

OU1 Remediated Groundwater End Use Options

- ON Semiconductor, Inc. planning shutdown of manufacturing operations at its 52nd Street facility
 - Currently December 2010
- Various alternative end uses for the treated groundwater from the OU1 Integrated Groundwater Treatment Plant

- **Preliminary options presented in April 2009**
 - Delivery to the Papago Park golf course for turf irrigation
 - Indirect discharge to the Grand Canal via discharge to an SRP lateral upstream of the Old Crosscut Canal (OCC)
 - Injection along the Old Crosscut Canal
 - Discharge to the Crosscut Canal via a pipeline east on McDowell through the Papago Buttes
 - Direct discharge to the Grand Canal crossing railroad, light rail and the 202 freeway

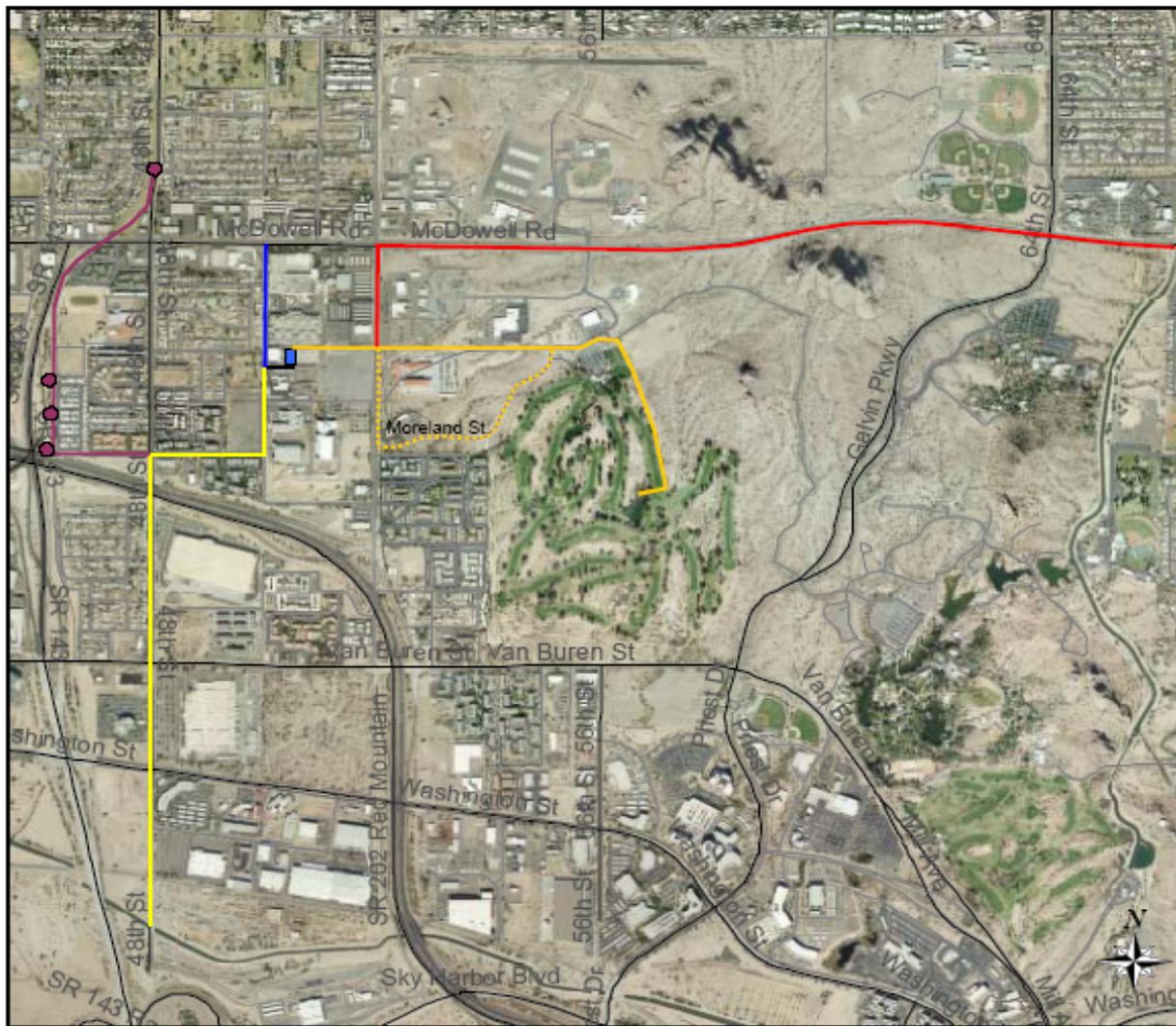


FIGURE 1
OPERABLE UNIT 1
POTENTIAL END USE
ALTERNATIVES

SANITARY SEWER

OLD CROSSCUT

GRAND CANAL

CROSSCUT CANAL

PAPAGO GOLF COURSE

PAPAGO GOLF COURSE (alt)

