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# TEST HOLE SUMMARY REPORT

Project Name: SAWS Carrizo - NACO Pump Sta.

SAM - 31270-31 Prepared By: Alan Horton Client: Tetra Tech Date: 11/22/2011

Ground Hillity El	TOTT
June Cunty Di	100
Elevation TOU	Depth Utility Description
816.86 814.9	2.0' 2" Poly
816.20 812.9	3.3' 24" Concrete Coated Steel Pipe
822.73 817.0	5.7' 48" Concrete Coated Steel Pipe
824.75 818.3	6.5' 48" Concrete Coated Steel Pipe
824.75 818.6	6.2' Top of flange
825.14 817.7	7.4' 36" TEE
825.29 821.0	4.3' 1' x 0.5' Electric Concrete Duct
823.93 814.2	9.7' 60" Concrete Coated Steel Pipe
	27 17 0 1 2
826.34 823.7	2.6" Steel Pipe
\$   \( \frac{1}{2} \rightarrow \frac{1} \rightarrow \frac{1}{2} \rightarrow \frac{1}{2} \rightarrow \f	

SAM, Inc. Project Number: 31270-31

Client: Date:

**TEST HOLE NUMBER:** 

November 7, 2011

		Project: SAWS NACO Pump Station QL-A	O Pump Station QL-A
Project Location:	O'Connor Road, San Antonio	Surface Material:	Asphalt
Utility Location:	Inside NACO pump station	Surface Elevation:	816.86
Utility Sta./Offset:	N/A	Thickness & Condition:	Good
Record Utility:	2" Gas service	Trench Material:	Sand
Utility Owner:	SAWS	Utility Bedding Material:	Sand
Contact/Phone:	Alissa Lockett, P.E. 210-233-3401	Utility Found:	2" yellow poly pipe
Address:	N/A	Utility Condition:	Good
Field Crew:	Gabriel Johnson and Miller Pipeline	Utility Depth (Top):	2.0'
Field Conditions:	Off roadway		

COMMENTS

SAM, Inc. located Test Hole # 1 by

electronically designating the gas line prior

to air/vacuum excavation of the utility.

All excavation was performed with No additional utilities were found within

Test Hole # 1 excavation.

The Test Hole was backfilled with air/vacuum excavation equipment.

excavated material and asphalt patch.

#### TEST HOLE TEST HOLE 3 TEST HOLE 2 0.14 S C F 읁 60.0 SURFACE LEGEND UTILITY CROSS CLF CHAIN LINK POLY GAS FENCE

#### PROJECT CONTROL (Surface)

Pt # 500 TPT- Mag nail N= 13755809.38 E= 2164216.11 Elev = 828.51Pt # 505

TPT-3/4" iron rod N= 13756091.03 E= 2163988.36 Elev = 826.69

N = 13755701.36 E = 2164819.37 COORDINATES ALITIES A

Elev = 814.9

### TEST HOLE PICTURE

surveying designated gas line. Parking lot was resurfaced prior to The picture depicts the existing gas line



TEXAS BOARD OF PROFESSIONAL ENGINEERS COMPANY REGISTRATION # F-1937 74139

SAM, Inc. Project Number: 31270-31

Client	Date:
Tetra Tech	November 7, 2011

**TEST HOLE NUMBER:** 

N

Project: SAWS NACO Pump Station QL-A

3.3'	Good	24" concrete coated steel pipe	Pea gravel	Black clay	Good	816.20	Asphalt
Utility Depth (Top):	Utility Condition:	Utility Found:	Utility Bedding Material:	Trench Material:	Thickness & Condition:	Surface Elevation:	Surface Material:

Utility Depth (Top):

Utility Owner: Record Utility:

SAWS

16" CSC Water line

Contact/Phone:

Alissa Lockett, P.E. 210-233-3401

Field Conditions: Field Crew:

Off roadway

Gabriel Johnson and Miller Pipeline

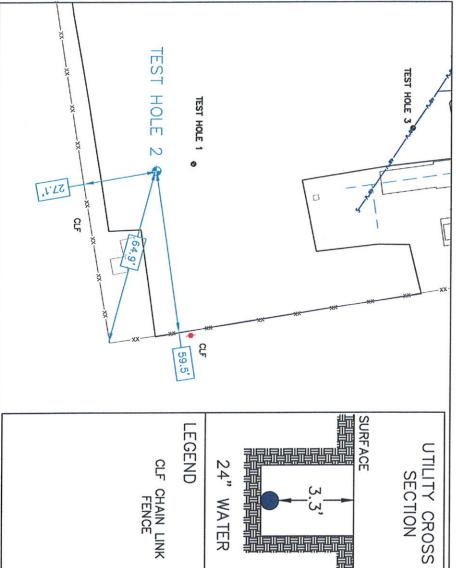
Utility Location:

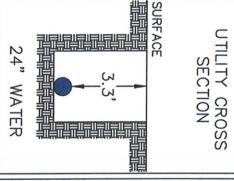
Project Location:

Utility Sta./Offset:

Z

Inside NACO pump station O'Connor Road, San Antonio





Pt # 505

COORDINATES ALITIES

N = 13755687.64 E = 2164821.93 Elev = 812.9

COMMENTS

- 1. SAM, Inc. located Test Hole # 2 by No additional utilities were found within Test electronically designating the water line prior to air/vacuum excavation of the utility. Hole # 2 excavation.
- 3 All excavation was performed with The Test Hole was backfilled with air/vacuum excavation equipment.
- excavated material and asphalt patch.
- The picture depicts the existing water line surveying designated water line. Parking lot was resurfaced prior to

PROJECT CONTROL

0 0

### TEST HOLE PICTURE

TPT- Mag nail N= 13755809.38 E= 2164216.11

Pt # 500 (Surface)

Elev = 828.51



Elev = 826.69 E= 2163988.36 TPT-3/4" iron rod N= 13756091.03



74139

TEST HOLE NUMBER:

w

SAM, Inc. Project Number: 31270-31

Record Utility: Utility Sta./Offset: Utility Location:

Inside NACO pump stat O'Connor Road, San Ar

Project Location:

Utility Owner:

SAWS 48" Water line

Contact/Phone:

Alissa Lockett, P.E.

Field Conditions: Field Crew:

Off roadway

Gabriel Johnson and Miller Pipeline

Utility Depth (Top):

5.7

All excavation was performed with air/vacuum excavation equipment.

No additional utilities were found within Tes-

Hole # 3 excavation.

prior to air/vacuum excavation of the utility electronically designating the water line

ita information	Date: November 7, 2011 Client: Tetra Tech	, 2011
	Project: SAWS NAC	SAWS NACO Pump Station QL-A
ntonio	Surface Material:	Asphalt
ition	Surface Elevation:	822.73
	Thickness & Condition:	Good
	Trench Material:	Clay and aggregate
	Utility Bedding Material:	Clay and aggregate
10-233-3401	Utility Found:	48" concrete coated pipe
	Utility Condition:	Good

COMMENTS

1. SAM, Inc. located Test Hole # 3 by

#### TEST HOLE **JEST HOLE** TEST HOLE 1 ₹ SURFACE LEGEND UTILITY CROSS CONC CONCRETE GATE RUN 48, WV WATER VALVE SECTION WATER

#### PROJECT CONTROL

5

The picture depicts the existing water line excavated material and asphalt patch The Test Hole was backfilled with

N= 13755809.38 E= 2164216.11

TPT-3/4" iron rod N= 13756091.03 E= 2163988.36 Elev = 826.69

UTILITY
COORDINATES
N = 13755781.90
E = 2164806.47
Elev = 817.0

#### (Surface)

Pt # 500 TPT- Mag nail Elev = 828.51

Pt # 505

### TEST HOLE PICTURE



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**TEST HOLE NUMBER:** 

4

SAM, Inc. Project Number: 31270-31

Utility Sta./Offset: Utility Location:

Project Location:

