) | Flood Risk Type (Riverine, Coastal, Urban/Local, Playa, etc.) | Annual Probability Studied (10%, 4%, 2%, 1%, 0.2%) | Hydrology Models Available (Yes, Presumed Yes, Presumed No, No, Unknown) | Hydraulic Models Available (Yes, Presumed Yes, Presumed No, No, Unknown) | How Study used in RFP (Mapping, Validation, Considered but not used, FMP, FMS, FME, etc.) | FEMA Status (FIS, FIS in Progress, Completed LOMC, LOMC in Progress, LOMC to be Pursued, Local Only) |
|--|--|-------------|------------------|---------------------------|---|-------|--------|--------|------------|--|-----------------------|---|---|--|--|--|---|--|
| Cameron County Drainage District #5 | Master Drainage Study | 15 | Lower Rio Grande | Cameron | Harlingen, La Feria | | | | | TWDB, Cameron County Drainage District #5 | 2019 | Existing, Future | Riverine | 1%, 0.2% | No | No | FMP | Local only |
| South Padre Island Phase 1 | Master Drainage Plan | 15 | Lower Rio Grande | Cameron | South Padre | | | | | South Padre | 2018 | Existing | Coastal | N/A | No | No | Considered but not used | Local only |
| Cameron County Storm Drainage Study Final Report | County wide study | 15 | Lower Rio Grande | Cameron | La Feria, Harlingen, Primera, Combes, Los Indios, Rangerville | | | | | Economic Development Administration | 2010 | Existing, Future | Riverine | 0.01 | No | No | Considered but not used | Local only |
| City of Harlingen Master Drainage Plan | Master Drainage Study | 15 | Lower Rio Grande | Cameron | Harlingen | | | | | Harlingen | 2008 | Existing, Future | Riverine, Urban/Local | 20%, 4% | No | No | FMP | Local only |
| Cameron County Drainage District #3 Flood Protection Plan | Flood Protection Study of District | 15 | Lower Rio Grande | Cameron | San Benito, Los Indios | | | | | TWDB | 2010 | Existing, Future | Riverine | 50%, 20%, 10%, 4%, 1% | No | No | FMPs | Local only |
| Cameron County Drainage District #5 Flood Protection Plan | Flood Protection Study of District | 15 | Lower Rio Grande | Cameron | Harlingen, Primera, Palm Valley, Combes | | | | | TWDB | 2008 | Existing, Future | Riverine | 50%, 20%, 10%, 4%, 1% | No | No | Considered but not used | Local only |
| Stormwater Drainage Planning, The Colonias of the Lower Rio Grande Valley (LRGV) | Plannign Study | 15 | Lower Rio Grande | Cameron, Hidalgo, Willacy | Various | | | | | TWDB | 2016 | Existing, Future | Riverine, Urban/Local | 10%, 4%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Hidalgo County Precinct 4 Master Drainage Study | Master Drainage Study | 15 | Lower Rio Grande | Hidalgo | Edinburg, McAllen | | | | | Hidalgo County Precinct 4 | 2021 | Existing, Future | Riverine | 10%, 4%, 2%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Pharr Master Drainage Plan | Master Drainage Study | 15 | Lower Rio Grande | Hidalgo | Pharr | | | | | Pharr | 2020 | Existing, Future | Riverine, Urban/Local | 10%, 2%, 1%, 0.2% | Yes | Yes | Mapping, FMPs | Local only |
| City of Mission Comprehensive Storm Drainage Assessment | Master Drainage Study | 15 | Lower Rio Grande | Hidalgo | Mission | | | | | Mission | 2020 | Existing, Future | Riverine, Urban/Local | Existing- 10%, 1%; Future- 4%, 2% | No | No | FMP | Local only |
