

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL *BB*
DATE: AUGUST 21, 2009

AGENDA ITEM
C-1
AUGUST 26, 2009

WIP AND SOUTHLAND UPGRADE PROJECT UPDATE

ITEM

Mike Nunley of AECOM Engineering re Waterline Intertie Project Update and Southland WWTF Upgrade Project [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.

Mr. Nunley is also prepared to discuss the Savings-by-Design Process and the wastewater treatment technology proposed by Bill Mayes of ECOSTAR.

ATTACHMENTS

- July Monthly Reports

T:\BOARD MATTERS\BOARD MEETINGS\BOARD LETTER\BOARD LETTER 2009\090826AECOM.DOC

AECOM
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T 805.542.9840 F 805.542.9990 www.aecom.com

Memorandum

Date: August 14, 2009
To: Bruce Buel, General Manager – Nipomo Community Services District
From: Michael K. Nunley, PE
Subject: Southland WWTF Upgrade Project – Design Phase Status Report

Distribution: Josh Reynolds, PE
Peter Sevcik, PE
Jon Hanlon, PE
Eileen Shields
Jim Froelicher
Kirk Gonzalez, PE

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

1. Fugro performed field geotechnical exploration at the Southland WWTF during the week of July 20th.
2. AECOM has been working with GTA to produce a final base map of existing topography at the WWTF.
3. Supplemental influent monitoring has continued at the plant. Results for June were received.
4. AECOM created a draft sketch of existing plant piping from survey results and as-builts, and met with operations staff on August 7th to review the sketch and investigate areas of question.

Schedule

The Project Schedule is attached. The Design Phase is on schedule.

Budget Status

The Invoice Summary is attached. The Invoice Summary indicates an amount invoiced which is consistent with the work completed to date. The project cost opinion has not been updated since the January 2009 Master Plan, but the summary table is included and will be updated with the 30% design submittal.