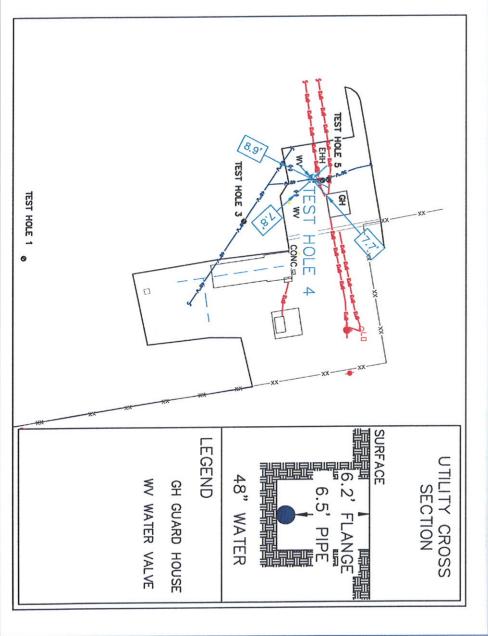
Record Utility:

Contact/Phone: Utility Owner:

Field Conditions: Field Crew:

Off roadway

:L - A: Test Hole Data Information  Number: 31270-31	Date: November 7, 2011 Client: Tetra Tech	, 2011
	Project: SAWS NAC	Project: SAWS NACO Pump Station QL-A
O'Connor Road, San Antonio	Surface Material:	Natural ground
Inside NACO pump station	Surface Elevation:	824.75
N/A	Thickness & Condition:	Good
48"x36" Tee Water line	Trench Material:	Clay and aggregate
SAWS	Utility Bedding Material:	Clay and aggregate
Alissa Lockett, P.E. 210-233-3401	Utility Found:	48" concrete coated p
N/A	Utility Condition:	Good
Gabriel Johnson and Miller Pipeline	Utility Depth (Top):	6.2' to flange



#### PROJECT

(Surface)

6.5' to pipe N. of flange

te coated pipe

Elev = 828.51E= 2164216.11 Pt # 500 N= 13755809.38 TPT- Mag nail

TPT-3/4" iron rod N= 13756091.03 E= 2163988.36 Elev = 826.69Pt # 505

#### COORDINATES ALITIES A

Elev = 818.6 flange N = 13755807.01E = 2164791.22818.3 pipe

#### COMMENTS

- 1. SAM, Inc. located Test Hole # 4 by No additional utilities were found within Tes-Hole # 4 excavation. prior to air/vacuum excavation of the utility electronically designating the water line
- All excavation was performed with The Test Hole was backfilled with air/vacuum excavation equipment
- excavated material.
- The picture depicts the existing water line.

5

### TEST HOLE PICTURE



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1-23-11

SAM, Inc. Project Number: 31270-31

Project Location:

Date: TEST HOLE NUMBER: November 9, 2011

O

Client: Project:

SAWS NACO Pump Station QL-A

Both good	Utility Condition:	N/A
36" pipe and 1.0'x0.5' conc duct	Utility Found:	Alissa Lockett, P.E. 210-233-3401
Clay and aggregate	Utility Bedding Material:	SAWS
Clay and aggregate	Trench Material:	48"x36" Tee Water line
Good	Thickness & Condition:	N/A
825.14 (W), 825.29 (E-Duct)	Surface Elevation:	Inside NACO pump station
Natural ground	Surface Material:	O'Connor Road, San Antonio

Contact/Phone: Utility Owner: Record Utility: Utility Sta./Offset Utility Location:

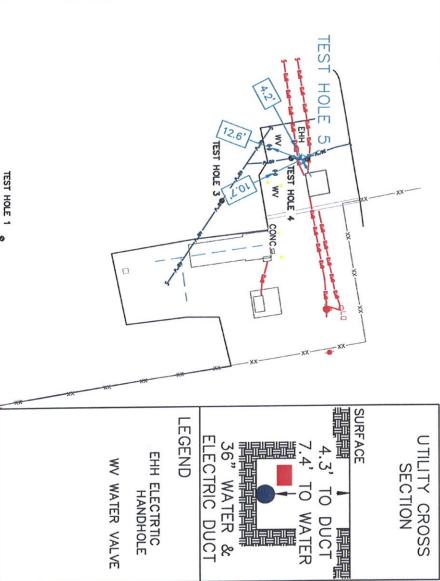
Field Conditions:

Off roadway

Gabriel Johnson and Miller Pipeline

Utility Depth (Top):

4.3 to Electric duct 7.4' top pipe



Pt # 500 TPT- Mag nail Elev = 828.51E= 2164216.11 N= 13755809.38

N= 13756091.03 E= 2163988.36 TPT-3/4" iron rod Pt # 505 Elev = 826.69

#### COORDINATES UTILITY

N = 13755810.87 E = 2164791.72 Elev = 817.7 Water line

Electric duct N = 13755812.96 E = 2164791.44 Elev = 821.0

#### COMMENTS

- SAM, Inc. located Test Hole # 5 by record air/vacuum excavation of the utility. information for the water line prior to
- All excavation was performed with A concrete electric duct 2' north of pipe was also found within Test Hole #5 excavation.
- The Test Hole was backfilled with air/vacuum excavation equipment
- excavated material.
- The picture depicts the existing water line.

