

Guidebook Version 1.5 (January 8, 2016)

**THE CITY OF SAN JOSE RWF UTILITY LOCATING TEAM IS  
HERE TO HELP YOU**



**Know what's below.  
Call before you dig.**



**DIG SAFE  
GUIDEBOOK**

**San Jose/Santa Clara  
Regional Wastewater Facility  
City of San Jose  
Environmental Services Department  
700 Los Esteros Road, San Jose CA 95134**



## **ABOUT THIS GUIDEBOOK**

This guidebook provides information about the San Jose/Santa Clara Regional Wastewater Facility (RWF) policy regarding the locating/ marking/designating of underground utilities. The following information is provided in this guidebook:

- ✓ When to notify USA North.
- ✓ How the RWF's Utility Locating Team can assist you in minimizing risk of damage to underground utilities, and the identification of buried or exposed underground utilities before, during, or after an excavation.
- ✓ Provides a named list of underground utilities, their associated RWF Field Marking ID and USA Color Code.

**It is the goal of the RWF to do our best in ensuring your excavation is done with minimal risk of damage to underground utilities and minimal risk to your workers.**

## **1. When should USA North be contacted?**

The San Jose/Santa Clara Regional Wastewater Facility is a member of USA Northern California (USA North). USA ticket code = SJSCRWF.

All Contractors are required to contact USA North at least 2 Business Days before digging at the following number:

**811 or 1-800-227-2600**

RWF Utility Locating Team will be automatically notified during this process.

## **2. What types of underground utilities occur in the RWF?**

There are approximately 150 miles of RWF-owned underground utilities located on the 4.75 square miles of RWF Property. These include buried pipelines carrying over 60 different products. These products include Gases (ex: Natural Gas and Digester Gas) and Chemical Liquids (ex: Aluminum Sulfate, Sodium Bisulfite, and Sodium Hypochlorite), in addition to other products such as sewage, sludge, and water. Furthermore, there are high voltage buried electrical conduits/duct banks, fiber optic conduits/duct banks, and telephone/communication conduits/duct banks.

## **3. How can the RWF Utility Locating Team assist you?**

In addition to performing the USA work, the RWF Utility Locating Team can also assist you in the identification of exposed buried utilities. During a pre-excavation site walk, we explain what you can expect to find if you plan on excavating in a certain area. In addition, we can provide you a map of known underground utilities in your excavation area. If you are digging and find something unexpected, call us!

## **4. What can I expect when I contact RWF Utility Locating Team?**

The RWF has three staff that perform locating/marketing/designating of underground utilities. They are equipped with state-of-the-art utility locating technologies: Conductive/Inductive Locator, Magnetic/Acoustic/Vibration Locators, Ground Penetrating Radar (GPR), Sondes, Fish Tape, FlexiTrace Wire, Global Positioning System (GPS), and a Geographic Information System (GIS) database of all known installed/abandoned underground utilities located on RWF Property. We will work closely with you in ensuring your excavation is done as safe as possible.

## 5. How do I contact the RWF Utility Locating Team?

Contact Information:

Tim Hayes, Senior Geographic Systems Specialist

Kent Brown, Geographic Systems Specialist II

Renee Gerasimtchouk, Geographic Systems Specialist II

Phone: (408) 771-1368

E-mail: [plantusa@sanjoseca.gov](mailto:plantusa@sanjoseca.gov)

REMEMBER:

1. **Contact USA North 2 days prior to digging**
2. Need a map of underground utilities? [Contact RWF Utility Locating Team](#)
3. Doing a pre-excavation site walk? [Contact RWF Utility Locating Team](#)
4. Need to trace an exposed underground utility? [Contact RWF Utility Locating Team](#)
5. Did you expose a known, or previously unknown, underground utility during excavation? [Contact RWF Utility Locating Team](#)
6. Have a question about the location of an underground utility? [Contact RWF Utility Locating Team](#)

**The table on the following pages provides an alphabetical list of RWF underground utilities. It includes: RWF field marking ID, associated USA color code, and the RWF product (utility) name.**