Yours Sincerely

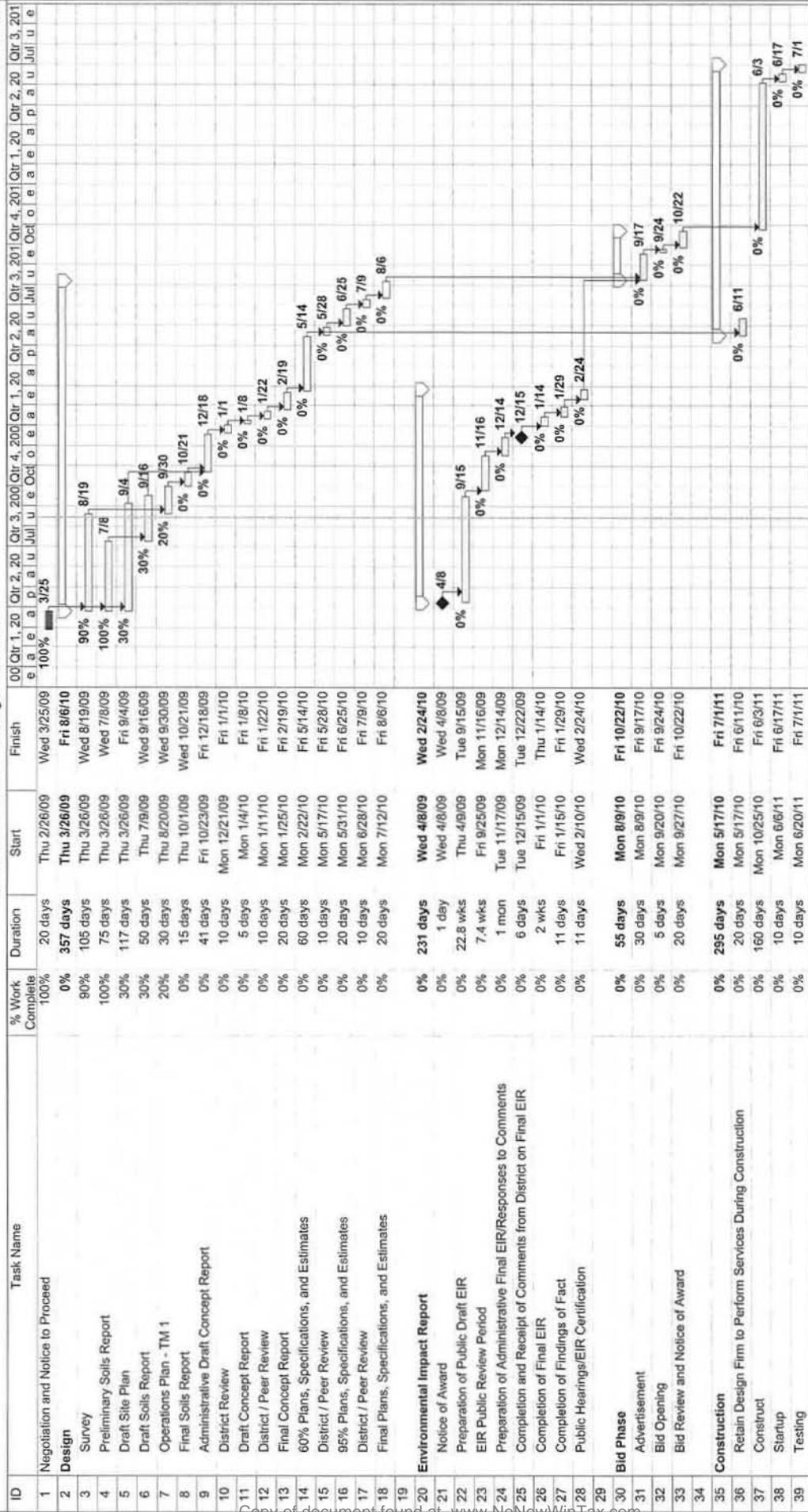


Michael K. Nunley, PE

Enclosures: Project Schedule
Invoice Summary
Project Budget Summary

AECOM Water

Southland WWTF Design Schedule



Project: Southland Design 8 03 09
Date: Fri 8/14/09

Legend:
 Task: Progress (solid bar), Baseline (dashed bar), Milestone (diamond)
 Summary: Summary (thick bar), Rolled Up Task (thin bar), Rolled Up Critical Task (diamond)
 Milestone: Milestone (diamond)
 Rolled Up Milestone: Rolled Up Milestone (diamond)
 Baseline Summary: Baseline Summary (thick bar)
 Rolled Up Baseline: Rolled Up Baseline (thin bar)
 Rolled Up Baseline Milestone: Rolled Up Baseline Milestone (diamond)
 Rolled Up Progress: Rolled Up Progress (solid bar)
 Split: Split (dashed bar)
 Baseline Split: Baseline Split (dashed bar)
 External Tasks: External Tasks (thin bar)
 Project Summary: Project Summary (thick bar)
 Group By Summary: Group By Summary (thick bar)
 Deadline: Deadline (thin bar)

Project Budget Summary

8/14/2009

Engineering Services for NCSD - Southland WWTF Upgrade

Nipomo CSD

	Total Budget	Amount Previously Invoiced	Current Invoice Amount	% of Budget Earned to date	% of Work Complete
Task Group 1 - Concept Design Phase	\$188,622.00	\$34,643.70	\$12,337.65	25%	25%
Task Group 2 - Construction Documents	\$478,948.00	\$0.00	\$0.00	0%	0%
Task Group 3 - Project Management	\$68,787.00	\$7,113.15	\$3,693.60	16%	16%
Task Group 4 - Assistance During Bid	\$39,539.00	\$0.00	\$0.00	0%	0%
Task Group 5 - Office Engineering Services	\$147,198.00	\$0.00	\$0.00	0%	0%
Total	\$923,094.00	\$41,756.85	\$16,031.25	6%	6%

