LAND USE ASSUMPTIONS & CAPITAL IMPROVEMENT PLAN

for the

SPRINGS HILL SPECIAL UTILITY DISTRICT

2025 IMPACT FEE STUDY

July 2025

Prepared for:

Springs Hill Special Utility District
5510 S. Hwy 123 Bypass
Seguin, TX 78155

STATE OF TEXAS
DENNIS LOZANO
106147
LICENSED PROFESSIONAL ENGINEER
7.23.25

Prepared by:

Malone/Wheeler, Inc.
TBPE No. F-786
5113 Southwest Parkway, Suite 260
Austin, Texas 78735

MALONE ★ WHEELER
SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

TABLE OF CONTENTS

TABLE OF FIGURES

LIST OF TABLES

APPENDICES

INTRODUCTION

This report makes and substantiates a recommendation for the adoption of a new impact fee for the Springs Hill Special Utility District (SHSUD) service area. This report provides a high-level overview of the approach, methodology, and analysis used to develop the recommendation. Generally, an impact fee is intended to partially recover the cost of capital improvements required to provide water service to the anticipated future growth. The process begins with establishing Land Use Assumptions (LUA), which define projected growth over a defined planning period (10 years). These assumptions guide the identification and sizing of the projects necessary to support that growth, measured in Equivalent Dwelling Units (EDUs) of capacity. Once projects are identified and assigned EDU-based capacities, the associated costs are allocated on a per-EDU basis to calculate the maximum allowable impact fee. A final recommended fee is then determined in accordance with Texas Local Government Code Chapter 395, based on policy considerations and a selected assessment percentage of the maximum calculated fee. The following sections walk through the steps of this methodology in detail and provide the resulting recommendation.

SYSTEM AND SERVICE AREA

SHSUD supplies potable water to approximately 12,000 customer meters across portions of Guadalupe and Wilson Counties. For planning purposes, SHSUD uses the term EDU to represent a standardized measure of water demand, typically equivalent to the usage of a single-family residential connection. In this context, each customer meter is considered one EDU, meaning SHSUD currently serves approximately 12,000 EDUs. For purposes of compliance with Chapter 395 of the Texas Local Government Code, one EDU is considered equivalent to one service unit, which represents the standardized unit of measurement used in determining impact fees. This unit of measurement allows SHSUD to evaluate system capacity, assess future growth, and allocate costs. A tabulation of existing EDUs by zone as of May 2025 is provided in Table 1 below.

Table 1: Existing EDUs by Zone

Service Area	Total Existing Water EDUs
Zone 1	3,889
Zone 2	5,796
Zone 3	2,389
Total	**12,074**

Water supply is provided through a combination of SHSUD-owned infrastructure and purchased water. SHSUD operates the Mesa Trails and Lake Placid water treatment facilities and supplements with treated water purchased from the Canyon Regional Water Authority (CRWA), San Antonio Water System (SAWS), Schertz-Seguin Local Government Corporation (SSLGC), and the City of Sequin.

The water distribution system consists of three interconnected pressure zones (Zones 1, 2, and 3), which allow treated water to be transferred as needed to balance supply and demand. Figure 1 shows the SHSUD service area broken down into these pressure zones.

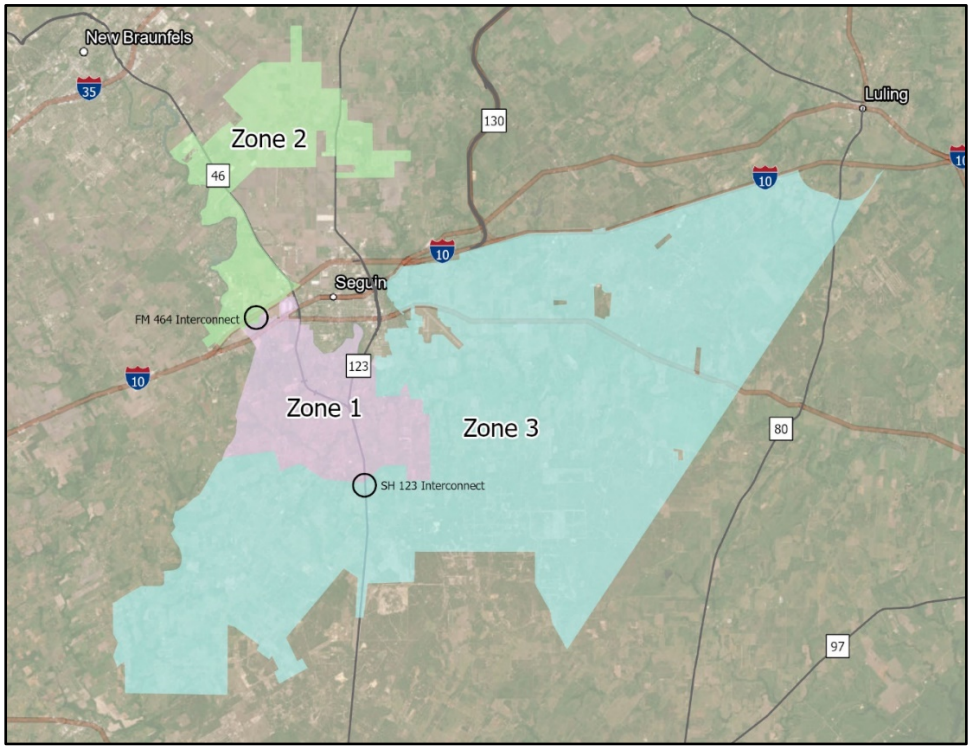


Figure 1: Service Area Map

LAND USE ASSUMPTIONS

As discussed previously, the LUA represent anticipated growth in the water system over a ten-year planning horizon and serve as the basis for determining future infrastructure needs. Expressed in EDUs, these projections help translate demographic and development trends into measurable system requirements. The LUA incorporate available data, known changes to the service area, and observed patterns of development to provide a realistic framework for planning future capital improvements and determining appropriate impact fees. Figure 2 below illustrates SHSUD's historical EDU growth from January 2019 through March 2025.

