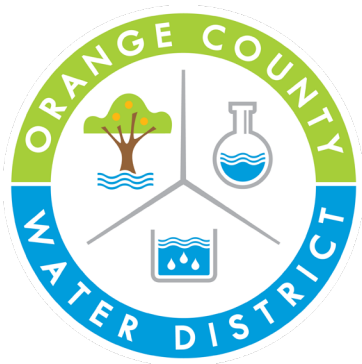




## **Pre-Bid Meeting**

# **Construction of AM-21R & AM-63 Monitoring Well Clusters**



Bids Due 3/25/2026 @ 2:00 PM

March 4, 2026

# Project Description

- Install four monitoring wells at two sites in the cities of Anaheim and Placentia by Direct Mud Rotary Drilling Method.

Contents of this pre-bid presentation are for discussion purposes only and do not supersede the provisions in Contract GBM-2025-1

# Mobilization

- Underground Service Alert (contractor)
- Geophysical utility clearance (consultant)
  - AM-63 site only
- Air knife utility clearance (contractor)
- Permits (AM-21R)
  - Anaheim Hydrant Use Permit (contractor)
  - Anaheim Well Permit (contractor)
  - Access Agreement (OCWD)
- Permits (AM-63)
  - Placentia Encroachment Permit (contractor)
  - Placentia Hydrant Use Permit (contractor)
  - Orange County Well Permit (contractor)



# Mobilization

- Noise barrier walls/blankets
- AM-21R
  - 12-foot-tall by 100-feet-long
  - Northern edge of equipment
- AM-63
  - 12-foot-tall
  - Completely surrounding all equipment
- Security guard required @ AM-63 when no crew is on site.



# Construction Sequence (AM-63)

- Install conductor casing (AM-63B only)
  - 18-inch borehole/14-inch casing
- Drill deep borehole
  - 10-inch diameter borehole
- Complete geophysical logs
- 36-hour well design period
- Construct deep well
- Complete initial development of deep well
- Drill and construct shallow well
- Complete initial development of shallow well
- Develop all wells
- Disinfect wells
- Complete video surveys



# Construction Sequence (AM-21R)

- Drill deep borehole
  - 10-inch diameter borehole
- Complete geophysical logs
- 36-hour well design period
- Construct deep well
- Complete initial development of deep well
- Drill and construct shallow well
- Complete initial development of shallow well
- Develop all wells
- Disinfect wells
- Complete video surveys



# Geophysical Logs

- Spontaneous Potential
- 16-inch normal resistivity
- 64-inch normal resistivity
- Laterolog 3 (guard)
- Natural gamma
- Sonic velocity-variable density



# Well Construction Materials

- 4-inch diameter schedule 80 PVC well casing and screen
- Centralizers above and below screens and every 50 feet
- 0.020-inch slot screen opening
- #3 (8x20) filter pack
- Granular bentonite/sand
- Neat cement seals



# Well Development

- Initial development w/drill rig
  - Airlift for 1 hour
  - 24-hours after cement seal is placed
- Swab and bail
- Double-swab airlift
- Chemical development
  - Dispersant
- Pump and sample
- Disinfect
  - Swab in 50 ppm chlorine
  - Airlift 1 hour



