



Utility Advisory Committee Meeting

October 21, 2020 at 5:30

TO PARTICIPATE: On your computer
via Microphone or type your public comment into the
Q & A Tab.

On your phone
call (929) 205-6099 or (301) 715-8592
Meeting ID: 114-611-628 and
Press *9 to raise your hand via phone.

Please note if you are on your computer but do not have a microphone, you will have to call in to speak, or write your public comment in the Q&A Tab.

Agenda Item 2:

Program 'C' Well Site Selection Discussion



Program C Well Site Selection - Background

Section 10.4 of the Basin Plan describes Infrastructure Program C as follows:

Program C includes a set of infrastructure improvements that would allow the Purveyors to shift some groundwater production within the Lower Aquifer from the Western Area to the Central Area. Since groundwater production from the Central Area induces less seawater intrusion than the same amount of production from the Western Area, this landward shift increases the Sustainable Yield of the Basin.



Program C Well Site Selection - Background

Recent Project Timeline:

January 2020 – Site A test well results

February 2020 – CHG Technical Memo adding Sites E and F to site list

May 2020 – Contract with SWCA to perform Environmental Constraints Analysis

September 2020 – Environmental Constraints Analysis completed



Site Locations:

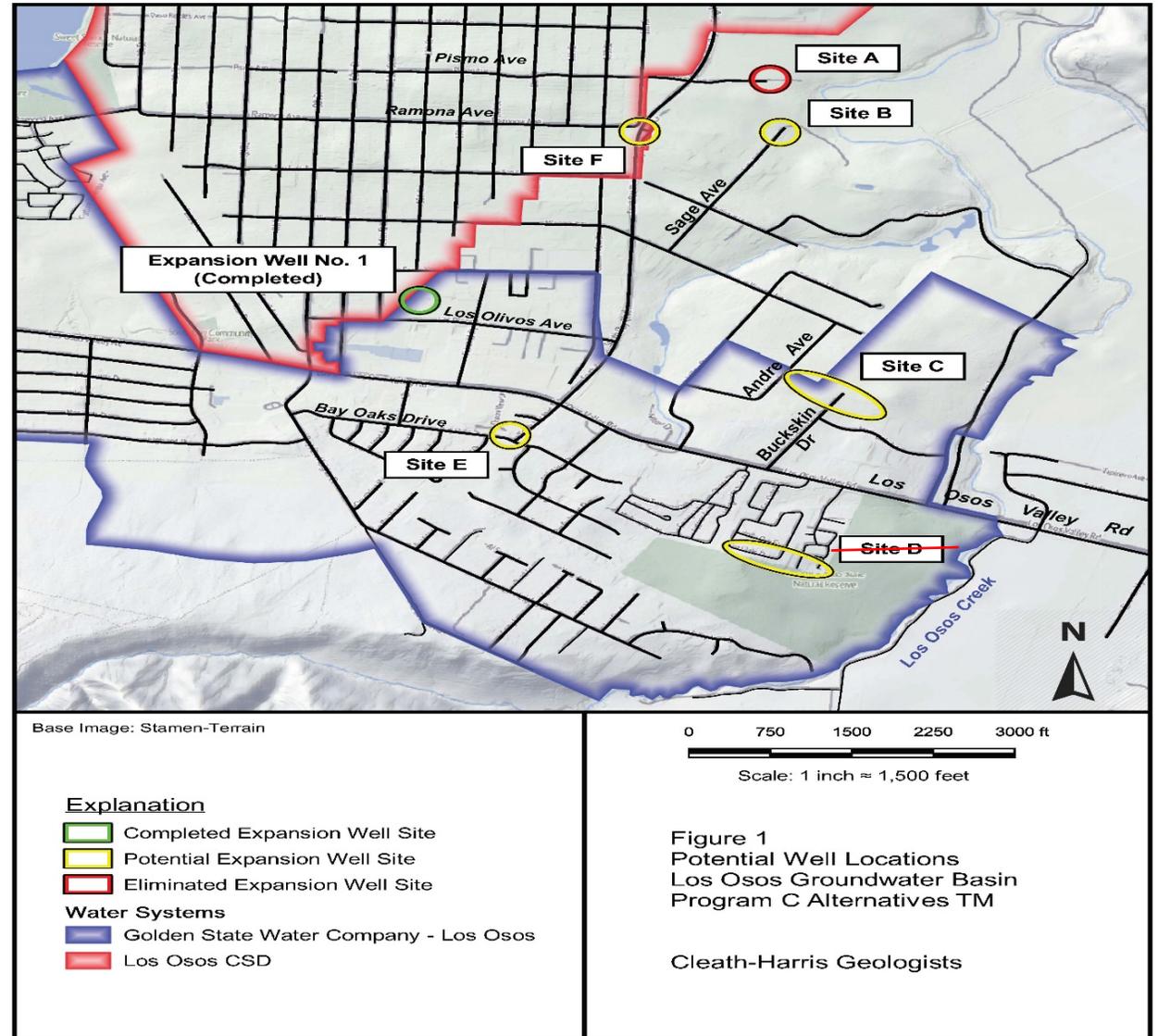
Site B – Sage Avenue

Site C – Andre Avenue

~~Site D – Sunny Oaks Mobile Home Park~~

Site E – Bay Oaks Drive

Site F – Ramona Avenue



Program C Well Site Selection – Environmental Constraints Analysis

Purpose:

The Environmental Constraints Analysis provides a preliminary-level, pre- California Environmental Quality Act (CEQA) document, summary of the potential critical impacts that may warrant the greatest level of analysis under the subsequent CEQA determination.



Program C Well Site Selection – Environmental Constraints Analysis

Environmental Resources

Aesthetics	Hazardous Materials
Air Quality	Hydrology & Water Quality
Biological	Land Use & Planning
Cultural & Tribal	Minerals
Geology & Soil	Population & Housing*
Noise	Public Services & Recreation
Ag & Forestry	Transportation & Circulation
Green House Gas	Utilities & Service Systems

*If Site C is selected, further analysis on the potential for growth inducement based on the requested water reservation for future development would need to be evaluated.



Program C Well Site Selection – Environmental Constraints Analysis

Environmental Constraints Analysis Rankings

Ranking

Site

1

E

2

C

3

F

4

B



Program C Well Site Selection – Well Site Comparisons

Sustainable Yield Estimates

Table 1 – Basin Sustainable Yield Estimates with Minimum Production Objective (100 AFY) for Expansion Well No. 2

Expansion Well No. 2 Site	Production at Expansion Well No. 2	Estimated Sustainable Yield	Increase over Baseline
