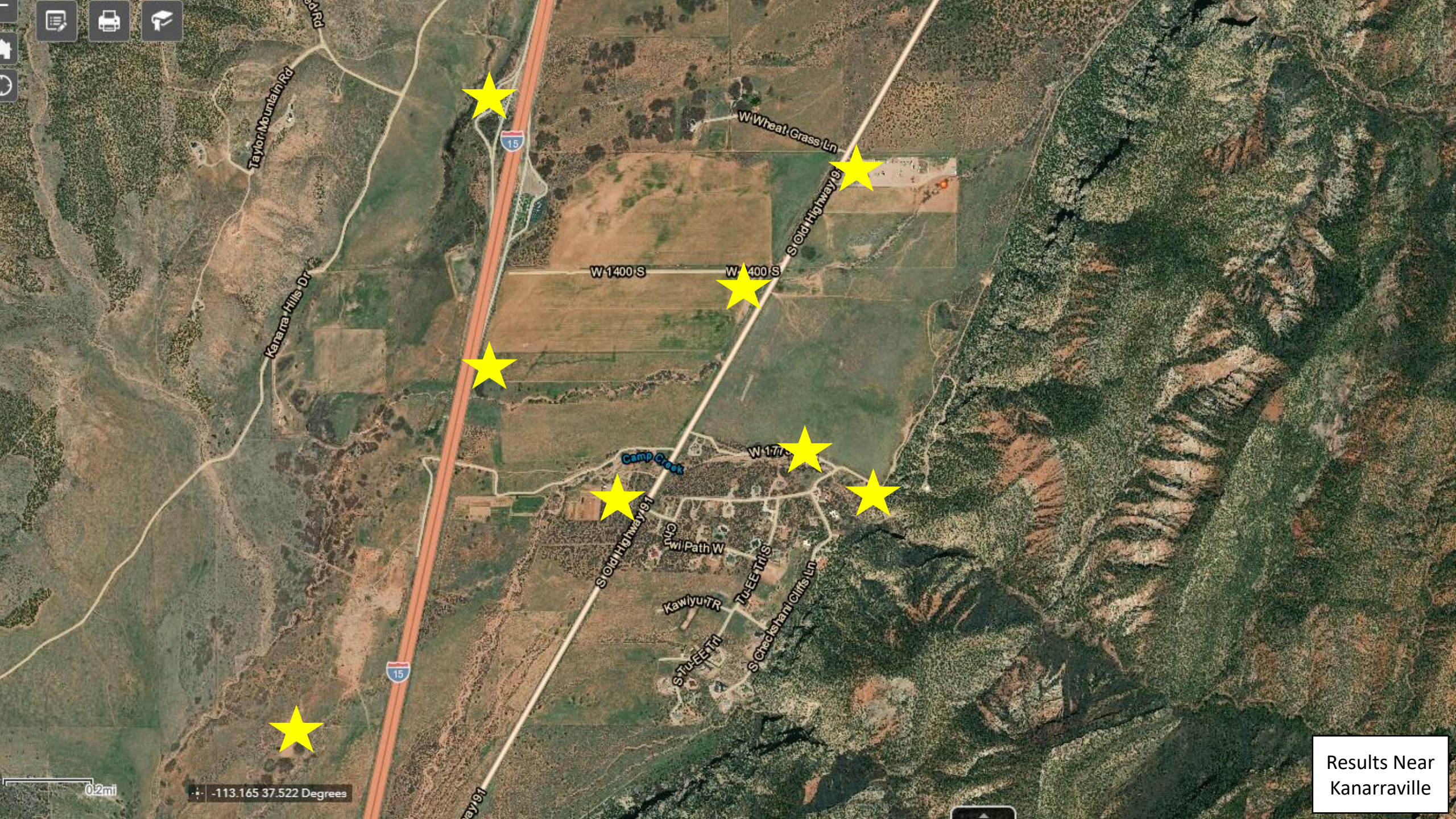




Chekshani Cliffs Water Improvements



Taylor Mountain Rd

Kanarra Hills Dr

W Wheat Grass Ln

S Old Highway 91

W 1400 S

W 1400 S

Camp Creek

W 1700 S

S Old Highway 91

Chwi Path W

Kawiyu Tr

Tu-EE Tr S

S Checkshani Cliffs Ln

S Tu-EE Tr

15

-113.165 37.522 Degrees

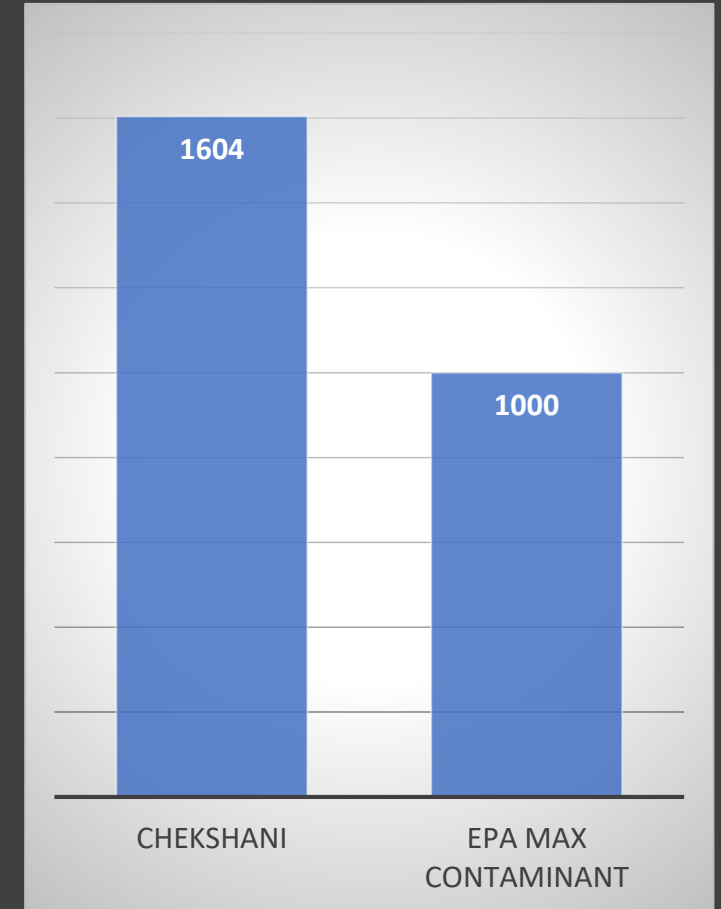
0.2mi

Results Near
Kanarrville



CICWCD Chekshani Well

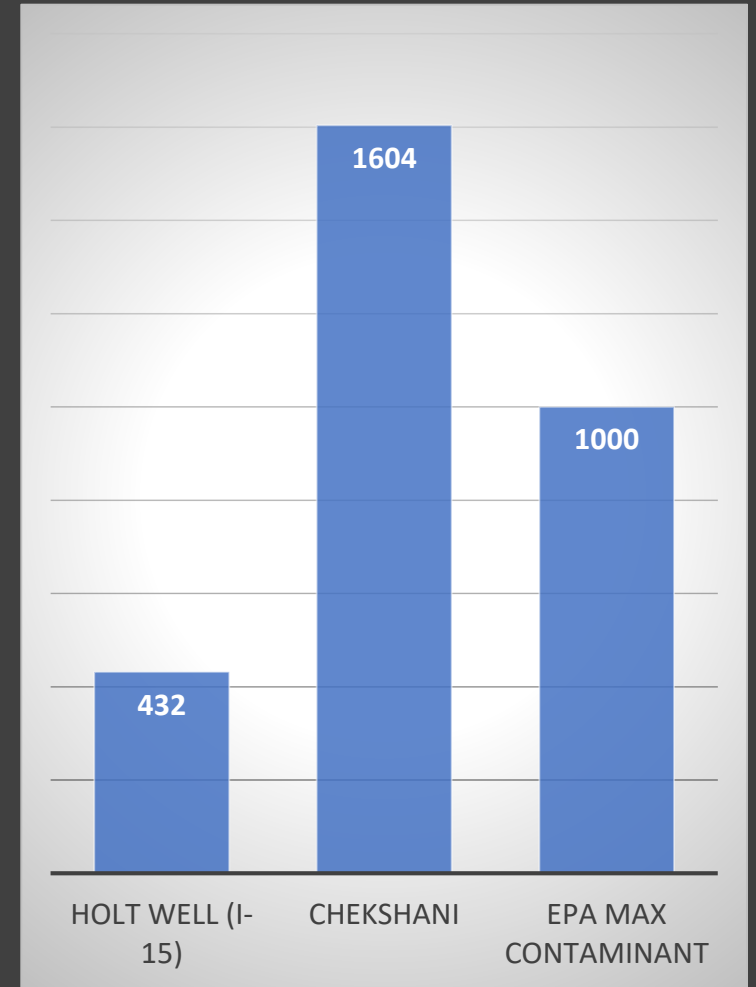
TDS Results:





