

RECLAMATION

Managing Water in the West

Review of V and S Canals Newlands Project

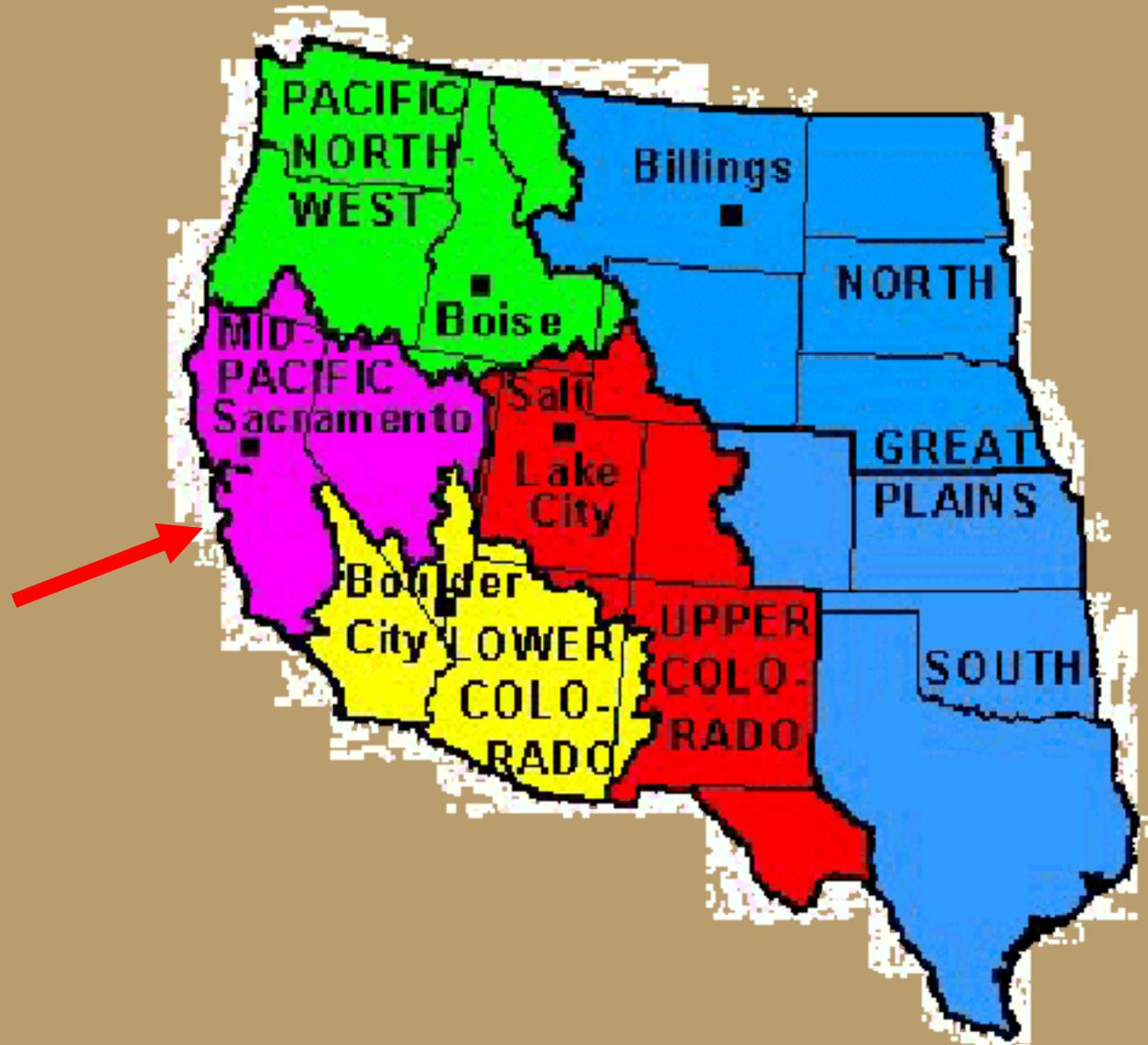
Operated by:

Truckee Carson Irrigation District



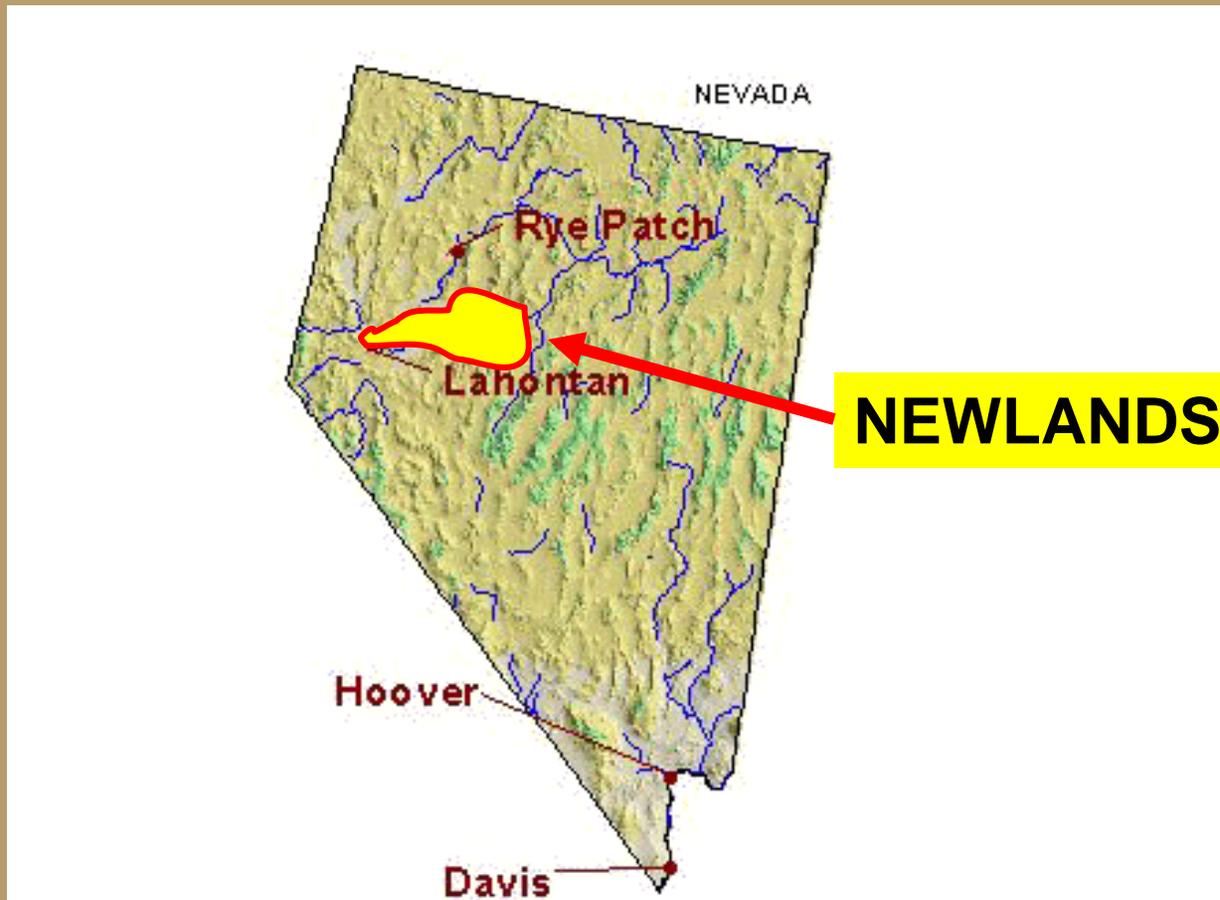
U.S. Department of the Interior
Bureau of Reclamation