Item	Description	Budgeted Amount Jan 2009 Master Plan	Updated Amount
1	Frontage Road sewer upgrade (street to influent pump station)	\$366,000 (4) (5)	\$366,000
2	Influent pump station upgrade	\$670,900	\$670,900
3	Influent screening system	\$327,400	\$327,400
4	Grit removal system	\$402,700	\$402,700
5	Phase I Biolac system	\$3,877,500	\$3,877,500
6	Phase I Sludge holding lagoons	\$67,700	\$67,700
7	Phase I Sludge drying beds	\$1,160,700	\$1,160,700
	Construction Subtotal	\$6,872,900	\$6,872,900
8	Contingency	\$2,061,870 (6)	\$2,061,870
9	Design-Phase Engineering	\$923,093	\$923,093
10	Construction Management	\$1,138,777 (7)	\$1,138,777
11	Environmental Mitigation	-- (8)	-- (8)
12	Environmental Monitoring	-- (8)	-- (8)
13	Permitting Fees	-- (8)	-- (8)
	PROJECT TOTAL (Rounded to 1000)	\$10,997,000	\$10,997,000

Notes:

- (1) ENR CCI: November 2008 = 8602
- (2) Costs are from the January 2009 Southland WWTF Master Plan.
- (3) Costs are escalated by 4 % per year to anticipated midpoint of construction (2011).
- (4) The Frontage Rd Sewer Upgrade project includes the sewer main from Division St. to the influent pump station. The portion between the street and the influent pump station is currently included in the Southland WWTF Upgrades project scope of work, but may be moved to the Waterline Intertie Project for expedited construction.
- (5) The cost for this portion of Frontage Rd was estimated by prorating the cost opinion for the Frontage Road Sewer Upgrade (based on linear footage) to arrive at the 2008 Construction Cost Opinion. A 4% per year escalation was used to arrive at the 2011 midpoint of construction cost opinion.
- (6) Contingency is estimated at 30% of construction subtotal.
- (7) To be updated by CM Team, assumed to be 30% of construction subtotal minus the engineering fee.
- (8) Costs to be developed with EIR process

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Memorandum

Date: August 14, 2009
 To: Bruce Buel, General Manager – Nipomo Community Services District
 From: Michael K. Nunley, PE
 Subject: Waterline Intertie Project – Design Phase Status Report

Distribution:	Josh Reynolds, PE	Eileen Shields, PE
	Cesar Romero, PE	Jim Froelicher
	Peter Sevcik, PE	Jon Hanlon, PE
	Kirk Gonzalez, PE	

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

1. AECOM is working closely with Padre to complete permit applications and prepare submittals to Army Corps of Engineers and Santa Barbara County Flood Control and Water Conservation District for technical review.
2. AECOM has integrated the District staff's comments into the Draft Narrative Report and delivered 100 copies to the District on August 11th.
3. AECOM submitted the 60% design plans and specifications for Bid Package #2 – Nipomo Area Pipeline Improvements. Copies were delivered to the District, the peer reviewers, and the construction management team.
4. Draft Front-end Specifications for the Project Contract Documents were compiled and submitted to District staff and Attorney for review.
5. A draft Prequalification Package, for the Specialty Contractor Prequalification for Bid Package #1 – Santa Maria River Crossing, was compiled and submitted to the District staff and Attorney for review. AECOM met with District staff and Attorney to discuss on August 14. Comments will be integrated and a revised draft will be resubmitted.