Holt Well (Near I-15)

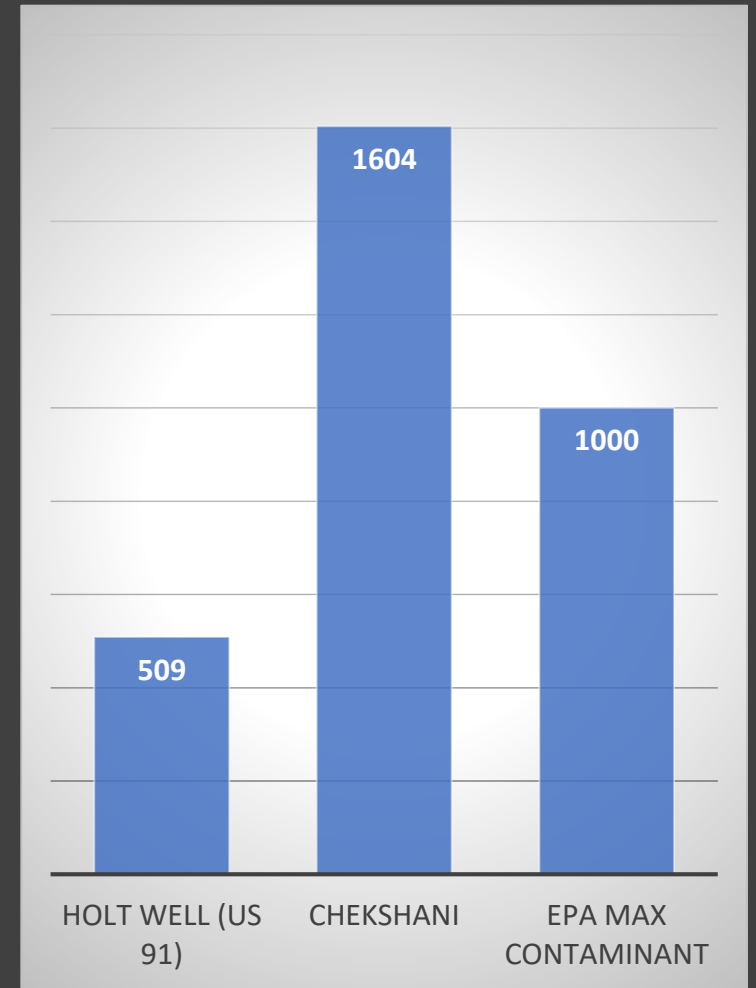
TDS Results:





Holt Well (West of U.S. 91)

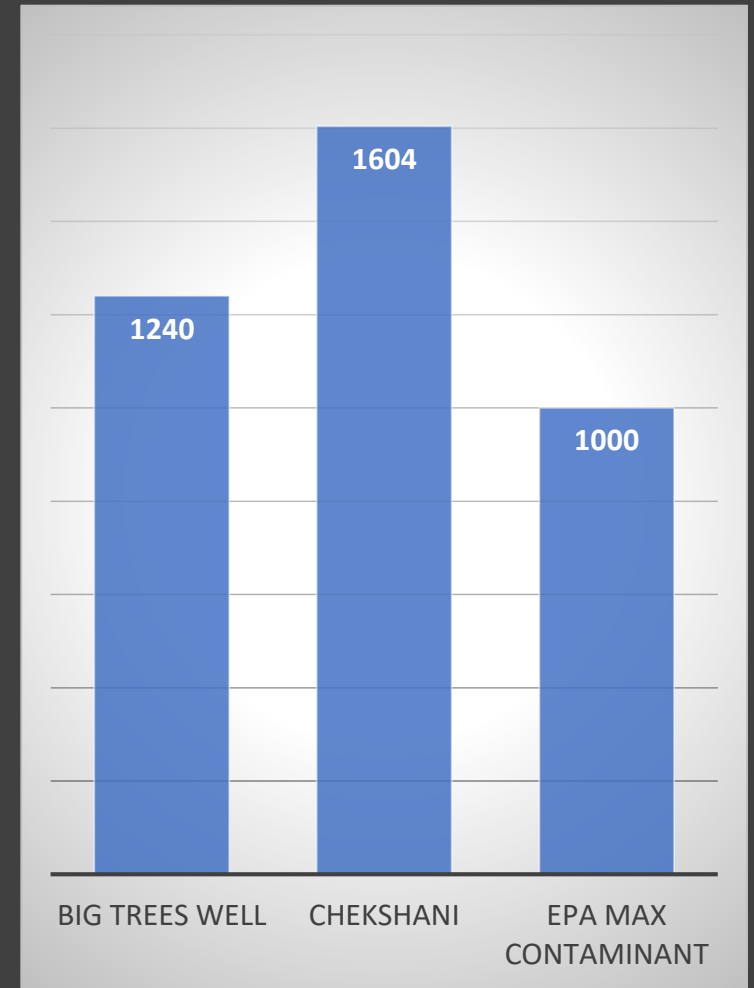
TDS Results:





Big Trees Well

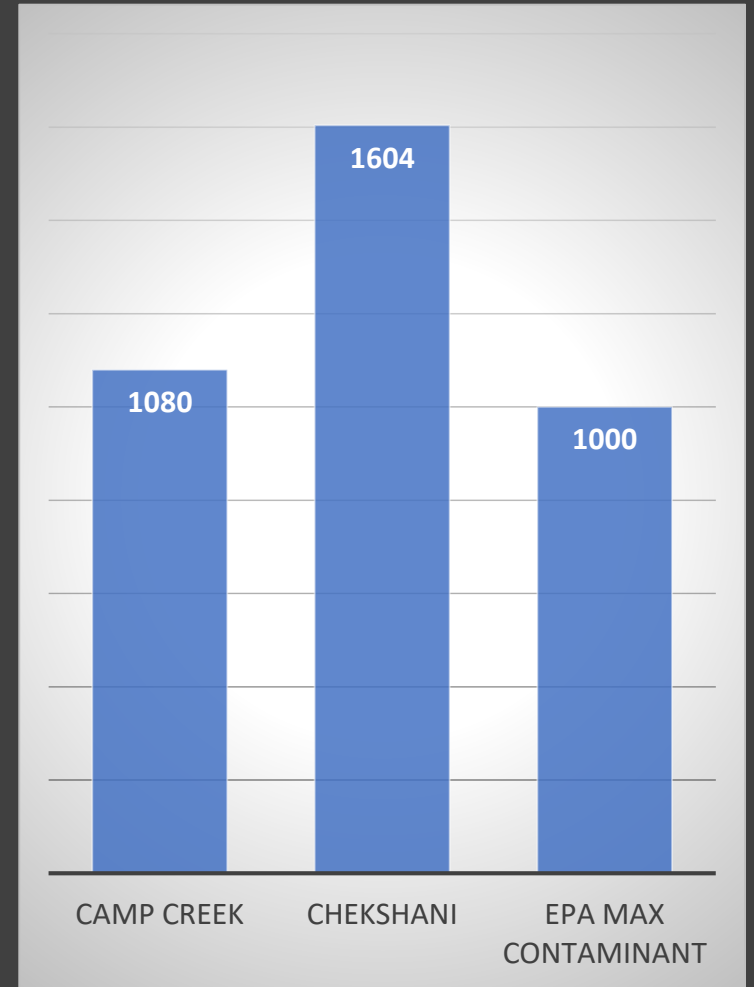
TDS Results:





Camp Creek

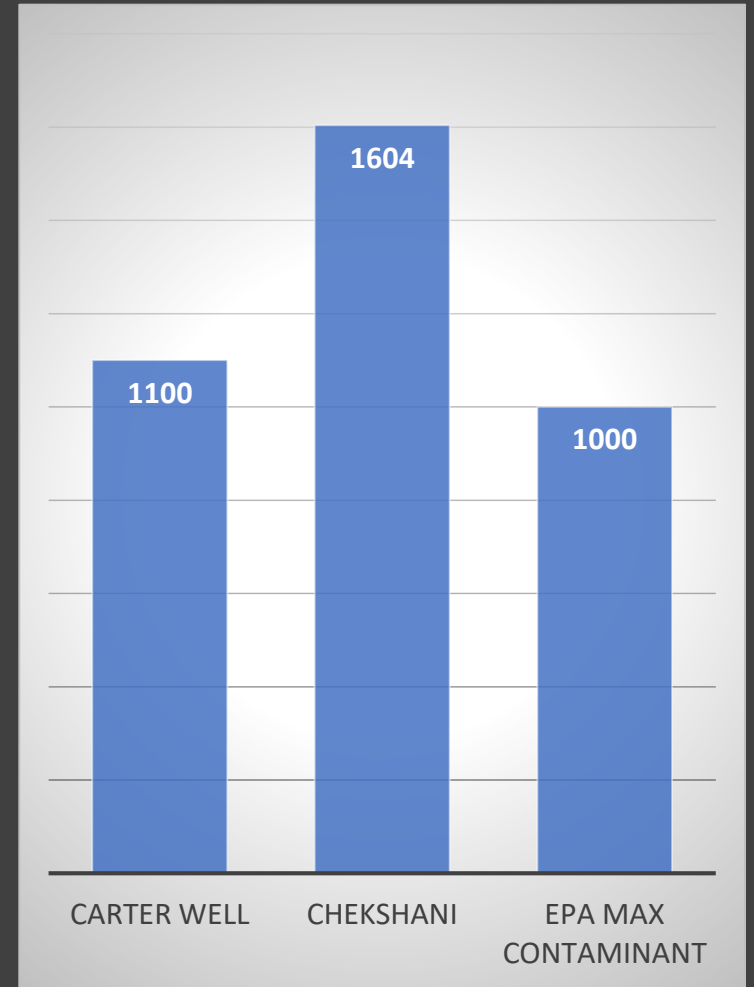
TDS Results:





Carter Well

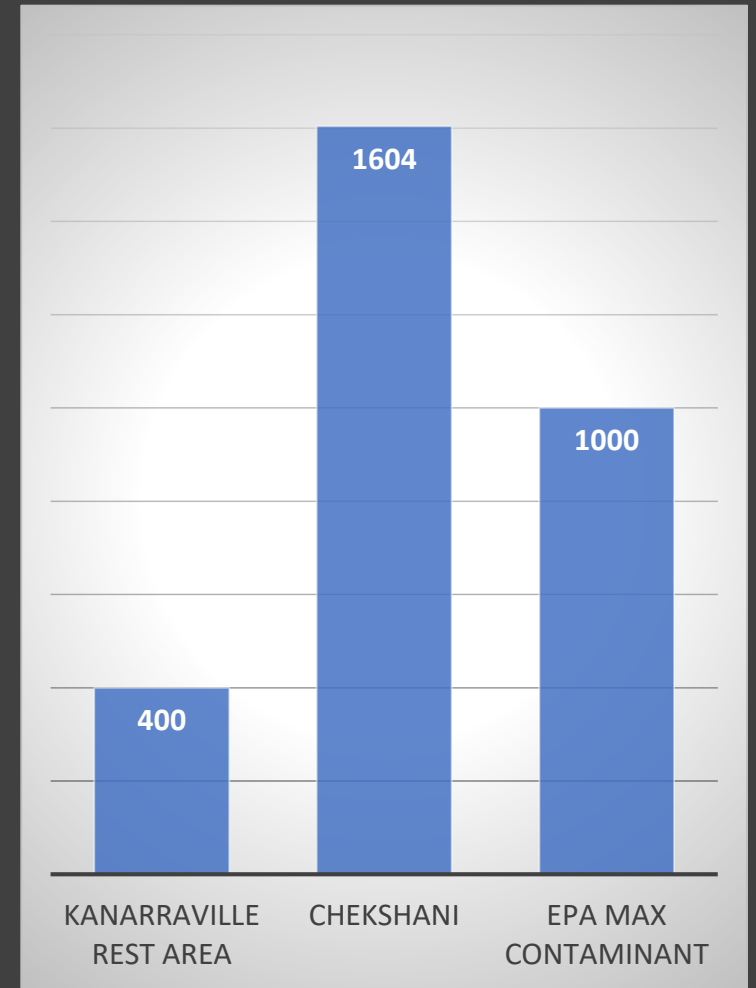
TDS Results:





Kanarraville Rest Area

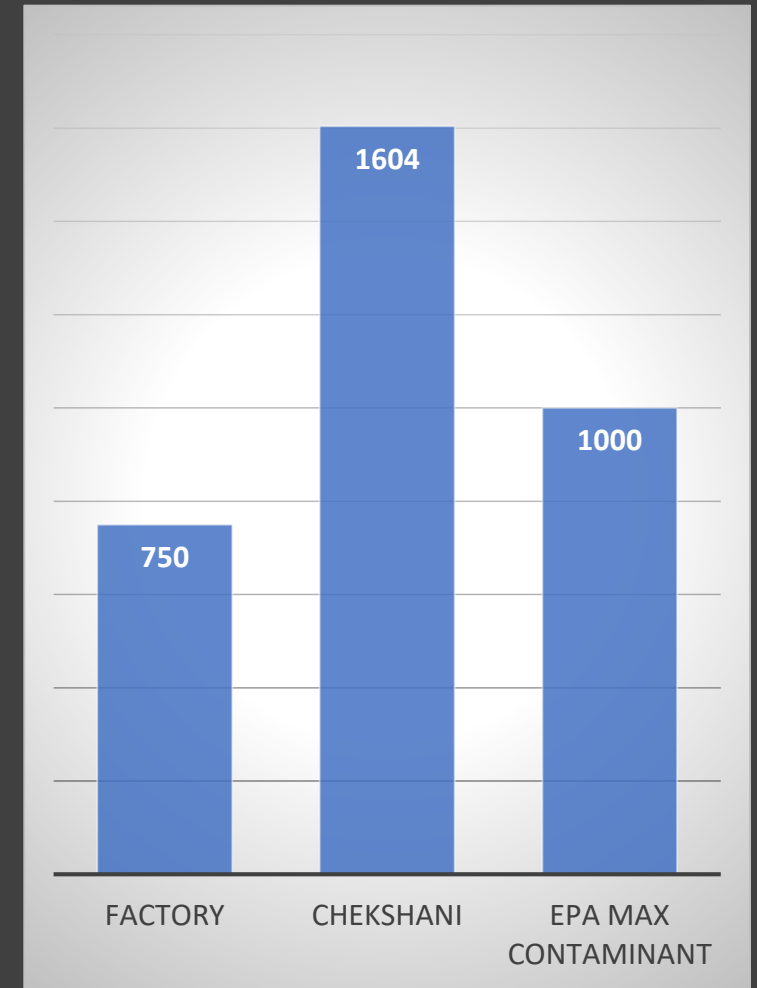
TDS Results:





Rock Bumpers Factory

TDS Results:



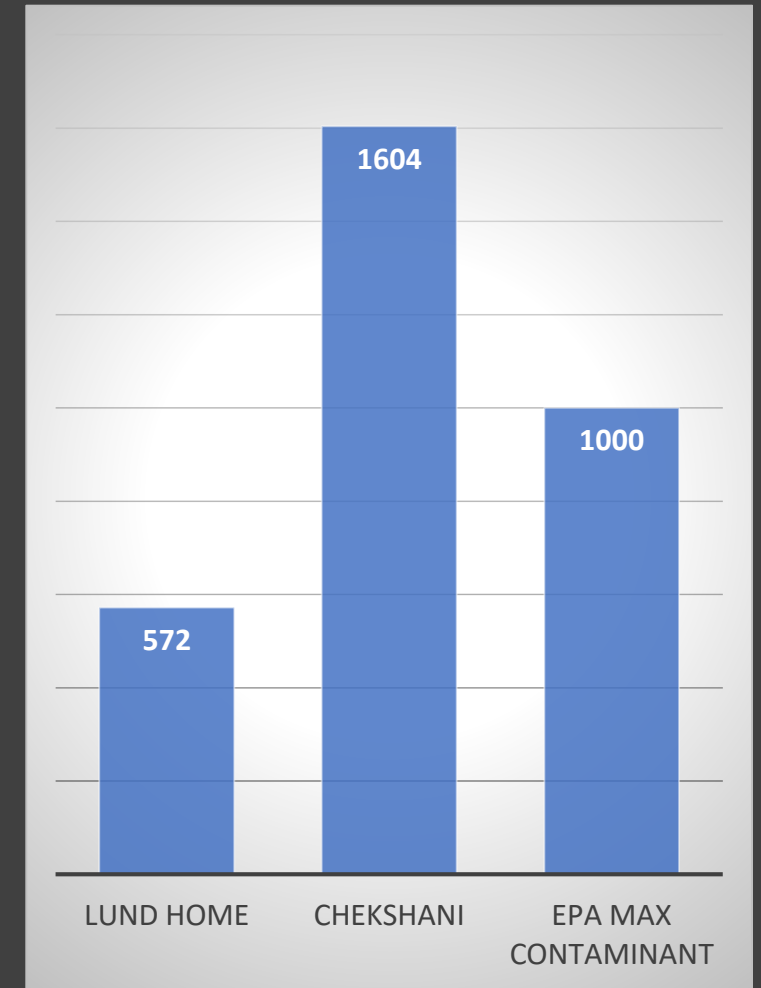


TDS Results



Lund Home (Kanarraville)