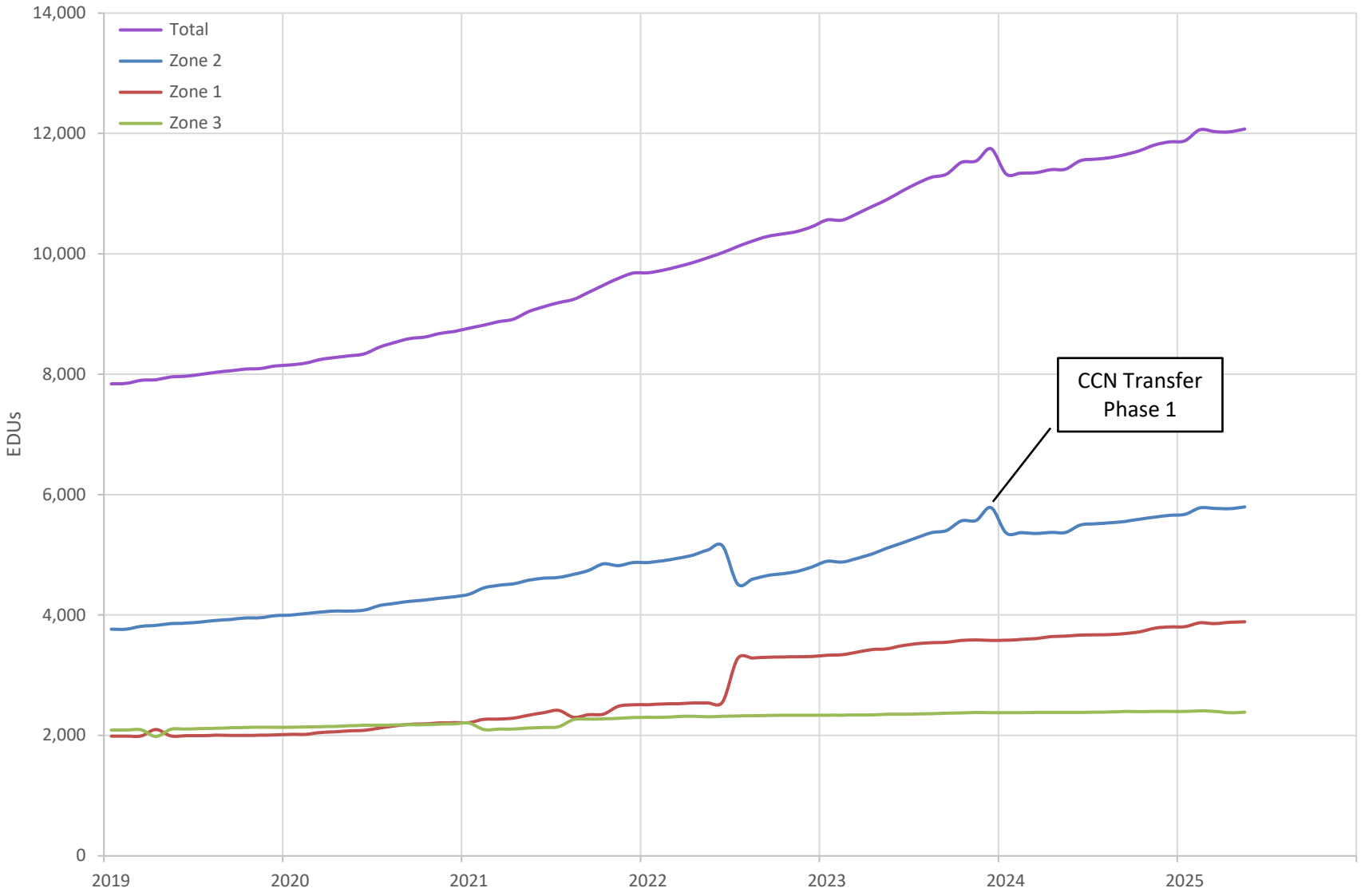


Figure 2: Historical Growth

For SHSUD, historical EDU data was used to evaluate growth patterns and form the basis of EDU growth projections. Available monthly data extends back to January 2019, covering a span of six years. During this period, SHSUD has experienced a clear increase in growth rate, especially in the years following 2020.

The historical EDU data for SHSUD shows consistent overall growth from 2019 through 2025, with notable changes in the contributions from individual zones. The total count illustrates a steady upward trend in system-wide development, with a period of accelerated growth beginning around 2020 and continuing through mid-2023, after which growth appears to slow—coinciding with the CCN Transfer Phase 1.

Two notable adjustments affect the zone-level historical data. In 2021, EDUs were moved from Zone 2 to Zone 1, resulting in a shift between zones without a corresponding change in the total system-wide EDU count. In 2023, a portion of EDUs from Zone 2 were transferred to the City of Seguin as part of the CCN Transfer Phase 1. These events have been accounted for in the analysis to ensure that growth trends reflect actual development activity rather than administrative changes.

When considering how to project future growth for SHSUD, a linear model was selected. The linear model assumes a steady, constant rate of growth, expressed as a fixed number of EDUs added per year. This approach is straightforward and aligns with how long-term utility connection data is typically represented. As reflected in the historical data, SHSUD has experienced fluctuations in its growth rate, with alternating periods of moderate and accelerated expansion.

To better inform the growth projections used in this analysis, members of the Impact Fee Advisory Committee (IFAC) were consulted to provide insight into anticipated development trends within the SHSUD service area. The IFAC members indicated that a period of accelerated growth is expected over the next five years, projecting the addition of at least 1,000 EDUs per year. This outlook aligns with the heightened growth observed between 2020 and 2023. Based on this expectation, the accelerated linear growth rate observed during that period was applied to the projected growth from 2025 through 2030. Beyond 2030, growth is anticipated to return to a more moderate pace, and the long-term historical growth rate was used to model the period from 2030 to 2035. The following figure illustrates the linear growth projection over the full ten-year planning horizon.

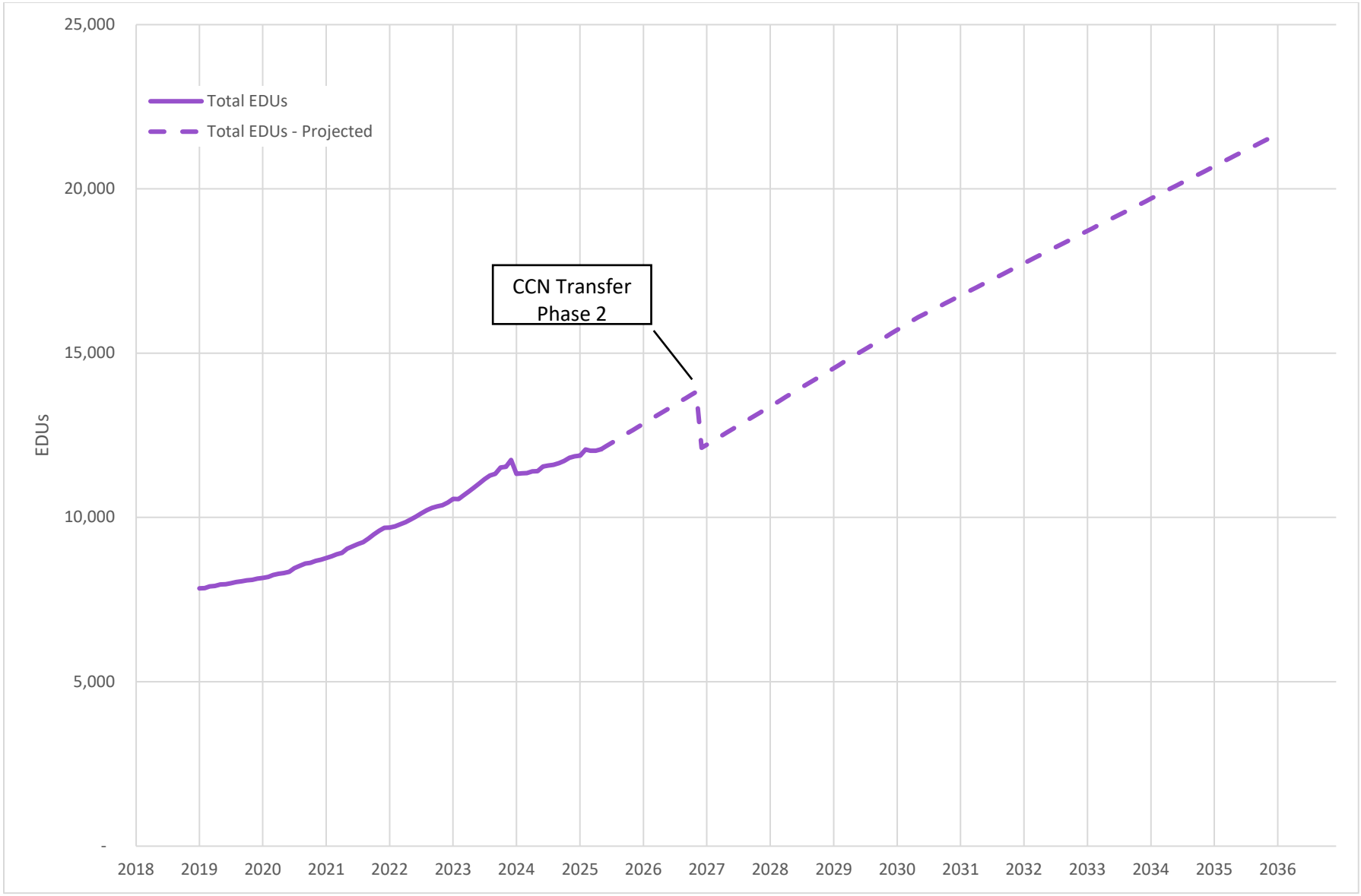


Figure 3: Land Use Assumptions

Figure 3 shows historical and projected EDU growth for SHSUD from 2019 through 2035. The solid line represents actual EDU counts, while the dashed line reflects projected growth based on recent trends and anticipated development. A drop in 2026–2027 marks the planned transfer of approximately 2,200 connections to the City of Seguin (CNN Transfer Phase 2). Following the transfer, growth resumes at an accelerated rate through 2030, then slows to a more moderate pace through 2035.

Table 2 below summarizes the projections in Figures 3, providing the total number of projected EDUs at various points of the study.

Table 2: 10-year Growth

Year End	Total EDUs
2025	12,753
2030	16,668
2035	21,588

Over the course of the 10-year planning window SHSUD is projected to see a total of 9,514 EDUs added to the system.

CAPITAL IMPROVEMENTS PLAN

Using the LUA, unit usage values, and system planning criteria, a CIP was developed to identify the projects required to meet forecasted demand. The CIP includes proposed improvements, the anticipated timing of each project, and associated Opinion of Probable Costs (OPCs).

Transitioning from the LUA to the CIP first requires defining the service units used in the projections and the planning criteria applied to determine the required capacities of system-wide projects.

Unit Usage

Drawing from approximately three years of historical data (2019-2021), unit usage values were established in gallons per day per equivalent dwelling unit (gpd/EDU). Table 3 presents the calculated unit usage for SHSUD.

