



2016 -2017

*Capital Improvement
Plan*

Adopted December 7, 2015

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SECTION I - INTRODUCTION

The North Harris County Regional Water Authority (the “Authority”) was created by the 76th Texas Legislature in 1999 and confirmed by a special public election in 2000. The Authority’s mission included finding and assuring a long-term supply of quality drinking water at the lowest responsible cost. The new entity was also charged with promoting water conservation, as well as maintaining regulatory compliance. This last assignment was critical because the Harris-Galveston Subsidence District (the “HGSD”) had published its 1999 Regulatory Plan requiring our area *to reduce groundwater withdrawals to no more than 20 percent of total water demand by the year 2030*. Since no individual MUD or well owner had the ability to convert to surface water on their own, the Authority became the single entity to negotiate for a secure, long-term supply of drinking water for all the municipal utility districts, small municipalities and other permitted well owners within its boundaries. Perhaps the most critical task was to develop and construct the infrastructure to bring that water to the subdivisions within the boundaries of the Authority. The Authority was not given taxing ability; rather funding for the conversion to surface water comes from pumpage fees charged to the well owners and the sale of surface water.

Several disincentives were built into the HGSD Regulatory Plan, including a \$3.00/1,000 gallons (groundwater pumped) “penalty” fee that would be triggered: 1) If the Groundwater Reduction Plan (the “GRP”) was not submitted and certified according to the timeline; 2) If construction had not begun on the surface water delivery infrastructure by 2005; and 3) If the mandated groundwater pumpage reductions were not accomplished within the 2010, 2020 and 2030 timelines. (This disincentive fee was later raised to \$7.00/1,000 gal.) The Authority has met all of the applicable deadlines to date.

As the GRP was being developed, it became apparent that some water districts within the Authority were experiencing difficulty with either water quality or water quantity to meet accelerating demand. These districts would soon be forced to decide whether or not to drill a new well -- sometimes at a cost of more than a million dollars -- that may be minimally used once the area converted to surface water in 2010.

From the outset, the Authority’s cornerstone precept was fairness and equity among all water users within its boundaries, and promised that the overall cost of accommodating the HGSD mandate would be shared by everyone. Random drilling of new wells that were not ideally positioned to be incorporated into the long term distribution system was clearly not cost-effective. Recognizing this, the Authority initiated a bold new strategy to share existing groundwater supplies by ‘connecting’ the districts that had surplus capacity in their wells with the ones that needed additional water immediately. This innovative solution – called the Groundwater Transfer Program (the “GTP”) – involved constructing portions of the 2010 distribution lines significantly earlier than originally planned. The necessary components of the GTP were completed and the GTP was placed in operation in January 2006. After very successfully meeting its intended purpose, the GTP ended in June 2010 with the conversion to surface water by the involved districts.

The Authority’s system was ready to begin delivering surface water in September 2009. However, the first districts did not begin to take surface water until February 2010. The remaining districts

scheduled to receive surface water continued to come online as their chloramination facilities were ready with the last district coming on line in March 2011.

In 2003, the Authority adopted its initial **Capital Improvement Plan** (“CIP”) for years 2004-2005. The primary focus of that CIP, and the one following it, was to define and construct the infrastructure necessary to launch the GTP. Subsequent plans expanded on this foundation by outlining and implementing a broad-based program to provide the remainder of the infrastructure necessary to enable the initial conversion to surface water in 2010. The 2016-2017 Capital Improvement Plan (the “2016-2017 CIP”) provides for enhancements to the 2010 system to facilitate a continuous satisfactory level of conversion to surface water and focuses on the planning and initial development of the infrastructure, especially those requiring coordination with other regional water providers and long delivery periods, needed to meet the HGSD 2025 conversion mandate.

The HGSD updated its Regulatory Plan (“Plan”) in January 2013. The updated Plan extended the 2020 and 2030 conversion deadlines each back five years to 2025 and 2035 respectively. Also the conversion requirements were reduced to 60% in 2025 and set at 80% for 2035. Additionally, existing certified GRPs were required to incorporate any changes required by the updated Regulatory Plan and be resubmitted for certification no later than July 1, 2014. The Authority submitted its updated GRP to the HGSD on June 26, 2014. The HGSD approved the Authority’s updated GRP October 14, 2015. The 2016-2017 CIP defines the initial components of the plan detailed in the Authority’s updated GRP needed to facilitate continued compliance with the HGSD’s conversion requirements.