		Acre-Feet per Year	
Baseline (no Well No. 2)	--	2,760	0
Site B – Sage	100	2,840	80
Site C – Andre	100	2,850	90*
Site D – Mobile Home Parks	100	2,860	100
Site E – Bay Oaks	100	2,830	70
Site F – Ramona	100	2,830	70

*The property owner is requesting a reservation of approximately 20 AFY for future development



Program C Well Site Selection – Well Site Comparisons

Sustainable Yield Estimates

Table 2 – Basin Sustainable Yield Estimates with Anticipated Production for Expansion Well No. 2

Expansion Well No. 2 Site	Production at Expansion Well No. 2	Estimated Sustainable Yield	Increase over Baseline
		Acre-Feet per Year	
Baseline (none)	--	2,760	0
Site B	100	2,840	80
Site C	200	2,900	140*
Site D*	150	2,890	130
Site E	200	2,840	80
Site F	100	2,830	70

*The property owner is requesting a reservation of approximately 20 AFY for future development



Program C Well Site Selection – Site Selection Criteria

Factor	Site B	Site C	Site E	Site F
Proximity to infrastructure	3	3	3	4
Community acceptance	2	2	3	3
Property owner status/land cost	3	5	5	4
Environmental Constraints	2	4	5	3
Site layout/access	3	3	4	4
Permitting	3	3	4	3
Production	3	5	5	3
Yield	4	5	4	3
Total (equal weight)	23	30	33	27
Total 2x prod/yield	31	40	42	33



Selection of Site E – Summary of the Recommendation

- The site is District owned which means no outside agreements are necessary and no easement conditions such as the water reservation requested by the owner of Site C will be applicable.
- The property is zoned Public Facilities which means the project is considered compatible with existing on-site land uses and is generally compatible with surrounding uses. The site may not be subject discretionary development permits from the County which means the project can proceed more quickly.
- Access to the site for ongoing repairs and maintenance is superior to the other sites.



Selection of Site E – Summary of the Recommendation

- In terms of constructability of the well, during the decommissioning of the septic tanks, a large area was leveled which would provide room for well drilling activities. Additionally, adjacent to the level pad there is a detention basin that could be used for the well discharge water during pump testing and construction.
- Per the Environmental Constraints Analysis, the site is the least constrained and, environmentally, is the preferred alternative.
- Future Upper Aquifer development at Site E (either through a combined aquifer (Zone C/D/E) well or a separate well) could reduce the difference in yield between Site C and Site E, and would also provide increased production capacity at Site E, compared to Site C.
- Limited to no potential impacts to private wells; Site C is estimated to have the greatest potential for water level impacts that could result in additional costs for the recommended study and mitigation measures (CHG 2018) .



