Lyon County Public Works

Septic Tank Elimination Project

Project Introduction

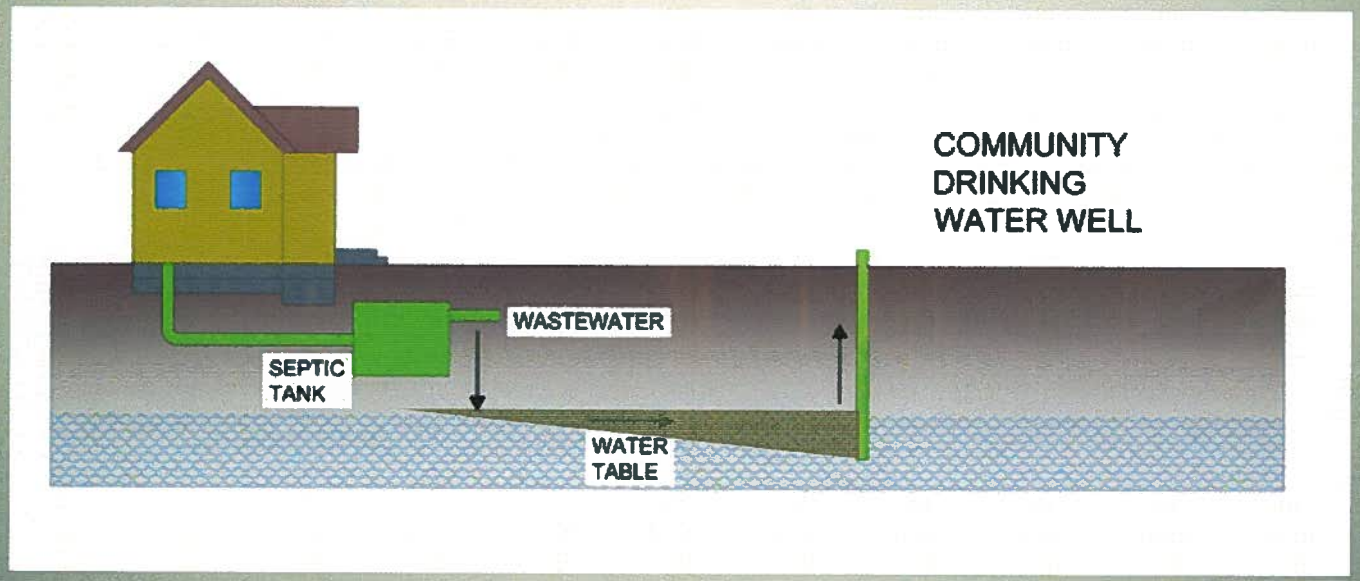
- Thank you for coming.
- We have a groundwater contamination problem.
- We have documented threats to public health.
- We have prepared a solution which includes gravity collection and community treatment of wastewater.
- We have secured grant funding to limit impacts to residents.
- We plan to be complete by early 2016.