Table 3: Unit Usage

Unit Usage (gpd/EDU)	Description
410	Annual Average
720	Peak Day

System Criteria

SHSUD operates under an Alternative Capacity Requirement (ACR) approved by TCEQ in 2013, which modifies the standard per-connection requirements of TAC §290.45. This ACR establishes minimum production, pumping, and storage capacities that serve as the regulatory basis for evaluating existing infrastructure and sizing proposed improvements in this CIP. Table 4 provides the ACR values for SHSUD.

Table 4: ACR Regulation Summary

Requirement	ACR Regulation
Total Production	0.46 gpm/connection
Service Pump Capacity	1.52 gpm/connection*
Total Storage Capacity	152 gal/connection
Elevated Storage Capacity	76 gal/connection

*1.52 gpm/connection or at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service

The overall capacity evaluation combines regulatory compliance checks with hydraulic modeling to assess system performance, ensuring facilities meet both peak demand requirements and minimum service level benchmarks. Transmission main capacity is estimated based on peak day unit usage, with a maximum velocity constraint of 5 feet per second to ensure efficient and reliable water conveyance throughout the system. A copy of the ACR approval is included in Appendix C.

CIP Projects

With the projected EDU growth established through the LUA, the next step in developing the CIP is to identify the infrastructure required to support the growth. Project sizing was developed from the above historical unit usage and system criteria.

The following table presents the CIP projects including the OPC, scheduled year, total capacity increase, capacity used, percent allocation to growth, and finally the max adjusted impact fee. Overall, expenditures on CIP projects are estimated to be $125.5 million over the ten-year planning horizon.

A map of the system showing the proposed CIP projects is presented in Appendix A. Additionally, Appendix B contains the individual OPCs for each project.

Table 5: CIP Projects and Usage for the Impact Fee Study

Project	Project Cost	Year Scheduled	Total Capacity Increase (EDU)	EDUs Allocated to CIP (%)	Capacity Used (EDU)	Max Adjusted Impact Fee (2025-2035)
Future CIP	$ 100,000	2030	9,087	100%	9,087	$ 11
Zone 1						
Chaparral Transmission Main	$ 1,948,514	2027	5,777	80%	4,622	$ 270
Country Club Drive Transmission Main	$ 2,091,189	2025	4,700	100%	4,700	$ 445
FM 477 Transmission Main	$ 6,204,434	2030	4,994	50%	2,497	$ 621
GLO Mays Creek - Guadulupe River Drive	$ 868,772	2025	2,644	100%	2,644	$ 329
Lake Placid WTP - HSPS #2	$ 2,063,445	2026	3,342	90%	3,008	$ 556
Lake Placid WTP - Raw Water Intake	$ 2,870,400	2026	1,250	90%	1,125	$ 2,067
River Bore Transmission Main	$ 5,478,431	2026	6,267	90%	5,640	$ 787
SH 123 Transmission Main	$ 10,581,840	2033	2,938	20%	588	$ 720
SH 46 Guadalupe River Crossing	$ 1,108,830	2034	4,700	10%	470	$ 24
Water Treatment Plant No. 2	$ 20,700,000	2028	3,019	70%	2,114	$ 4,799
WTP No. 2 Utility Corridor	$ 10,237,262	2026	6,267	90%	5,640	$ 1,470
Zone 1 Elevated Storage Tank	$ 8,093,700	2031	6,579	40%	2,632	$ 492
Zone 2 Connection Transmission Main	$ 2,767,927	2028	2,742	70%	1,919	$ 707
Zone 2						
CRWA Separation Improvements	$ 5,489,441	2025	3,133	100%	3,133	$ 1,752
I-10 West Extension	$ 2,084,240	2026	1,958	90%	1,762	$ 958
Link Road Transmission Main	$ 6,074,696	2027	3,525	80%	2,820	$ 1,379
Pieper Road Transmission Main	$ 1,173,521	2025	2,742	100%	2,742	$ 428
SH 46 Pump Station and GST	$ 5,399,940	2026	7,368	90%	6,632	$ 660
SH 46 Transmission Main	$ 1,690,960	2026	6,267	90%	5,640	$ 243
Zone 3						
Blumberg Well No. 1	$ 2,777,250	2027	3,478	80%	2,783	$ 639
Blumberg Well Transmission Main	$ 14,234,626	2029	6,267	60%	3,760	$ 1,363
CRWA Booster Pump and Transmission Main	$ 5,920,077	2032	987	30%	296	$ 1,800
FM 1117 Transmission Main	$ 2,119,711	2034	2,742	10%	274	$ 77
Hickory Forest Transmission Main	$ 872,804	2034	1,861	10%	186	$ 47
Mesa Trail Well 3A	$ 128,950	2025	652	100%	652	$ 198
Mesa Trail WTP Improvements	$ 1,811,250	2030	3,289	50%	1,645	$ 275
SH 123 Booster Pump Improvements	$ 607,545	2031	658	40%	263	$ 369
GRAND TOTAL	**$ 125,499,755**					**$ 23,486**

IMPACT FEE CALCULATION

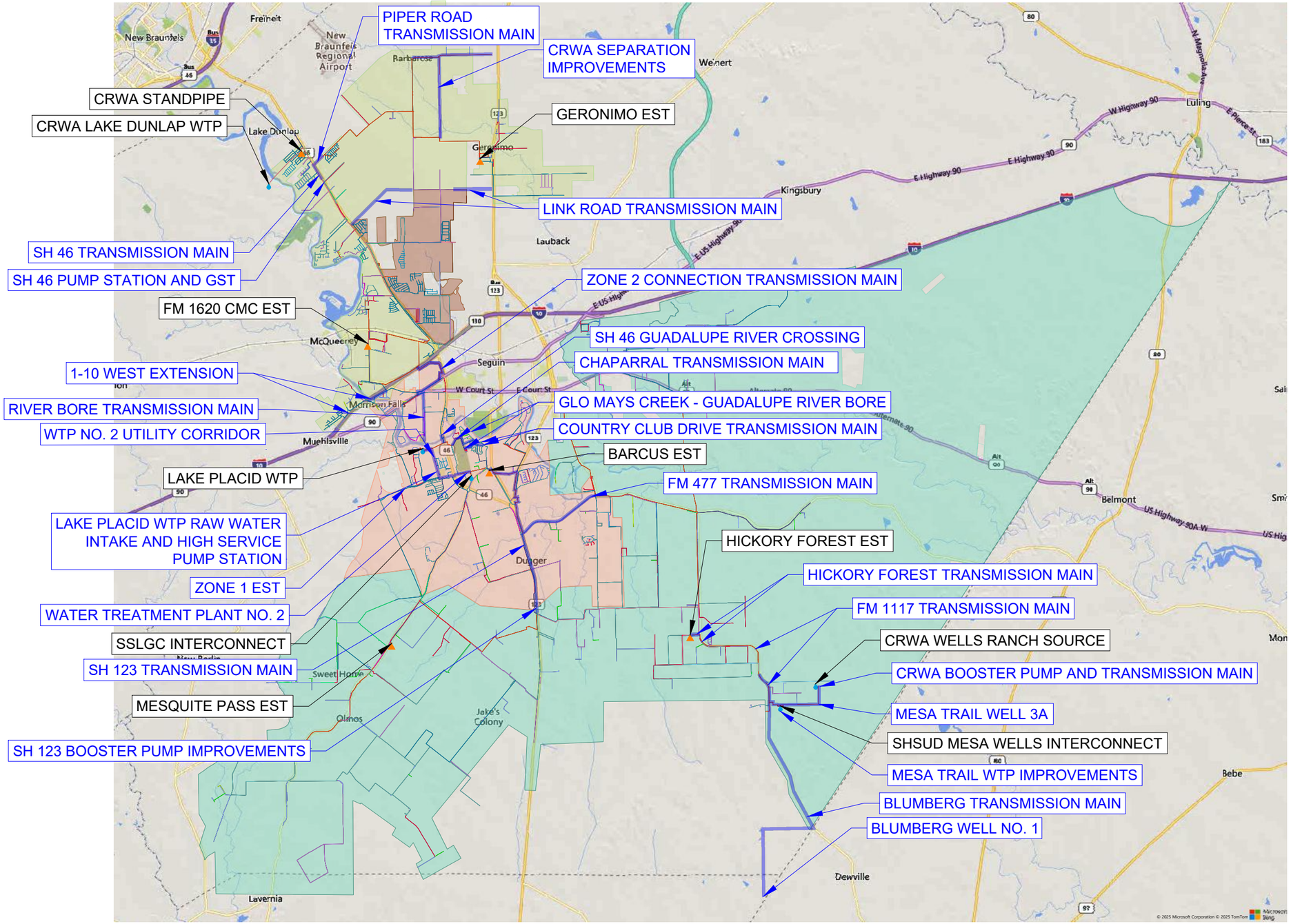
Using the CIP developed in the previous section, the maximum allowable impact fee for the SHSUD system was calculated by dividing the estimated cost of eligible CIP projects by the number of Equivalent Dwelling Units (EDUs) projected to be serviced by the project. This calculation yielded a maximum impact fee of $23,486 per EDU.