5 4 ω

PROJECT CONTROL

(Surface)

### TEST HOLE PICTURE



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Marie JANO! 55N35 74139

11-23-1

SAM, Inc. Project Number: 31270-31

Utility Sta./Offset: Utility Location:

N

Inside NACO pump station O'Connor Road, San Antonio

72"x60"x48" Tee Water line

Project Location:

Address: Contact/Phone: Utility Owner: Record Utility:

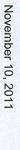
Field Conditions: Field Crew:

Off roadway

Gabriel Johnson and Miller Pipeline

Alissa Lockett, P.E. 210-233-3401

Utility Found:	Utility Bedding Material:	Trench Material:	Thickness & Condition:	Surface Elevation:	Surface Material:	Project: S/	Client: Te	דעוני.
60"	Material: Cla	al: Cla	Condition: Go	tion: 823	rial: Nat	SAWS NACO Pu	Tetra Tech	ואטעטוווטטו וט, בט



TEST HOLE NUMBER:

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ımp Station QL-A

ace Material:	Natural ground
ace Elevation:	823.93
kness & Condition:	Good
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Utility Condition: Good ay & aggregate w/rocks and conc " CSC pipe ay and aggregate

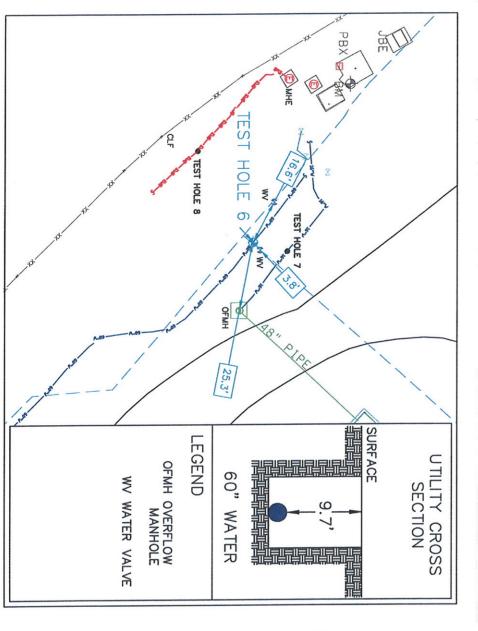
Utility Depth (Top):

9.7

COMMENTS

- SAM, Inc. located Test Hole # 6 by electronically designating the water line Hole # 6 excavation. No additional utilities were found within Test prior to air/vacuum excavation of the utility.
- 3 All excavation was performed with air/vacuum excavation equipment
- excavated material. The Test Hole was backfilled with
- The picture depicts the existing water line

5



#### PROJECT CONTROL (Surface)

N= 13755809.38 E= 2164216.11 TPT- Mag nail Elev = 828.51

Pt # 500

Pt # 505 Elev = 826.69E= 2163988.36 TPT-3/4" iron rod N= 13756091.03

#### COORDINATES ALITIES

N = 13755900.26 E = 2164081.94 Elev = 814.2

### TEST HOLE PICTURE





SAM, Inc. Project Number: 31270-31

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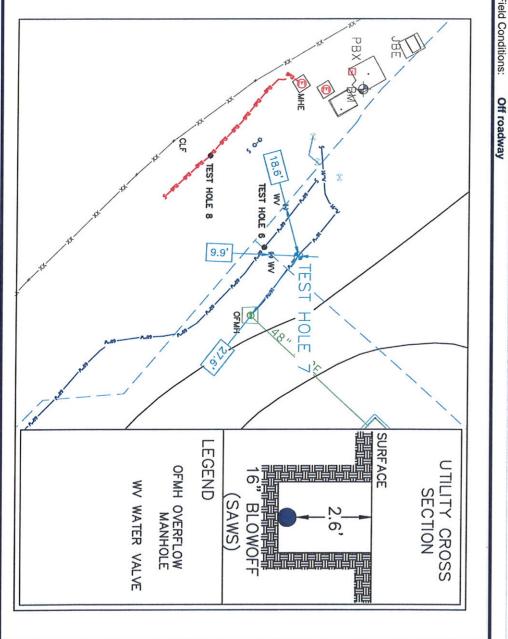
Client: Date: November 10, 2011