SECTION II – THE 2016-2017 CAPITAL IMPROVEMENT PLAN

Overview

The 2016-2017 CIP continues the systematic planning and development process that began when the Authority's Board adopted the Authority's first CIP in 2003. The primary focus of the 2016-2017 CIP is to continue the planning and development of the infrastructure required to enable the Authority to meet the HGSD's 2025 conversion requirement.

Significant activities addressed in the 2016-2017 CIP are:

- Continue evaluating the need for additional regional water wells and enhancements to the 2010 system and take necessary efforts to optimize use of the system.
- Provide infrastructure to areas adjacent to the 2010 service area to facilitate continued compliance with HGSD mandates.
- Continue the planning and design and initiate construction of the 2025 distribution system.
- Finalize the alignment of the portion of the 2025 transmission line, which lies generally north of Beltway 8 from just west of IH 45 to just west of State Highway 249, initiate securing the necessary easements and design.
- Initiate design of the initial phase of the State Hwy. 249 Regional Pump Station.
- Identify and purchase the sites for the 2025 regional pump station and 2035 regional water plant.
- Provide initial funding for the Authority's share of the major expansion of the Northeast Water Purification Plant (the "NEWPP").
- Provide funding for the Authority's share of the cost of Major Rehabilitation, reconstruction and upgrading of the existing NEWPP.
- Provide funding for the Authority's share of the cost for acquisition of real estate and the design of the proposed joint transmission line from the NEWPP site to the Authority's proposed 2025 transmission line.
- Pay the Authority's portion of the initial loan costs for the Luce Bayou Interbasin Diversion Project.
- Provide funding for the Chloramination Credit.
- Provide funding to help encourage and facilitate implementation of reuse systems.
- Provide professional services to perform the wide variety of activities required to implement the 2016-2017 CIP.

Details on the specific projects are presented in *Appendix B*.

Considerations

The 2016-2017 CIP has been developed using the best, currently available information for the scope of each project along with cost information from a variety of sources, including cost experience from the Authority's projects completed to date. While the Authority's body of empirical cost data is expanding, especially in terms of water lines, the cost base is still evolving in several areas. Accordingly, the following points are offered to help keep the implementation of this 2016-2017 CIP in perspective:

- It is possible that conditions would evolve on a project that could materially impact the cost of the project.
- Real estate and construction costs can be and are influenced by variables over which the Authority has no control.
- It is common to experience unexpected costs in the implementation of a CIP. Provision of a contingency is the most practical way to attempt to address this issue.

Financial

While the 2004-2005 CIP used the best cost estimation available at the time, it did not have the benefit of building upon actual prior Authority project experience; instead, the costing was based on the general project definition presented in the GRP. As the actual design of the projects proceeded and the criteria within which the Authority needed to develop its projects became clearer, it has become possible to sharpen the definition of the projects. As a result, the ability to estimate the project costs has improved. The estimated costs included in the 2016-2017 CIP have been updated and/or based - wherever possible and practical - on experience gained thus far on actual Authority projects.

The proceeds from the Authority's Series 2003, 2005 and 2008 Senior Lien Revenue Bonds, capital contributions and interest earned (collectively called "Revenue Bonds") total approximately \$437 million. As seen in the following table, approximately \$44 million of Revenue Bonds will be used to implement the 2016-2017 CIP. Additionally, approximately \$369 million of Texas Water Development Board State Water Infrastructure Fund for Texas ("SWIFT) funds are committed to implement the 2016-2017 CIP. The remaining approximately \$103 million of the near \$516 million needed to implement the 2016-2017 CIP will be funded through sources To Be Determined, i.e. bonds, capital contributions, etc.

Through September 2015, approximately 91 percent of the Revenue Bonds earmarked for the implementation of the CIP have been authorized (encumbered). The 2016-2017 CIP schedules the remainder of those funds to be authorized by the end of 2017.