Program C Well Site Selection – Next Steps

- Complete the remaining environmental work including the Initial Study/Mitigated Negative Declaration
- Board approval of the required final environmental document
- Development of a professional services contract for the drilling phase of the project
- Prepare and award drilling contract and complete Program C well construction and testing
- Development of the engineering documents for equipping and connecting the well for service



Program C Well Site Selection - Recommendation

Motion: I move that the UAC recommend to the Board:

The approval of the selection of Site E as the preferred location of the Program C well; and

The approval of moving forward with Phase 2 of the California Environmental Quality Act (CEQA) analysis.



Agenda Item 3:

Approve UAC Meeting
Minutes of
September 16, 2020



Agenda Item 4:

Basin Management Committee Updates



Agenda Item 5:

Utility Department Report



Agenda Item 5:

Water Production:

- 16.46 million gallons - average daily demand 553,690 gallons
- Increase of approximately 7.2% over last year
- Per capita water use increased from 66.3 gpcd in August 2019 to 71.1 gpcd in August 2020.



Production & Runtime Hours by Well Site

Production:

Production (MG) August	2020	2019
Palisades	5.54	3.68
3 rd Street/Bayside	0	0
8 th Street/El Moro	8.21	5.02
10 th Street	0	4.53
South Bay (lower)	2.19	2.13
South Bay (upper)	0.53	0
TOTAL	16.46	15.36



Production & Runtime Hours by Well Site

Runtime:

Runtime (hrs.) August	2020	2019
Palisades	275.7	178.6
3 rd Street/Bayside	.2	0.1
8 th Street/El Moro	463.2	283.4
10 th Street	0	289.3
South Bay (lower)	736.2	713.4
South Bay (upper)	313.4	0
TOTAL	1,788.7	1,464.8



Water Billing Information

Fifty-seven percent of the service area received bills for approximately **18.10 MG** consumption for the period of June 10, 2020 through August 11, 2020. This generated approximately **\$313,290.49** in revenue.



Rainfall – Water Year April through March

Water Year	Total
2020-2021 (through August)	2.09
2019-2020	13.23
2018-2019	23.09
2017 - 2018	13.62
2016 - 2017	26.01
2015 - 2016	16.74
2014 - 2015	7.61
2013 - 2014	6.59
2012 - 2013	9.87



Utilities Department Report

Questions

Agenda Item 6:

Utility Department Updates



Agenda Item 6: Utility Department Updates

8th Street Water Yard Building

Construction of the building is completed. Staff is working through issues on the fire alarm system.

10th Street Exterior Coating Project

The project commenced as of September 22nd; the project was completed on October 3rd.

South Bay Well Transmission Main Project

This project is nearing completion. The pipeline has been laid. There will still be some follow-up work like repairs to pavement etc.



Agenda Item 6: Utility Department Updates

SCADA Project Update

The Phase I Radio Survey has been completed. The report was received on October 12, 2020 and staff is reviewing for next steps. Next steps would be to begin the design, develop the scope of work and finalize the bid documents.

10th Street Well Issues

The 10th Street well has been out of service since June 15th. Staff received a negative bacterial result on October 14th. So, we will get the well back up and running at capacity. The Lining project will begin within the next two weeks dependent upon delivery of materials.



Agenda Item 6: Utility Department Updates

3rd Street Well

The 3rd street well has been out of service since 2015. At that time there was a state regulation for maximum contaminant level (MCL) for Chromium 6 of 10 parts per billion ($\mu\text{g}/\text{L}$). In September 2017 the state repealed the MCL. Recent Chromium 6 sampling at the well site produced a 3.7 $\mu\text{g}/\text{L}$ result. Staff conferred with staff from the State Drinking Water Division on the process required to get this well back into service. There are just a few constituents that require sampling and then we will be looking at putting this well back into service.



Agenda Item 7:

Public Comment For Items Not On The Agenda

To Speak:

Raise your Hand by clicking  on your computer
Or Press *9 to raise your hand via phone.



Agenda Item 8:

Schedule Next UAC Meeting

November 18, 2020

at 5:30pm



Agenda Item 9:

Closing Comments by UAC Committee Members



Agenda Item 10:

Adjournment