Project: SAWS NACO Pump Station QL-A

2.6'	Utility Depth (Top):	Gabriel Johnson and Miller Pipeline	Field Crew:
Good	Utility Condition:	NA	Address:
16" steel pipe	Utility Found:	Alissa Lockett, P.E. 210-233-3401	Contact/Phone:
Clay and aggregate	Utility Bedding Material:	SAWS	Utility Owner:
Clay and aggregate	Trench Material:	16" Steel Blow off Water pipe	Record Utility:
Good	Thickness & Condition:	N/A	Utility Sta./Offset:
826.34	Surface Elevation:	Inside NACO pump station	Utility Location:
Natural ground	Surface Material:	O'Connor Road, San Antonio	Project Location:

Field Conditions:

Surface Elevation: Thickness & Condition: Trench Material: Utility Bedding Material Utility Found: Utility Condition:
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#### PROJECT CONTROL (Surface)

5

The picture depicts the existing water line

Pt # 500 TPT- Mag nail

Elev = 828.51E= 2164216.11 N= 13755809.38

TPT-3/4" iron rod N= 13756091.03 E= 2163988.36 Pt # 505 Elev = 826.69

#### UTILITY

COORDINATES N = 13755912.72 E = 2164085.22 Elev = 823.7

#### COMMENTS

- 1. SAM, Inc. located Test Hole # 7 by No additional utilities were found within Test electronically designating the water line prior to air/vacuum excavation of the utility. Hole # 7 excavation.
- All excavation was performed with air/vacuum excavation equipment. The Test Hole was backfilled with
- excavated material.

### TEST HOLE PICTURE





SAM, Inc. Project Number: 31270-31

## TEST HOLE NUMBER:

00

Client: Date: November 10, 2011 Tetra Tech

Project: SAWS NACO Pump Station QL-A

O'Connor Road, San Antonio Inside NACO pump station N/A Electric Duct SAWS	Surface Material: Surface Elevation: Thickness & Condition: Trench Material: Utility Bedding Material:	Natural ground 819.28 Good Rocky clay
N/A	Thickness & Condition:	Good
Electric Duct	Trench Material:	Rocky clay
SAWS	Utility Bedding Material:	Rocky clay
Alissa Lockett, P.E. 210-233-3401	Utility Found:	1.5'x1.5' concrete duct
N/A	Utility Condition:	Good
Gabriel Johnson and Miller Pipeline	Utility Depth (Top):	3.3



Field Conditions:

Off roadway Gabriel Johns

Field Crew:

Record Utility: Utility Sta./Offset

Utility Location: Project Location:

Contact/Phone: Utility Owner:

#### M EST HOLE TEST HOLE $\infty$ **TEST HOLE** 1 SURFACE LEGEND .5/x1.5/ ELECTRIC UTILITY CROSS MHE ELECTRIC MANHOLE CLF CHAIN LINK WV WATER VALVE SECTION FENCE CONCRETE DUCT

#### PROJECT CONTROL (Surface)

Pt # 500 TPT- Mag nail N= 13755809.38 E= 2164216.11 Elev = 828.51

TPT-3/4" iron rod N= 13756091.03 E= 2163988.36 Elev = 826.69Pt # 505

COORDINATES N = 13755880.03 E = 2164048.49 Elev = 816.0 UTILLITY

COMMENTS

- 1. SAM, Inc. located Test Hole # 8 by No additional utilities were found within Tes Hole # 8 excavation. prior to air/vacuum excavation of the utility electronically designating the electric line
- All excavation was performed with air/vacuum excavation equipment
- excavated material. The Test Hole was backfilled with
- Ö The picture depicts the existing duct

### TEST HOLE PICTURE



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1-23-1