

TO: BOARD OF DIRECTORS  
FROM: BRUCE BUEL *BB*  
DATE: JANUARY 23, 2009



WATERLINE INTERTIE PROJECT UPDATE

**ITEM**

Mike Nunley of AECOM Engineering re Waterline Intertie Project Update [NO ACTION REQUESTED].

**BACKGROUND**

Mike Nunley is scheduled to summarize the attached reports.

**RECOMMENDATION**

Staff recommends that your Honorable Board receive the presentations and ask questions as appropriate.

**ATTACHMENTS**

- December Monthly Report
- January Monthly Report

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## Memorandum

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Date: December 17, 2008  
To: Bruce Buel, General Manager – Nipomo Community Services District  
From: Michael K. Nunley, PE  
Subject: Waterline Intertie Project – Design Phase Status Report

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Distribution: Peter Sevcik, PE

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The Project Team has completed the following work items this month:

1. Most of the survey field work and all of the aerial mapping has been completed. Preliminary mapping has been completed for the entire project area. Final mapping is completed along Blosser Road in Santa Maria; across the levee and river; and to Orchard Road. All final mapping is anticipated to be complete by the first week of January.
2. Geotechnical field work has been completed. Concrete pavement was discovered along Oakglen Avenue and Darby Lane and Fugro prepared a budget revision request to collect core samples in order to determine the thickness of the pavement. It is our understanding other concrete pavement may be present along Frontage Road and we are working with County staff to identify these locations. It is recommended that core samples be taken during potholing activities in order to determine the extent and thickness of the pavement.
3. Property negotiation for the pipeline easements, tank site, and pump station site between the bluff and Joshua Rd is underway. Boyle has provided preliminary site plans and easement drawings to the District for this work.
4. AECOM has begun working on a hydraulic analysis to address potential supplemental water turnouts for Golden State Water Company and the Woodlands community. This line item has been added to the Project Budget as Budget Revision #3.
5. AECOM is working with District staff to prepare technical comments in response to the City of Santa Maria's draft delivery agreement.
6. The Chloramination and Bid Strategy Technical Memoranda (Nos. 2 and 7) have been completed.

## Schedule

The Project Schedule has been updated with a detailed list of Environmental Impact Report tasks and milestones, as provided by Doug Wood.

**Budget Status**

The Project Budget Summary has been revised to include each Budget Revision Request separately. A row for permit fees (paid by Boyle but reimbursed by the District outside of the current project budget) has been added to the Budget Summary and Invoice Summary tables.

As shown on the attached Design Budget and Invoice Summary, our fee earned matches the amount expended. This indicates we are on budget as of this date.

Yours Sincerely



Michael K. Nunley, PE

Enclosures: Design Budget and Invoice Summary  
Project Budget Summary  
Project Schedule

**Project Budget Summary**

**Engineering Services for NCSD - SWP Design**

**Nipomo CSD**

	<b>Total Budget</b>	<b>Amount Previously Invoiced</b>	<b>Current Invoice Amount</b>	<b>% of Budget Earned to date</b>	<b>% of Work Complete</b>
Task Group 1 - Concept Design Report	\$416,461.00	\$82,328.61	\$101,794.70	44%	44%
Task Group 2 - Permitting	\$30,607.00	\$7,397.21	\$2,864.26	34%	34%
Task Group 3 - Construction Documents	\$350,691.00	\$10,135.80	\$7,803.00	5%	5%
Task Group 4 - Project Management	\$43,520.00	\$15,873.85	\$3,153.60	44%	44%
Task Group 5 - Assistance During Bids	\$48,942.00	\$0.00	\$0.00	0%	0%
Task Group 6 - Office Engineering During Construction (5 Bid Packages)	\$175,837.00	\$0.00	\$0.00	0%	0%
<b>Total</b>	<b>\$1,066,058.00</b>	<b>\$115,735.47</b>	<b>\$115,615.56</b>	<b>22%</b>	<b>22%</b>

