

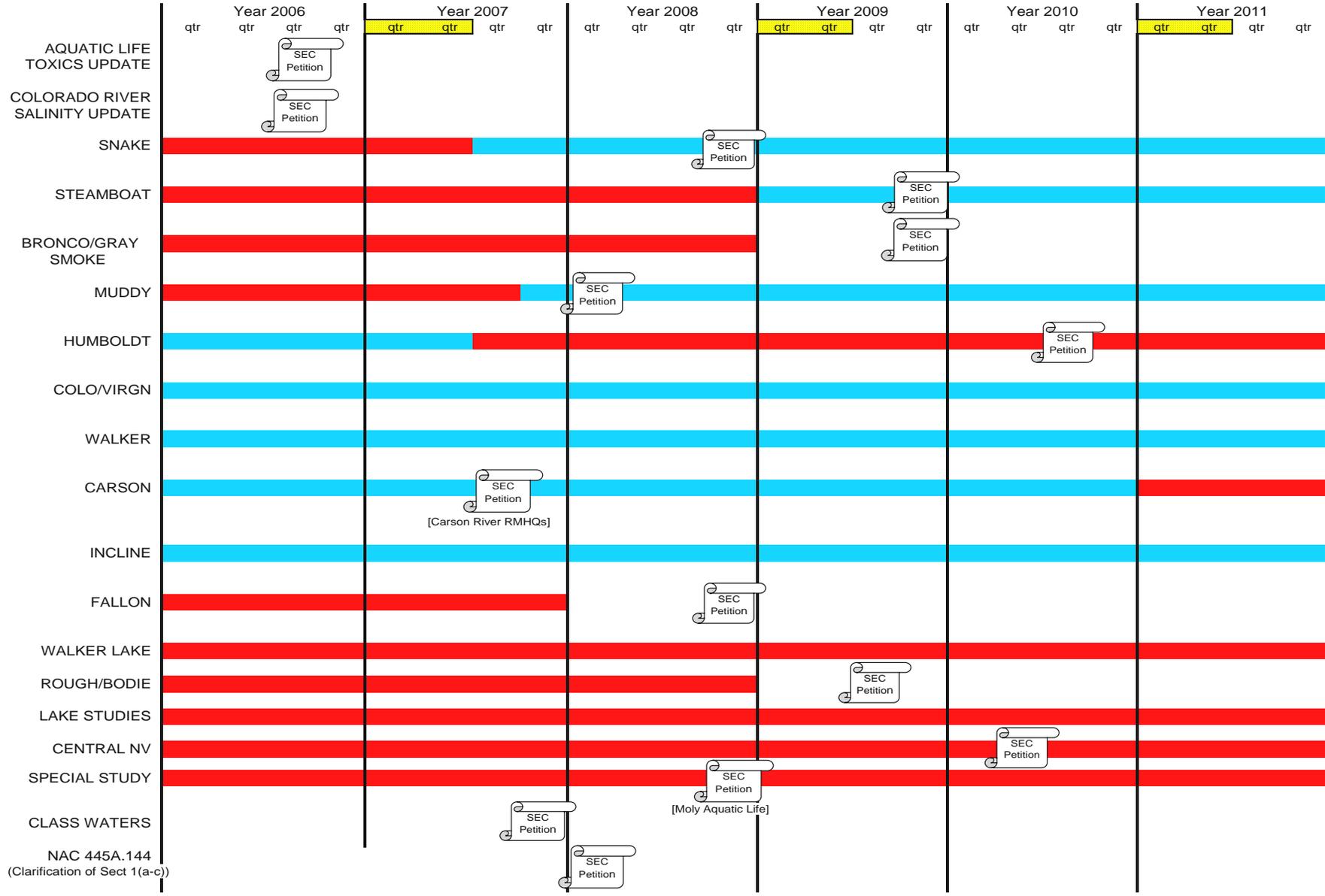
Preliminary Evaluation Muddy River Corridor Water Quality Standards

Sam Stegeman, P.E.