Affected Subdivisions

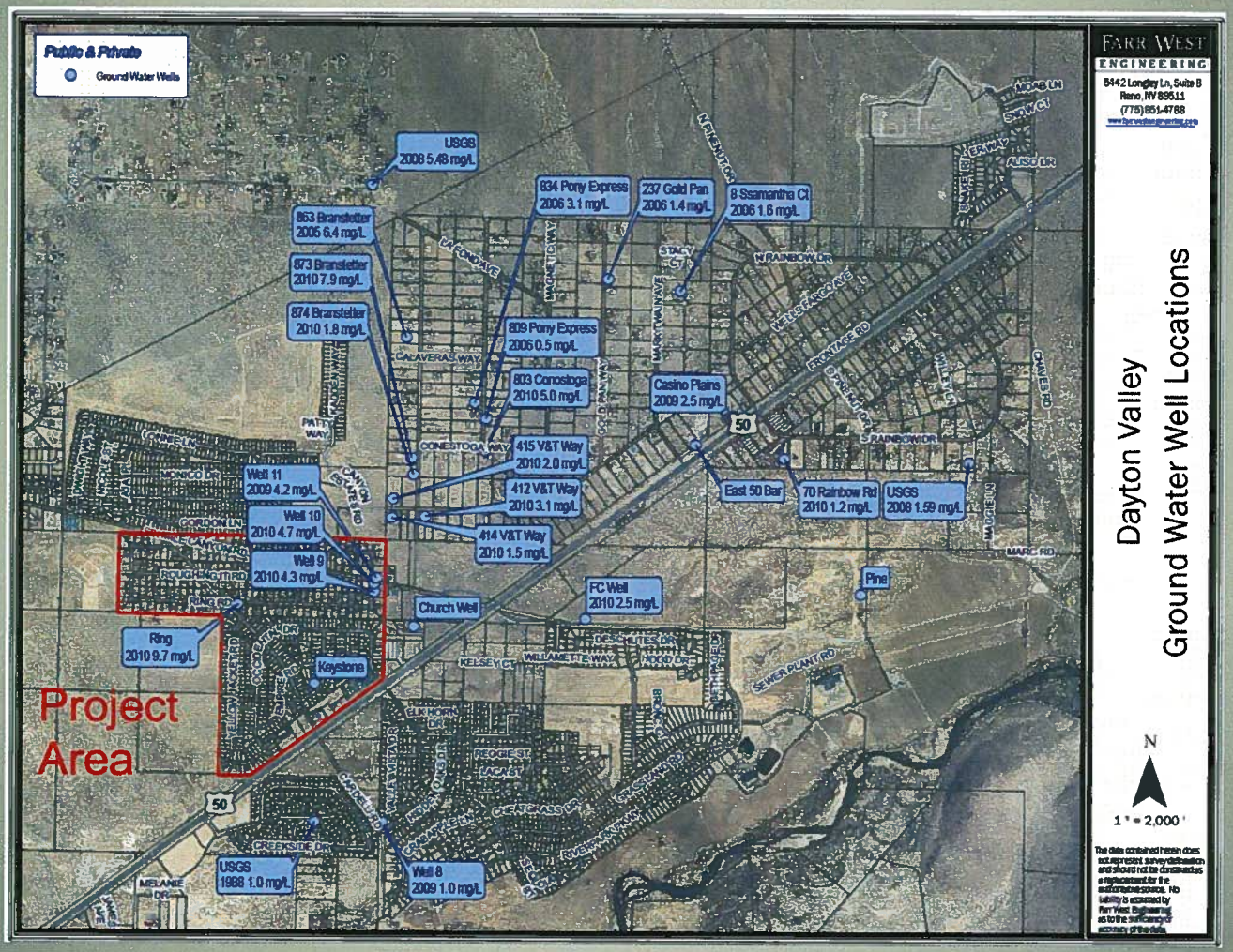
- Mark Twain Estates
- Daytona Heights

Groundwater Contamination

- The relatively high number of septic systems in the area are polluting the groundwater the community relies on.