# Demobilization

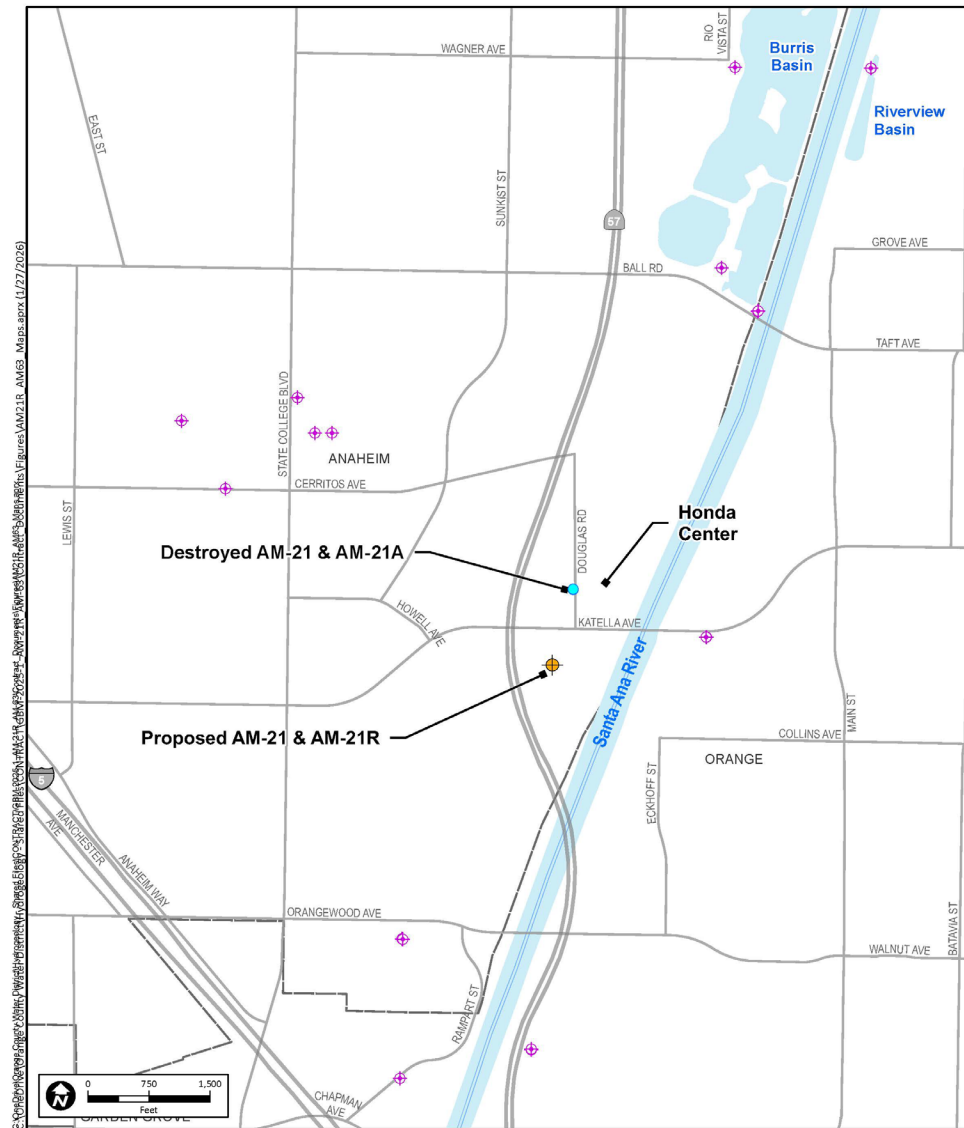
- Site clean up
- Waste disposal
  - Drill cuttings and fluids
  - Development water
- Vault installation
- Video surveys
- DWR Well Completion Reports




# Additional Items

- Drilling rate 20 feet/hour
- AM-63 Start date
  - June 1, 2026
- AM-63 City park parking lot
- AM-21R Start date
  - July 2026
  - Depending on site access
- AM-21R active construction site
  - Parking structure construction






 Proposed AM-21 Monitoring Well Cluster  
 Vicinity Map  
 Legend:  
 - Proposed Monitoring Well (Yellow circle with crosshair)  
 - Destroyed and Sealed Well (Blue circle)  
 - Monitoring Well (Purple circle with crosshair)

SOURCE: OCWD (01/2026)

Figure 1





 Proposed AM-21R Monitoring Well Cluster Site  
 Legend:  
 - Approximate Location of Proposed Monitoring Well Cluster (Yellow circle with crosshair)