MID-PACIFIC REGION



RECLAMATION

NEWLANDS PROJECT



NEWLANDS PROJECT

RECLAMATION

V-Line Canal



Typical Section

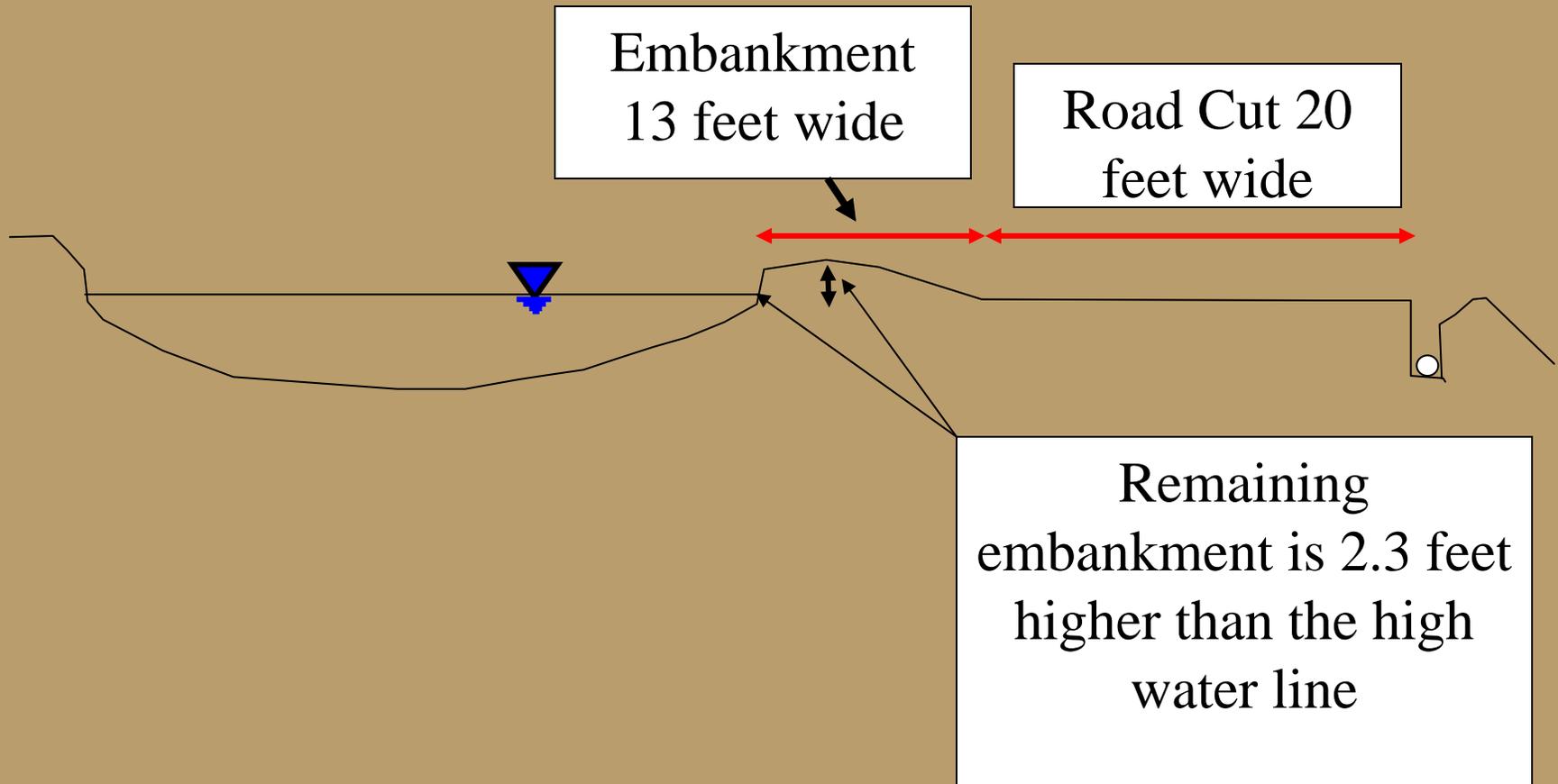
RECLAMATION

V-Line Canal



RECLAMATION

V- Line Canal



RECLAMATION

V-Line Canal Safety Issues

Mile Post	Potential Hazard Loss of Life	Potential Hazard Structural Damage	Potential Hazard Loss of Function
5.4 – 5.9	Low	Low to Medium	High

Observed Condition:

1. From Regan Place to Venturacci Lane, a road has been cut into the right embankment of the V-Line/S-Line canal.

This cut into the embankment puts the road near, or below, the estimated high water line of the canal and narrows the embankment to less than 13 feet wide.

V-Line Canal Safety Issues

Recommendation:

- 1. Determine the high-water operational level allowed in the canal. If the high-water level is above the road elevation restore the original canal width.**

