



# Update of FY15 Major Projects

- **Capital Projects**
- **Maintenance, Repair and Replacement Projects**
- **Major Operations & Maintenance Projects**
- **Water & Sewer**
- **Other Upcoming Projects & Issues**



# FY15 Major Projects (CIP)

FY2015 CIP Projects	Project Type	Year Initiated	Previous Allocation	FY2015 Allocation	Total Allocated
JRWA - Raw Water Uptake (Funding & Admin)	CAP	FY2015	\$ 0	\$ 2,750,000	\$ 2,750,000
Zion Crossroads CPA - Public Water & Sewer Systems	CAP	FY2014	\$ 575,000	\$ 4,075,000	\$ 4,650,000
Library & Public Safety Buildings - Lighting Improvements	CAP	FY2015	\$ 0	\$ 39,000	\$ 39,000
Zion Crossroads CPA - Phase 1 Hydrogeologic Study	CAP	FY2014	\$ 50,000	\$ 0	\$ 50,000
General - Elevator Repairs	CAP	FY2014	\$ 28,000	\$ 0	\$ 28,000
Library & Public Safety Building - Potable Water System	CAP	FY2015	\$ 0	\$ 45,000	\$ 45,000
General - Move MACAA & Space Utilization Project	MRR	FY2014	\$ 50,000	\$ 75,000	\$ 125,000
<b>Carysbrook - Field Lighting Electrical Improvements</b>	<b>MRR</b>	<b>FY2014</b>	<b>\$ 37,000</b>	<b>\$ 0</b>	<b>\$ 37,000</b>
Administration Building - Exterior Repairs	MRR	FY2015	\$ 0	\$ 38,750	\$ 38,750
Convenience Center - Replace Office Trailer	MRR	FY2015	\$ 0	\$ 22,000	\$ 22,000
Community Center - Replace Roof	MRR	FY2015	\$ 0	\$ 62,620	\$ 62,620



# FY15 Major Projects (O&M)

<b>FY2015 Operations &amp; Maintenance Projects</b>	<b>Project Type</b>	<b>FY2015 Budget</b>
Courthouse Building - New HVAC Controls	O&M	\$ 17,500
<b>Pleasant Grove - Electric Service Improvements</b>	<b>O&amp;M</b>	<b>\$ 4,000</b>
Pleasant Grove - Signage Plan *	O&M	\$ 15,000
Administration Building - Repair Leaking Elevator Pit	O&M	\$ 3,500
Carysbrook & Fork Union - Signage Plan	O&M	\$ 15,000
Public Safety Building - Relocate Generator	O&M	\$ 18,000
Administration Building - Flooring Repairs	O&M	\$ 4,000
Public Safety Building - Repair/Replace Sidewalks	O&M	\$ 5,900