Well Locations and Nitrate Concentrations



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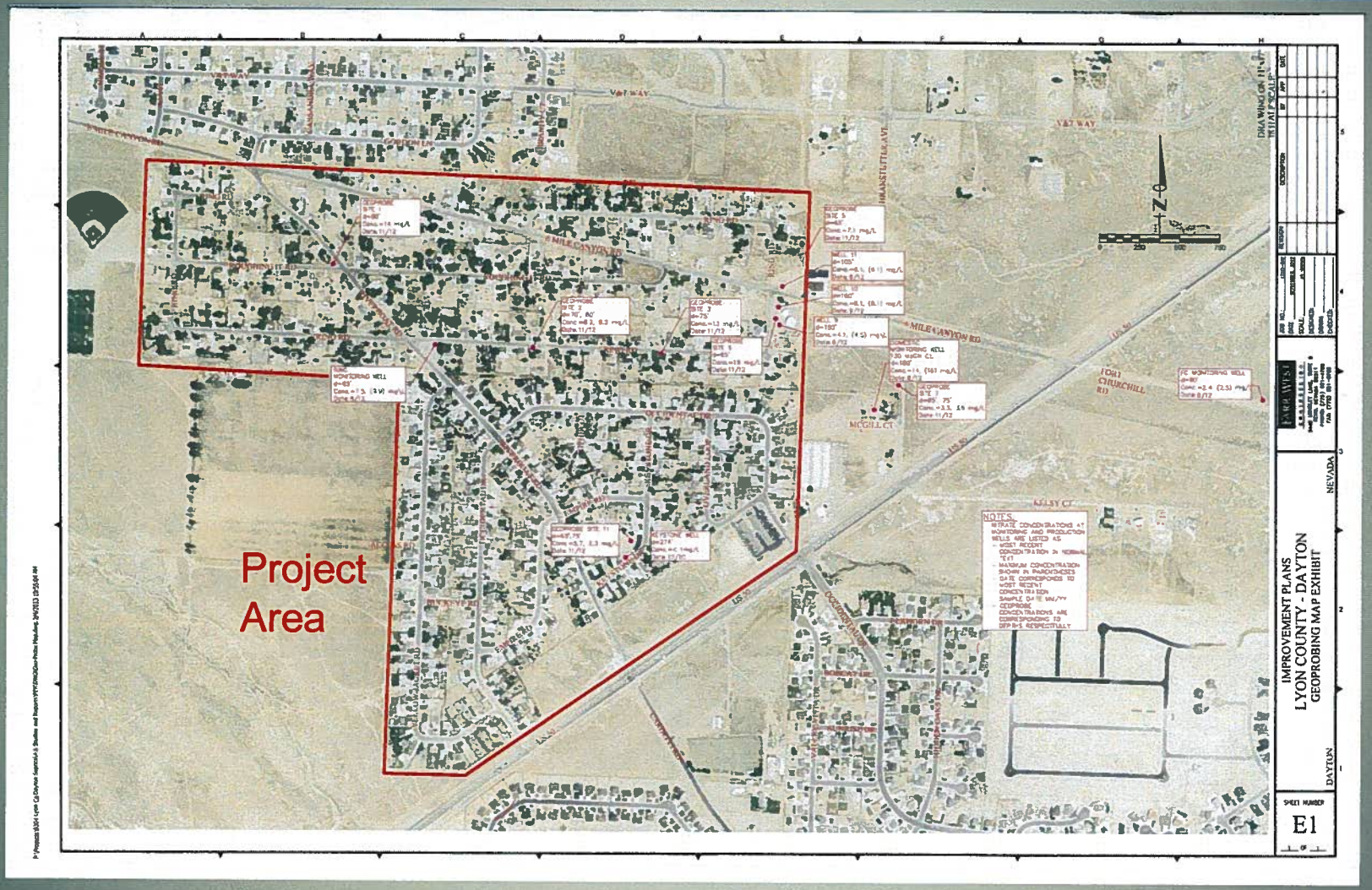
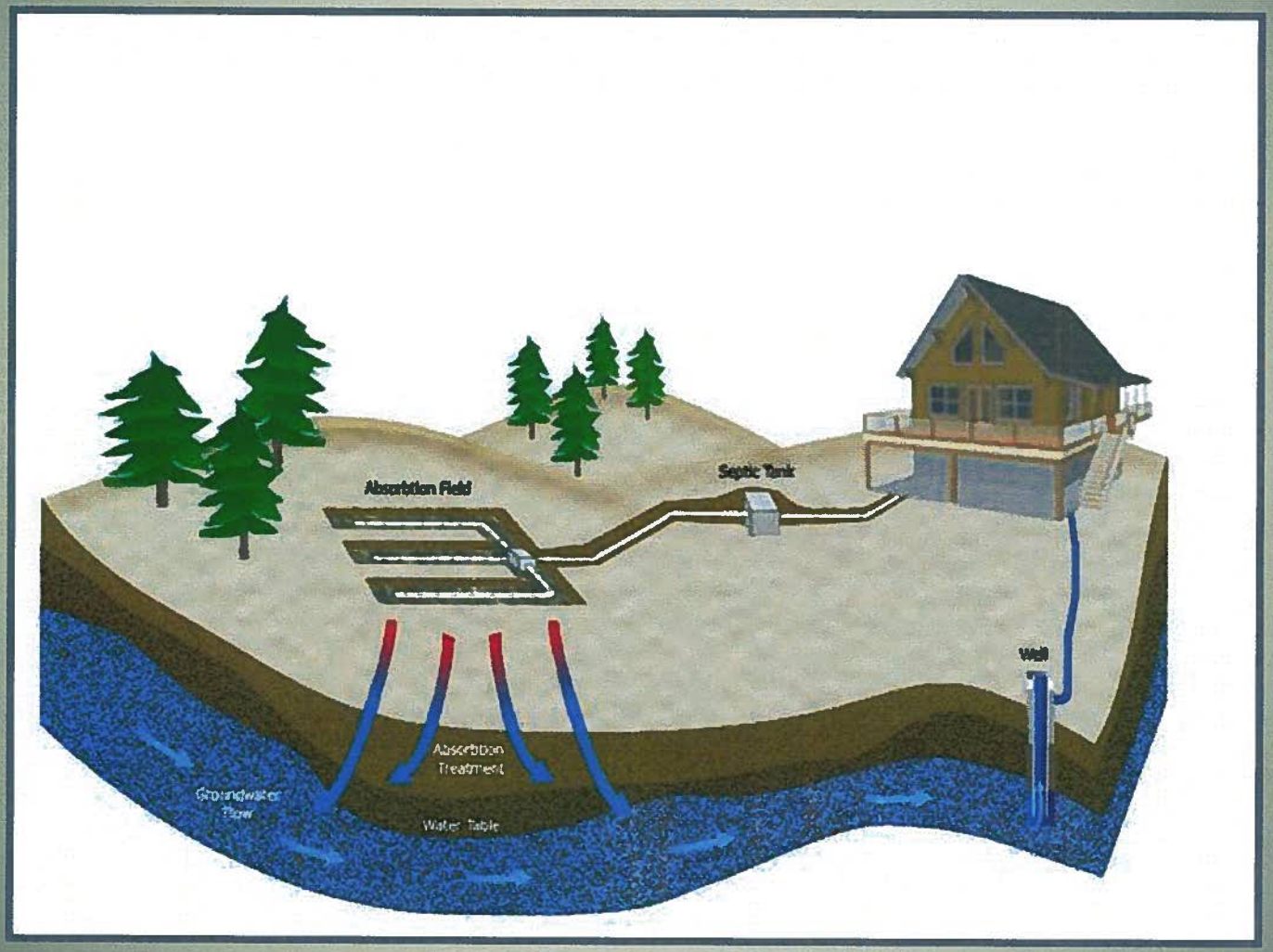