S- Line Canal



Typical Section

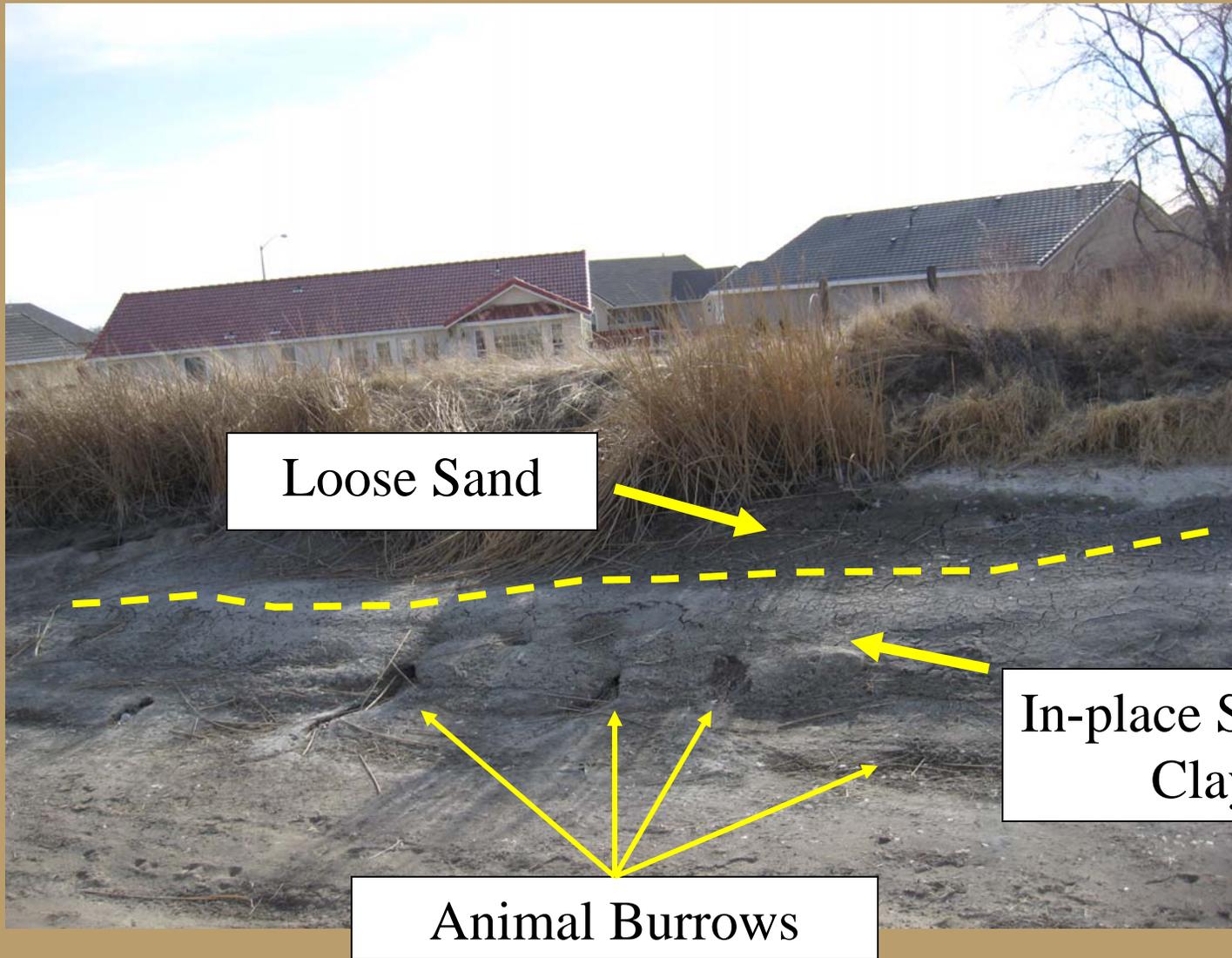
RECLAMATION

S-Line Canal



RECLAMATION

S-Line Canal



Loose Sand

In-place Silt and
Clay

Animal Burrows

RECLAMATION

S-Line Canal



Depression

RECLAMATION

S-Line Canal Safety Issues

Mile Post	Potential Hazard Loss of Life	Potential Hazard Structural Damage	Potential Hazard Loss of Function
1.7 – 1.9	Medium	Medium	Medium

Observed Condition:

- 1. Extensive creep/sloughing of the right embankment into the canal**
- 2. Abundant vegetation and animal burrows.**
- 3. The upper portions of this embankment appear to be largely composed of sandy non-compacted spoil.**
- 4. Depressions in the embankment suggest the presence of collapsed animal burrows and other potential piping paths**

S-Line Canal Safety Issues

Recommendation:

- 1. Determine the depth of in-place silt relative to high water conditions along the right side embankment.**
- 2. Clear vegetation and fill all animal burrows.**
- 3. Restrict high water level in the canal to below poorly compacted spoil, or reconstruct the upper portion of the right side embankment.**

RECLAMATION

RECLAMATION