REINJECTION



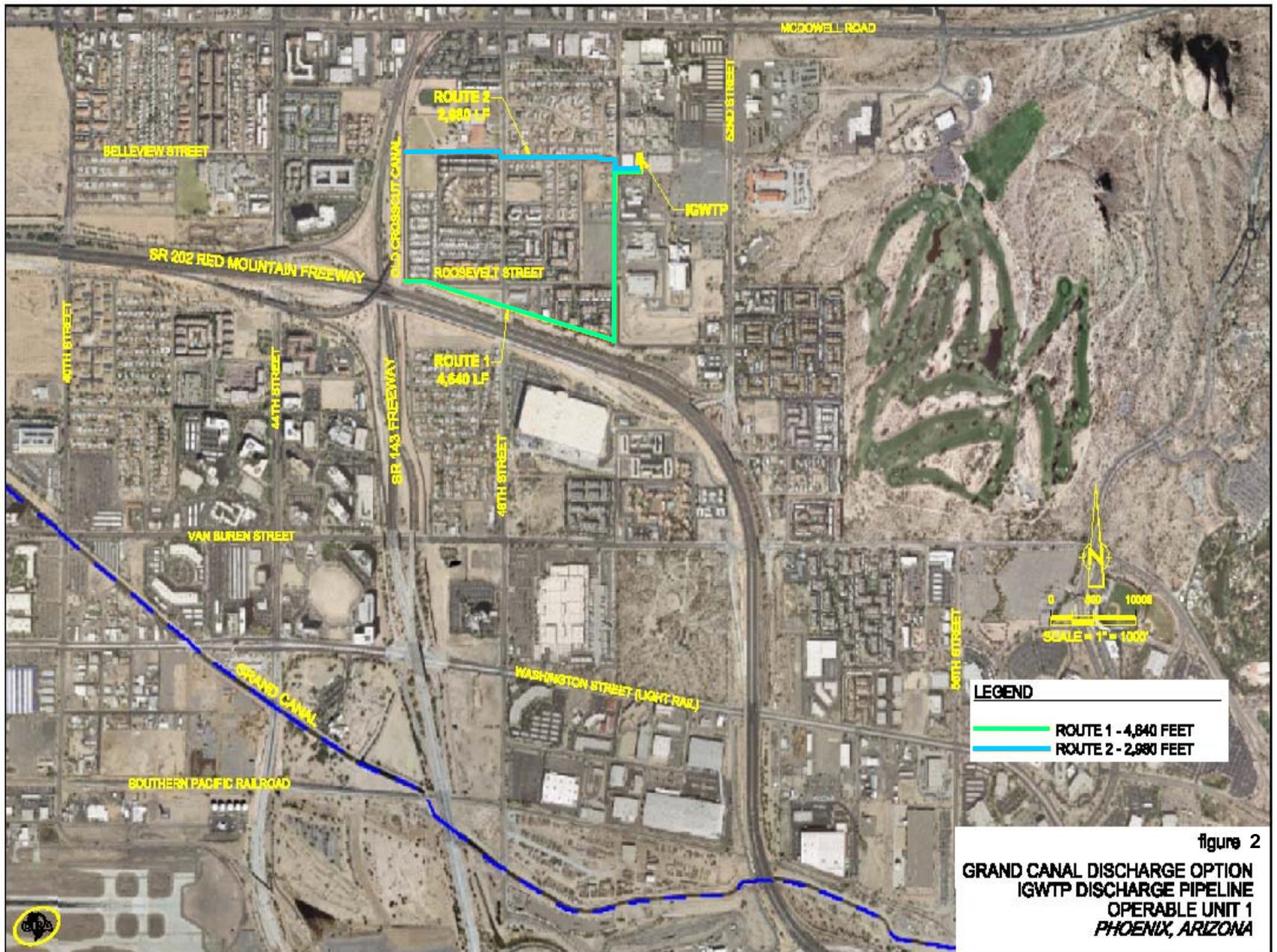
- Several options eliminated or modified due to logistical and/or regulatory difficulties
- No longer considering:
 - Delivery to the Papago Park golf course for turf irrigation
 - Discharge to the Crosscut Canal via a pipeline east on McDowell through the Papago Buttes
 - Direct discharge to the Grand Canal crossing railroad, light rail and the 202 freeway
- Modified the indirect discharge to the Grand Canal alternative to eliminate the use of the shared SRP lateral / City of Phoenix storm drain

- **ADEQ has approved short-term/backup option of discharge to the City of Phoenix sanitary sewer**
 - Freescale recently submitted the design to the City for final approval
 - When design approved, should take approximately 4 weeks to construct – minimal disruption to operation of the remedy
 - Should be ready when ON Semiconductor discontinues manufacturing operations

- **Long-term options being considered further**
 1. Discharge to the Grand Canal via the Old Crosscut Canal
 2. Injection of remediated water
 3. Use of portion of water in ON Semiconductor cooling towers

1- Discharge to the Grand Canal via OCC

- SRP will accept water into OCC – has demand & capacity
- Surface discharge permit will be applicable
- Two possible pipeline alignments being considered
 - City of Phoenix and ADOT rights-of-way or Brunson-Lee school