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; and Project Schedule

Waterline Intertie Project

Opinion of Probable Project Costs from Concept Design Report (April 2009)

Table 8.1 – Opinion of Probable Project Costs

Item	Description	Budgeted Amount May 2008 Preliminary Engineering Memo.	Updated Amount 22-Apr-09 Concept Design Report
1	Mobilization	\$580,000	\$607,000
2	Blosser Extension (18-in)	\$1,247,000	\$1,129,000 -
3	Pump Station No. 1 turnout & meter (Blosser Rd)	\$61,000	\$158,000
4	River Crossing (24-in HDD & levee jack & bore)	\$6,135,000	\$5,462,500
5	24-in Pipeline to Joshua	\$656,000	\$400,000
6	Reservoir (0.5-MG)	\$1,361,000	\$1,365,000
7	Pump Station No. 2	\$603,000	\$1,572,500
8	Pressure Regulators (200 homes)	\$30,000	--
9	Pressure Reducing Valve Stations	\$18,000	\$243,000
10	Chloramination (Joshua & 5 wellheads)	\$707,000	\$739,500
11	Upgrade Southland to 12-in	\$799,500 (1)	\$849,000 (7)
12	Upgrade Frontage to 12-in	\$1,101,300 (1)	\$957,000 (7)
13	Upgrade Orchard to 12-in	\$509,000	\$1,103,500 (8)
14	Upgrade Division to 10-in between Allegre and Meridian (6)	\$53,000	--
15	Oakglen Avenue 12-in main (5)	--	\$457,000
16	Darby Lane 12-in main (5)	--	\$153,000
17	HWY 101 Bore & Jack (5)	--	\$241,000
18	Isolation Valves (5)	--	\$12,000
19	Pump Station All Weather Access Road	--	\$128,000
	Construction Subtotal	\$13,860,800	\$15,577,000
20	Contingency	\$3,643,000	\$3,115,400 (10)
	Construction Subtotal + Contingency	\$17,503,800	\$18,692,400
21	Property Allowance	<i>not included</i> (4)	\$500,000 (4)
22	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
	Budget Revision 4 - Additional Survey Services		\$9,900
23	Office Engineering during construction		\$175,837
24	Estimated Construction Management (3)	\$2,428,000 (2)	\$1,507,170 (9)
25	Permitting Fees To Date	--	\$1,573
26	Non-Final Design Funds Spent To Date	<i>not included</i>	\$1,402,879 (11)
27	Estimated Other Costs (Assessment, etc)	<i>not included</i>	\$415,420 (11)
	PROJECT TOTAL (Rounded to 1000)	\$19,932,000	\$23,596,000

Waterline Intertie Project

Opinion of Probable Project Costs from Concept Design Report (April 2009)

Table 8.1 (continued)Table 8.1 Notes:

ENR CCI: March 2008 = 8109; March 2009 = 8534

- (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, construction staking, and environmental monitoring
- (4) Estimate only. Item not included in previous construction cost opinions, but was added to the Concept Design Report to provide a complete assessment of anticipated project costs.
- (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) To be provided by CM team - Has not been revised to reflect additional work for construction management of Oakglen, Darby, and Orchard extensions.
- (10) Contingency was modified to 20% which is more appropriate for 30% design phase.
- (11) Provided by District staff.

not included = Item was not included in previous construction cost opinions, but was added into the Concept Design Report to provide a complete assessment of anticipated project costs.