SECTION II – THE 2016-2017 CAPITAL IMPROVEMENT PLAN

SUMMARY OF 2016-2017 CAPITAL IMPROVEMENT PLAN

Category	Authorizations ¹ (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Total
	1/1/03-9/30/15	10/1/14-12/31/15	2016	2017	
Acquisition	\$ 29,302	\$	\$ 13,681	\$ 8,819	\$ 51,802
Design	60,329	2,683	19,120	12,208	94,340
Construction	242,880		36,127	44,735	323,742
Equipment					
Other	64,522	9,965	113,202	255,442	443,131
Total Authorizations	\$ 397,033	\$ 12,648	\$ 182,130	\$ 321,204	\$ 913,015
Source of Funds					
Revenue Bonds	\$ 392,845	\$ 6,863	\$ 32,095	\$ 5,120	\$ 436,923
SWIFT Funds	4,188	5,785	131,597	231,355	372,925
To Be Determined	-	-	18,438	84,729	103,167
Total Funds	\$ 397,033	\$ 12,648	\$ 182,130	\$ 321,204	\$ 913,015

¹ Authorizations do not typically represent actual expenditures.

APPENDIX A
GLOSSARY OF TERMS

Acquisition	Includes the cost to purchase land and easements and the acquisition services (i.e. ROW Services, appraisals, legal, etc.) required to accomplish the purchase
Authorization	Amount designated for or authorized for the performance of work, service, equipment or participation agreements - the values typically do not represent actual expenditure of funds
Design	Includes the cost for program management, project planning, design related services, design management and other engineering and planning activities
Construction	Includes the cost of the construction contract, contingencies, construction administration, construction observation and materials testing
Equipment	Includes the cost of any equipment that may be purchased separately from a construction contract
FWSD	Fresh Water Supply District
ID	Improvement District
MUD	Municipal Utility District
N/A	Not Applicable or Contingency CIP No.
Other	A general category that may include participation commitments with other parties, acquisition, design, construction, equipment or any other relevant costs
PUD	Public Utility District
UD	Utility District
VAR	Various districts or key map locations as applicable
WCID	Water Control & Improvement District

APPENDIX B
PROJECT DETAIL FORMS

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: SPEARS ROAD REGIONAL PUMP STATION		District: VAR	C.I.P. Number: 2		
			Key Map: 372J		
Description: Project provides for the siting study, site acquisition, design, construction and upgrades/enhancements of this regional pump station. (Formerly called the T. C. Jester Regional Pump Station)					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	5,924				5,924
Design	3,457		125	125	3,707
Construction	36,977		1,750	120	38,847
Equipment					
Other					
Total Authorizations	46,358		1,875	245	48,478
Source of Funds					
Revenue Bonds	46,358		1,875		48,233
SWIFT Funds					
To Be Determined				245	245
Total Funds	46,358		1,875	245	48,478

Project: REGIONAL WELLS		District: VAR	C.I.P. Number: 3		
			Key Map: VAR		
Description: Project provides for the acquisition of well sites and design and construction of new wells and appurtenances and/or the purchase of existing wells. The wells will be constructed or purchased as needed to augment supplies of water needed by the Authority to facilitate operation of its System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	3				3
Design	93				93
Construction					
Equipment					
Other			1,000	2,000	3,000
Total Authorizations	96		1,000	2,000	3,096
Source of Funds					
Revenue Bonds	96		1,000		1,096
SWIFT Funds					
To Be Determined				2,000	2,000
Total Funds	96		1,000	2,000	3,096

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: LOUETTA REGIONAL WATER PLANT			District: 2, 4		C.I.P. Number: 5	
					Key Map: 329R	
Description: Project provides for the site acquisition, design, construction and upgrades/enhancements of this regional water plant.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017		
Acquisition	967		150		1,117	
Design	1,481		100	100	1,681	
Construction	17,407		581	109	18,097	
Equipment						
Other						
Total Authorizations	19,855		831	209	20,895	
Source of Funds						
Revenue Bonds	19,855		831		20,686	
SWIFT Funds						
To Be Determined				209	209	
Total Funds	19,855		831	209	20,895	

Project: WEST REGIONAL WATER PLANT (formerly Telge Regional Water Plant)			District: 1		C.I.P. Number: 21	
					Key Map: 368E	
Description: Project provides for the siting study and site acquisition for this regional water plant. This facility will be part of the 2035 Water Distribution and Transmission System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017		
Acquisition			245	1,920	2,165	
Design						
Construction						
Equipment						
Other						
Total Authorizations			245	1,920	2,165	
Source of Funds						
Revenue Bonds			245	1,920	2,165	
SWIFT Funds						
To Be Determined						
Total Funds			245	1,920	2,165	