Nevada Division of Environmental
Protection Water Quality Planning Bureau

April 2007

CALENDAR YEAR



FULL SAMPLING (4x's/yr at ALL EXISTING MONITORING SITES) LEGISLATURE IN SESSION

BASE SAMPLING (2x's/yr at "TARGET SITES")



Standards Review; RMHQ's Update; Rationale Document; Petition Package for SEC Hearing

Muddy River

Background

- Clark County
- Colorado River Hydrographic Basin
 - Upper Moapa Valley
 - Lower Moapa Valley
- Flows 26(+) miles
 - Moapa-Glendale-Logandale-Overton

Muddy River

Background (continued)

- Overton Arm of Lake Mead
Boulder Basin
- Prior to Hoover Dam - flowed
into Virgin River
- Meadow Valley Wash
- Bowman Reservoir

Muddy River

Water Quality Standards

- Initially established 1979-1980
- Reviewed, revised, & approved in 1985
- Scheduled for review - Clean Water Act

Water Quality Standards

Key Elements

Beneficial uses

Criteria to protect beneficial uses

Antidegradation provision

Water Quality Regulations

Nevada Administrative Code (NAC)

Muddy River

Beneficial Uses

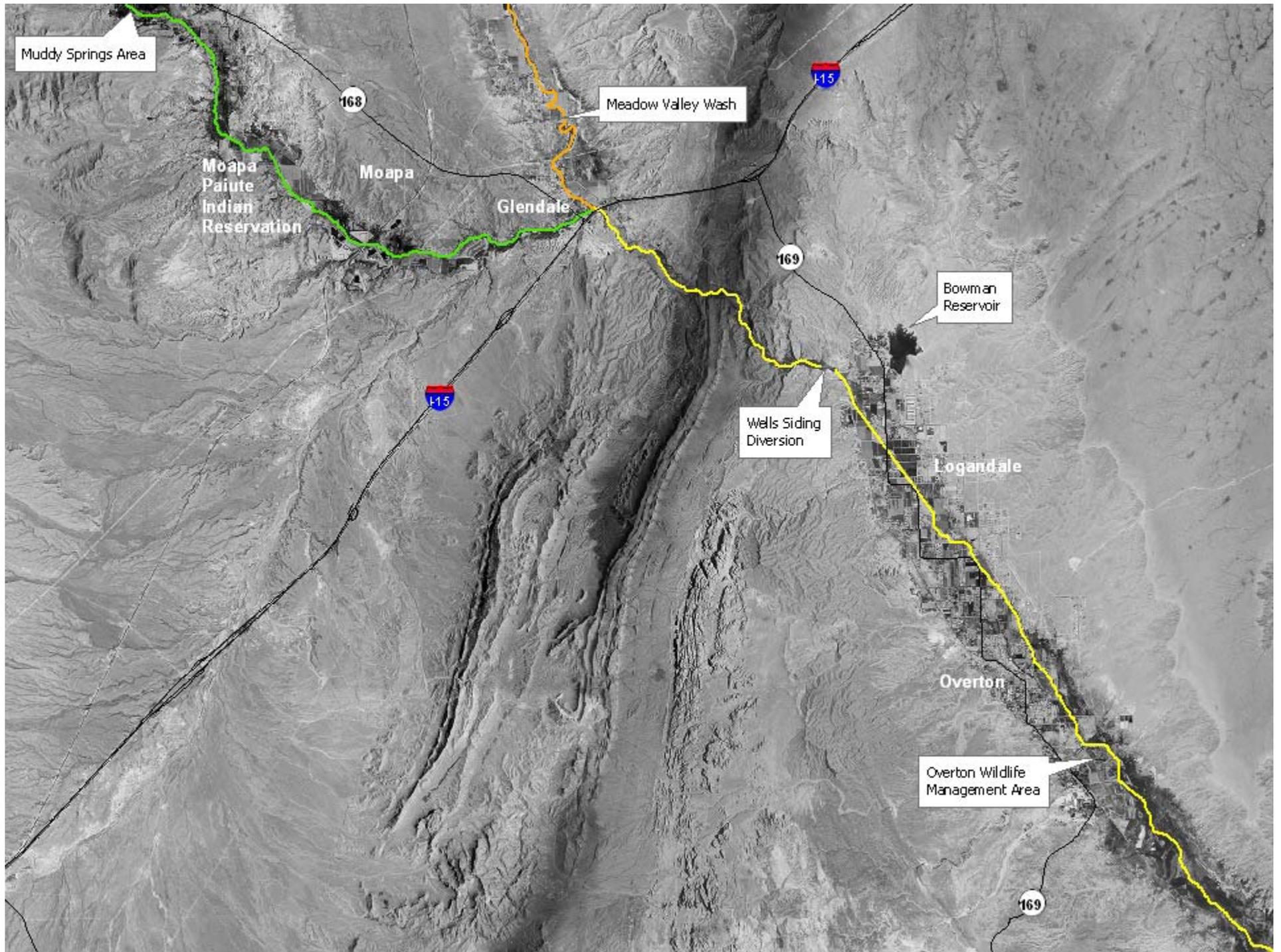
(NAC 445A.174 and 445A.209)