# Projects Timeline Tracking

Project Name	Project Type	Start	Finish	Timeline											
				Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15
<b>FY2015 - Major Public Works Projects</b>		7/1/2014	6/30/2015	[Green bar spanning Jul '14 to Jun '15]											
JRWA - Raw Water Uptake (Funding & Admin)	CAP	7/1/2014	6/30/2015	[Grey bar spanning Jul '14 to Jun '15]											
Zion Crossroads CPA - Public Water & Sewer Systems	CAP	7/1/2014	6/30/2015	[Grey bar spanning Jul '14 to Jun '15]											
Library & Public Safety Buildings - Lighting Improvements	CAP	8/1/2014	10/31/2014	[Grey bar spanning Aug '14 to Oct '14]											
Zion Crossroads CPA - Phase 1 Hydrogeologic Study	CAP	8/1/2014	12/31/2014	[Grey bar spanning Aug '14 to Dec '14]											
General - Elevator Repairs	CAP	9/15/2014	1/31/2015	[Grey bar spanning Sep '14 to Jan '15]											
Library & Public Safety Building - Potable Water System	CAP	1/1/2015	6/30/2015	[Grey bar spanning Jan '15 to Jun '15]											
General - Move MACAA & Space Utilization Project	MRR	7/1/2014	12/31/2014	[Grey bar spanning Jul '14 to Dec '14]											
Carysbrook - Field Lighting Electrical Improvements	MRR	7/7/2014	7/31/2014	[Green bar spanning Jul '14 to Jul '14]											
Administration Building - Exterior Repairs	MRR	9/1/2014	11/30/2014	[Grey bar spanning Sep '14 to Nov '14]											
Convenience Center - Replace Office Trailer	MRR	10/1/2014	12/31/2014	[Grey bar spanning Oct '14 to Dec '14]											
Community Center - Replace Roof	MRR	4/1/2015	6/30/2015	[Grey bar spanning Apr '15 to Jun '15]											
Courthouse Building - New HVAC Controls	O&M	7/1/2014	9/30/2014	[Green bar spanning Jul '14 to Sep '14]											
Pleasant Grove - Electric Service Improvements	O&M	7/1/2014	7/31/2014	[Green bar spanning Jul '14 to Jul '14]											
Pleasant Grove - Signage Plan	O&M	7/1/2014	9/30/2014	[Green bar spanning Jul '14 to Sep '14]											
Administration Building - Repair Leaking Elevator Pit	O&M	8/1/2014	11/30/2014	[Grey bar spanning Aug '14 to Nov '14]											
Carysbrook & Fork Union - Signage Plan	O&M	10/1/2014	12/31/2014	[Grey bar spanning Oct '14 to Dec '14]											
Public Safety Building - Relocate Generator	O&M	10/1/2014	11/30/2014	[Grey bar spanning Oct '14 to Nov '14]											
Administration Building - Flooring Repairs	O&M	4/1/2015	6/30/2015	[Grey bar spanning Apr '15 to Jun '15]											
Public Safety Building - Repair/Replace Sidewalks	O&M	4/1/2015	5/31/2015	[Grey bar spanning Apr '15 to May '15]											



## **Water & Sewer Projects Update**

- **Preliminary Engineering is underway on Zion Crossroads Water & Sewer System – RK&K**
- **The Phase 1 Hydrogeologic Study for the Zion Crossroads Area is underway – Draper Aden**
- **Water Quality Sampling & Preliminary Yield Testing of the County-owned Carysbrook Well is Scheduled for the Week of September 15-19, 2014**
- **Staff is developing a Scope of Work for a project to create a County-wide “Water & Sewer Master Plan”**



# Zion Crossroads Water & Sewer

## Preliminary Engineering Report (PER) Considerations

- **Demand Projections – Current Land Use, Comp Plan**
  - Short & Medium Term (0-10 years)
  - Long Term ( 10-20+ years)
- **Water Source Options**
  - Groundwater – Existing Wells, New Wells, Louisa County
  - Surface water -
    - Department of Corrections – Existing & Expansion
    - James River – through Louisa County?
    - James River – New Fluvanna WTP



# Zion Crossroads Water & Sewer (cont.)

- **Water Distribution System Options -**
  - Connection to DOC
  - Connection to Louisa County Water Authority (LCWA) System
  - Water System Modeling
  - Storage & Fire Flow Needs
  - Line Sizes
  - Tie-In of New Wells



# Zion Crossroads Water & Sewer (cont.)

- **Wastewater Treatment Options -**
  - Department of Corrections WWTP
    - Existing & Expansion
  - LCWA WWTP
    - Temporary Allocation & Permanent Allocation
  - New Fluvanna WWTP –
    - Surface Water Discharge – Nutrient Allocation, Nutrient Offsets
    - Subsurface Soil Disposal – Suitable Soils, Size , Location
  - Reuse
- **Wastewater Collection & Conveyance -**
  - Connection to Department of Corrections
  - Connection to LCWA System
  - Gravity Sewers, Pump Stations, Low Pressure Force Mains



# Zion Crossroads Phase 1 Hydro-Study

- **Scope of Work**

- Review of Existing Available Data and Literature
- Mapping & Field Reconnaissance of Potential Well Locations
- Fracture Trace Analysis of Potentially Suitable Locations
- Produce Phase 1 Report with Recommendations
- Meet with County to Choose “Top 3” Sites
- Geophysical Evaluation of Top 3 Sites
- Final Report



## Other Projects & Issues for Discussion

- **Fork Union Streetscape Project**
- **Pleasant Grove House Completion**
- **Pleasant Grove Water Issues**
- **Pleasant Grove Outdoor Stage**
- **Upcoming Major CIP/MRR Issues**
- **Others?**



**Questions?**