| Weslaco Storm Water Improvement Plan | Master Drainage Study | 15 | Lower Rio Grande | Hidalgo | Weslaco | | | | | Weslaco | 2019 | Existing, Future | Riverine, Urban/Local | 10%, 2%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Hidalgo County Precinct 1 Drainage Assessment | Drainage Assessment of Precinct 1 after 2018 Storm | 15 | Lower Rio Grande | Hidalgo | Mercedes, Weslaco, Progreso, La Villa, Edcouch Elsa, Donna, Alamo | | | | | Hidalgo County Drainage District No. 1 | 2018 | Existing, Future | Riverine | 4%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Alton Master Drainage Plan | Master Drainage Study | 15 | Lower Rio Grande | Hidalgo | Alton | | | | | TWDB, Alton | 2018 | Existing, Future | Riverine, Urban/Local | 10%, 4%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Alamo Lateral Hydraulic Study Draft | Hydraulic Study | 15 | Lower Rio Grande | Hidalgo | Alamo | | | | | Hidalgo County Drainage District No. 1 | 2017 | Existing | Riverine | 4%, 1% | No | No | Considered but not used | Local only |
| IBTC/ SH365 Hydrologic Study | H&H Study for future Highway | 15 | Lower Rio Grande | Hidalgo | Hidalgo, Pharr, San Juan, Alamo, Donna | | | | | Hidalgo County Regional Mobility Authority | 2016 | Existing, Future | Riverine | 0.01 | No | No | Considered | Local only |

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| South Pharr Las Milpas Lateral Drainage Study | preliminary engineering study/ needs assessment | 15 | Lower Rio Grande | Hidalgo | Pharr | | | | | Hidalgo County Drainage District No. 1 | 2015 | Existing, Future | Riverine, Urban/Local | 4%, 1% | No | No | Considered but not used | Local only |
| Preliminary SH68 Hydrologic Study Segment D, Preliminary Draft | Preliminary Hydraulic Study for roadway | 15 | Lower Rio Grande | Hidalgo | Pharr, Edinburg | | | | | Hidalgo County Drainage District No. 1 | 2015 | Existing, Future | Riverine | 2%, 1% | No | No | Considered but not used | Local only |
| FM 676- Drainage Outfall Project From SSH107 - East to Taylor Rd. | Drainage Outfall Feasibility Report | 15 | Lower Rio Grande | Hidalgo | Mission | | | | | Hidalgo County Drainage District No. 1 | 2015 | Existing, Future | Riverine | 4%, 1% | No | No | Considered but not used | Local only |
| City of Edinburg Master Drainage Plan | Master Drainage Plan | 15 | Lower Rio Grande | Hidalgo | Edinburg | | | | | TWDB | 2015 | Existing, Future | Riverine, Urban/Local | 10%, 4%, 1% | Yes | Yes | Mapping, FMPs | Local only |
| Mission Inlet Recertification Project Existing Conditions | H&H Study for Recertification of Mission Inlet | 15 | Lower Rio Grande | Hidalgo | Mission, Palmhurst, McAllen | | | | | Hidalgo County Drainage District No. 1 | 2014 | Existing | Riverine | 0.01 | No | No | Considered but not used | Local only |
| La Joya Watershed Improvement Project, Penitas Basin | Preliminary Engineering report and H&H study | 15 | Lower Rio Grande | Hidalgo | La Joya | | | | | Hidalgo County Drainage District No. 1 | 2014 | Existing, Future | Riverine, Urban/Local | 0.01 | No | No | Considered but not used | Local only |
| Hydrologic & Hydraulic Study of the Pharr-McAllen South Drain | H&H study | 15 | Lower Rio Grande | Hidalgo | Pharr | | | | | Hidalgo County Drainage District No. 1 | 2014 | Existing, Future | Riverine, Urban/Local | 10%, 4%, 2%, 1%, 0.2% | No | No | Considered but not used | Local only |
| Spanish Palms Subdivision Outfall Improvemtns | Engineering Report | 15 | Lower Rio Grande | Hidalgo | Weslaco | | | | | Hidalgo County Drainage District No. 1 | 2013 | Existing, Future | Riverine | 0.2 | No | No | Considered but not used | Local only |
| San Juan Storm Drainage Master Plan | Master Drainage Plan | 15 | Lower Rio Grande | Hidalgo | San Juan | | | | | San Juan | 2010 | Existing | Riverine, Urban/Local | 10%, 1% | No | No | FMPs | Local only |