Project Budget Summary

7/31/2009

Engineering Services for NCSD - SWP Design

Nipomo CSD

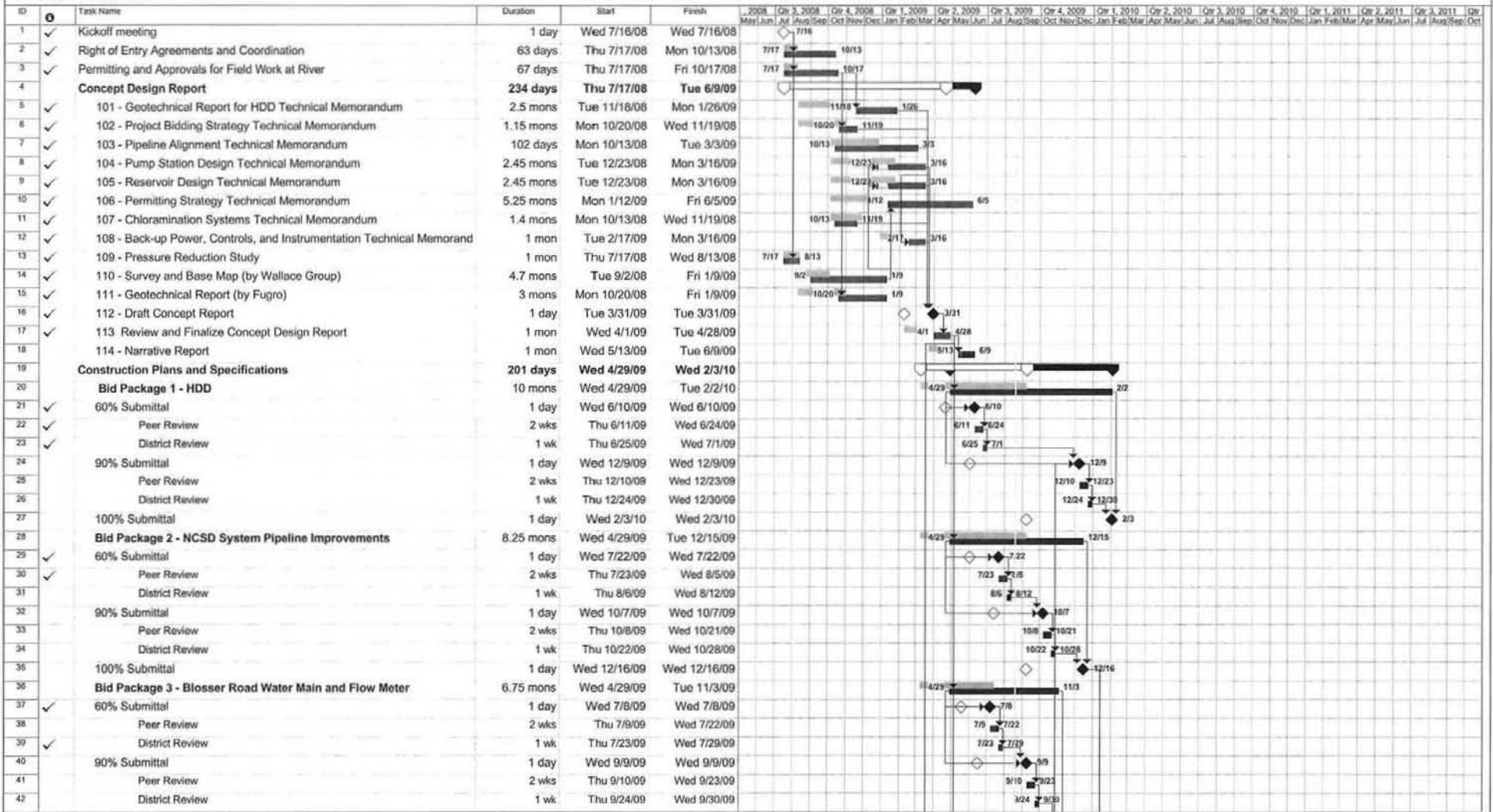
	Total Budget	Amount Previously Invoiced	Current Invoice Amount	% of Budget Earned to date	% of Work Complete
Task Group 1 - Concept Design Report	\$426,361.00	\$426,361.00	\$0.00	100%	100%
Task Group 2 - Permitting	\$30,607.00	\$27,629.82	\$3,680.95	102%	102%
Task Group 3 - Construction Documents	\$350,691.00	\$264,789.20	\$45,979.75	89%	89%
Task Group 4 - Project Management	\$43,520.00	\$35,112.55	\$791.10	82%	82%
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%
Total	\$1,075,958.00	\$753,892.57	\$50,451.80	75%	75%

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

Adjustment of 59.42 on Task 4 due to transfer of charges from Task 4 to Task 3 in May.

