

# NIPOMO COMMUNITY SERVICES DISTRICT

TUESDAY, September 7, 2010

2:00 P. M.

## **SPECIAL MEETING NOTICE & AGENDA** **SOUTHLAND WWTF UPGRADE PROJECT COMMITTEE**

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### COMMITTEE MEMBERS

MICHAEL WINN, CHAIR  
JAMES HARRISON, MEMBER

### PRINCIPAL STAFF

DON SPAGNOLO, GENERAL MANAGER  
LISA BOGNUDA, ASSIST. GENERAL MANAGER  
JON SEITZ, GENERAL COUNSEL  
PETER SEVCIK, DISTRICT ENGINEER

### MEETING LOCATION

District Board Room  
148 S. Wilson Street  
Nipomo, California

1. **CALL TO ORDER, ROLL CALL & FLAG SALUTE**
2. **REVIEW STATUS OF SOUTHLAND WWTF UPGRADE PROJECT**  
ACTION RECOMMENDED: Receive Report
3. **REVIEW AECOM SOUTHLAND WWTF UPGRADE PROJECT BUDGET REVISION REQUEST**  
ACTION RECOMMENDED: Forward Recommendation to the Board
4. **SET NEXT COMMITTEE MEETING**  
ACTION RECOMMENDED: Set Time/Date for Next Committee Meeting
5. **ADJOURN**

*\*\*\* End Special Meeting Notice \*\*\**

TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER



DATE: SEPTEMBER 2, 2010

## AGENDA ITEM

# 2

SEPTEMBER 7, 2010

### REVIEW STATUS OF SOUTHLAND WWTF UPGRADE PROJECT

#### ITEM

Review status of Southland WWTF Upgrade Project [Receive Report].

#### BACKGROUND

Attached is the latest Monthly Design Status Report from AECOM. Mike Nunley, AECOM, is scheduled to present the report to the Committee and answer questions. AECOM has submitted a budget revision request for the final design for the District's consideration. See Agenda Item 3.

One significant development during the last month impacted the projected start of construction bid date for the project. Staff and AECOM met with Regional Water Quality Control Board (RWQCB) staff to discuss the upgrade project and permitting requirements. RWQCB staff agreed to begin the permitting process once the draft EIR is circulated, before the EIR is certified. The final Waste Discharge Requirements would still need to be approved after the EIR is certified. However, by beginning the permitting process earlier, the projected start of construction has been moved up from the October 27, 2011 date reported last month to September 8, 2011.

Doug Wood and Associates (DWA) is proceeding with preparation of the Draft Environmental Impact Report. AECOM's schedule includes the updated EIR schedule.

It should be noted that the Board has already funded the proposed Phase 1 project and the District already owns the land for construction for the Phase 1 project.

#### RECOMMENDATION

Staff recommends that the Committee receive AECOM's presentation and ask questions as appropriate.

#### ATTACHMENT

- MONTHLY STATUS REPORT

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## Memorandum

To	Don Spagnolo, PE, General Manager - NCSD	Page	1
CC	Peter Sevcik, Jon Hanlon, Eileen Shields		
Subject	Southland WWTF Phase 1 Improvements – Design Phase Status Report		
From	Michael K. Nunley, PE		
Date	September 1, 2010		

The Project Team has completed the following items this month:

1. AECOM finalized the Master Plan Amendment and provided copies to the District.
2. AECOM received comments from District staff on the administrative draft Concept Design Report and discussed them with the District engineer.
3. District staff and AECOM met with Regional Water Quality Control Board (RWQCB) staff to discuss concerns regarding effluent quality, provide a project status update, and discuss permitting requirements. RWQCB staff agreed to begin the permitting process before EIR certification, allowing an earlier projected start of construction. Waste Discharge Requirements, however, will not be approved until after EIR certification.
4. AECOM prepared Scope Amendment #3 for the District's consideration.

### Schedule

The Project Schedule is attached. A baseline was set at the August 4, 2010, the last submitted schedule, based on the District's request. The schedule has been updated to reflect changes per Scope Amendment #3 and discussions with RWQCB regarding permitting.