RECOMMENDATION

Chapter 395 of the Texas Local Government Code requires that a credit be applied to avoid double recovery of costs. Specifically, it allows for either a revenue-based credit or a flat credit equal to 50 percent of the total projected cost of the capital improvements plan. For this analysis, the 50 percent credit method was applied.

Accordingly, the recommended impact fee for SHSUD is $11,743 per EDU.

APPENDIX A:



LEGEND

- PROJECT NAME — PROPOSED CIP PROJECT
- EXISTING FACILITY — EXISTING FACILITIES
- WATER STORAGE FACILITIES
- WATER SOURCES
- 1 IN WATERMAIN
- 1.25 IN WATERMAIN
- 1.5 IN WATERMAIN
- 2 IN WATERMAIN
- 2.5 IN WATERMAIN
- 3 IN WATERMAIN
- 4 IN WATERMAIN
- 5 IN WATERMAIN
- 6 IN WATERMAIN
- 8 IN WATERMAIN
- 10 IN WATERMAIN
- 12 IN WATERMAIN
- 16 IN WATERMAIN
- 30 IN WATERMAIN
- ZONE 1
- ZONE 2
- ZONE 3
- CCN TRANSFER AREA
- PROJECT LIMITS

N

0 15000'

SCALE: 1" = 15000'

SPRINGS HILL SPECIAL UTILITY DISTRICT

CAPITAL IMPROVEMENT PLAN MAP

MALONE★WHEELER SINCE INC. 1995
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601
Firm Registration No. F-786

F:\SPRINGS HILL WSC\PROJECTS\22-018-AUS SPRINGS HILL WSC\DRAWINGS\EXHIBITS\SHSUD CIP 11X 17.DWG, 7/22/2025, BREANNAH SYKES

APPENDIX B:

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Chaparral Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 185,000.00	$ 185,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 40,000.00	$ 40,000.00
3	Trench Excavation Safety Protection	1	LS	$ 10,000.00	$ 10,000.00
4	Traffic Control	1	LS	$ 15,000.00	$ 15,000.00
5	Silt Fence	5,100	LF	$ 3.00	$ 15,300.00
6	Stabilized Construction Entrance	1	EA	$ 5,000.00	$ 5,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	11,333	SY	$ 2.00	$ 22,666.67
9	12" PVC Pipe (Open Trench Installation)	3,400	LF	$ 150.00	$ 510,000.00
10	12" PVC Pipe (Boring)	100	LF	$ 200.00	$ 20,000.00
11	24" Steel Encasement (Jack & Bore)	100	LF	$ 250.00	$ 25,000.00
12	16" PVC Pipe (Open Trench Installation)	1,700	LF	$ 200.00	$ 340,000.00
13	16" PVC Pipe (Boring)	100	LF	$ 250.00	$ 25,000.00
14	30" Steel Encasement (Jack & Bore)	100	LF	$ 300.00	$ 30,000.00
14	12" Gate Valve	2	EA	$ 10,000.00	$ 20,000.00
15	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
16	D.I. Fittings	3	TON	$ 10,000.00	$ 25,000.00
17	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
18	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
19	Fire Hydrant Assembly	5	EA	$ 5,000.00	$ 25,000.00
20	Detection Wire and Tape	5,300	LF	$ 5.00	$ 26,500.00
21	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
22	Tie In to Existing Service	4	EA	$ 3,500.00	$ 14,000.00
				Sub-Total	**$ 1,411,966.67**
23	Engineering & Surveying		15%		$ 211,795.00
24	Contingency		20%		$ 324,752.33
				GRAND TOTAL	**$ 1,948,514.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Country Club Drive Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 200,000.00	$ 200,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 45,000.00	$ 45,000.00
3	Trench Excavation Safety Protection	1	LS	$ 20,000.00	$ 20,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	3,295	LF	$ 3.00	$ 9,885.00
6	Stabilized Construction Entrance	1	EA	$ 5,000.00	$ 5,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	7,322	SY	$ 2.00	$ 14,644.44
9	16" PVC Pipe (Open Trench Installation)	3,295	LF	$ 200.00	$ 659,000.00
10	16" PVC Pipe (Boring)	770	LF	$ 250.00	$ 192,500.00
11	30" Steel Encasement (Jack & Bore)	770	LF	$ 300.00	$ 231,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	2	TON	$ 10,000.00	$ 15,000.00
14	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	3	EA	$ 5,000.00	$ 15,000.00
17	Detection Wire and Tape	4,065	LF	$ 5.00	$ 20,325.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 1,515,354.44**
20	Engineering & Surveying		15%		$ 227,303.17
21	Contingency		20%		$ 348,531.52
				GRAND TOTAL	**$ 2,091,189.13**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: FM 477 Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 585,000.00	$ 585,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 130,000.00	$ 130,000.00
3	Trench Excavation Safety Protection	1	LS	$ 25,000.00	$ 25,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	14,100	LF	$ 3.00	$ 42,300.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 15,000.00	$ 15,000.00
8	Loaming and Hydroseeding	31,333	SY	$ 2.00	$ 62,666.67
9	16" PVC Pipe (Open Trench Installation)	12,600	LF	$ 200.00	$ 2,520,000.00
10	16" PVC Pipe (Boring)	1,500	LF	$ 250.00	$ 375,000.00
11	30" Steel Encasement (Jack & Bore)	1,500	LF	$ 300.00	$ 450,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	6	TON	$ 10,000.00	$ 60,000.00
14	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	14	EA	$ 5,000.00	$ 70,000.00
17	Detection Wire and Tape	14,100	LF	$ 5.00	$ 70,500.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 4,495,966.67**
20	Engineering & Surveying		15%		$ 674,395.00
21	Contingency		20%		$ 1,034,072.33
				GRAND TOTAL	**$ 6,204,434.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: GLO Mays Creek - Guadulupe River Drive Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 75,000.00	$ 75,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 16,000.00	$ 16,000.00
3	Trench Excavation Safety Protection	525	LF	$ 0.01	$ 5.25
4	Traffic Control	1	MO	$ 6,000.00	$ 6,000.00
5	Silt Fence	599	LF	$ 10.00	$ 5,990.00
6	Rock Berm	74	LF	$ 50.00	$ 3,700.00
7	Stabilized Construction Entrance	2	EA	$ 2,700.00	$ 5,400.00
8	Site Restoration & Demobilization	1	LS	$ 3,000.00	$ 3,000.00
9	Loaming and Hydroseeding	335	SY	$ 6.00	$ 2,010.00
10	6" PVC Pipe (Open Trench Instillation)	3	LF	$ 380.00	$ 1,140.00
11	12" PVC Pipe (Open Trench Instillation)	18	LF	$ 330.00	$ 5,940.00
12	16" HDPE Pipe (Open Trench Instillation)	504	LF	$ 380.00	$ 191,520.00
13	16" HDPE Pipe (Boring)	74	LF	$ 175.00	$ 12,950.00
14	Jack and Bore (30")	74	LF	$ 1,700.00	$ 125,800.00
15	30" Steel Encasement (Jack & Bore)	74	LF	$ 400.00	$ 29,600.00
16	12" Gate Valve	1	EA	$ 15,000.00	$ 15,000.00
17	16" Gate Valve	1	EA	$ 33,000.00	$ 33,000.00
18	D.I. Fittings	2.1	TON	$ 0.01	$ 0.02
19	Hydrostatic Testing	1	EA	$ 5,000.00	$ 5,000.00
20	2" Temporary Blow Off	2	EA	$ 12,000.00	$ 24,000.00
21	Fire Hydrant Assemblly	1	EA	$ 24,000.00	$ 24,000.00
22	Detection Wire and Tape	599	LF	$ 10.00	$ 5,990.00
23	2" Air Release Valve	1	EA	$ 12,500.00	$ 12,500.00
24	Tie In Complete (6")	1	EA	$ 10,000.00	$ 10,000.00
25	Tie In Complete (12")	1	EA	$ 16,000.00	$ 16,000.00
				Sub-Total	**$ 629,545.27**
26	Engineering & Surveying		15%		$ 94,431.79
27	Contingency		20%		$ 144,795.41
				GRAND TOTAL	**$ 868,772.47**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Lake Placid WTP - High Service Pump Station #2 Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 200,000.00	$ 200,000.00
2	Booster Pump - 1,270 gpm (each)	4	EA	$ 75,000.00	$ 300,000.00
3	16" DIP Discharge Piping	315	LF	$ 200.00	$ 63,000.00
4	12" DIP Suction Piping	115	LF	$ 150.00	$ 17,250.00
5	12" Gate Valves	8	EA	$ 10,000.00	$ 80,000.00
6	MJ Fittings	1	LS	$ 50,000.00	$ 50,000.00
7	Control Panels & Electrical	1	LS	$ 150,000.00	$ 150,000.00
8	Equipment Building	1	LS	$ 100,000.00	$ 100,000.00
9	Generator	1	EA	$ 500,000.00	$ 500,000.00
10	Connection to Existing Utility	2	EA	$ 5,000.00	$ 10,000.00
11	Demobilization & Restoration	1	LS	$ 25,000.00	$ 25,000.00
				Sub-Total	**$ 1,495,250.00**
12	Engineering & Surveying		15%		$ 224,287.50
13	Contingency		20%		$ 343,907.50
				GRAND TOTAL	**$ 2,063,445.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Lake Placid WTP - Raw Water Intake Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 270,000.00	$ 270,000.00
2	Demo Existing RWI	1	LS	$ 150,000.00	$ 150,000.00
3	Pumps - 2 MGD (each)	5	EA	$ 100,000.00	$ 500,000.00
4	24" DIP Discharge Piping	700	LF	$ 200.00	$ 140,000.00
5	36" DIP Suction Piping	500	LF	$ 300.00	$ 150,000.00
6	24" Gate Valves	8	EA	$ 20,000.00	$ 160,000.00
7	24" Water Meter	1	LS	$ 20,000.00	$ 20,000.00
8	MJ Fittings	1	LS	$ 50,000.00	$ 50,000.00
9	Chemical Storage & Piping	1	LS	$ 25,000.00	$ 25,000.00
10	Concrete - Equipement Slab	25	CY	$ 1,500.00	$ 37,500.00
11	Concrete - Wet Well	275	CY	$ 1,500.00	$ 412,500.00
12	Control Panels & Electrical	1	LS	$ 150,000.00	$ 150,000.00
13	Connection to Existing Utility	1	EA	$ 5,000.00	$ 5,000.00
14	Demobilization & Restoration	1	LS	$ 10,000.00	$ 10,000.00
				Sub-Total	**$ 2,080,000.00**
15	Engineering & Surveying		15%		$ 312,000.00
16	Contingency		20%		$ 478,400.00
				GRAND TOTAL	**$ 2,870,400.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: River Bore Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 520,000.00	$ 520,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	2	LS	$ 110,000.00	$ 220,000.00
3	Trench Excavation Safety Protection	1	LS	$ 20,000.00	$ 20,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	11,200	LF	$ 3.00	$ 33,600.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 25,000.00	$ 25,000.00
8	Loaming and Hydroseeding	24,889	SY	$ 2.00	$ 49,777.78
9	16" HDPE Pipe (Open Trench Installation)	11,200	LF	$ 200.00	$ 2,240,000.00
10	16" HDPE Pipe (Boring)	1,000	LF	$ 250.00	$ 250,000.00
11	30" Steel Encasement (Jack & Bore)	1,000	LF	$ 300.00	$ 300,000.00
12	16" Gate Valve	5	EA	$ 15,000.00	$ 75,000.00
13	D.I. Fittings	6	TON	$ 10,000.00	$ 60,000.00
14	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	11	EA	$ 5,000.00	$ 55,000.00
17	Detection Wire and Tape	12,200	LF	$ 5.00	$ 61,000.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 3,969,877.78**
20	Engineering & Surveying		15%		$ 595,481.67
21	Contingency		20%		$ 913,071.89
				GRAND TOTAL	**$ 5,478,431.33**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: SH 123 Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 1,000,000.00	$ 1,000,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 225,000.00	$ 225,000.00
3	Trench Excavation Safety Protection	1	LS	$ 25,000.00	$ 25,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	27,500	LF	$ 3.00	$ 82,500.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 25,000.00	$ 25,000.00
8	Loaming and Hydroseeding	60,000	SY	$ 2.00	$ 120,000.00
9	16" PVC Pipe (Open Trench Installation)	27,000	LF	$ 200.00	$ 5,400,000.00
10	16" PVC Pipe (Boring)	500	LF	$ 250.00	$ 125,000.00
11	30" Steel Encasement (Jack & Bore)	500	LF	$ 350.00	$ 175,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	13	TON	$ 10,000.00	$ 125,000.00
14	Hydrostatic Testing	1	LS	$ 10,000.00	$ 10,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	27	EA	$ 5,000.00	$ 135,000.00
17	Detection Wire and Tape	27,500	LF	$ 5.00	$ 137,500.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 7,668,000.00**
20	Engineering & Surveying		15%		$ 1,150,200.00
21	Contingency		20%		$ 1,763,640.00