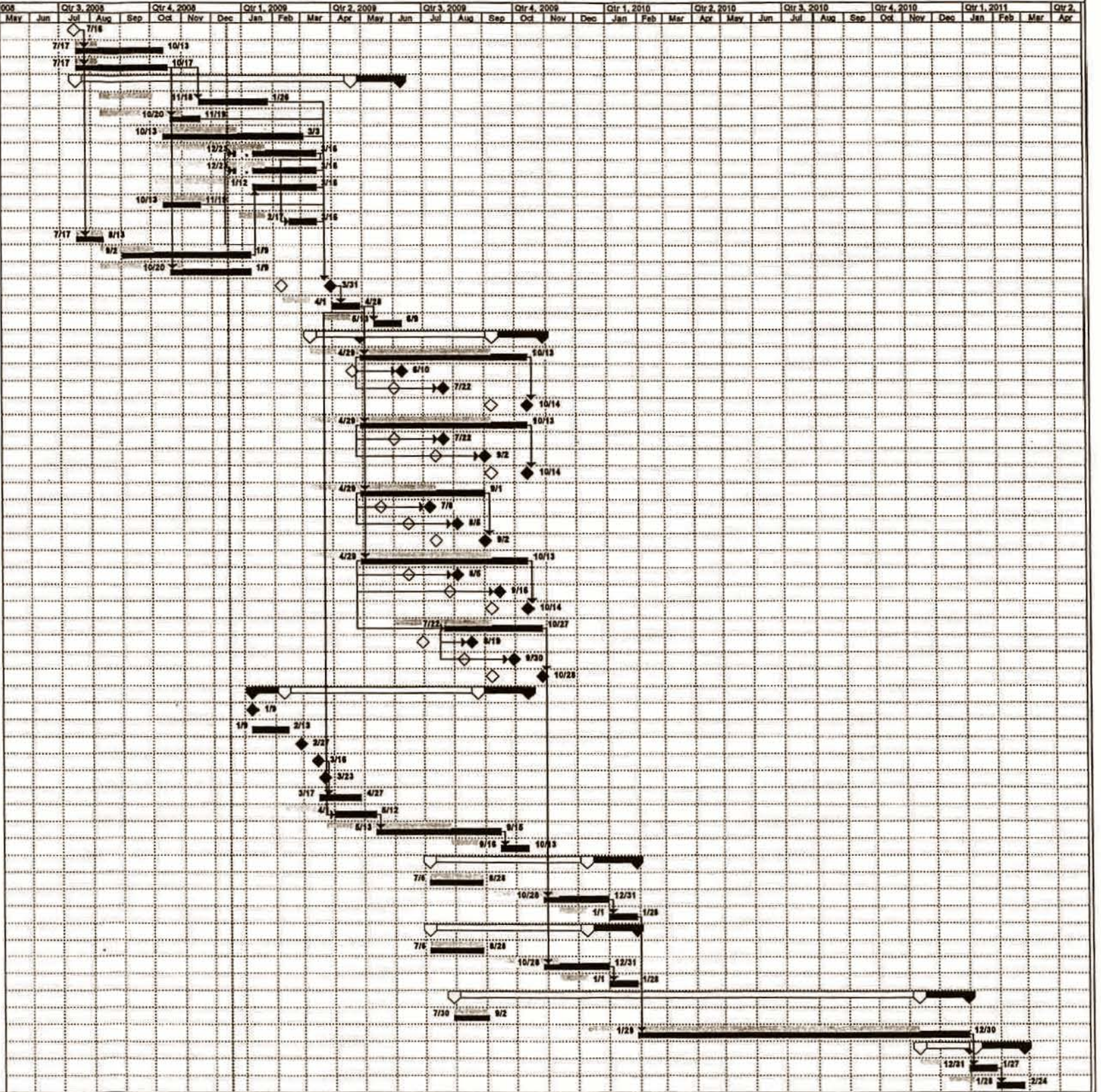
	<b>Amount Previously Invoiced</b>	<b>Current Invoice Amount</b>	<b>Total Permitting Fees to date</b>
Permitting Fees	\$1,572.91	\$0.00	\$1,572.91