Health Effects from High Nitrate Intake

- Nitrate MCL = 10 mg/L
- Action level > 5 mg/L
- Methemoglobinemia or blue baby syndrome
- This can also affect adults

HOW NITRATES GET INTO OUR WATER



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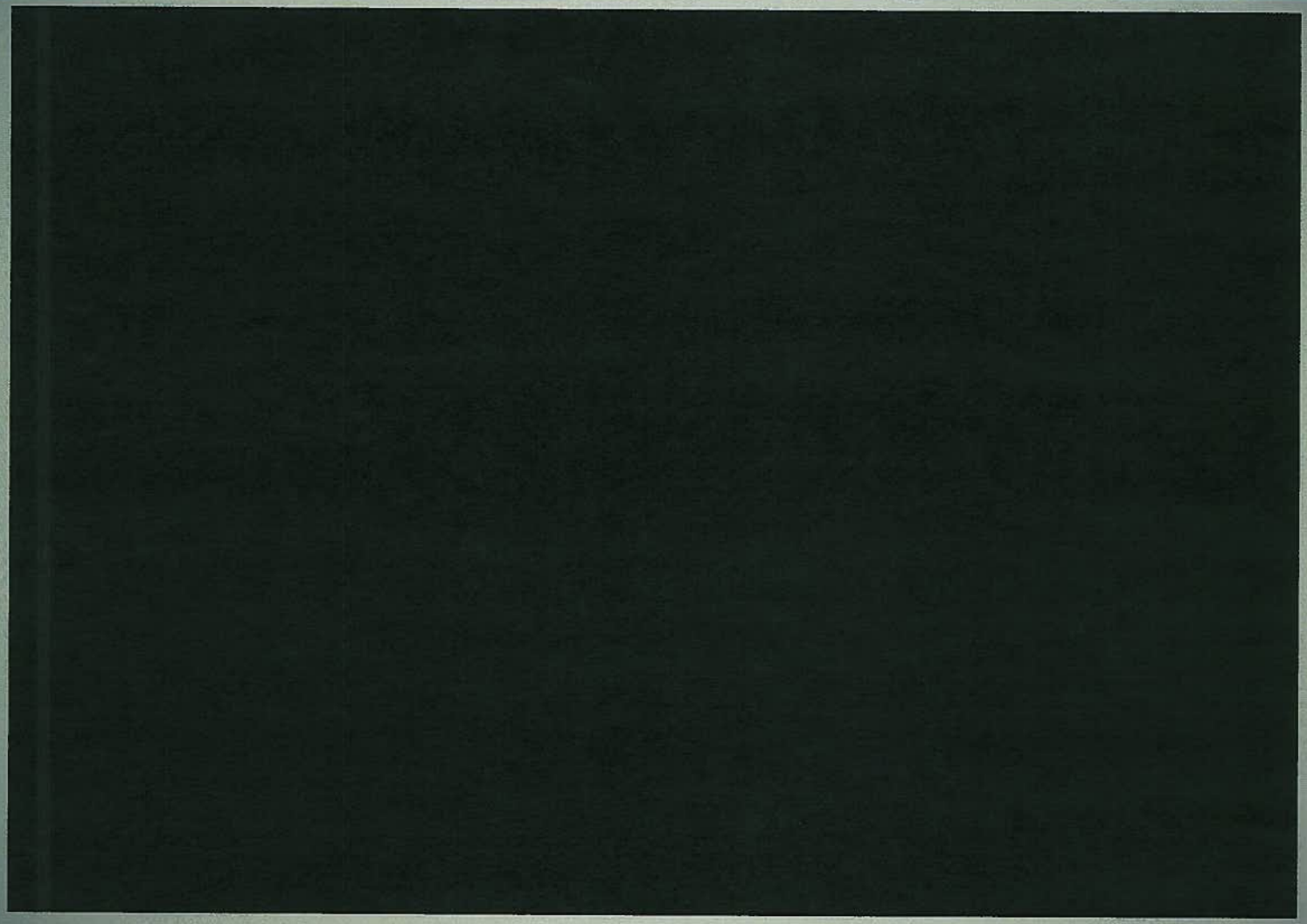