**USE WHAT IS LISTED ON THIS TABLE  
AS A FIELD REFERENCE WHEN IDENTIFYING  
RWF USA FIELD MARKINGS**

**Color Code for:**  
 Marking Excavation Sites & Underground Facilities

PROPOSED EXCAVATION	TEMPORARY SURVEY MARKINGS
ELECTRIC	GAS-OIL-STEAM CHEMICAL
COMMUNICATION CATV	WATER
RECLAIMED WATER IRRIGATION SLURRY	SEWER STORM DRAIN

**811 USA North**  
 Know what's below.  
 Call before you dig.

California and Nevada  
 Call Two Working Days Before You Dig!  
**811 / 800-227-2600**

**PLEASE NOTE:**

The USA Color Codes for RWF Underground Utilities are intended to correspond with the above Color Code Card provided by USA North.

<b>RWF FIELD MARKING ID</b>	<b>USA COLOR CODE</b>	<b>RWF PRODUCT NAME</b>
AA	Yellow	Aqua Ammonia Solution
ALUM	Yellow	Aluminum Sulfate
BG	Yellow	Blended Gas
BS	Green	Blended Sludge
BWOF	Green	Backwash Overflow
COM	Orange	Communication
CPC	Orange	Cathodic Protection Conduit
CWR	Blue	Chilled Water Return (45 degrees F)
CWS	Blue	Chilled Water Send (45 degrees F)
D	Green	Drain
EDB	Red	Electrical Duct Bank
DG	Yellow	Digester Gas
DLE	Green	DAFT Liquid Effluent
DOF	Green	Digester Overflow
DWD	Green	Drainage Well Discharge
EBR	Green	Equalization Basin Return
EBSR	Green	Equalization Basin Return/Supply
EDS	Green	Export Digested Sludge
ELEC	Red	Electrical
FI	Green	Filter Influent
FO	Orange	Fiber Optic
FOS	Yellow	Fuel Oil Supply
GR	Green	Grit Slurry
HWR	Yellow	Hot Water Return (Very Hot! 160 <sup>0</sup> )
HWS	Yellow	Hot Water Send (Very Hot! 160 <sup>0</sup> )
IPA	Yellow	Instrument Plant Air (80psi)
IST	Green	Interlagoon Sludge Transfer
LG	Yellow	Landfill Gas
ML	Green	Mixed Liquor
NE	Green	Nitrification Effluent

<b>RWF FIELD MARKING ID</b>	<b>USA COLOR CODE</b>	<b>RWF PRODUCT NAME</b>
NG	Yellow	Natural Gas
NI	Green	Nitrification Influent
NSM	Green	Nitrification Scum
OF	Green	Overflow
PA	Yellow	Process Air (20psi)
PD	Green	Pumped Drainage
PE	Green	Primary Effluent
PLE	Green	Plant Effluent
PSM	Green	Primary Scum
RAS	Green	Return Activated Sludge
RS	Green	Raw Sewage
RW	Purple	Recycled Water
SA	Green	Sample
SBS	Yellow	Sodium Bisulfite Solution
SD	Green	Storm Drain
SE	Green	Secondary Effluent
SHC	Yellow	Sodium Hypochlorite
SHLR	Yellow	Space Heat Loop Return (Very Hot! 140 <sup>0</sup> )
SHLS	Yellow	Space Heat Loop Send (Very Hot! 140 <sup>0</sup> )
SI	Green	Secondary Influent
SN	Green	Supernatant
SPD	Green	Sump Pump Drain
SS	Green	Sanitary Sewer
SSM	Green	Secondary Scum
TBW	Green	Treated Backwash Water
TDS	Green	Transfer Digested Sludge
TEF	Green	Thickener Effluent (Scum & Grease Slurry Mix)
TS	Green	Thickened Sludge
WAS	Green	Waste Activated Sludge
WBW	Green	Waste Backwash Water
WBWOF	Green	Waste Backwash Water Overflow
WTR1	Blue	No.1 Water (Potable)
WTR2	Green	No.2 Water (Groundwater— NonPotable)
WTR3	Green	No.3 Water (Process—NonPotable)
WTR4	Green	No.4 Water (Process—NonPotable)