The purpose of this presentation is to provide the Council with an update of drainage projects from January 2020 to present.

We have completed 29 projects, 13 under construction, and 19 in design for a total value of $106,375,000 (est.).

We will provide details of each subject projects. Furthermore, we will provide a status of on-going maintenance activities.
• LCG uses service requests, historical problem areas, and zones with numerous developments to prioritize areas for project identification.

• During this period:
  • Managed more than 2,000 service requests per year
  • Analyzed hydraulics of more than 90 locations for possible detention
  • Reviewed and considered more than 200 new developments each year
Regional Coordination

• Mayors Meeting - monthly meetings with area Mayors

• Parish-wide Stormwater Management meeting – bi-monthly meeting for Mayors, PW Directors, City Engineers, Drainage Staff, DOTD, APC, Teche-Vermilion Freshwater District, UL, Floodplain Managers

• Meetings include discussion and coordination of projects, concerns, funding and other related information
• Update FEMA model for Coulee Mine Branch effective May 13, 2022

• Region 5 LWI watershed models are in design

• Cumulative Dynamic Model (CDM) – is updated at the completion of a project, and replicates the impacts on a regional area

• Project-specific (individual) models are used to design projects when CDM is not feasible

• LWI, APC & LCG are installing a gauge network
Completed Maintenance Projects
• Regional

• Removing debris & siltation from 23 channels

• Totaling 130,769 linear feet

• Cost: $3,520,000

Channels Included:
- Bayou Carencro Lateral 6
- Coulee Mine West
- Queue de Tortue Lateral 6
- Edith Coulee Lateral 3
- Ile Des Cannes Lateral 8C
- Bayou Lasalle A Lateral 1
- Bayou Lasalle B
- Coulee Ile des Cannes Lateral 17
- Edith Coulee
- Indian Bayou Lateral 7
- Coulee Ile Des Cannes
- Coulee des Poches
- Coulee Ile Des Cannes Lateral 10
- Bayou Carencro Lateral 8A
- Coulee Ile Des Cannes Lateral 13
- Coulee Ile Des Cannes Lateral 19c
- Coulee Mine West Lateral 6
- Darby Coulee
- Bayou Lasalle B
- Bayou Parc Perdue Lateral 1 (upper)
- Coulee Granges Lateral 1A
- Indian Bayou
- Durke Road Outfall
Vermilion Emer. Debris/Subsurface Removal

• Regional

• Removing debris, vegetation & siltation in navigable areas

• Cost: $750,000
Derby Heights Drainage Improvements

- Local
- Driveway culverts/regrade ditches
- Cost: $245,000
Coulee Ile Des Cannes, Lat 7 – Curran/Dulles

- Local
- Remove debris/blockages & regrade channel
- Cost: $440,000
Completed Detention Projects
Middlebrook Detention Pond

• Regional

• Flood risk reduction to Isaac Verot Coulee L7 drainage basin via detention pond

• Cost: $617,000
Camellia Blvd Ponds Renovations

- Regional

- Flood risk reduction to Isaac Verot Coulee L7 drainage basin via increasing detention ponds volume

- Cost: $210,000
Musique Road Detention

- Regional

- Flood risk reduction in Beau Bassin Coulee drainage basin via detention pond

- Cost: $28,500
• Local

• Stormwater retrofit demonstration project to enhance water quality

• Cost: $49,000
• Regional

• Flap gates on existing culverts into Dan Debaillion preventing backflow within the floodplain

• Cost: $55,000
Heymann Park/Spreficco Lake Flood Control

- Local

- Flood risk reduction to Bayou Vermilion drainage basin via detention pond

- Cost: $35,000
Completed Conveyance Projects
Coulee Ile Des Cannes Drainage Improvements (Fenetre to Old Spanish Trail – Gustav/Ike Grant)

• Regional

• Reshape channel to increase volume & reduce water surface elevation

• Cost: $4,250,000
North Williams Drive Drainage Imp-CDBG

- Local
- Replace culverts/regrade ditches
- Cost: $186,000
Bayou Carencro L8-C Drainage Imp-CDBG

- Local
- Increase pipe system & regrade channel
- Cost: $175,000
2021 Emergency Project – Add Inlet Capacity

- Local
  - Arlette
  - Billie Lou @ Domas
  - 300 Blk Beverly
  - 800 Blk Brentwood