LEGEND

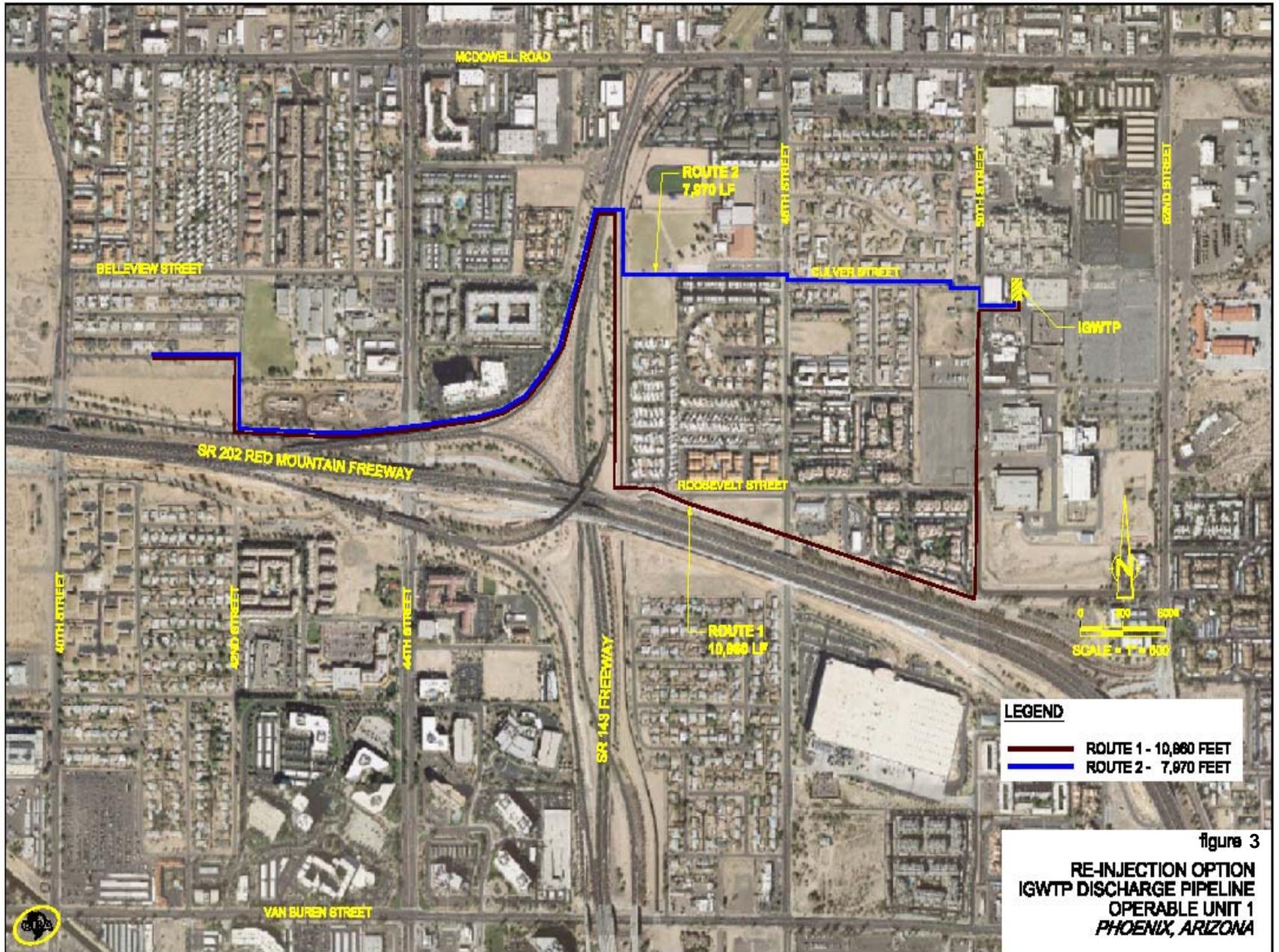
ROUTE 1 - 4,640 FEET

ROUTE 2 - 2,880 FEET

figure 2
 GRAND CANAL DISCHARGE OPTION
 IGWTP DISCHARGE PIPELINE
 OPERABLE UNIT 1
 PHOENIX, ARIZONA

2- Injection of remediated groundwater

- Few location options based on density of development – looking at 42nd St and Portland
- Clear Creek modeling to determine positive and negative impacts of injection in that area
- Two possible pipeline alignments from treatment plant to injection well



LEGEND

— ROUTE 1 - 10,980 FEET
— ROUTE 2 - 7,970 FEET

figure 3
**RE-INJECTION OPTION
 IGWTP DISCHARGE PIPELINE
 OPERABLE UNIT 1
 PHOENIX, ARIZONA**

3- Use portion of water at ON Semiconductor facility

- Freescale and ON Semiconductor to conduct study to evaluate whether feasible to use a portion of the remediated water in facility cooling towers
- In process of selecting a consultant

- Freescale and Clear Creek estimate can complete evaluation by end of 2010
- Will then submit evaluations and propose preferred alternative to Agencies for its consideration
- Will present to public for comment