State Standards -vs- Existing System

Daytona Heights and Mark Twain Estates

200 acres = 491 septic systems

Current State Standard

200 acres = 25 septic systems

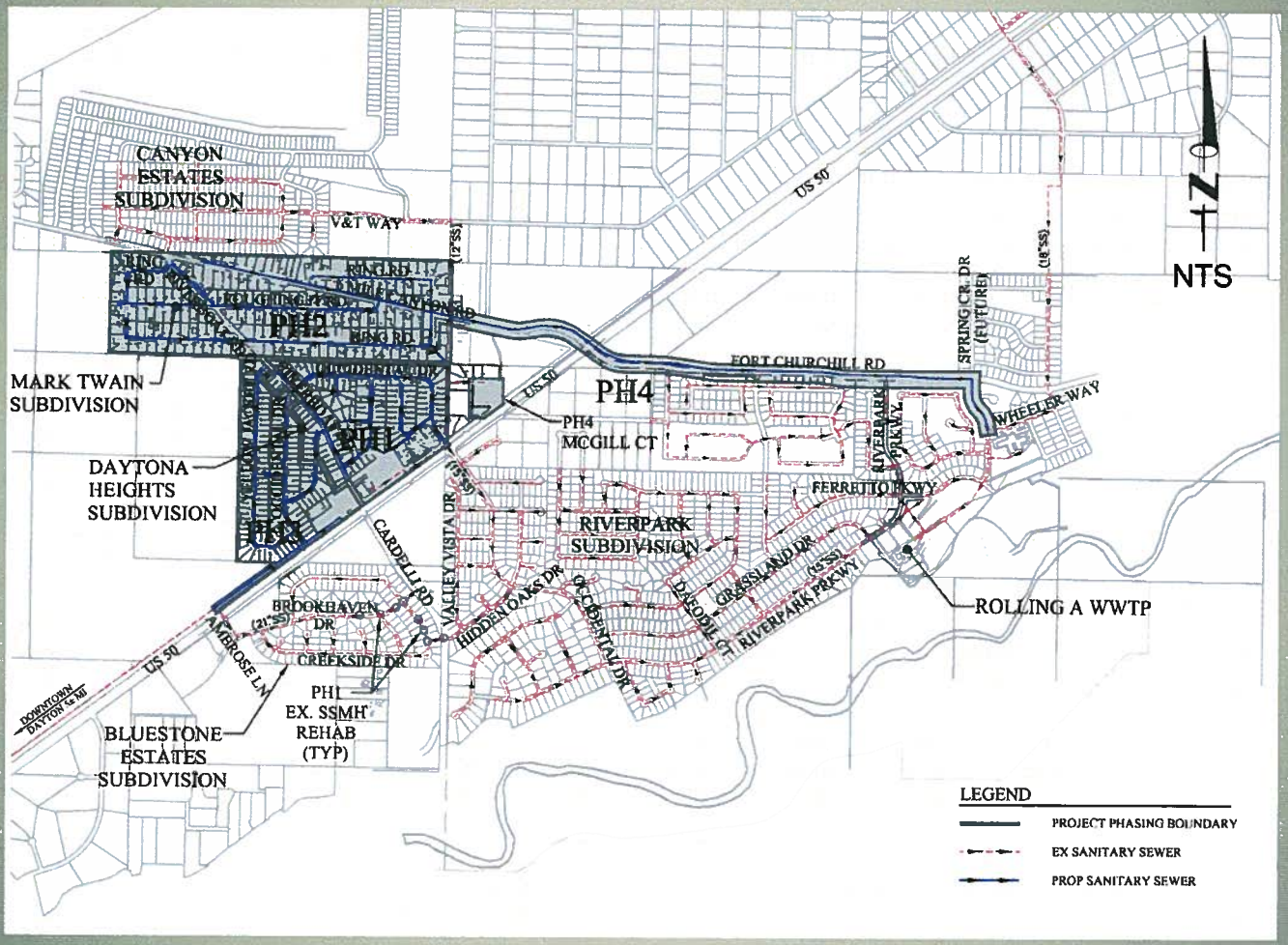
Similar Projects in Northern Nevada

- Lockwood and Verdi
- Spanish Springs
- South Truckee Meadows
- Minden
- Carson City