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: HARDY REGIONAL PUMP STATION			District: VAR	C.I.P. Number: 23	
				Key Map: 333S	
Description: Project provides for the siting study and site acquisition for this regional pump station. This facility will be part of the 2025 Water Distribution and Transmission System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition			245	3,199	3,444
Design					
Construction					
Equipment					
Other					
Total Authorizations			245	3,199	3,444
Source of Funds					
Revenue Bonds			245		245
SWIFT Funds					0
To Be Determined				3,199	3,199
Total Funds	0	0	245	3,199	3,444

Project: SH 249 REGIONAL PUMP STATION			District: VAR	C.I.P. Number: 24	
				Key Map: 370S	
Description: Project provides for the siting study and site acquisition for and the design and construction of this regional pump station. This facility will be part of the 2025 Water Distribution and Transmission System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	4,625		355		4,980
Design	548		6,367		6,915
Construction	346				346
Equipment					
Other					
Total Authorizations	5,519		6,722		12,241
Source of Funds					
Revenue Bonds	5,519		6,722		12,241
SWIFT Funds					
To Be Determined					
Total Funds	5,519		6,722		12,241

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: 2025 TRANSMISSION LINE (formerly 2020 TRANSMISSION LINE)			District: VAR	C.I.P. Number: 25	
				Key Map: VAR	
Description: Project provides for the acquisition, design and construction of a major transmission line generally located in the corridor along Beltway 8 from the City of Houston take point just west of IH45 to just west of State Hwy. 249. This line will be part of the 2025 Water Distribution and Transmission System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	170		8,770	1,629	10,569
Design	1,435		5,794		7,229
Construction					
Equipment					
Other					
Total Authorizations	1,605		14,564	1,629	17,798
Source of Funds					
Revenue Bonds	1,191		3,598		4,789
SWIFT Funds	414		10,966	1,629	13,009
To Be Determined					
Total Funds	1,605		14,564	1,629	17,798

Project: WATER SUPPLY			District: ALL	C.I.P. Number: 26	
				Key Map: VAR	
Description: Provides funding to pay the City of Houston for water in accordance with the Authority's Water Supply Contract and Supplement No.2 to the Contract with the City. Funding included herein will pay for the final payment on the initial 31 MGD allocation and funding for purchasing an additional allocation of water from an expanded Northeast Water Purification Plant (NEWPP). Additionally, funds will be used to pay the Authority's share of the cost of Major Rehabilitation, reconstruction and upgrading of the NEWPP.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design					
Construction					
Equipment					
Other	24,908	8,368	43,154	207,877	284,307
Total Authorizations	24,908	8,368	43,154	207,877	284,307
Source of Funds					
Revenue Bonds	21,799	3,758			25,557
SWIFT Funds	3,109	4,610	36,389	201,107	245,215
To Be Determined			6,765	6,770	13,535
Total Funds	24,908	8,368	43,154	207,877	284,307

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: LUCE BAYOU INTERBASIN DIVERSION PROJECT		District: ALL	C.I.P. Number: 27		
			Key Map: VAR		
Description: Provides funding to pay the City of Houston for the Authority's portion of the Right-of-Way and related costs for the project. The project will deliver surface water from the Trinity River to Lake Houston. The water will be treated by the City of Houston and then delivered to the Authority and other users.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design					
Construction					
Equipment					
Other	3,348	36	129	214	3,727
Total Authorizations	3,348	36	129	214	3,727
Source of Funds					
Revenue Bonds	3,348	36	129		3,513
SWIFT Funds					
To Be Determined				214	214
Total Funds	3,348	36	129	214	3,727

Project: 2025 DISTRIBUTION SYSTEM (formerly 2020 DISTRIBUTION SYSTEM)		District: VAR	C.I.P. Number: 28		
			Key Map: VAR		
Description: Project provides for the design, real estate acquisition and construction of the initial component(s) of the 2025 Distribution System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition			3,916	2,071	5,987
Design	6,520	76		7,333	13,929
Construction			33,796	37,840	71,636
Equipment					
Other					
Total Authorizations	6,520	76	37,712	47,244	91,552
Source of Funds2					
Revenue Bonds	5,970	76	3,916		9,962
SWIFT Funds	550		33,796	5,750	40,096
To Be Determined				41,494	41,494
Total Funds	6,520	76	37,712	47,244	91,522