- Cost: $396,000
• Local
• Add inlets & outfall
• Cost: $166,000
• Local

• Increase pipe capacity

• Cost: $130,000
• Local

• Add catch basins along roadway

• Cost: $275,000
Girard Park Dr. Emer. X Drain Replacement

• Local

• Improve drainage via replacement of collapsed cross drain

• Cost: $486,000
Sunbeam Coulee, Ph II-A (Bruson-Cameron)

- Local
- Increase channel capacity & efficiency
- Cost: $1,972,000
• Regional

• Remove some of the spoil bank to allow more efficient transfer of flow in and out of Cypress Island Swamp

• Cost: $3,600,000
Under Construction Maintenance Projects
Maintenance of Drainage Systems Contract #16

- Regional
- Removing debris & siltation from 5 channels
- Cost: $628,000
- Totaling 17,546 linear feet

Channels Included:
- Issac Verot Coulee
- Bayou Parc Perdue
- Acadiana Coulee
- Coulee des Poche L1
- Bristol Drive Outfall
• Local

• Reduce residential flood risk via floodwall

• Cost: $997,000
Under Construction Detention Projects
• Regional

• Flood risk reduction to Bayou Vermilion & Coulee Ile Des Cannes drainage basins via 100+ acres of detention ponds

• Cost: $27,000,000
Bayou Vermilion Flood Control (CIDC)

- Regional

- Flood risk reduction to Coulee Ile des Cannes & Bayou Vermilion drainage basins via 90 acres of detention ponds

- Cost: $11,000,000
• Regional

• Detention pond along Bayou Vermilion

• Cost: $890,000
Coulee Ile des Cannes L-17 Detention Pond

- Regional
- Detention pond along Coulee Ile des Cannes lateral
- Cost: $1,000,000
Downtown Drainage Improvements Phase I

- Local
- Installation of subsurface surge basin
- First of a multi-phase project to address Downtown flooding
- Cost: $650,000
Under Construction Conveyance Projects
Walker Road Drainage, Phase I (Roadside)

- Local

- Improve drainage via installation of box culverts/concrete vertical wall channel extension

- Extension of project planned with $1,600,000 from emergency funding

- Cost: $4,400,000
Nottingham Drainage Improvements (Raintree Coulee)

- Local
- Improve channel via subsurface drainage and matting
- Cost: $1,150,000
Coulee Ile Des Cannes Drainage Improvements (Dulles to Fenetre) (HMGP and State-wide Flood Control Program)

- Regional
- Reshape channel to increase capacity
- Cost: $3,000,000
• Local
• Adding inlet capacity
• Cost: $47,500
2021 Emergency Project - Canadian Heights

- Local
- Improve drainage outfall
- Cost: $227,000
2021 Emergency Project – Zion Circle

• Local

• Improve drainage outfall

• Cost: $250,000
Maintenance Projects in Design
• Regional

• Removing debris & siltation from 7 channels

• Cost: $1,100,000 (est.)

• Totaling 24,540 linear feet

<table>
<thead>
<tr>
<th>Channels Included:</th>
<th>Gordon Crocket Outfall</th>
<th>Constitution Outfall</th>
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<tbody>
<tr>
<td>Beau Bassin</td>
<td>Anselm Coulee Lateral 3</td>
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<tr>
<td>Coulee Mine East</td>
<td>Indian Bayou L1</td>
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<tr>
<td>Indian Bayou L1</td>
<td>Coulee Bend Lateral 1</td>
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</tr>
</tbody>
</table>
Bayou Vermilion Spot Dredging

- Regional
- Removing silt & debris from Bayou Vermilion
- Cost: $1,000,000 (est.)
Detention Projects in Design
• Regional

• Flood risk reduction to Coulee Mine East via detention ponds

• Cost: $3,600,000 (est.)
Webb Coulee Detention

- Regional

- Flood risk reduction to Webb St. & 16th St. Coulees via detention ponds

- Cost: $2,100,000 (est.)
River Oaks Subdivision Detention Phase 2

- Local
- Flood risk reduction via detention pond
- Cost: $500,000 (est.)
Acadiana Park Detention, Phase 2

- Regional

- Affect efficiency of stormwater exchange in Vermilion & Dan Deballion drainage basin