				GRAND TOTAL	**$ 10,581,840.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: SH 46 Guadalupe River Crossing Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 105,000.00	$ 105,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 25,000.00	$ 25,000.00
3	Trench Excavation Safety Protection	1	LS	$ 10,000.00	$ 10,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	1,000	LF	$ 3.00	$ 3,000.00
6	Stabilized Construction Entrance	1	EA	$ 5,000.00	$ 5,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	16" PVC Pipe (Boring)	1,000	LF	$ 250.00	$ 250,000.00
9	30" Steel Encasement (Jack & Bore)	1,000	LF	$ 300.00	$ 300,000.00
10	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
11	D.I. Fittings	1	TON	$ 10,000.00	$ 5,000.00
12	Hydrostatic Testing	1	LS	$ 2,500.00	$ 2,500.00
13	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
14	Fire Hydrant Assembly	1	EA	$ 5,000.00	$ 5,000.00
15	Detection Wire and Tape	1,000	LF	$ 5.00	$ 5,000.00
16	2" Air Release Valve	2	EA	$ 5,000.00	$ 10,000.00
17	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 803,500.00**
18	Engineering & Surveying		15%		$ 120,525.00
19	Contingency		20%		$ 184,805.00
				GRAND TOTAL	**$ 1,108,830.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Water Treatment Plant No. 2 Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Water Treatment Plant - 8 MGD	1	LS	$ 15,000,000.00	$ 15,000,000.00
				Sub-Total	**$ 15,000,000.00**
2	Engineering & Surveying		15%		$ 2,250,000.00
3	Contingency		20%		$ 3,450,000.00
				GRAND TOTAL	**$ 20,700,000.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: WTP No. 2 Utility Corridor Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 960,000.00	$ 960,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 215,000.00	$ 215,000.00
3	Trench Excavation Safety Protection	1	LS	$ 25,000.00	$ 25,000.00
4	Traffic Control	1	LS	$ 50,000.00	$ 50,000.00
5	Silt Fence	11,375	LF	$ 3.00	$ 34,125.00
6	Stabilized Construction Entrance	1	EA	$ 5,000.00	$ 5,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	25,278	SY	$ 2.00	$ 50,555.56
9	24" PVC Pipe (Open Trench Installation)	11,375	LF	$ 250.00	$ 2,843,750.00
10	24" PVC Pipe (Boring)	500	LF	$ 300.00	$ 150,000.00
11	36" Steel Encasement (Jack & Bore)	500	LF	$ 400.00	$ 200,000.00
12	24" Gate Valve	2	EA	$ 20,000.00	$ 40,000.00
13	16" PVC Pipe (Open Trench Installation)	11,375	LF	$ 200.00	$ 2,275,000.00
14	16" PVC Pipe (Boring)	500	LF	$ 250.00	$ 125,000.00
15	30" Steel Encasement (Jack & Bore)	500	LF	$ 300.00	$ 150,000.00
16	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
17	D.I. Fittings	11	TON	$ 10,000.00	$ 110,000.00
18	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
19	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
20	Fire Hydrant Assembly	11	EA	$ 5,000.00	$ 55,000.00
21	Detection Wire and Tape	11,875	LF	$ 5.00	$ 59,375.00
22	2" Air Release Valve	2	EA	$ 5,000.00	$ 10,000.00
23	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 7,418,305.56**
24	Engineering & Surveying		15%		$ 1,112,745.83
25	Contingency		20%		$ 1,706,210.28
				GRAND TOTAL	**$ 10,237,261.67**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Zone 1 Elevated Storage Tank (1 MG) Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 750,000.00	$ 750,000.00
2	Elevated Storage Tank - 1 MG	1	EA	$ 5,000,000.00	$ 5,000,000.00
3	Piping & Valves	1	LS	$ 100,000.00	$ 100,000.00
4	Connection to Existing Service	1	EA	$ 5,000.00	$ 5,000.00
5	Demobilization & Restoration	1	LS	$ 10,000.00	$ 10,000.00
				Sub-Total	**$ 5,865,000.00**
6	Engineering & Surveying		15%		$ 879,750.00
7	Contingency		20%		$ 1,348,950.00
				GRAND TOTAL	**$ 8,093,700.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 1
Project: Zone 2 Connection Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 265,000.00	$ 265,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 60,000.00	$ 60,000.00
3	Trench Excavation Safety Protection	1	LS	$ 15,000.00	$ 15,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	6,850	LF	$ 3.00	$ 20,550.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	15,222	SY	$ 2.00	$ 30,444.44
9	16" PVC Pipe (Open Trench Installation)	6,700	LF	$ 200.00	$ 1,340,000.00
10	16" PVC Pipe (Boring)	150	LF	$ 250.00	$ 37,500.00
11	30" Steel Encasement (Jack & Bore)	150	LF	$ 300.00	$ 45,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	3	TON	$ 10,000.00	$ 30,000.00
14	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	6	EA	$ 5,000.00	$ 30,000.00
17	Detection Wire and Tape	6,850	LF	$ 5.00	$ 34,250.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 2,005,744.44**
20	Engineering & Surveying		15%		$ 300,861.67
21	Contingency		20%		$ 461,321.22
				GRAND TOTAL	**$ 2,767,927.33**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 2
Project: CRWA Separation Improvements Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 525,000.00	$ 525,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 115,000.00	$ 115,000.00
3	Trench Excavation Safety Protection	1	LS	$ 25,000.00	$ 25,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	13,850	LF	$ 3.00	$ 41,550.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	30,778	SY	$ 2.00	$ 61,555.56
9	16" PVC Pipe (Open Trench Installation)	13,500	LF	$ 200.00	$ 2,700,000.00
10	16" PVC Pipe (Boring)	350	LF	$ 250.00	$ 87,500.00
11	30" Steel Encasement (Jack & Bore)	350	LF	$ 350.00	$ 122,500.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	6.5	TON	$ 10,000.00	$ 65,000.00
14	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	13	EA	$ 5,000.00	$ 65,000.00
17	Detection Wire and Tape	13,850	LF	$ 5.00	$ 69,250.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 3,977,855.56**
20	Engineering & Surveying		15%		$ 596,678.33
21	Contingency		20%		$ 914,906.78
				GRAND TOTAL	**$ 5,489,440.67**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 2
Project: I-10 West Extension Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 200,000.00	$ 200,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 45,000.00	$ 45,000.00
3	Trench Excavation Safety Protection	1	LS	$ 15,000.00	$ 15,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	3,835	LF	$ 3.00	$ 11,505.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 7,500.00	$ 7,500.00
8	Loaming and Hydroseeding	3,444	SY	$ 2.00	$ 6,888.89
9	12" PVC Pipe (Open Trench Installation)	650	LF	$ 150.00	$ 97,500.00
10	12" HDPE Pipe (Open Trench Installation)	1,550	LF	$ 180.00	$ 279,000.00
11	12" HDPE Pipe (Boring)	1,635	LF	$ 200.00	$ 327,000.00
12	24" Steel Encasement (Jack & Bore)	1,635	LF	$ 250.00	$ 408,750.00
13	12" Gate Valve	1	EA	$ 10,000.00	$ 10,000.00
14	D.I. Fittings	2	TON	$ 10,000.00	$ 20,000.00
15	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
16	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
17	Fire Hydrant Assembly	2	EA	$ 2,500.00	$ 5,000.00
18	Detection Wire and Tape	3,835	LF	$ 5.00	$ 19,175.00
19	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
20	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 1,510,318.89**
21	Engineering & Surveying		15%		$ 226,547.83
22	Contingency		20%		$ 347,373.34
				GRAND TOTAL	**$ 2,084,240.07**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 2
Project: Link Road Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 575,000.00	$ 575,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 125,000.00	$ 125,000.00
3	Trench Excavation Safety Protection	1	LS	$ 25,000.00	$ 25,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	18,840	LF	$ 3.00	$ 56,520.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	41,867	SY	$ 2.00	$ 83,733.33
9	12" PVC Pipe (Open Trench Installation)	17,920	LF	$ 150.00	$ 2,688,000.00
10	12" PVC Pipe (Boring)	920	LF	$ 200.00	$ 184,000.00
11	20" Steel Encasement (Jack & Bore)	920	LF	$ 250.00	$ 230,000.00
12	12" Gate Valve	13	EA	$ 10,000.00	$ 130,000.00
13	D.I. Fittings	9	TON	$ 10,000.00	$ 90,000.00
14	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	4	EA	$ 7,500.00	$ 30,000.00
17	Detection Wire and Tape	18,840	LF	$ 5.00	$ 94,200.00
18	2" Air Release Valve	5	EA	$ 5,000.00	$ 25,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 4,401,953.33**
20	Engineering & Surveying		15%		$ 660,293.00
21	Contingency		20%		$ 1,012,449.27
				GRAND TOTAL	**$ 6,074,695.60**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 2
Project: Pieper Road Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 110,000.00	$ 110,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 25,000.00	$ 25,000.00
3	Trench Excavation Safety Protection	1	LS	$ 10,000.00	$ 10,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	2,200	LF	$ 3.00	$ 6,600.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 5,000.00	$ 5,000.00
8	Loaming and Hydroseeding	4,889	SY	$ 2.00	$ 9,777.78
9	8" PVC Pipe (Open Trench Installation)	50	LF	$ 100.00	$ 5,000.00
10	16" PVC Pipe (Open Trench Installation)	1,800	LF	$ 200.00	$ 360,000.00
11	16" PVC Pipe (Boring)	350	LF	$ 250.00	$ 87,500.00
12	30" Steel Encasement (Jack & Bore)	350	LF	$ 300.00	$ 105,000.00
13	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
14	D.I. Fittings	2	TON	$ 10,000.00	$ 20,000.00
15	Hydrostatic Testing	1	LS	$ 2,500.00	$ 2,500.00
16	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
17	Fire Hydrant Assembly	2	EA	$ 5,000.00	$ 10,000.00
18	Detection Wire and Tape	2,200	LF	$ 5.00	$ 11,000.00
19	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
20	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 850,377.78**
21	Engineering & Surveying		15%		$ 127,556.67
22	Contingency		20%		$ 195,586.89
				GRAND TOTAL	**$ 1,173,521.33**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District
Project: SH46 Pump Station and GST
By: Malone/Wheeler, Inc.
Zone: 2
Date: July-25