Item	Description	Budgeted Amount May 2008 PER	Updated Amount 17-Dec-08
1	Mobilization	\$580,000	\$580,000
2	Blosser Extension (18-in)	\$1,247,000	\$1,247,000
3	Pump Station No. 1 turnout & meter (Blosser Rd)	\$61,000	\$61,000
4	River Crossing (24-in HDD)	\$6,135,000	\$6,135,000
5	24-in Pipeline to Joshua	\$656,000	\$656,000
6	Reservoir (0.5-MG)	\$1,361,000	\$1,361,000
7	Pump Station No. 2	\$603,000	\$603,000
8	Pressure Regulators (200 homes)	\$30,000	--
9	Pressure Reducing Valve Stations	\$18,000	\$72,000
10	Chloramination (Joshua & 5 wellheads)	\$707,000	\$707,000
11	Upgrade Southland to 12-in	\$799,500 (1)	\$780,000 (7)
12	Upgrade Frontage to 12-in	\$1,101,300 (1)	\$880,000 (7)
13	Upgrade Orchard to 12-in	\$509,000	\$1,040,000 (8)
14	Upgrade Division to 10-in between Allegre and Meridian (6)	\$53,000	--
15	Oakglen Avenue 12-in main (5)	--	\$420,000
16	Darby Lane 12-in main (5)	--	\$100,000
17	HWY 101 Bore & Jack (5)	--	\$132,000
18	Isolation Valves (5)	--	\$12,000
	<b>Construction Subtotal</b>	<b>\$13,860,800</b>	<b>\$14,786,000</b>
19	Contingency	\$3,643,000	\$3,696,500 (9)
20	Property Acquisition	-- (4)	--
21	Design-Phase Engineering		
	Original Agreement (July 2008)		\$744,993
	Budget Revision 1 - Pressure Reduction		\$132,798
	Budget Revision 2 - Biological Survey for HDD		\$4,050
	Budget Revision 3 - Modeling for GSW/Woodlands Turnouts		\$8,380
22	Office Engineering during construction		\$175,837
23	Construction Management (3)	\$2,428,000 (2)	\$1,507,170 (10)
24	Environmental Mitigation	-- (4)	--
25	Environmental Monitoring	-- (4)	--
26	Permitting Fees	--	\$1,572.91
	<b>PROJECT TOTAL (Rounded to 1000)</b>	<b>\$19,932,000 (4)</b>	<b>\$21,058,000</b>

Notes:

- ENR CCI: March 2008 = 8109
- (1) Costs are from the December 2007 Water and Sewer Master Plan (Cannon).
  - (2) Engineering and Construction Management were originally presented as a "lump sum" amount
  - (3) Includes material testing and construction staking
  - (4) Excludes property acquisition, environmental mitigation, and monitoring
  - (5) These work items were added to relieve high pressures on Mesa as an alternative to service pressure regulating valves (See Tech Memo 9). One PRV station at Maria Vista was required initially. Four are recommended for revised project. This was design Budget Revision #1.
  - (6) Based on review of record drawings, this pipeline is already a 10-in main
  - (7) Initial estimate incorporated Master Plan project costs. Revised estimate includes higher unit costs to reflect paving 1 traffic lane, per County standards
  - (8) Updated unit costs include higher costs to reflect paving 1 traffic lane, per County standards
  - (9) Contingency was modified to 25% which is more appropriate for concept design phase.
  - (10) To be provided by CM team - Has not been revised to reflect additional work for construction management of Oakglen, Darby, and Orchard extensions.