Water Quality Standards

(NAC 445A.210 and NAC 445A.211)

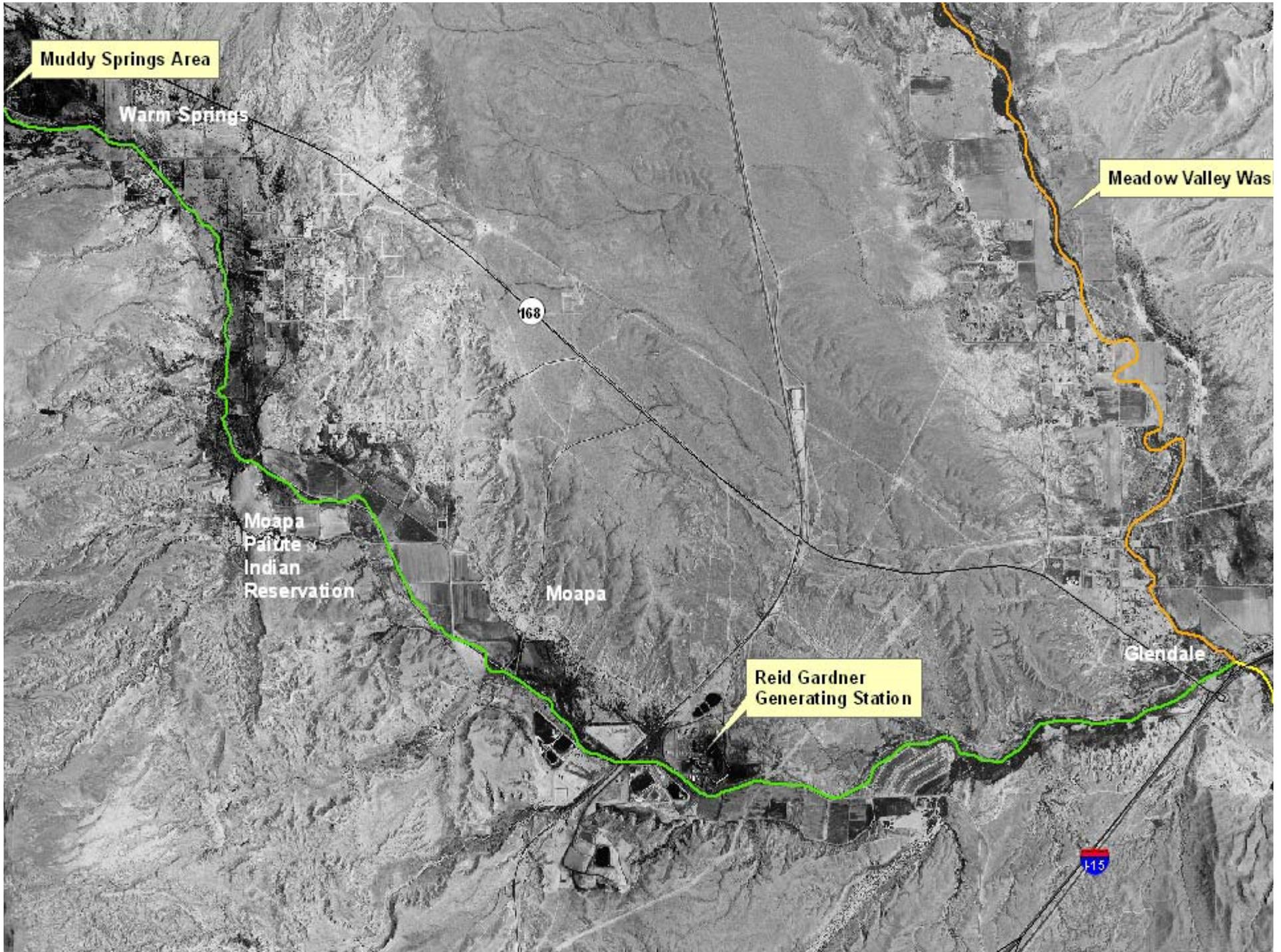
Preliminary Evaluation Muddy River Corridor Water Quality Standards Review