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 510,000.00	$ 510,000.00
2	Drainage Channel & Detention Pond	1	LS	$ 150,000.00	$ 150,000.00
3	Ground Storage Tank - 0.5 MG	2	EA	$ 500,000.00	$ 1,000,000.00
4	Booster Pumps - 2,800 gpm each	4	EA	$ 100,000.00	$ 400,000.00
5	20" PVC Piping	1,410	LF	$ 250.00	$ 352,500.00
6	36" Steel Casing	370	LF	$ 350.00	$ 129,500.00
7	12" DIP Piping	320	LF	$ 150.00	$ 48,000.00
8	6" PVC Piping (Wastewater)	500	LF	$ 80.00	$ 40,000.00
9	12" Gate Valves	8	EA	$ 10,000.00	$ 80,000.00
10	MJ Fittings	1	LS	$ 50,000.00	$ 50,000.00
11	Control Panels & Electrical	1	LS	$ 150,000.00	$ 150,000.00
12	Generator	1	EA	$ 500,000.00	$ 500,000.00
13	Access Road & Fire Lane	1	LS	$ 100,000.00	$ 100,000.00
14	Concrete Foundation - GST	150	CY	$ 1,500.00	$ 225,000.00
15	Equipment Building	1	LS	$ 100,000.00	$ 100,000.00
16	Chain Link Fence & Metal Guard Rail	1,325	LF	$ 40.00	$ 53,000.00
17	Connection to Existing Utility	3	EA	$ 5,000.00	$ 15,000.00
18	Demobilization & Site Restoration	1	LS	$ 10,000.00	$ 10,000.00
				Sub-Total	**$ 3,913,000.00**
19	Engineering & Surveying		15%		$ 586,950.00
20	Contingency		20%		$ 899,990.00
				GRAND TOTAL	**$ 5,399,940.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 2
Project: SH46 Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 160,000.00	$ 160,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 35,000.00	$ 35,000.00
3	Trench Excavation Safety Protection	1	LS	$ 15,000.00	$ 15,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	3,000	LF	$ 3.00	$ 9,000.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 5,000.00	$ 5,000.00
8	Loaming and Hydroseeding	6,667	SY	$ 2.00	$ 13,333.33
9	20" PVC Pipe (Open Trench Installation)	2,750	LF	$ 250.00	$ 687,500.00
10	20" PVC Pipe (Boring)	250	LF	$ 300.00	$ 75,000.00
11	36" Steel Encasement (Jack & Bore)	250	LF	$ 350.00	$ 87,500.00
12	20" Gate Valve	2	EA	$ 17,500.00	$ 35,000.00
13	D.I. Fittings	1.5	TON	$ 10,000.00	$ 15,000.00
14	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	3	EA	$ 5,000.00	$ 15,000.00
17	Detection Wire and Tape	3,000	LF	$ 5.00	$ 15,000.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 1,225,333.33**
20	Engineering & Surveying		15%		$ 183,800.00
21	Contingency		20%		$ 281,826.67
				GRAND TOTAL	**$ 1,690,960.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: Blumberg Well No. 1 Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 265,000.00	$ 265,000.00
2	Water Well - 1,600 gpm	1	EA	$ 800,000.00	$ 800,000.00
3	Ground Storage Tank - 0.5 MG	1	EA	$ 500,000.00	$ 500,000.00
4	Piping & Valves - GST	1	LS	$ 50,000.00	$ 50,000.00
5	Concrete Equipment Slab - GST	75	CY	$ 1,500.00	$ 112,500.00
6	Booster Pump - 750 gpm	2	EA	$ 50,000.00	$ 100,000.00
7	Piping & Valves - Pumps	1	LS	$ 50,000.00	$ 50,000.00
8	Concrete Equipment Slab - Pumps	10	CY	$ 1,500.00	$ 15,000.00
9	Control Panel & Electrical Work	1	LS	$ 50,000.00	$ 50,000.00
10	Equipment Building	1	LS	$ 50,000.00	$ 50,000.00
11	Connection to Existing Service	1	EA	$ 5,000.00	$ 5,000.00
12	Demobilizaiton & Site Restoration	1	LS	$ 15,000.00	$ 15,000.00
				Sub-Total	**$ 2,012,500.00**
13	Engineering & Surveying		15%		$ 301,875.00
14	Contingency		20%		$ 462,875.00
				GRAND TOTAL	**$ 2,777,250.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: Blumberg Well Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 1,345,000.00	$ 1,345,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 300,000.00	$ 300,000.00
3	Trench Excavation Safety Protection	1	LS	$ 40,000.00	$ 40,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	36,960	LF	$ 3.00	$ 110,880.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 20,000.00	$ 20,000.00
8	Loaming and Hydroseeding	82,133	SY	$ 2.00	$ 164,266.67
9	16" PVC Pipe (Open Trench Installation)	36,960	LF	$ 200.00	$ 7,392,000.00
10	30" Steel Encasement (Jack & Bore)	1,000	LF	$ 300.00	$ 300,000.00
11	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
12	D.I. Fittings	18.5	TON	$ 10,000.00	$ 185,000.00
13	Hydrostatic Testing	1	LS	$ 10,000.00	$ 10,000.00
14	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
15	Fire Hydrant Assembly	36	EA	$ 5,000.00	$ 180,000.00
16	Detection Wire and Tape	36,960	LF	$ 5.00	$ 184,800.00
17	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
18	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 10,314,946.67**
19	Engineering & Surveying		15%		$ 1,547,242.00
20	Contingency		20%		$ 2,372,437.73
				GRAND TOTAL	**$ 14,234,626.40**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: CRWA Booster Pump & Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 560,000.00	$ 560,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 125,000.00	$ 125,000.00
3	Trench Excavation Safety Protection	1	LS	$ 15,000.00	$ 15,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	17,350	LF	$ 3.00	$ 52,050.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 10,000.00	$ 10,000.00
8	Loaming and Hydroseeding	38,556	SY	$ 2.00	$ 77,111.11
9	4" PVC Service Line (Open Trench Installation)	4,050	LF	$ 80.00	$ 324,000.00
10	12" PVC Pipe (Open Trench Installation)	13,300	LF	$ 150.00	$ 1,995,000.00
11	8" Steel Encasement (Jack & Bore)	90	LF	$ 125.00	$ 11,250.00
12	20" Steel Encasement (Jack & Bore)	470	LF	$ 300.00	$ 141,000.00
13	12" Gate Valve	14	EA	$ 10,000.00	$ 140,000.00
14	D.I. Fittings	6.5	TON	$ 10,000.00	$ 65,000.00
15	Hydrostatic Testing	1	LS	$ 7,500.00	$ 7,500.00
16	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
17	Fire Hydrant Assembly	21	EA	$ 5,000.00	$ 105,000.00
18	Detection Wire and Tape	17,350	LF	$ 5.00	$ 86,750.00
19	2" Air Release Valve	5	EA	$ 5,000.00	$ 25,000.00
20	Booster Pump - 750 gpm each	2	EA	$ 50,000.00	$ 100,000.00
21	16" DIP Discharge Piping	315	LF	$ 200.00	$ 63,000.00
22	12" DIP Suction Piping	115	LF	$ 150.00	$ 17,250.00
23	12" Gate Valves	4	EA	$ 10,000.00	$ 40,000.00
24	MJ Fittings	1	LS	$ 30,000.00	$ 30,000.00
25	Control Panels & Electrical	1	LS	$ 50,000.00	$ 50,000.00
26	Concrete Equipment Slab (24'x34')	30	CY	$ 1,500.00	$ 45,000.00
27	Equipment Building	1	LS	$ 150,000.00	$ 150,000.00
20	Tie In to Existing Service	4	EA	$ 3,500.00	$ 14,000.00
				Sub-Total	**$ 4,289,911.11**
21	Engineering & Surveying		15%		$ 643,486.67
22	Contingency		20%		$ 986,679.56
				GRAND TOTAL	**$ 5,920,077.33**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: FM 1117 Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 200,000.00	$ 200,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 60,000.00	$ 60,000.00
3	Trench Excavation Safety Protection	1	LS	$ 15,000.00	$ 15,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	5,100	LF	$ 3.00	$ 15,300.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 5,000.00	$ 5,000.00
8	Loaming and Hydroseeding	11,111	SY	$ 2.00	$ 22,222.22
9	16" PVC Pipe (Open Trench Installation)	5,000	LF	$ 200.00	$ 1,000,000.00
10	16" PVC Pipe (Boring)	100	LF	$ 250.00	$ 25,000.00
11	30" Steel Encasement (Jack & Bore)	100	LF	$ 300.00	$ 30,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	2.5	TON	$ 10,000.00	$ 25,000.00
14	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	5	EA	$ 5,000.00	$ 25,000.00
17	Detection Wire and Tape	5,100	LF	$ 5.00	$ 25,500.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 1,536,022.22**
20	Engineering & Surveying		15%		$ 230,403.33
21	Contingency		20%		$ 353,285.11
				GRAND TOTAL	**$ 2,119,710.67**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: Hickory Forest Transmission Main Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 105,000.00	$ 105,000.00
2	Right-of-Way Clearing and Grading (Max 3%)	1	LS	$ 25,000.00	$ 25,000.00
3	Trench Excavation Safety Protection	1	LS	$ 10,000.00	$ 10,000.00
4	Traffic Control	1	LS	$ 25,000.00	$ 25,000.00
5	Silt Fence	1,600	LF	$ 3.00	$ 4,800.00
6	Stabilized Construction Entrance	2	EA	$ 5,000.00	$ 10,000.00
7	Site Restoration & Demobilization	1	LS	$ 5,000.00	$ 5,000.00
8	Loaming and Hydroseeding	3,333	SY	$ 2.00	$ 6,666.67
9	16" PVC Pipe (Open Trench Installation)	1,500	LF	$ 200.00	$ 300,000.00
10	16" PVC Pipe (Boring)	100	LF	$ 250.00	$ 25,000.00
11	30" Steel Encasement (Jack & Bore)	100	LF	$ 300.00	$ 30,000.00
12	16" Gate Valve	2	EA	$ 15,000.00	$ 30,000.00
13	D.I. Fittings	2	TON	$ 10,000.00	$ 20,000.00
14	Hydrostatic Testing	1	LS	$ 5,000.00	$ 5,000.00
15	2" Temporary Blow Off Valve	2	EA	$ 3,000.00	$ 6,000.00
16	Fire Hydrant Assembly	1	EA	$ 5,000.00	$ 5,000.00
17	Detection Wire and Tape	1,600	LF	$ 5.00	$ 8,000.00
18	2" Air Release Valve	1	EA	$ 5,000.00	$ 5,000.00
19	Tie In to Existing Service	2	EA	$ 3,500.00	$ 7,000.00
				Sub-Total	**$ 632,466.67**
20	Engineering & Surveying		15%		$ 94,870.00
21	Contingency		20%		$ 145,467.33
				GRAND TOTAL	**$ 872,804.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: Mesa Trail Well 3A Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization (Max 15%)	1	LS	$ 5,000.00	$ 5,000.00
2	All Weather Access Drive	505	SY	$ 80.00	$ 40,400.00
3	Site Restoration	1	LS	$ 12,600.00	$ 12,600.00
4	Demolition	1	LS	$ 6,500.00	$ 6,500.00
5	Intruder Resistant Fence	150	LF	$ 38.00	$ 5,700.00
6	6" PVC C909 Pipe	15	LF	$ 40.00	$ 600.00
7	8" PVC C909 Pipe	30	LF	$ 55.00	$ 1,650.00
8	6" DI Pipe	15	LF	$ 75.00	$ 1,125.00
9	8" DI Pipe	5	LF	$ 95.00	$ 475.00
10	6" Gate Valve	2	EA	$ 2,000.00	$ 4,000.00
11	8" MJ 90° Bend	1	EA	$ 650.00	$ 650.00
12	6" MJ 90° Bend	1	EA	$ 550.00	$ 550.00
13	8" FL 90° Bend	1	EA	$ 650.00	$ 650.00
14	8" MJ 45° Bend	1	EA	$ 650.00	$ 650.00
15	6" MJ 45° Bend	1	EA	$ 650.00	$ 650.00
16	8"x6" Reducer	1	EA	$ 650.00	$ 650.00
17	8" Mega-Coupling	1	EA	$ 750.00	$ 750.00
18	6"x6" Tee	1	EA	$ 950.00	$ 950.00
19	6" Check Valve	1	EA	$ 2,250.00	$ 2,250.00
20	6" Style 38 Dresser Coupling	1	EA	$ 650.00	$ 650.00
21	6" Magnetic Flow Meter	1	EA	$ 8,800.00	$ 8,800.00
22	Pipe Support	1	LS	$ 220.00	$ 220.00
23	1" Combination ARV	1	EA	$ 650.00	$ 650.00
24	Tie into Existing	2	EA	$ 2,500.00	$ 5,000.00
25	Tower Foundation	1	LS	$ 2,800.00	$ 2,800.00
26	CMU Building Pad	1	LS	$ 3,160.00	$ 3,160.00
27	CMU Building	1	LS	$ 7,180.00	$ 7,180.00
28	Truss Roof	1	LS	$ 1,300.00	$ 1,300.00
29	Sidewalk	10	SY	$ 90.00	$ 900.00
30	Chemical Storage Tank	1	EA	$ 1,800.00	$ 1,800.00
31	Chemical Pump	1	EA	$ 860.00	$ 860.00
32	Chemical Feed Injection and Appurtenances	1	LS	$ 930.00	$ 930.00
33	Electrical System	1	LS	$ 7,700.00	$ 7,700.00
34	Variable Frequency Drive Installation	1	EA	$ 1,200.00	$ 1,200.00
				GRAND TOTAL	**$ 128,950.00**