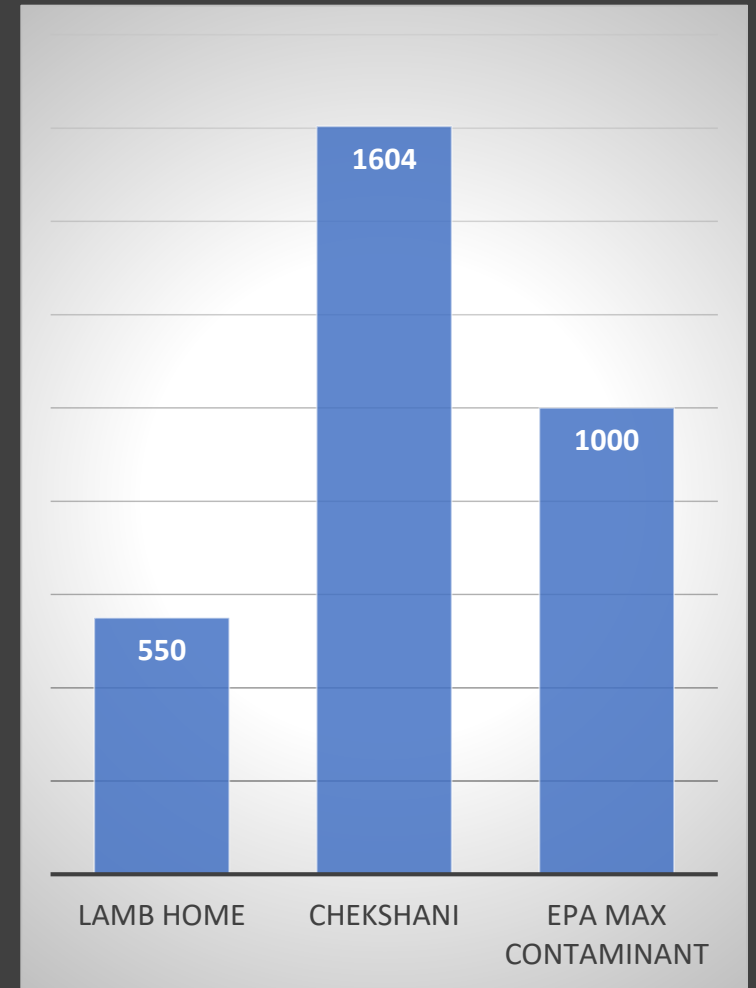
TDS Results:





Lamb Home (Kanarraville)

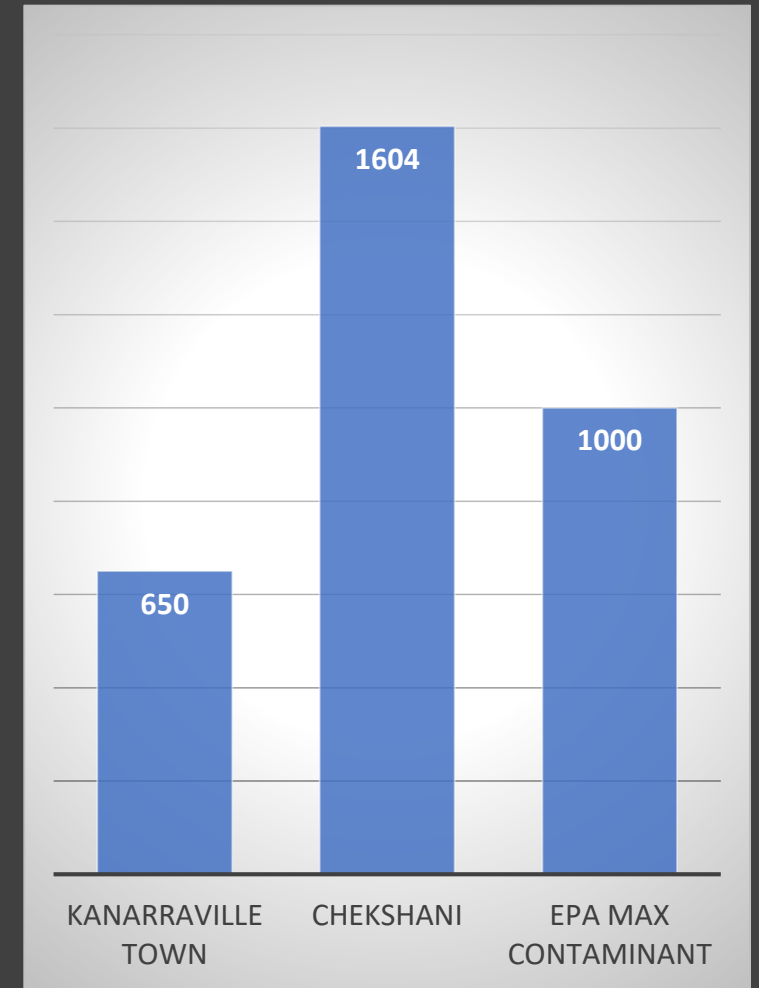
TDS Results:





Kanarraville Town Well

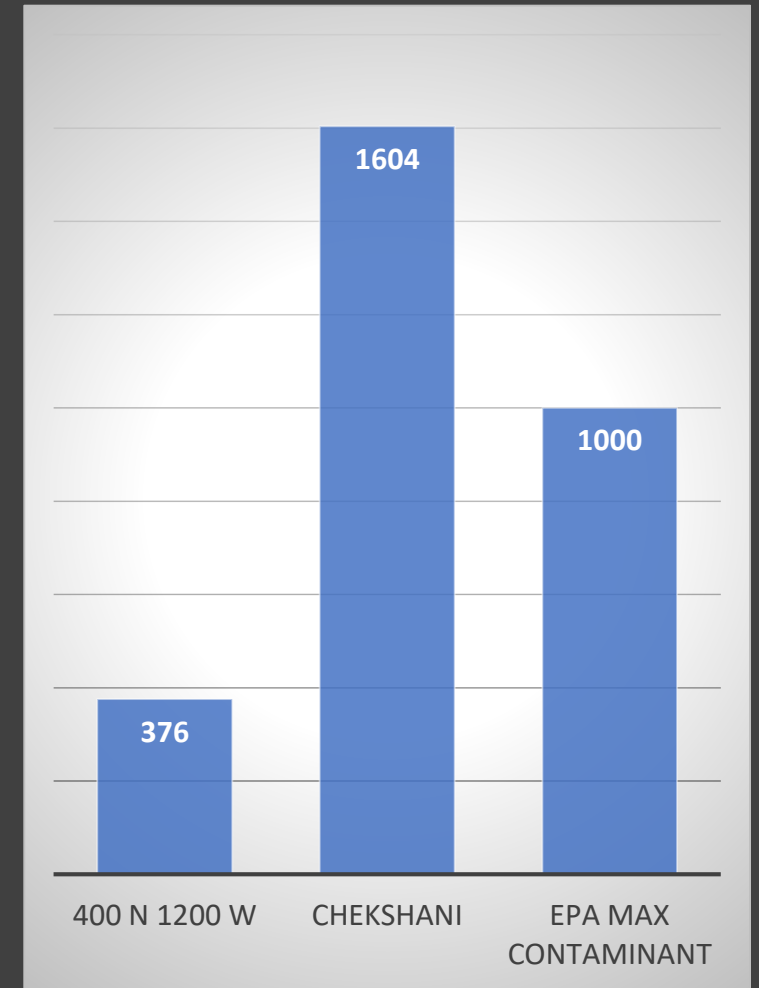
TDS Results:





400 N 1200 W (Kanarraville)

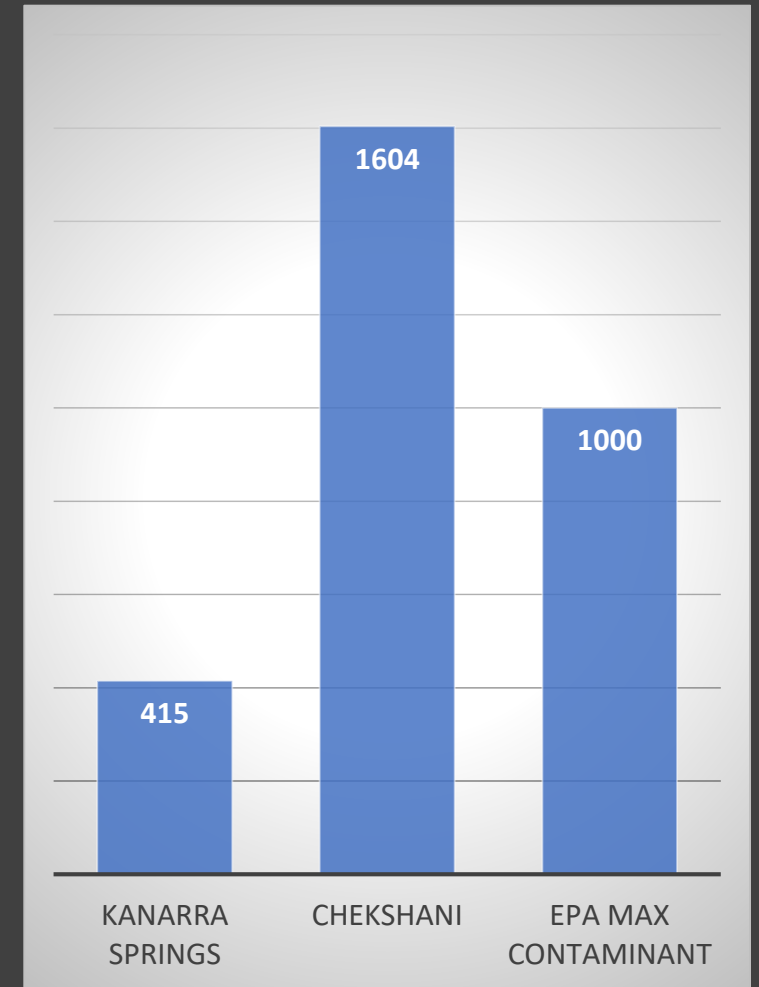
TDS Results:





Kanarraville Springs

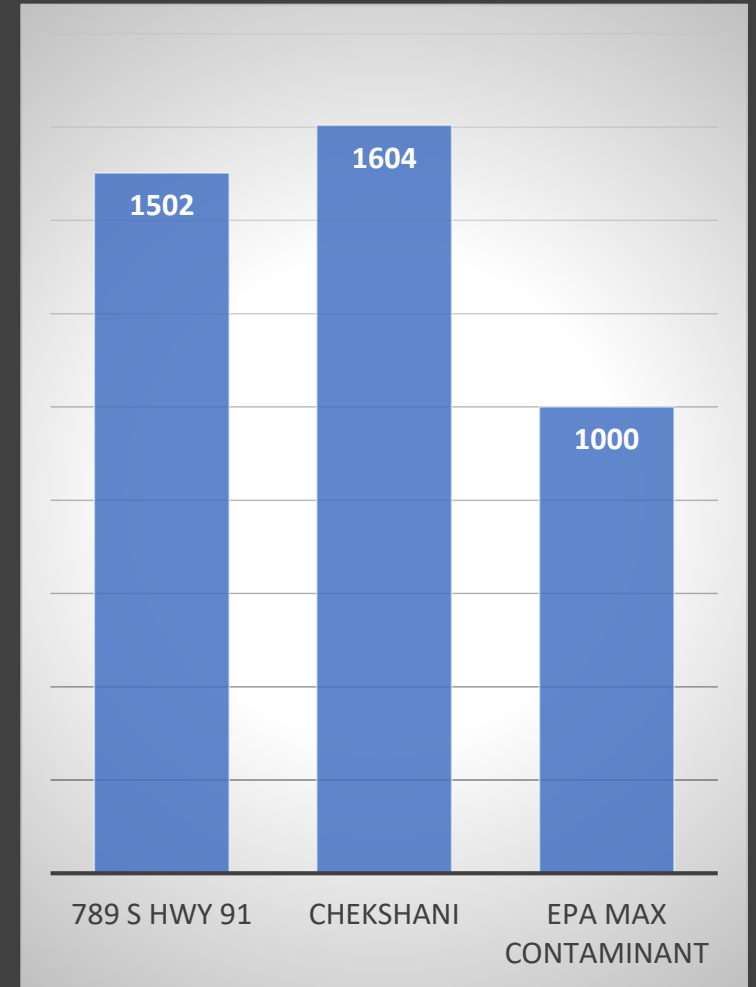
TDS Results:





789 S Hwy 91

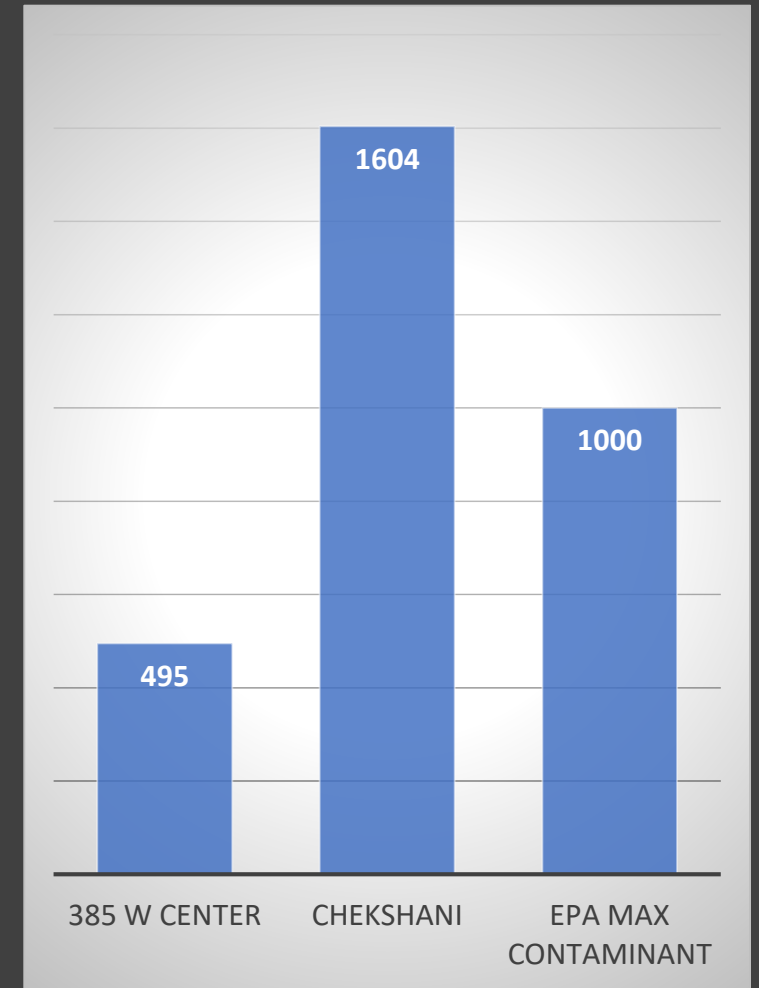
TDS Results:



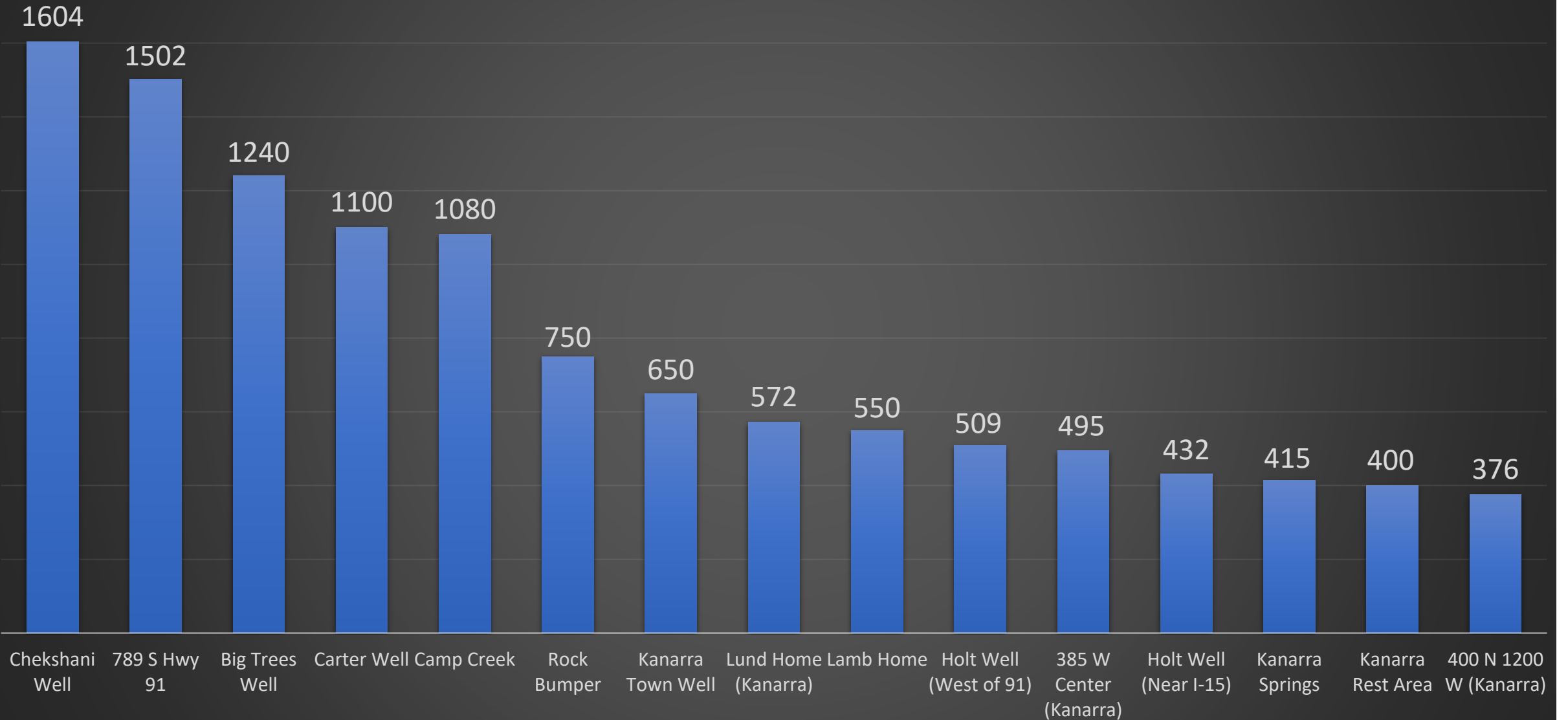


385 W Center St. (Kanarra)

TDS Results:

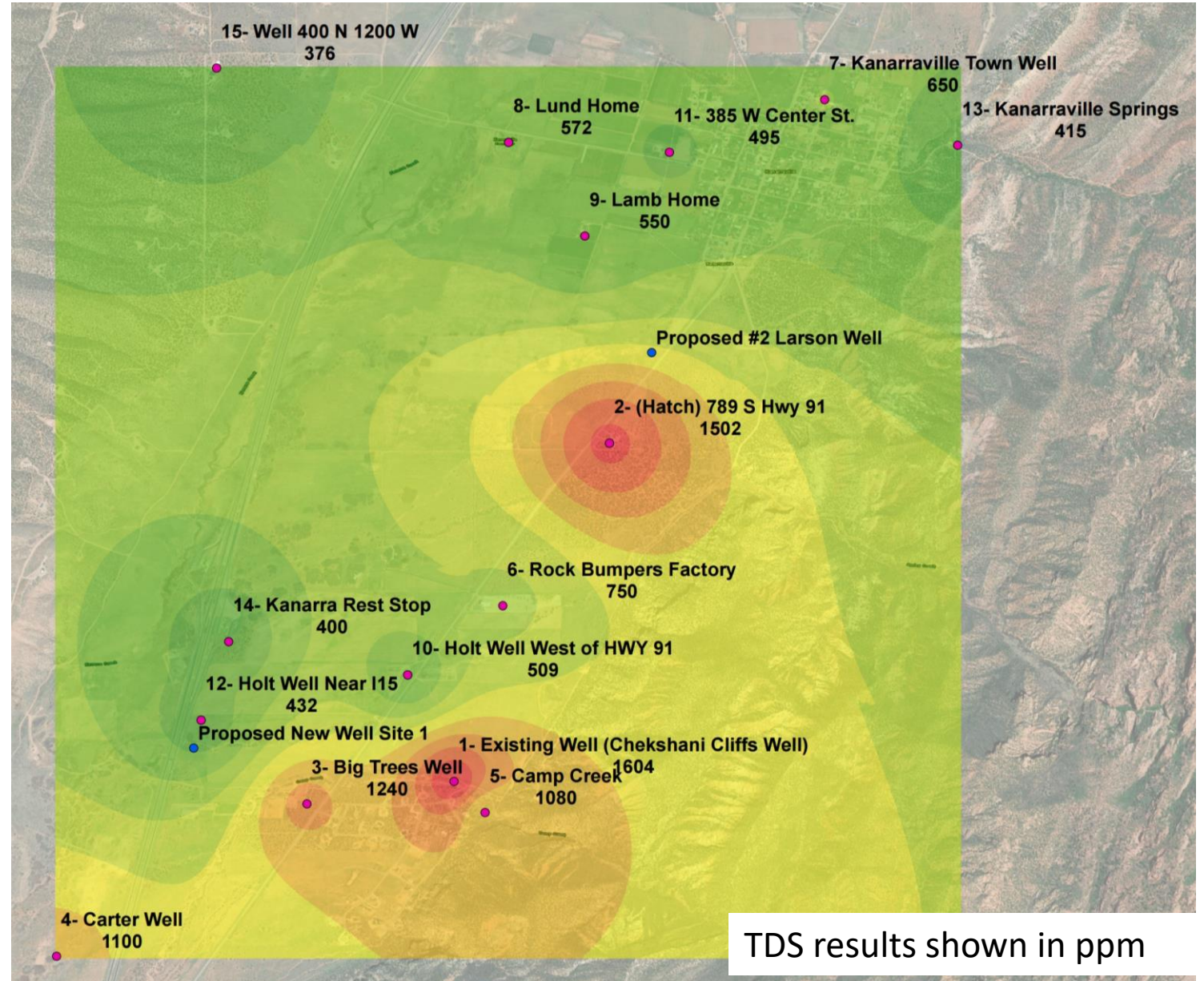


TDS Results



Water Quality Analysis

- 15 wells within the region were sampled to identify the best location to drill a new well.
- CICWCD worked with landowners near Kanarraville (proposed #2 Larson Well) to look at the possibility of drilling a well close to Kanarra. This would provide a dual-purpose line, both from the well and an interconnection between the two communities as an emergency source.
- Ultimately, based on sampling, “Proposed New Well Site 1” (near I-15) was identified as the best location to drill a new well.



Three Proposed Solutions



Drill a new well in a different location



Drill a new well AND install a treatment facility



Simply do nothing

Why Drill a New Well?



Water Chemistry of the current well is not satisfactory



A redundant source is needed



Age of current well

Drilled 1991

Why Install a Treatment Facility?



Current water chemistry



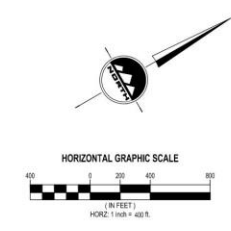
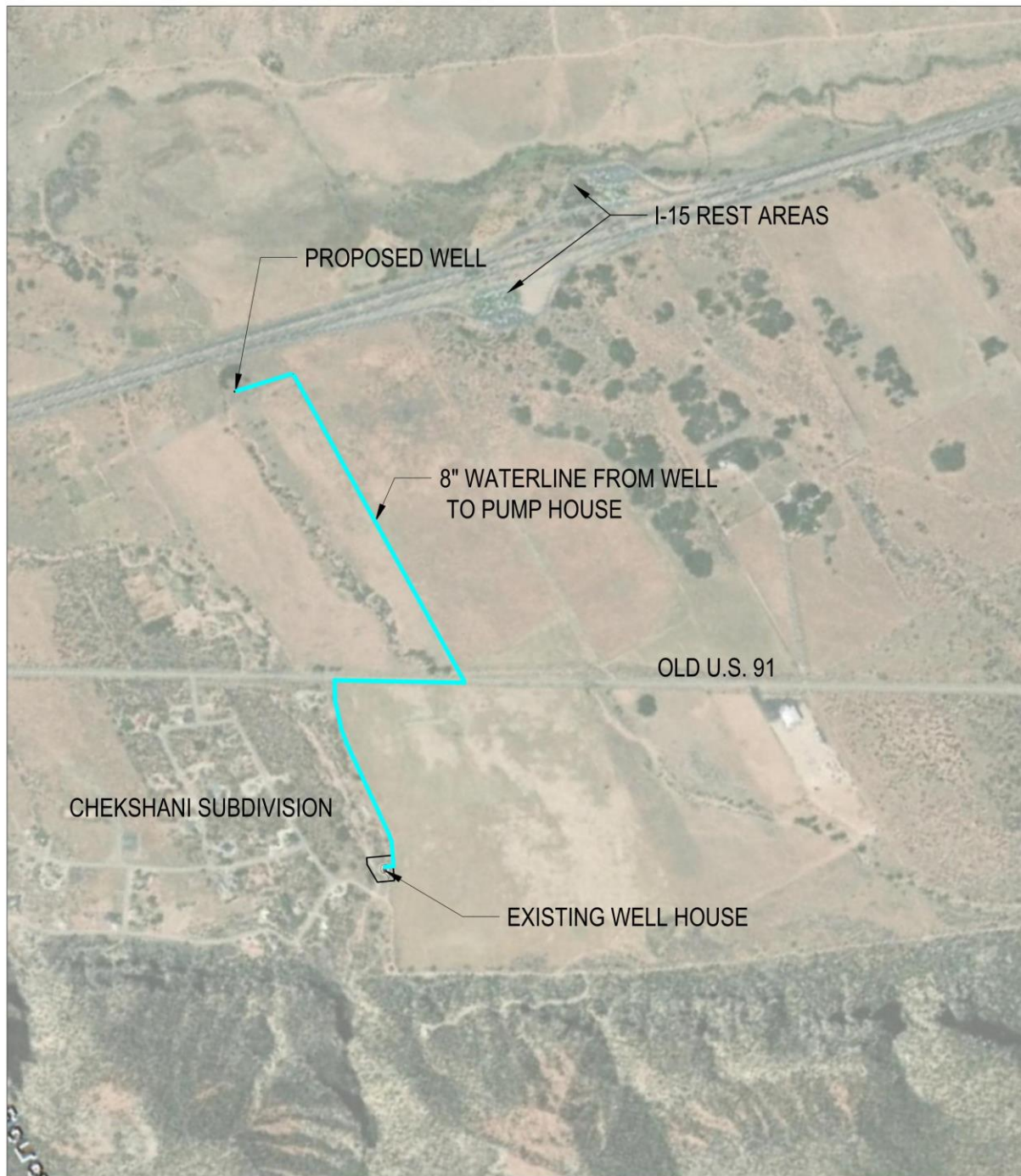
Treatment Facility would be able to treat multiple wells



Culligan is confident that this will lower future corrosion



The CICWCD Board of Directors suggests drilling a new well for the Chekshani Cliffs Subdivision.