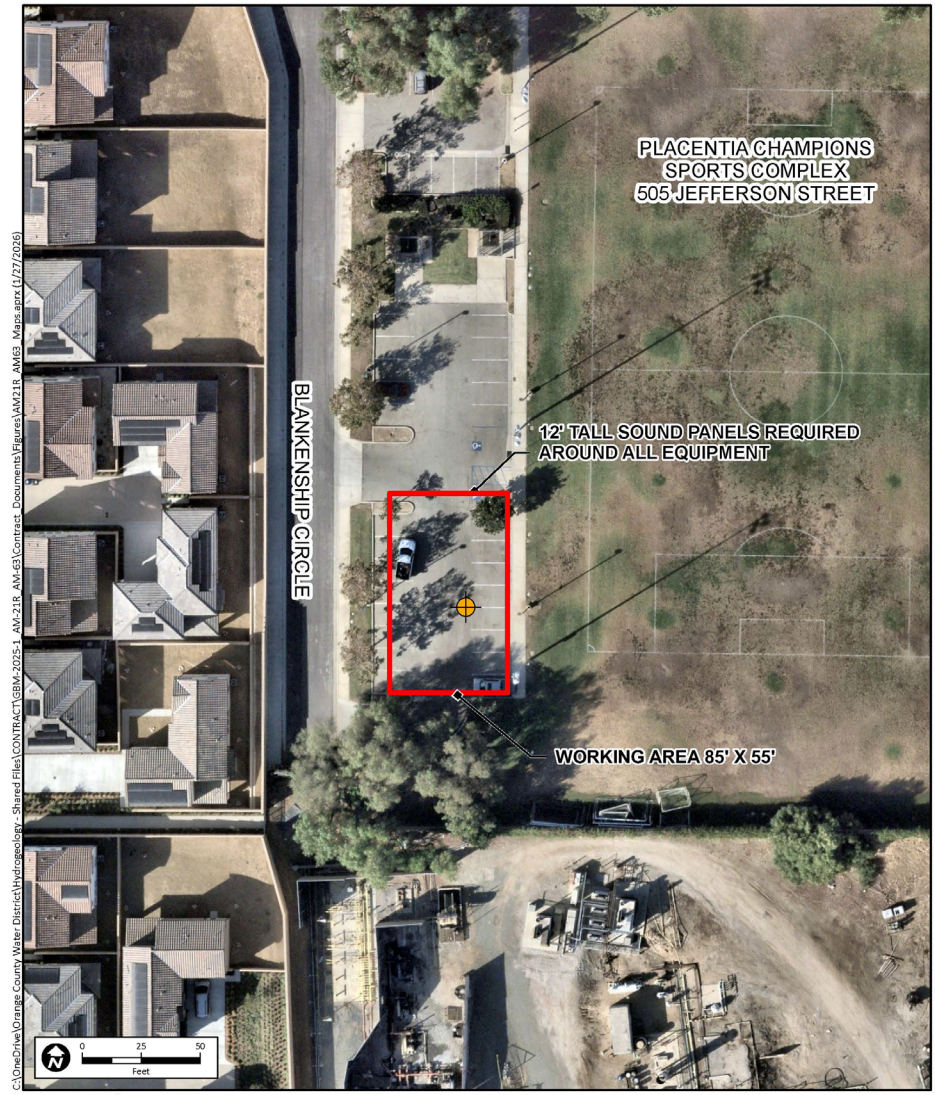
Figure 2



SOURCE: OCWD (01/2026)

Proposed AM-63 Monitoring Well Cluster  
Vicinity Map

Figure 3



Proposed AM-63 Monitoring Well Cluster  
Site Map

SOURCE: OCWD (01/2026)