Print Date: Wed 8/19/09

NCSW WATERLINE INTERTIE PROJECT - Wed 8/19/09



Project: WIP Design Schedule
Date: Wed 8/19/09



ID	Task Name	Duration	Start	Finish	2008	Qtr 3, 2008	Qtr 4, 2008	Qtr 1, 2009	Qtr 2, 2009	Qtr 3, 2009	Qtr 4, 2009	Qtr 1, 2010	Qtr 2, 2010	Qtr 3, 2010	Qtr 4, 2010	Qtr 1, 2011	Qtr 2, 2011	Qtr 3, 2011	Qtr 4, 2011	
43	100% Submittal	1 day	Wed 11/4/09	Wed 11/4/09																
44	Bid Package 4 - Pump Station, Reservoir, and Chloramination System	9 mons	Wed 4/29/09	Tue 1/5/10																
45	60% Submittal	1 day	Wed 8/19/09	Wed 9/2/09																
46	Peer Review	2 wks	Wed 9/2/09	Wed 9/16/09																
47	District Review	1 wk	Wed 9/16/09	Wed 9/23/09																
48	90% Submittal	1 day	Wed 11/18/09	Wed 11/18/09																
49	Peer Review	2 wks	Thu 11/19/09	Wed 12/2/09																
50	District Review	1 wk	Thu 12/3/09	Wed 12/9/09																
51	100% Submittal	1 day	Wed 1/6/10	Wed 1/6/10																
52	Permitting	198 days	Fri 1/9/09	Tue 10/13/09																
53	End of EIR Public Review Period	1 day	Fri 1/9/09	Fri 1/9/09																
54	Preparation of Administrative Final EIR/Responses to Comments	1.3 mons	Fri 1/9/09	Fri 2/13/09																
55	Receipt of Comments from District on Final EIR	1 day	Fri 2/27/09	Fri 2/27/09																
56	Completion of Final EIR	1 day	Fri 3/20/09	Fri 3/20/09																
57	Completion of Findings of Fact	1 day	Mon 3/23/09	Mon 3/23/09																
58	Public Hearings/EIR Certification	1.5 mons	Mon 3/23/09	Fri 5/1/09																
59	Complete and submit permit applications	30 days	Wed 4/1/09	Tue 5/12/09																
60	Coordinate with regulatory agencies	90 days	Wed 5/13/09	Tue 9/15/09																
61	Acquire permits and incorporate in final design plans	20 days	Wed 9/16/09	Tue 10/13/09																
62	Financing	196 days	Fri 10/30/09	Fri 7/30/10																
63	Completion of Preliminary Assessment Engineer's Report	1 day	Fri 10/30/09	Fri 10/30/09																
64	Hearings for Property Owners who request alternate Assessment	25 days	Mon 11/30/09	Fri 1/1/10																
65	Final Assessment Report	30 days	Mon 1/4/10	Fri 2/12/10																
66	Adoption of Preliminary Bond Resolutions	30 days	Mon 2/15/10	Fri 3/26/10																
67	Ballots mailed and counted	45 days	Mon 3/29/10	Fri 5/28/10																
68	Adoption of Resolutions and Sale of Bonds	45 days	Mon 5/31/10	Fri 7/30/10																
69	Standard Bid-Construct Process for Underground/Storage Work	143 days	Thu 1/14/10	Mon 8/2/10																
70	Solicit Bids	2.35 mons	Thu 1/14/10	Fri 3/19/10																
71	Bid Package 3	5 wks	Thu 1/14/10	Wed 2/17/10																
72	Bid Package 2	5 wks	Thu 1/28/10	Wed 3/3/10																
73	Bid Package 4	6 wks	Thu 2/11/10	Wed 3/24/10																
74	Award Bids	1 day	Mon 8/2/10	Mon 8/2/10																
75	Turnkey Design-Build Process for HDD Work	189 days	Wed 11/11/09	Mon 8/2/10																
76	Pre-Qualify Contractors	8 wks	Wed 11/11/09	Tue 1/5/10																
77	Solicit Bids	8 wks	Wed 3/3/10	Tue 4/27/10																
78	Award Bids	1 day	Mon 8/2/10	Mon 8/2/10																
79	Construction	448 days	Thu 10/15/09	Mon 7/4/11																
80	Retain Design Firm to Perform Engineering Services During Construction	5 wks	Thu 10/15/09	Wed 11/18/09																
81	Construct	12 mons	Tue 8/3/10	Mon 7/4/11																
82	Startup and Testing	40 days	Tue 7/5/11	Mon 8/29/11																
83	Startup	1 mon	Tue 7/5/11	Mon 8/1/11																
84	Testing	1 mon	Tue 8/2/11	Mon 8/29/11																