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District Zone: 3
Project: Mesa Trail WTP Improvements Date: July-25
By: Malone/Wheeler, Inc.

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 180,000.00	$ 180,000.00
2	Ground Storage Tank - 500,000 Gal	1	EA	$ 500,000.00	$ 500,000.00
3	Yard Piping & Valves	1	LS	$ 150,000.00	$ 150,000.00
4	Booster Pumps - 750 gpm each	2	EA	$ 50,000.00	$ 100,000.00
5	Concrete Equipment Slab - Pumps	10	CY	$ 1,500.00	$ 15,000.00
6	Concrete Slab - GST	75	CY	$ 1,500.00	$ 112,500.00
7	Control Panel & Electrical Work	1	LS	$ 150,000.00	$ 150,000.00
8	Equipment Building	1	LS	$ 100,000.00	$ 100,000.00
9	Connection to Existing Service	1	EA	$ 5,000.00	$ 5,000.00
				Sub-Total	**$ 1,312,500.00**
10	Engineering & Surveying		15%		$ 196,875.00
11	Contingency		20%		$ 301,875.00
				GRAND TOTAL	**$ 1,811,250.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

MALONE ★ WHEELER
SINCE INC. 1995

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

ENGINEER'S OPINION of PROBABLE COST

Client: Springs Hill Special Utility District
Project: SH 123 Booster Pump Improvements
By: Malone/Wheeler, Inc.
Zone: 3
Date: July-25

ITEM No.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Mobilization & Site Prep	1	LS	$ 60,000.00	$ 60,000.00
2	Booster Pump - 500 gpm each	2	EA	$ 35,000.00	$ 70,000.00
3	16" DIP Discharge Piping	315	LF	$ 200.00	$ 63,000.00
4	12" DIP Suction Piping	115	LF	$ 150.00	$ 17,250.00
5	12" Gate Valves	4	EA	$ 10,000.00	$ 40,000.00
6	MJ Fittings	1	LS	$ 30,000.00	$ 30,000.00
7	Control Panels & Electrical	1	LS	$ 50,000.00	$ 50,000.00
8	Concrete Equipment Slab	30	CY	$ 1,500.00	$ 45,000.00
9	Equipment Building	1	LS	$ 50,000.00	$ 50,000.00
10	Connection to Existing Utility	1	EA	$ 5,000.00	$ 5,000.00
11	Demobilization & Restoration	1	LS	$ 10,000.00	$ 10,000.00
				Sub-Total	**$ 440,250.00**
12	Engineering & Surveying		15%		$ 66,037.50
13	Contingency		20%		$ 101,257.50
				GRAND TOTAL	**$ 607,545.00**

5113 Southwest Parkway, Suite 260, Austin, Texas 78735 T: 512.899.0601
Firm Registration No. F-786 ★ www.malonewheeler.com

APPENDIX C:

PWS/0940022/CO

Texas Commission on Environmental Quality

Protecting Texas by Reducing and Preventing Pollution

January 8, 2013

Mr. Daniel W. Konstanski, P.E.
M & S Engineering, LLC
P.O. Box 970
Spring Branch, Texas 78070-0970

Subject: Springs Hill Water Supply Corporation – PWS ID No. 0940022
Request for Alternative Capacity Requirements
Guadalupe County, Texas

RN 101216000; CN 600658405

Dear Mr. Konstanski:

On October 10, 2012, the Texas Commission on Environmental Quality (TCEQ) received your letter, dated October 9, 2012, and technical data requesting, on behalf of the subject public water system (PWS), that minimum Alternative Capacity Requirements (ACRs) be granted under Title 30 of the Texas Administrative Code (TAC) §290.45(b)(2). On January 7, 2013, The TCEQ received additional technical data from the subject PWS. The ACR regulation in 30 TAC §290.45(b)(2) requires public water systems to have a minimum raw water pump capacity of 0.6 gallons per minute (gpm) per connection or provide at least 1,000 gpm and be able to meet peak hourly demands, whichever is less. You have requested a reduction of the raw water pump capacity. Based on our review, we are **granting** these new minimum ACRs as follows:

Total production (surface + ground + purchased):	**0.46 gpm/connection**
Total storage capacity:	**152 gallons/connection**
Service pump capacity (whichever is less):	**1.52 gpm/connection** **OR** **At least 1,000 gpm AND the ability to meet peak hourly demand with the largest pump out of service.**
Elevated storage capacity: **OR** **Pressure tank capacity:**	**76.0 gallons/connection** **15.2 gallons/connection**

The submitted 36 months of daily water usage data indicated a maximum daily demand day of 4,462,440 gallons on July 31, 2012 with 7,113 active connections. An equivalency ratio (ER) of 0.76 was calculated using a 1.05 safety factor. The above minimum ACR was calculated using this ER and the specifications in 30 TAC §290.45(g)(2).

These minimum ACRs are contingent upon the continuing collection of daily usage data and the maintenance of these records for a minimum of three years. All minimum ACRs are subject to periodic review. Any ACR may be amended, revised, or revoked if water demand conditions change or if evidence is found that granting any of the ACRs has resulted in the degradation of potable water quality or quantity. This letter must be kept on file for as long as these ACRs are valid, and made available to TCEQ staff upon request.

If you have questions concerning this letter, or if you need additional assistance, please contact Bill Melville, P.E., by email at Bill.Melville@tceq.texas.gov, by telephone at (512) 239-4729, or by correspondence at the following address:

Technical Review & Oversight Team (MC 159)
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Joel Klumpp, Team Leader
Technical Review & Oversight Team
Plan & Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

JPK/WRM

cc: TCEQ San Antonio Regional Office – R13
Ms. Vera Poe, P.E., TCEQ Utilities Technical Review Team Leader (MC 159)
Ms. Ada Lichaa, P.G., TCEQ Plan & Technical Review Section Manager (MC 159)
Mr. James Martin, President, Springs Hill WSC, P.O. Box 29, Seguin, TX 78156-0029