- Segmentation of the river
- Water quality standard changes



Upper Muddy River

- Reach: River source (Muddy Springs) to Glendale Bridge
- Beneficial Uses
Propagation of aquatic life and wildlife;
irrigation and livestock watering;
municipal or domestic supply; non-contact recreation; and industrial supply
- NAC 445A.210 Water Quality Standards



Muddy Springs Area

Warm Springs

Meadow Valley Wash

168

Moapa
Paiute
Indian
Reservation

Moapa

Reid Gardner
Generating Station

Glendale

15

Preliminary Evaluation Upper Muddy River

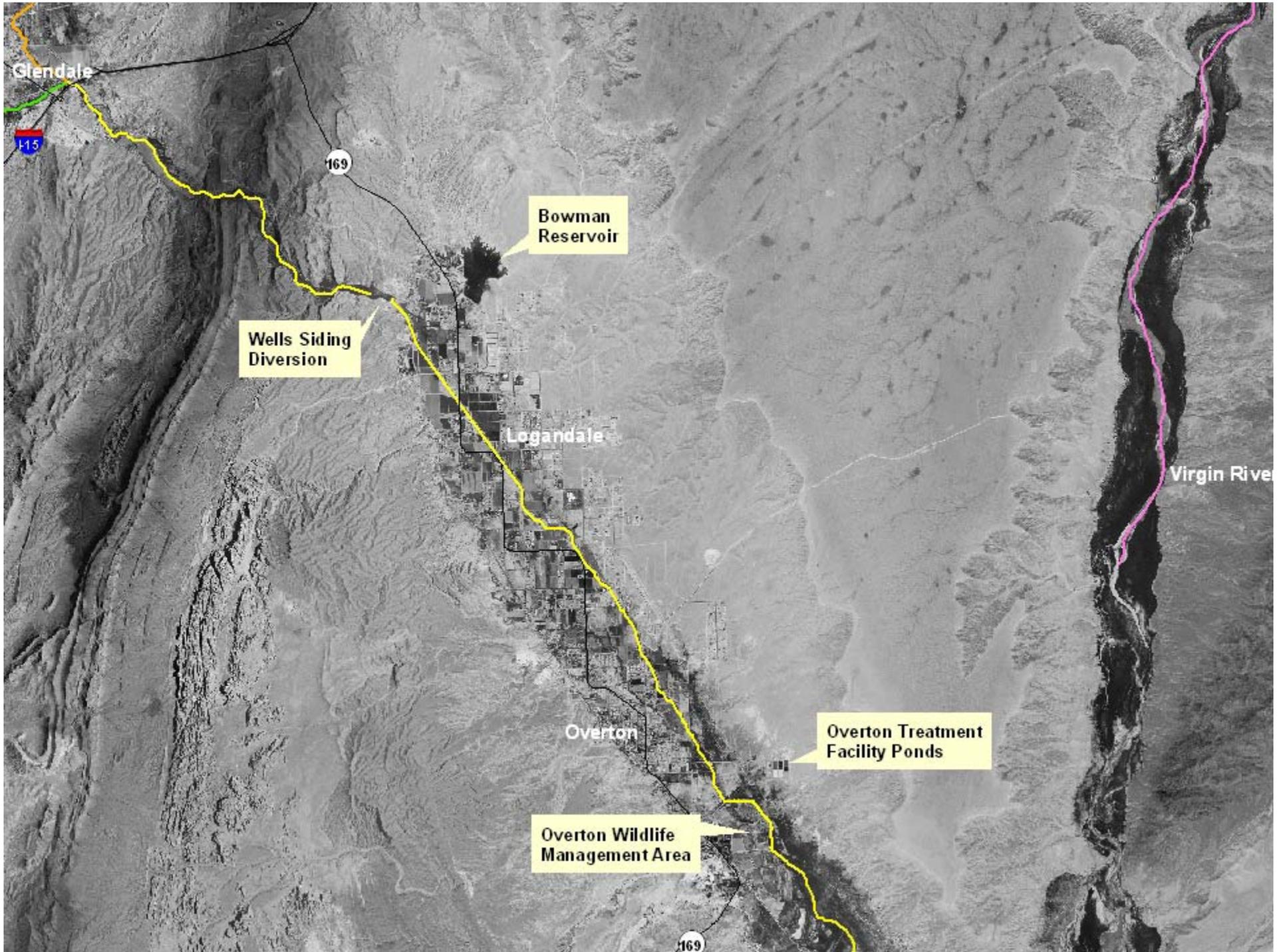
- Reach: River source (Muddy Springs) to Glendale Bridge
- Beneficial Uses
Add contact recreation