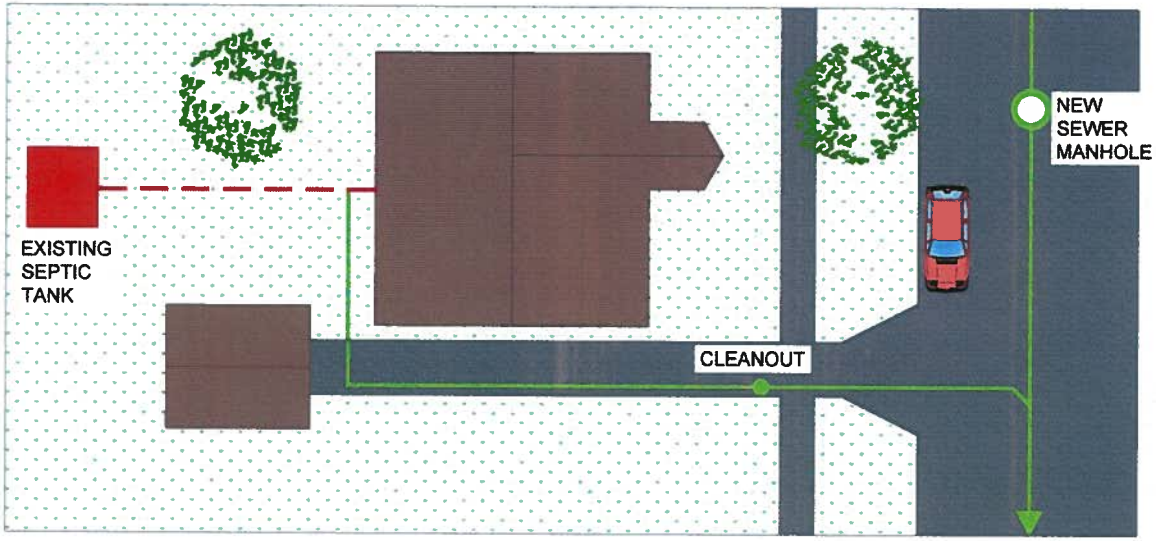
Mitigation Options

- Do nothing
- New collection system
- Other options investigated

Project Detail and Location



Proposed Residential Connections



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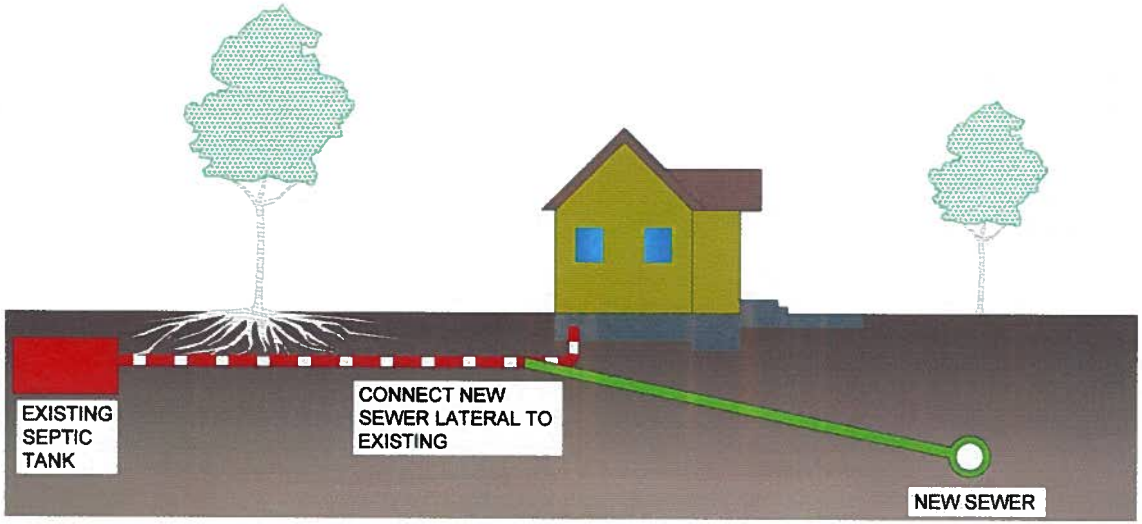