Project: WIP Design Schedule Date: Wed 8/19/09	Task		Milestone		Rolled Up Task		Split		Project Summary	
	Progress		Baseline Milestone		Rolled Up Milestone		Baseline Split		Group By Summary	
	Baseline		Summary		Baseline Summary		External Tasks		Deadline	

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL *BBB*
DATE: AUGUST 21, 2009

AGENDA ITEM
C-2
AUGUST 26, 2009

SUPERINTENDENT UPDATES

ITEM

NCSD District Superintendent Tina Grietens re July 2009 Utility Division Activities [NO ACTION REQUESTED].

BACKGROUND

Tina Grietens is scheduled to summarize the attached outline.

RECOMMENDATION

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

ATTACHMENTS

- July 2009 Outline

T:\BOARD MATTERS\BOARD MEETINGS\BOARD LETTER\BOARD LETTER 2009\090826Super.DOC

NIPOMO COMMUNITY



SERVICES DISTRICT

BOARD MEMBERS

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(805) 929-1133 FAX (805) 929-1932 Website address: NCSD.CA.GOV

TO: BRUCE BUEL, GENERAL MANAGER

FROM: TINA GRIETENS, UTILITY SUPERINTENDENT

DATE: AUGUST 18, 2009

SUBJECT: UTILITY DIVISION UPDATE FOR JULY 2009

- **Southland Wastewater Plant and Utility Yard**
 - Setup of EOC Facility in progress
 - Ripping and diking of Southland WWTP percolation ponds completed July 10
 - Biosolids removal and disposal project began July 1
 - Assisted Aecom with data collection for expansion, added T. Phosphate to list of constituents analyzed
 - Facilitated meeting with archaeologist and Doug Wood for EIR preparation for effluent disposal
 - Boring at Southland by Fugro for geotechnical data needed for expansion
- **Collection system**
 - Requested assistance from PG&E to troubleshoot electrical problem at Juniper lift station
 - Working with Cannon on Scada communication at Maria Vista Lift Station
 - Inspecting manholes for future repair
- **Distribution System**
 - Increased security at Standpipe
 - Potholing on Orchard, Southland, Frontage and Oak Glen for WIP
 - Replaced meters at the Nipomo Park and Brassica Nursery
 - Replaced damaged concrete water valve collars at Tefft/Mary intersection
 - Installed meters at Roosevelt Apartments
- **Maintenance**
 - Annual certification and maintenance performed on Autocrane
 - Weed abatement continues
 - Air-vacs replaced, hydrant painting, numbering, blue reflectors placed for hydrant location
 - Preventive maintenance plan implementation continues, updating forms
 - Cleaned NCSD retention pond near Swap Meet
- **Compliance**
 - Lead and copper monitoring program sampling
 - Monitored laboratory results, prepared compliance reports for WWTPs
 - Registered diesel tractors with APCD per new regulations
- **Other**
 - Working on proposals for budget items