Monterey Peninsula Water Supply Project - Presentation to MPWSP Governance Committee

March 31, 2014
Ian Crooks
California American Water
Content

• Borehole Overview, Summary of Results, and Photos

• Cemex Test Well Location and Profile

• Schedule MPWSP and Test Well
Boreholes History

- 11 Boreholes completed
- 1 borehole under construction – Cemex #6
- 1 borehole remaining – State Parks Monterey Dunes Way

13 Boreholes completed in 7 months
Potrero Rd
Moss Landing – Del Mar Fisheries
Borehole Results

✓ Cemex favorable results
  ▪ Dune Sand Aquifer with no significant clay layer found
  ▪ High TDS content – 24,000 to 35,000 mg/l
  ▪ Data suggests Cemex area is outside of the 180/400-Foot subbasins and primarily ocean water will be drawn, models to confirm

✓ Potrero Road favorable results
  ▪ Dune Sand equivalent aquifer with defined aquitard from 140ft – 185ft
  ▪ High TDS content above 140-foot aquitard – 34,000 mg/l

✗ Moss Land area – unfavorable for slant test well
  ▪ Large layers of clay mixed with intermittent sand/silt layers
CEMEX Test Well
Slant Well Dual Rotary Drill Rig
Test Well Location at Cemex – Preliminary Layout
Test Well Profile – Conceptual Illustration
CEMEX Section – Preliminary Findings
Test Well Schedule & MPWSP Overall Schedule
Test Well CEQA/NEPA - Anticipated Schedule

April

Draft Report & City Review Complete (Present - 4/30)

May

30 Day Public Comment Period (5/2–6/1)

June

Finalize Report (6/2-6/20)

July

7/10 1st PC Meeting

8/7 1st Council Meeting

8/20 2nd Council Meeting

August

49-days maximum Coastal Commission to Hear Appeal (8/14 – 10/1)

Continues with Coastal Commission

September

CCC Meeting 10/8-10/10

October

NEPA Process

MBNMS Review EA (4/28- 5/16)

Draft EA (5/19-5/31)

30 Day Public Comment Period (6/1-6/30)

Admin Draft FONSI (6/23-7/25)

MBNMA Review FONSI (7/28-8/22)

MBNMS Finalized FONSI (8/25-9/5)

MBNMS Authorization FONSI (9/8-9/19)

November

Updated 3/20/14
Monterey Peninsula Water Supply Project Anticipated Schedule

2014
- Q3-2014: Draft EIR
- Q1-2015: CPUC EIR & CPCN APPROVAL
- CCC Test Well Approval
- Monterey Peninsula Water Supply Commission (MPWSC) EIR Approval

2015
- Coastal Commission MPWSC EIR Approval

2016
- Slant Wells Phase 1

2017
- Slant Wells Phase 2
- SWRCB Current Deadline Jan. 2017

2018
- Slant Wells Phase 3 (if needed)

Desal Plant Design/Permitting
- 30% Design 06-2014
- 60% Design 09-2014
- 90% Plant Design 02-2016
- Final Design 02-2016

Desal Plant Construction
- Full-scale Plant Start-up

Pipeline Design, Permitting & Contracts

Pipelines Construction

Updated 3/20/14
Potrero Rd
Contingency Slant Well
Source Water Location
Potrero Road - Contingency Slant Well Location
Potrero Road Location Benefits & Challenges

**Environmental**
- Disturbed parking lot and located outside Coastal Erosion

**Habitat**
- No Snowy Plover historically, allowing year round drilling

**Good Hydrogeologic conditions for Slant Wells**
- Dune Sand equivalent aquifer with defined aquitard from 140ft – 185ft
- High TDS content above 140-foot aquitard – 34,000 mg/l

- More Pipeline (21,000’) & Cost ($12m to $16m) then Cemex option
- Construction complexity – river crossings, high water table, highways, bridge crossings
- No Outfall disposal option for test well
Potrero Rd – Permitting Timeline & Cost

Timeline
- End of April - complete Project Description
- May – file project application with County
- 6 – 12 months of CEQA/NEPA processing

Cost
- Permitting Budget - $300,000 to $500,000