- Cost: $350,000 (est.)
• Local/Regional

• Flood risk reduction to Bayou Carencro drainage basin via detention ponds

• Cost: $7,000,000 (est.)
Lake Farm Road Detention Phase 2

• Regional/Local

• Flood risk reduction to Isaac Verot Coulee L7 drainage basin (Ashland Park, King’s Haven, Comeaux HS) by increasing flood storage capacity

• Cost: $2,800,000 (est.)
Digby Avenue Retention/Detention Pond

- Regional

- Flood risk reduction to Isaac Verot Coulee L7 drainage basin by increasing flood storage capacity

- Cost: $2,000,000 (est.)
Conveyance Projects in Design
Millcreek Drainage Improvements

• Local

• Improve outfall & pipe system

• Cost: $1,750,000 (est.)
Peck Villa Subdivision Drainage Improvements

• Local

• Redirect water to alternate outfall via subsurface system

• Cost: $450,000 (est.)
Mill Valley Run Improvements

- Local
- Add secondary outfall
- Cost: $250,000 (est.)
Greenbriar Phase I Drainage Improvements

- Local

- Add inlets and outfall/redirect stormwater

- Cost: $400,000 (est.)
Timberwood Drainage Improvements

- Local

- Add inlets and outfall/redirect stormwater

- Cost: $400,000 (est.)
Bell North Heights Drainage Improvements

- Local
- Create new outfall for flood risk reduction
- Cost: $800,000 (est.)
• Local

• Evaluate pump capacity for upgrades

• Cost: $250,000 (est.)
Gerald Drive Coulee Phase

- Local
- Sub-surfacing ditch/lowering cost of maintenance/increasing conveyance
- Cost: $500,000 (est.)
Downtown Drainage Improvements Multi-phase

- Local
- Installation of subsurface surge basin
- First of 8-10 phases to address Downtown flooding
- Cost: $12,000,000 (est.)
Camellia/Verot Sub-Surface System Weir

- Local
- Installation of weir outfall to add detention volume to sub-surface drainage system
- Cost: $300,000 (est.)
Service Requests via 311

- **2020**
  - 1,830 Total service requests
  - 1,624 Closed

- **2021**
  - 2,324 Total service requests
  - 1,717 Closed

- **2022 (as of 4/29)**
  - 444 Total service requests
  - 231 Closed
LCG Crews:

- 436,450 ft of roadside ditch excavation
- 220,550 ft of culverts flushed
- 5,410 ft of culvert installation
- 4 roadside crews and 4 flusher crews
Roadside Excavation and Sub-Surface Flushing

- Contracted in November 2021
- 79,350 ft of roadside ditch excavation
- 50,700 ft of culverts flushed
- Currently ongoing as part of the Recurring Roadside Maintenance Plan
Concrete Channels

- Removed debris and siltation from 21 channels
- Cost: $1,155,000
Earthen Channels

- Removed debris & siltation from 19 channels
- Totaling 31,295 ft

### Coulee Name

<table>
<thead>
<tr>
<th>Channel</th>
<th>Coulee Name</th>
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<tbody>
<tr>
<td>W13 Bayou St., Clair L4/L18/L18</td>
<td>Bristol Dr. Outfall</td>
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<td>Kyle St. Outfall</td>
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<td>W10 Coulee Mine (West) L4</td>
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<td>W16 Beau Basin L1</td>
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<tr>
<td>Flanders Garden Outfall</td>
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<td>W15 Countryview Outfall</td>
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<td>Riverwoods Outfall</td>
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<td>Durke Rd. Outfall</td>
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<tr>
<td>W26 Indian Bayou L7G</td>
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<tr>
<td>W5 Coulee Iles des Cannes (West)</td>
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<tr>
<td>W2 Anselm Coulee L6</td>
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<tr>
<td>W21 Coulee La Salle L2A-1</td>
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<tr>
<td>W6 Isaac Verot L-1</td>
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<tr>
<td>W6 Isaac Verot L-1A</td>
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<tr>
<td>W5 Coulee Iles des Cannes L-6</td>
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</table>
Since January 2020, LCG has **completed $17,585,500** in construction projects.

LCG is currently **building $51,239,500** and **designing $37,550,000** of projects.

The Drainage Dept. has **cleaned more than 156 miles of drainage** systems.
Questions/Comments