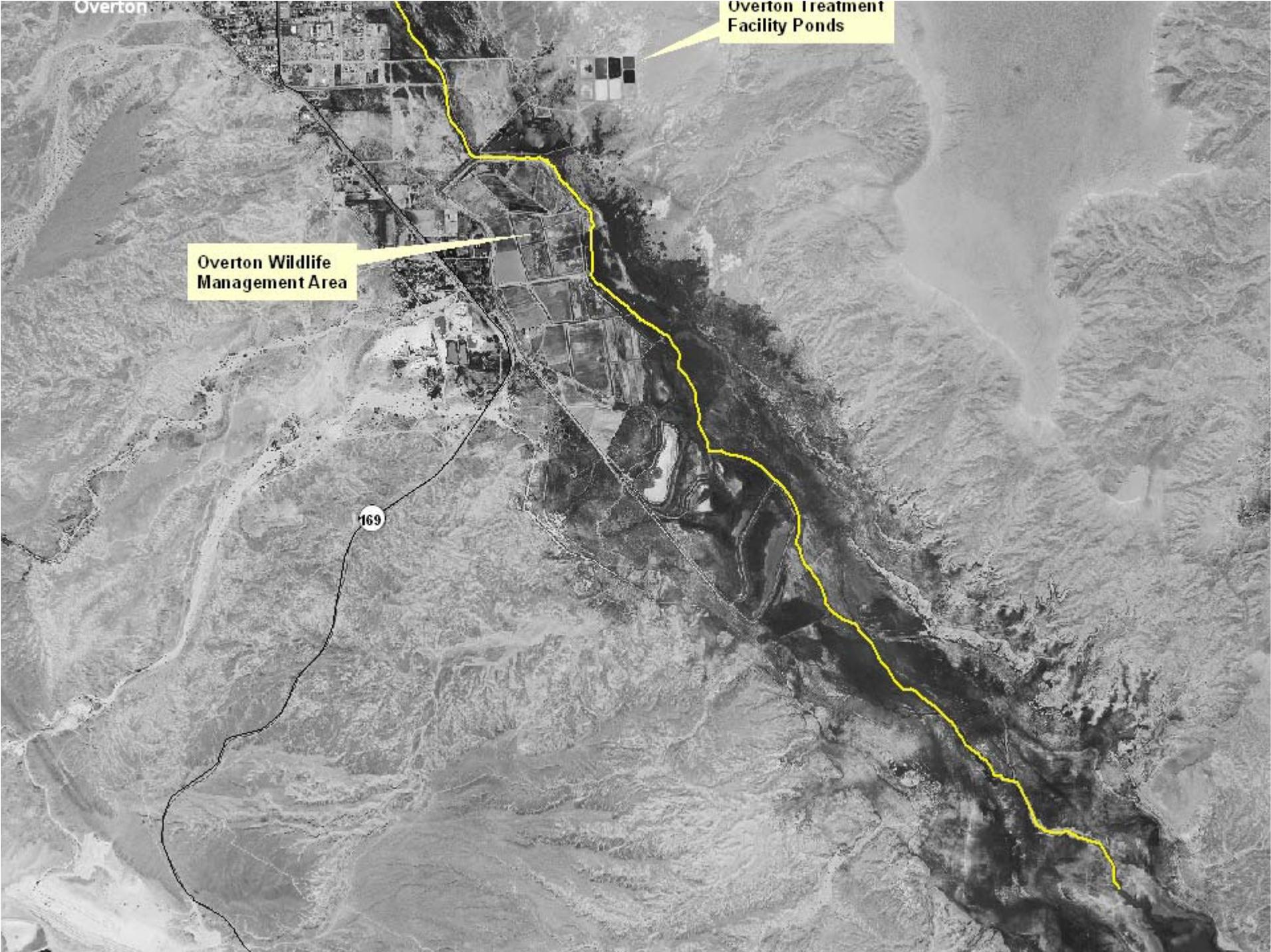
Preliminary Evaluation Upper Muddy River

- Water Quality Standards
NAC 445A.210 with following exceptions:
Revise Temperature Standards (NDOW/USFWS)
E. Coli standard - contact recreation
Fluoride standard - natural background levels

Lower Muddy River

- Reach: Glendale Bridge to mouth of river at Lake Med
- Beneficial Uses
Propagation of aquatic life and wildlife; irrigation and livestock watering; non-contact recreation; and industrial supply
- NAC 445A.211 Water Quality Standards





Preliminary Evaluation Lower Muddy River

- Reach: Glendale Bridge to mouth of river at Lake Mead
- Beneficial Uses: no changes
- Water Quality Standards
NAC 445A.211 with following exceptions:
Revise Temperature Standards (NDOW/USFWS)
Fluoride standard - natural background levels

Preliminary Evaluation Bowman Reservoir

- Class Waters Restructuring (NDEP-BWQP)
- Water Quality Standards
 - Revise Temperature Standards (NDOW/USFWS)
 - Fluoride standard - similar to Muddy River to reflect natural background levels

Proposed Schedule Muddy River Corridor Water Quality Standards Review

- Evaluation and Assessment: Summer 2007
- Public Workshops: Fall 2007
- SEC Public Hearing: Winter 2008
- NDEP-BWQP Contacts:

Sam Stegeman (775) 687-9451

Paul Comba (775) 687-9446