Approximate Location of Proposed  
Monitoring Well Cluster

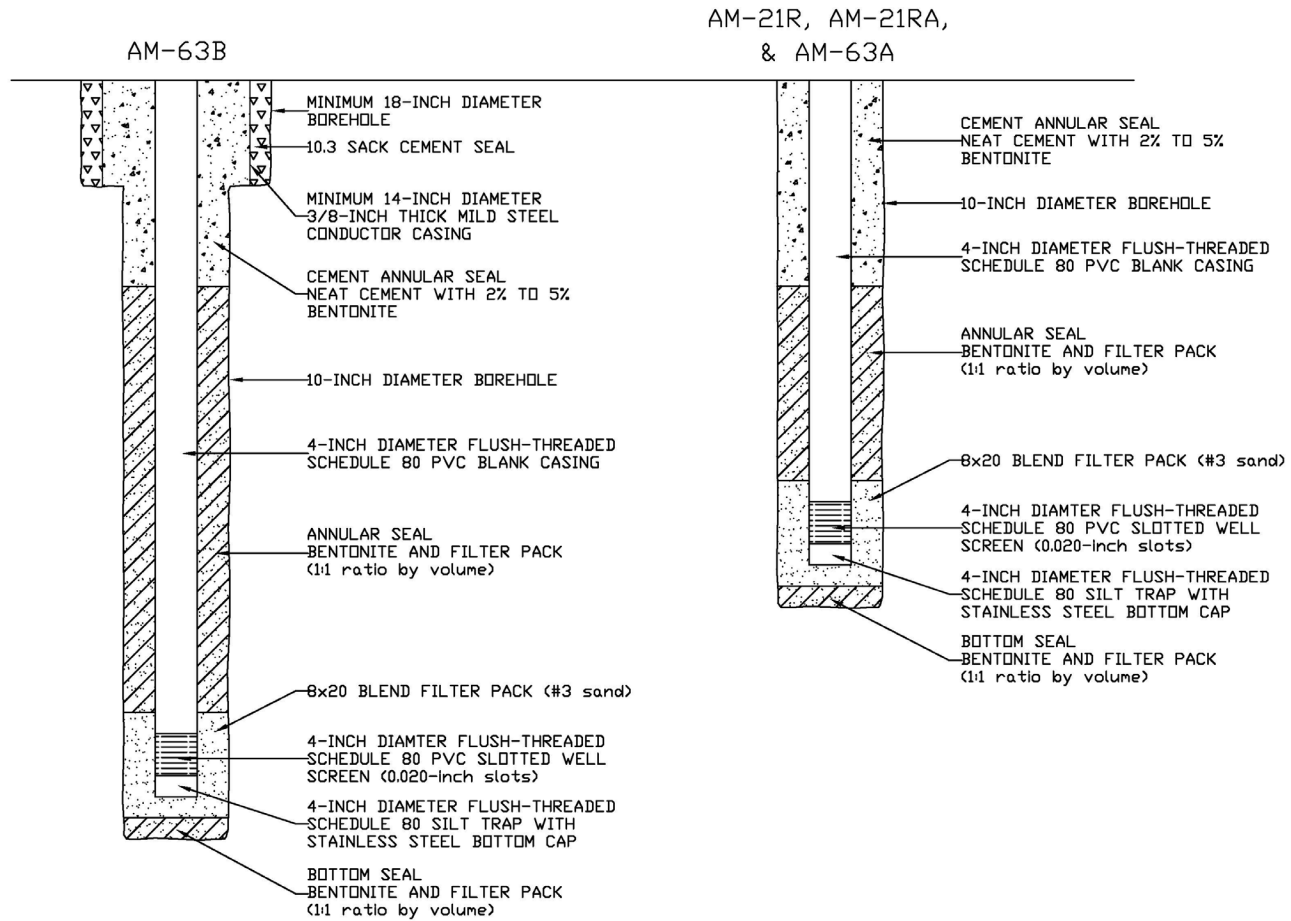
12' TALL SOUND PANELS REQUIRED  
AROUND ALL EQUIPMENT

WORKING AREA 85' X 55'

PLACENTIA CHAMPIONS  
SPORTS COMPLEX  
505 JEFFERSON STREET

BLANKENSHIP CIRCLE

Figure 4



**NOTES:**

1. WELLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ACTUAL DEPTHS AND QUANTITIES WILL VARY BASED ON OBSERVED FIELD CONDITIONS.
3. CENTRALIZERS SHALL BE INSTALLED ABOVE AND BELOW EACH SCREEN INTERVAL AND EVERY 50 FEET.
4. CENTRALIZERS NOT SHOWN ON DIAGRAM.
5. 50' CONDUCTOR CASINGS AM-63B ONLY.
6. A FULL SUITE OF GEOPHYSICAL LOGS SHALL BE COMPLETED IN THE DEEP BOREHOLE AT EACH SITE (AM-21R & AM-63B).
7. ANTICIPATED WELL DEPTHS ARE APPROXIMATE AND WILL LIKELY CHANGE BASED ON OBSERVED FIELD CONDITIONS.

ANTICIPATED WELL DEPTHS (ft. bgs.)

WELL NUMBER	BOREHOLE DEPTH	SCREEN INTERVAL	CONDUCTOR CASING
AM-21RA	200	150-170	NO
AM-21R	310	250-270	NO
AM-63A	250	215-235	NO
AM-63B	600	520-550	YES

NOT TO SCALE

Figure 5  
TYPICAL WELL CONSTRUCTION DETAILS  
PROPOSED AM-21R & AM-63 MONITORING WELL CLUSTERS





02/17/2026



# Thank You!

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