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline																							
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1	Kickoff meeting	1 day	Wed 7/16/08	Wed 7/16/08																									
2	Right of Entry Agreements and Coordination	63 days	Thu 7/17/08	Mon 10/13/08	1																								
3	Permitting and Approvals for Field Work at River	87 days	Thu 7/17/08	Fri 10/17/08	1																								
4	<b>Concept Design Report</b>	<b>234 days</b>	<b>Thu 7/17/08</b>	<b>Tue 6/9/09</b>																									
5	101 - Geotechnical Report for HDD Technical Memorandum	2.5 mons	Tue 11/18/08	Mon 1/28/09	3																								
6	102 - Project Bidding Strategy Technical Memorandum	1.15 mons	Mon 10/20/08	Wed 11/19/08	3																								
7	103 - Pipeline Alignment Technical Memorandum	102 days	Mon 10/13/08	Tue 3/3/09																									
8	104 - Pump Station Design Technical Memorandum	2.45 mons	Tue 12/23/08	Mon 3/16/09	14																								
9	105 - Reservoir Design Technical Memorandum	2.45 mons	Tue 12/23/08	Mon 3/16/09	14																								
10	106 - Permitting Strategy Technical Memorandum	2.3 mons	Mon 1/12/09	Mon 3/16/09	14																								
11	107 - Chloramination Systems Technical Memorandum	1.4 mons	Mon 10/13/08	Wed 11/19/08																									
12	108 - Back-up Power, Controls, and Instrumentation Technical Memorandum	1 mon	Tue 2/17/09	Mon 3/16/09	8FS-20 days																								
13	109 - Pressure Reduction Study	1 mon	Thu 7/17/08	Wed 8/13/08	1																								
14	110 - Survey and Base Map (by Wallace Group)	4.7 mons	Tue 9/2/08	Fri 1/9/09																									
15	111 - Geotechnical Report (by Fugro)	3 mons	Mon 10/20/08	Fri 1/9/09	3																								
16	Draft Concept Report	1 day	Tue 3/31/09	Tue 3/31/09	5,6,7,8,9,10,11,12F																								
17	113 Review and Finalize Concept Design Report	1 mon	Wed 4/1/09	Tue 4/28/09	18																								
18	114 - Narrative Report	1 mon	Wed 5/13/09	Tue 6/9/09	17FS+10 days																								
19	<b>Construction Plans and Specifications</b>	<b>131 days</b>	<b>Wed 4/29/09</b>	<b>Wed 10/28/09</b>																									
20	Bid Package 1 - HDD	6 mons	Wed 4/29/09	Tue 10/13/09	17																								
21	60% Submittal	1 day	Wed 8/10/09	Wed 8/10/09	20SS+1.5 mons																								
22	90% Submittal	1 day	Wed 7/22/09	Wed 7/22/09	20SS+3 mons																								
23	100% Submittal	1 day	Wed 10/14/09	Wed 10/14/09	20																								
24	Bid Package 2 - NCSW System Pipeline Improvements	6 mons	Wed 4/29/09	Tue 10/13/09	17																								
25	60% Submittal	1 day	Wed 7/22/09	Wed 7/22/09	24SS+3 mons																								
26	90% Submittal	1 day	Wed 9/2/09	Wed 9/2/09	24SS+4.5 mons																								
27	100% Submittal	1 day	Wed 10/14/09	Wed 10/14/09	24																								
28	Bid Package 3 - Blosser Road Water Main and Flow Meter	4.5 mons	Wed 4/29/09	Tue 9/1/09	17																								
29	60% Submittal	1 day	Wed 7/8/09	Wed 7/8/09	28SS+2.5 mons																								
30	90% Submittal	1 day	Wed 8/5/09	Wed 8/5/09	28SS+3.5 mons																								
31	100% Submittal	1 day	Wed 9/2/09	Wed 9/2/09	28																								
32	Bid Package 4 - Pump Station and Reservoir	6 mons	Wed 4/29/09	Tue 10/13/09	17																								
33	60% Submittal	1 day	Wed 8/5/09	Wed 8/5/09	32SS+3.5 mons																								
34	90% Submittal	1 day	Wed 9/16/09	Wed 9/16/09	32SS+5 mons																								
35	100% Submittal	1 day	Wed 10/14/09	Wed 10/14/09	32																								
36	Bid Package 5 - Wellhead Chloramination Improvements	3.5 mons	Wed 7/22/09	Tue 10/27/09	32SS+3 mons																								
37	60% Submittal	1 day	Wed 8/19/09	Wed 8/19/09	36SS+1 mon																								
38	90% Submittal	1 day	Wed 9/30/09	Wed 9/30/09	36SS+2.5 mons																								
39	100% Submittal	1 day	Wed 10/28/09	Wed 10/28/09	38																								
40	<b>Permitting</b>	<b>198 days</b>	<b>Fri 1/9/09</b>	<b>Tue 10/13/09</b>																									
41	End of EIR Public Review Period	1 day	Fri 1/9/09	Fri 1/9/09																									
42	Preparation of Administrative Final EIR/Responses to Comments	1.3 mons	Fri 1/9/09	Fri 2/13/09																									
43	Receipt of Comments from District on Final EIR	1 day	Fri 2/27/09	Fri 2/27/09																									
44	Completion of Final EIR	1 day	Mon 3/16/09	Mon 3/16/09																									
45	Completion of Findings of Fact	1 day	Mon 3/23/09	Mon 3/23/09																									
46	Public Hearings/EIR Certification	1.5 mons	Tue 3/17/09	Mon 4/27/09	44																								
47	Complete and submit permit applications	30 days	Wed 4/1/09	Tue 5/12/09	17FS-1 mon																								
48	Coordinate with regulatory agencies	90 days	Wed 5/13/09	Tue 9/15/09	47																								
49	Acquire permits and incorporate in final design plans	20 days	Wed 9/16/09	Tue 10/13/09	48																								
50	<b>Standard Bid-Construct Process for Underground/Storage Work</b>	<b>149 days</b>	<b>Mon 7/6/09</b>	<b>Thu 1/28/10</b>																									
51	Pre-Qualify Contractors	2 mons	Mon 7/6/09	Fri 8/28/09																									
52	Solicit Bids	2.35 mons	Wed 10/28/09	Thu 12/31/09	38																								
53	Award Bids	1 mon	Fri 1/1/10	Thu 1/28/10	52																								
54	<b>Turnkey Design-Build Process for HDD Work</b>	<b>149 days</b>	<b>Mon 7/6/09</b>	<b>Thu 1/28/10</b>																									
55	Pre-Qualify Contractors	2 mons	Mon 7/6/09	Fri 8/28/09																									
56	Solicit Bids	2.35 mons	Wed 10/28/09	Thu 12/31/09	38																								
57	Award Bids	1 mon	Fri 1/1/10	Thu 1/28/10	56																								
58	<b>Construction</b>	<b>371 days</b>	<b>Thu 7/30/09</b>	<b>Thu 12/30/10</b>																									
59	Retain Design Firm to Perform Engineering Services During Construction	5 wks	Thu 7/30/09	Wed 9/2/09																									
60	Construct	12 mons	Fri 1/28/10	Thu 12/30/10	53,57																								
61	<b>Startup and Testing</b>	<b>40 days</b>	<b>Fri 12/31/10</b>	<b>Thu 2/24/11</b>																									
62	Startup	1 mon	Fri 12/31/10	Thu 1/27/11	60																								
63	Testing	1 mon	Fri 1/28/11	Thu 2/24/11	62																								