ENSIGN
THE STANDARD IN ENGINEERING

CEDAR CITY
1870 N. Main Street, Suite 104
Cedar City, UT 84720
Phone: 435.865.1453

SALT LAKE CITY
Phone: 801.255.0529

TOOELE
Phone: 435.843.3590

LAYTON
Phone: 801.547.1100

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

OFFICE
COUNCIL
88 E. Holden Canyon Road, Suite A
Cedar City, UT 84721

CONTACT:
Paul Moore
PHONE: 435.865.9901

CENTRAL IRON COUNTY WCD
CHEKSHANI WELL AND WATERLINE PROJECT
CHEKSHANI SUBDIVISION
KANARRAVILLE, UTAH

NO.	DATE	ISSUED FOR	BY
1		FOR REVIEW	
2			
3			
4			
5			

SITE PLAN

X

X

X

PROJECT NUMBER
10107

DATE
5/10/17

DESIGNED BY
FMG

PROJECT MANAGER
CLN

PROJECT NUMBER
10107

DATE
5/10/17

DESIGNED BY
FMG

PROJECT MANAGER
CLN

PRINT DATE
JCC

CHECKED BY
JCC

C-100

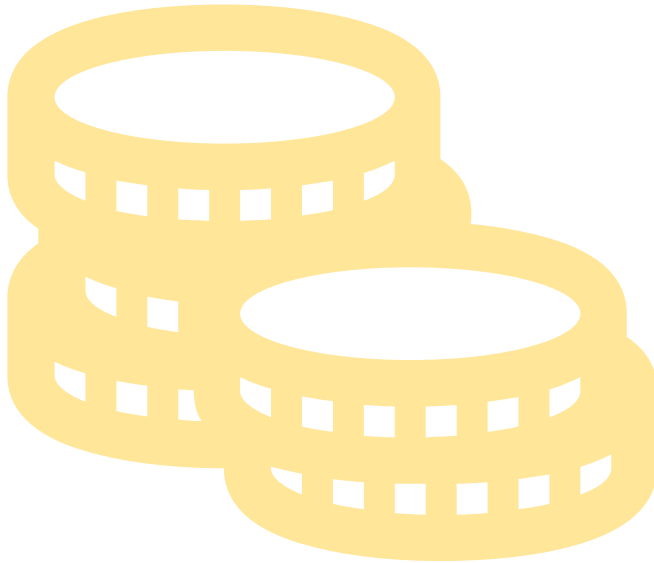
Total Project Cost Estimates

**New Well
(District Drill)**



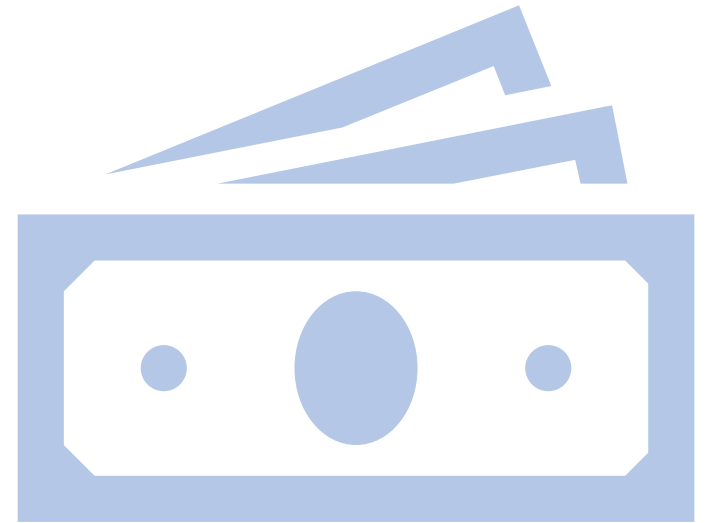
\$748,000

**New Well
(Private)**



\$448,000

**New Well (Private)
+ Treatment**



\$848,000

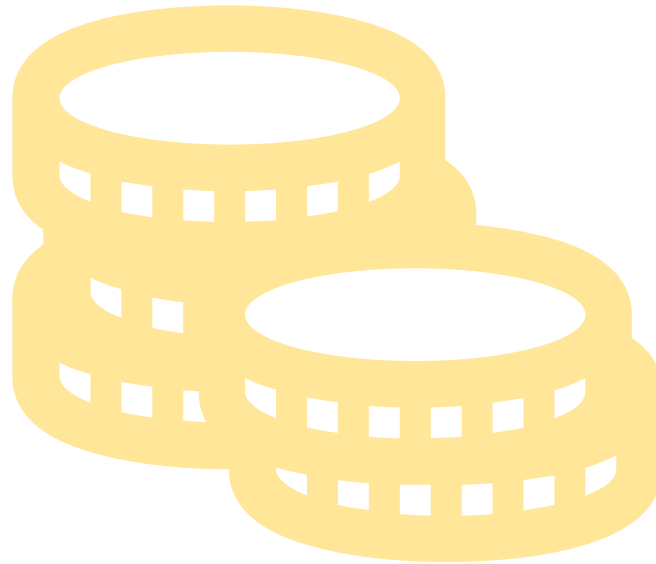
Chekshani Contribution Cost Estimates (with 30% grant)

**New Well
(District Drill)**



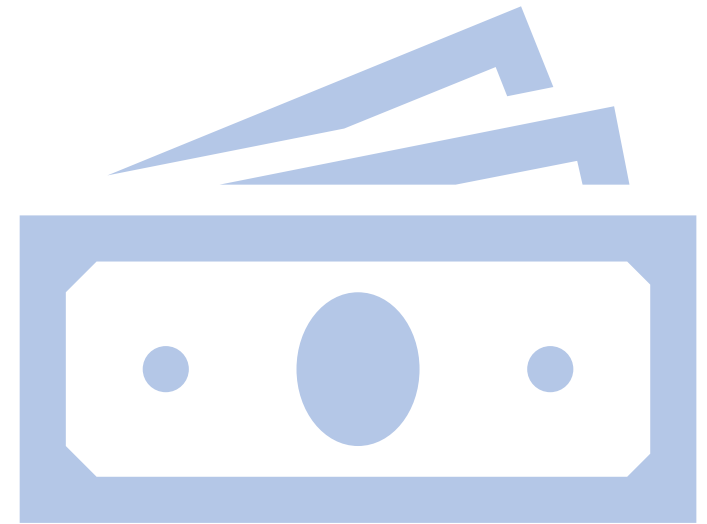
\$266,000

**New Well
(Private)**



\$161,000

**New Well (Private)
+ Treatment**



\$441,000

Cost Breakdown:
Option 1

<i>Option 1: New Well (District Drill)</i>			
	Project Cost	Chekshani Contribution	District Cost
New Well	525,000	262,500	262,500
Line to Chekshani	223,000	111,500	111,500
Totals:	\$748,000	\$374,000	\$374,000
Possible Grant Funding		30%	30%
Overhead Cost		4,200	
Grand Total:		\$266,000	\$261,800
	Project Cost per Lot:	\$3,800	
Improvement Cost/Lot/Month 5% 10 yrs (if financed):		\$40.30	
Current Average Monthly Bill:		\$40.86	
Total Average Monthly cost/lot/month (if financed):		\$81.16	

Cost Breakdown:
Option 1a

<i>Option 1a: New Well (Private)</i>			
	Project Cost	Chekshani Contribution	District Cost
New Well	225,000	112,500	112,500
Line to Chekshani	223,000	111,500	111,500
Totals:	\$448,000	\$224,000	\$224,000
Possible Grant Funding		30%	30%
Overhead Cost		4,200	
Grand Total:		\$161,000	\$156,800
	Project Cost per Lot:	\$2,300	
Improvement Cost/Lot/Month 5% 10 yrs: (if financed):		\$24.40	
Current Average Monthly Bill:		\$40.86	
Total Average Monthly cost/lot/month: (if financed):		\$65.26	