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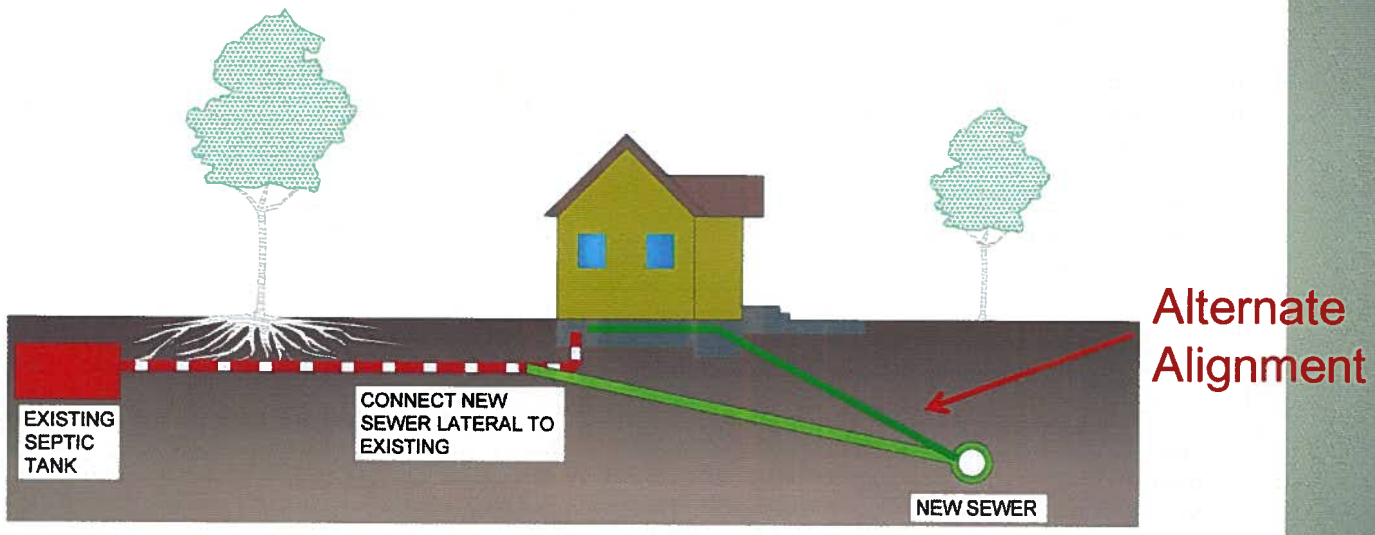
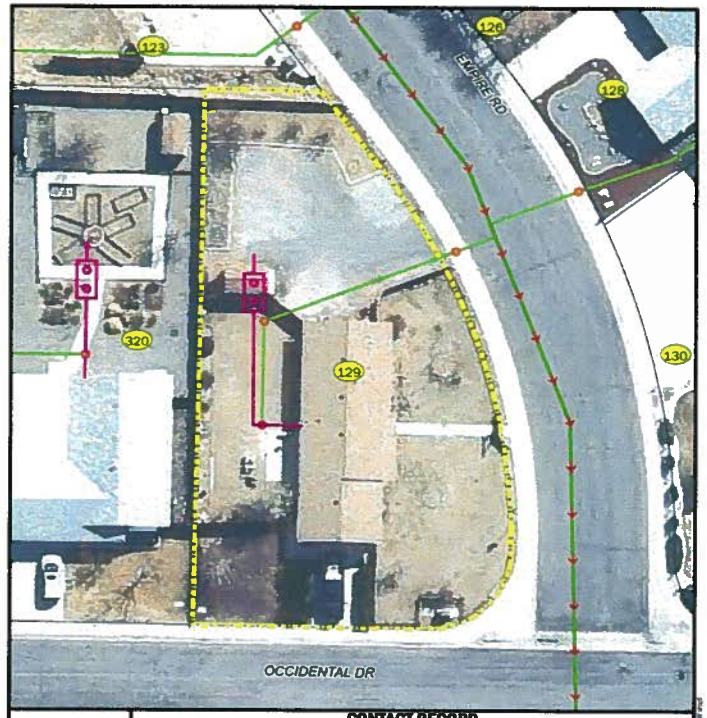


Proposed Residential Connections

- We need your cooperation to have route for the sewer line cleared for construction.
- We will have authorization forms for you to sign.



1" = 30'

CONTACT RECORD

DATE	TIME	COMMENT

DAYTON SEPTIC CONVERSION PROJECT

Utilities Department
34 Lakes Blvd.
P.O. Box 1899
Dayton, NV 89403
(775) 246-6220 - Phone
(775) 246-6223 - Fax

129 EMPIRE RD

RES NAME:	
RES PHONE:	
JOB NO:	0655
DATE:	4/16/2014
DRAWN:	MJR

FARR WEST ENGINEERING

The data contained herein does not represent survey delineation and should not be construed as a replacement for the authoritative source. No liability is assumed by Farr West Engineering or Lyon County as to the sufficiency or accuracy of the data.

Project Funding

- USDA and SRF funding
- County contribution
- No connection fee ($9,616)
- No construction cost to homeowners ($5,700)
- Sewer bill to sewer customers, $54.74
  - included on water bill

Project Timeline

- June – September 2014 – Design
- November 2014 – Bid
- March 2015 to May 2016 – Construction

	2014		2015-2016
	June-Sept.	Nov.	March - May
Individual Home Design			
Bid			
Construction			

Questions?