| J-09 Channel, North Main Drain to CR 3601 | Feasibility Study, Technical Memo | 15 | Lower Rio Grande | Hidalgo | Edinburg | | | | | Hidalgo County Drainage District No. 1 | 2009 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| East Lateral Preliminary Engineering Report Draft | Engineering Report | 15 | Lower Rio Grande | Hidalgo | Edcouch, La Villa | | | | | Hidalgo County Drainage District No. 1 | 2008 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| North Weslaco Outfall, FM1015 to IBWC Floodway | H&H Technical Memo | 15 | Lower Rio Grande | Hidalgo | Weslaco | | | | | Hidalgo County Drainage District No. 1 | 2008 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Preliminary Engineering Report Alamo Drain to Expressway Drain | Preliminary Engineering Report for new lateral ditch | 15 | Lower Rio Grande | Hidalgo | Alamo | | | | | Hidalgo County Drainage District No. 1 | 2007 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Jackson Drain Preliminary Engineering Report | Engineering Report | 15 | Lower Rio Grande | Hidalgo | Hidalgo | | | | | Hidalgo County Drainage District No. 1 | 2007 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |

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| Monte Cristo Outfall, Edinburg to South Main Drain | Preliminary Engineering Report | 15 | Lower Rio Grande | Hidalgo | Edinburg | | | | | Hidalgo County Drainage District No. 1 | 2007 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| South Fork Lateral Dainage Report | Engineering Report | 15 | Lower Rio Grande | Hidalgo | San Juan | | | | | Hidalgo County Drainage District No. 1 | 2006 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Hydrologic/Hydraulic Analysis Lateral Z-00-00 Bus-83 Outfall | H&H study | 15 | Lower Rio Grande | Hidalgo | Palmview, Mission | | | | | Hidalgo County Drainage District No. 1 | 2005 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Master Drainage System Phase II Flood Protection Plan for Precincts 1 & 4 | Preliminary Drainage Study | 15 | Lower Rio Grande | Hidalgo | Edinburg, McAllen, Pharr, Weslaco, Edcouch, Elsa, La Villa, Donna, Mercedes, Alamo | | | | | Hidalgo County Drainage District No. 1 | 2004 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Alamo Expressway Drain Ditch US Expressway 83 to IBWC Floodway Channel Engineering Report | H&H model of channel | 15 | Lower Rio Grande | Hidalgo | Alamo | | | | | Hidalgo County Drainage District No. 1 | 2002 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Request for Letter of Map Revision East Lateral Drain | LOMR Request | 15 | Lower Rio Grande | Hidalgo | La Villa | | | | | Hidalgo County Drainage District No. 1 | 2001 | Existing, Future | Riverine | 10%, 2%, 1%, 0.2% | No | No | Considered but not used | |
| Bentsen Palms Master Draiage Study | H&H model of channel | 15 | Lower Rio Grande | Hidalgo | Mission | | | | | Hidalgo County Drainage District No. 1 | 1999 | Existing, Future | Riverine | 10%, 4%, 2%, 1% | No | No | Considered but not used | Local only |
| La Villa Outfall, Preliminary Report | Preliminary Engineering Report | 15 | Lower Rio Grande | Hidalgo | La Villa | | | | | Hidalgo County Drainage District No. 1 | 2007 | Existing, Future | Riverine | 0.04 | No | No | Considered but not used | Local only |
| Ditch 023, US 83 in Mercedes, Texas to Arroyo Colorado | Preliminary Engineering Report | 15 | Lower Rio Grande | Hidalgo, Cameron | Mercedes, La Feria | | | | | Hidalgo County Drainage District No. 1 | 2016 | Existing, Future | Riverine | 0.095 | No | No | Considered but not used | Local only |
| Eagle Pass Drainage Master Plan | Master Drainge Study | 15 | Lower Rio Grande | Maverick | Eagle Pass | | | | | Eagle Pass | 2020 | Existing, Future | Riverine, Urban/Local | 10%, 4%, 1% | Yes | Yes | Mapping, FMPs | Local only |