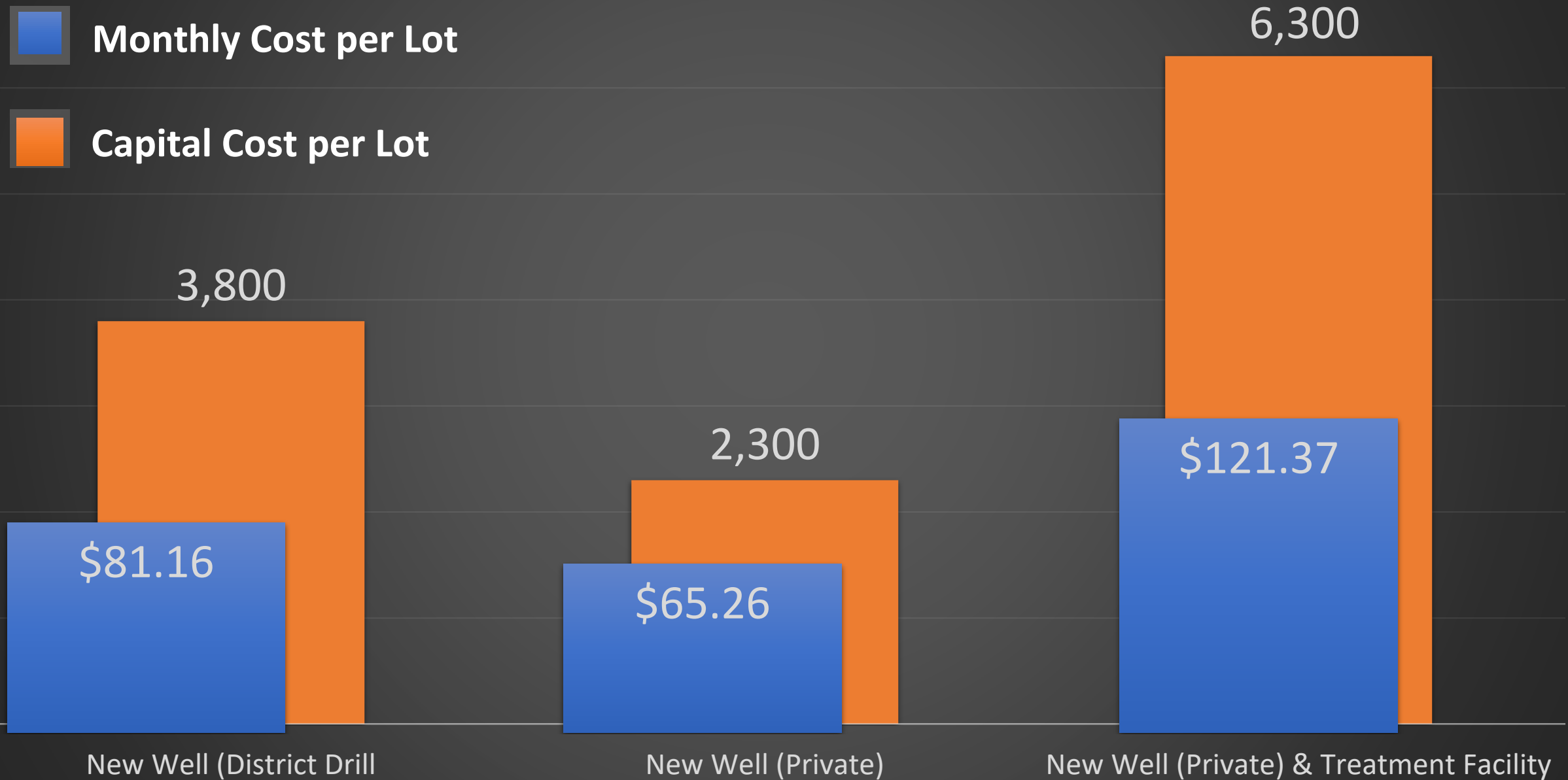
Cost Breakdown:
Option 2

<i>Option 2: New Well (Private) & Treatment Facility</i>			
	Project Cost	Chekshani Contribution	District Cost
New Well	225,000	112,500	112,500
Line to Chekshani	223,000	111,500	111,500
Treatment Facility	400,000	400,000	
Totals:	\$848,000	\$624,000	\$224,000
Possible Grant Funding		30%	30%
Overhead Cost		4,200	
Grand Total:		\$441,000	\$156,800
	Project Cost per Lot:	\$6,300	
Improvement Cost/Lot/Month 5% 10 yrs: (if financed):		\$66.82	
Current Average Monthly Bill:		\$40.86	
Treatment O & M Costs (monthly):		\$13.69	
Total Average Monthly cost/lot/month (if financed):		\$121.37	

Cost Comparison (for Chekshani Customers)

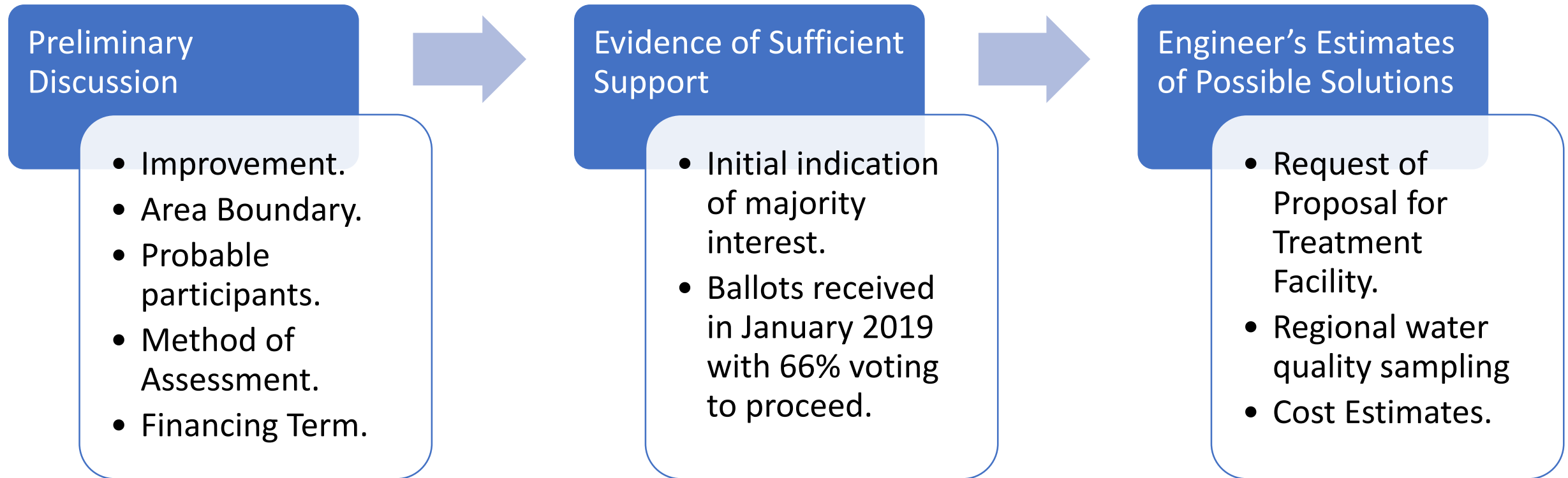
 Monthly Cost per Lot

 Capital Cost per Lot



Assessment Area Process: (complete)

Utah Code §11-42

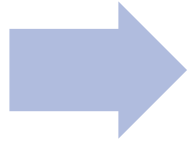


Assessment Area Process:

Utah Code §11-42

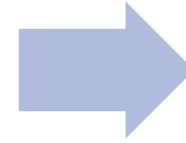
Prep & Submittal of Application

- Signatures of majority in proposed area.
- Signature Ballots must be received by March 12th, 2020.



Board Meeting on March 19th, 2020.

- Discuss ballot results and the probability of moving forward.



Notice Period

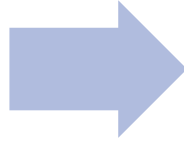
- 4 weeks published in newspaper and posted to State Public Notice Website.
- Letters sent to all proposed property owners.

Assessment Area Process:

Utah Code §11-42

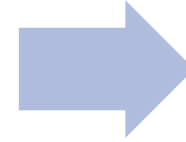
Public Hearing on
April 16th, 2020

- Formal opportunity for comments.
- Begins 60-day protest period.



Protest Period

- Written protests can be filed with CICWCD.
- If 40% protest improvements, project will not go forward.



Board Meeting on
June 18th, 2020

- Discuss Protest Tally.
- Determination on resolution to establish Assessment Area or abandon the proposal.



Thank You!