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: CHLORAMINATION SYSTEMS		District: VAR	C.I.P. Number: 29		
			Key Map: VAR		
Description: Provides funding to pay a Chloramination Credit to Public Water Systems (the "PWSs") which receive surface water and converted to surface water. The Chloramination Credit is intended to reimburse the PWSs for the cost of chloramination facilities the PWSs constructed in order to use surface water.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design					
Construction					
Equipment					
Other	7,275	386	1,545	1,545	10,751
Total Authorizations	7,275	386	1,545	1,545	10,751
Source of Funds					
Revenue Bonds	7,275	386	1,545		9,206
SWIFT Funds					
To Be Determined				1,545	1,545
Total Funds	7,275	386	1,545	1,545	10,751

Project: NORTHEAST TRANSMISSION LINE (previously known as Second Source Line)		District: VAR	C.I.P. Number: 30		
			Key Map: VAR		
Description: This is the line from the Northeast Water Purification Plant which will be built in two segments. The first segment will be a 120-inch line in which all four water authorities and the City of Houston will own capacity. The second segment will be a 108-inch line in which the City of Houston, North Harris County Regional Water Authority and the Central Harris County Regional Water Authority will own capacity. The City is responsible for designing, acquiring land/easements for the line and constructing the line.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design					
Construction					
Equipment					
Other		1,175	62,674	34,426	98,275
Total Authorizations		1,175	62,674	34,426	98,275
Source of Funds					
Revenue Bonds			555		555
SWIFT Funds		1,175	50,446	22,869	74,490
To Be Determined			11,673	11,557	23,230
Total Funds		1,175	62,674	34,426	98,275

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: SYSTEM IMPROVEMENTS		District: VAR		C.I.P. Number: 100	
				Key Map: VAR	
Description: Project provides design, real estate acquisition and construction of improvements to existing systems and other supplemental additions to facilitate the efficient operation of the Authority's System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design	606		1,884		2,490
Construction	4,674			6,666	11,340
Equipment					
Other	284		700	500	1,484
Total Authorizations	5,564		2,584	7,166	15,314
Source of Funds					
Revenue Bonds	5,564		2,584		8,148
SWIFT Funds					
To Be Determined				7,166	7,166
Total Funds	5,564		2,584	7,166	15,314

Project: CENTRAL CONTROL SYSTEM		District: VAR		C.I.P. Number: 101	
				Key Map: VAR	
Description: Project provides the design and construction of the Supervisory Control and Data Acquisition (SCADA) System, upgrades to same and related activities to facilitate the operation of the Authority's System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	1				1
Design	2,274		100	100	2,274
Construction	4,917				4,917
Equipment					
Other			500	500	1,000
Total Authorizations	7,192		600	600	8,392
Source of Funds					
Revenue Bonds	7,192		600		7,792
SWIFT Funds					
To Be Determined				600	600
Total Funds	7,192		600	600	8,392

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: WATER REUSE		District: VAR	C.I.P. Number: 102		
			Key Map: VAR		
Description: Project provides for engineering and other services to support the Authority's Water Reuse efforts and an allowance to participate in water reuse projects.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design	40				40
Construction					
Equipment					
Other			500	2,000	2,500
Total Authorizations	40		500	2,000	2,540
Source of Funds					
Revenue Bonds	40		500		540
SWIFT Funds					
To Be Determined				2,000	2,000
Total Funds	40		500	2,000	2,540

Project: SUPPORT AND SPECIALTY		District: VAR	C.I.P. Number: 200		
			Key Map: VAR		
Description: Provides various support and specialty professional services such as program management, control surveying, well location assessments, corrosion protection analysis, surge analysis, GIS and pricing policy/model updates.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition	591				591
Design	20,133	2,607	4,750	4,550	32,040
Construction					
Equipment					
Other					
Total Authorizations	20,724	2,607	4,750	4,450	32,631
Source of Funds					
Revenue Bonds	20,609	2,607	4,750	2,200	30,166
SWIFT Funds	115				115
To Be Determined				2,350	2,350
Total Funds	20,724	2,607	4,750	4,550	32,631

**2016 – 2017
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: CONTINGENCY			District: VAR	C.I.P. Number: N/A	
				Key Map: VAR	
Description: Provides funding for costs in excess of original program estimates and unexpected necessary expenses such as those to facilitate escalation of program components, to facilitate system operation and to enable payment of exceptional real estate judgments.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/15	10/1/15-12/31/15	2016	2017	
Acquisition					
Design					
Construction					
Equipment					
Other			3,000	6,380	9,380
Total Authorizations			3,000	6,380	9,380
Source of Funds					
Revenue Bonds			3,000	1,000	4,000
SWIFT Funds					
To Be Determined				5,380	5,380
Total Funds			3,000	6,380	9,380