**Project: WP Design Schedule**  
Date: Wed 12/17/08

<b>Task</b>		<b>Milestone</b>		<b>Rolled Up Task</b>		<b>Rolled Up Baseline</b>		<b>Split</b>		<b>Project Summary</b>	
<b>Progress</b>		<b>Baseline Milestone</b>		<b>Rolled Up Milestone</b>		<b>Rolled Up Baseline Milestone</b>		<b>Baseline Split</b>		<b>Group By Summary</b>	
<b>Baseline</b>		<b>Summary</b>		<b>Baseline Summary</b>		<b>Rolled Up Progress</b>		<b>External Tasks</b>		<b>Deadline</b>	

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## Memorandum

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Date: January 21, 2009  
To: Bruce Buel, General Manager – Nipomo Community Services District  
From: Michael K. Nunley, PE  
Subject: Waterline Intertie Project – Design Phase Status Report

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Distribution: Josh Reynolds, PE  
Cesar Romero, PE  
Peter Sevcik, PE  
Eileen Shields  
Jim Froelicher

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The Project Team has completed the following work items this month:

1. Most of the survey field work and all of the aerial mapping has been completed. Preliminary mapping has been completed for the entire project area, except for the property lines and right-of-way along Oakglen Ave. and Darby Ln. This mapping will be finalized by January 23, 2009.
2. Preliminary layouts of pipelines, pumping facilities, and the reservoir are underway.
3. A draft geotechnical report has been completed for internal review.
4. AECOM met with Golden State Water Company and District staff to plan the hydraulic analysis to address potential supplemental water turnouts for Golden State Water Company and the Woodlands community.
5. AECOM prepared technical comments in response to the City of Santa Maria's draft delivery agreement.

### Schedule

The Project Schedule is attached.

### Budget Status

As shown on the attached Design Budget and Invoice Summary, our fee earned matches the amount expended. This indicates we are on budget as of this date.

Yours Sincerely



Michael K. Nunley, PE

Enclosures: Design Budget and Invoice Summary  
Project Budget Summary  
Project Schedule

AECOM Water

**Project Budget Summary**

1/7/2009

**Engineering Services for NCSD - SWP Design**

**Nipomo CSD**

	<b>Total Budget</b>	<b>Amount Previously Invoiced</b>	<b>Current Invoice Amount</b>	<b>% of Budget Earned to date</b>	<b>% of Work Complete</b>
Task Group 1 - Concept Design Report	\$416,461.00	\$184,123.31	\$60,581.98	59%	59%
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Task Group 6 - Office Engineering During Construction (5 Bid Packages)	\$175,837.00	\$0.00	\$0.00	0%	0%
<b>Total</b>	<b>\$1,066,058.00</b>	<b>\$231,351.03</b>	<b>\$64,684.90</b>	<b>28%</b>	<b>28%</b>

	<b>Amount Previously Invoiced</b>	<b>Current Invoice Amount</b>	<b>Total Permitting Fees to date</b>
Permitting Fees	\$1,572.91	\$0.00	\$1,572.91



Item	Description	Budgeted Amount May 2008 PER	Updated Amount 21-Jan-09
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