### 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 been updated based on the WWTF Master Plan Amendment.

Yours Sincerely

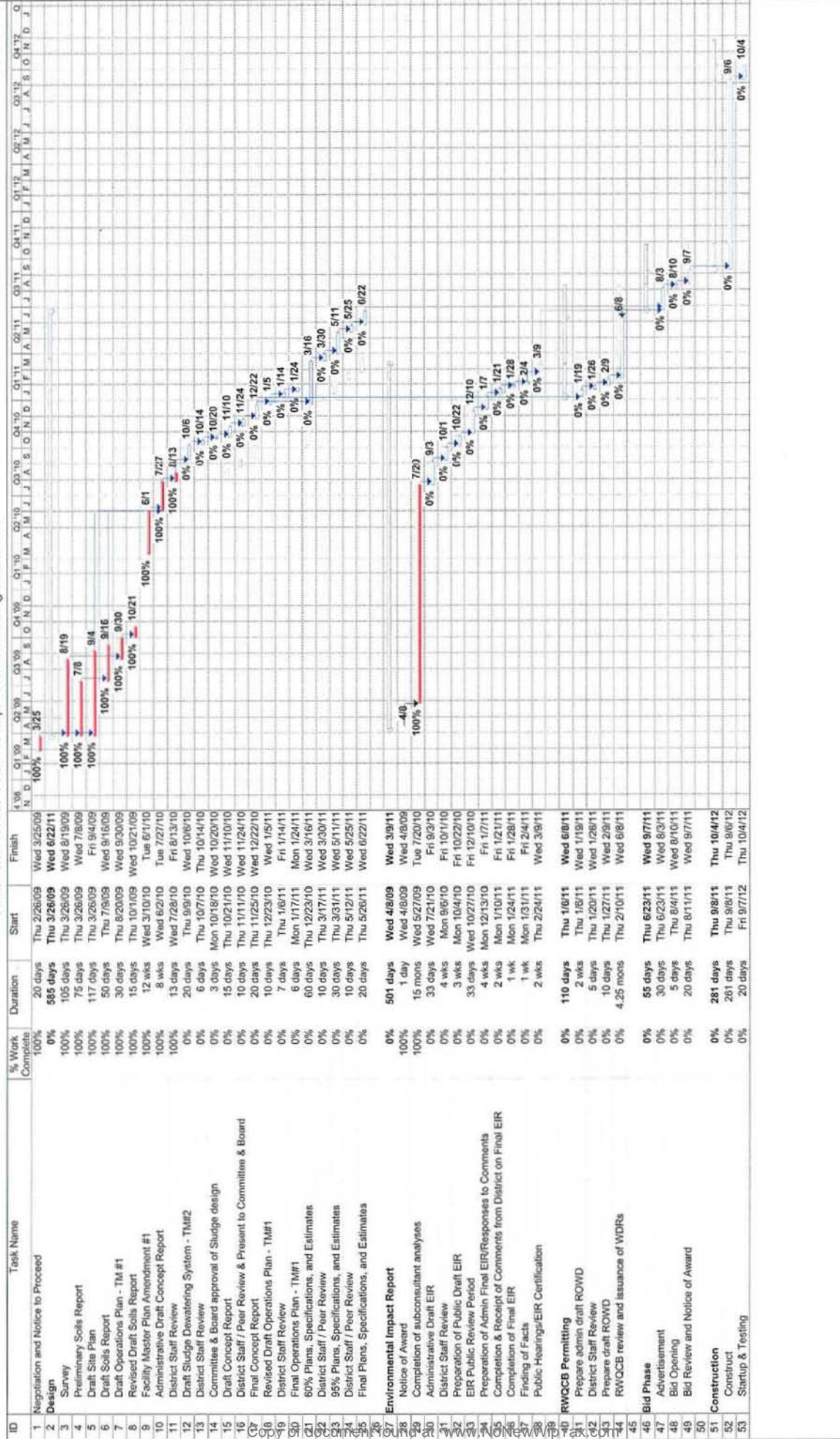


Michael K. Nunley, PE

Enclosures: Project Schedule  
Invoice Summary  
Project Budget Summary

# Southland WWTF Phase 1 Improvements Design Schedule

Tue 8/31/10



Task Progress Bar

Task: Southland Design 8.03.09

Date: Tue 8/31/10

Milestone Summary

Baseline Milestone

Summary

Roll Up Critical Task

Roll Up Milestone

Roll Up Baseline

Roll Up Baseline Milestone

Split

Baseline Split

External Task

Group By Summary

Deadline

Page 1

**Project Budget Summary**

8/27/2010

**Engineering Services for NCSD - Southland WWTF Upgrade**

**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 Phase	\$195,123.00	\$175,393.21	\$11,397.51	96%	96%
Task Group 2 - Construction Documents	\$478,948.00	\$20,843.73	\$0.00	4%	4%
Task Group 3 - Project Management	\$68,787.00	\$35,248.50	\$14,247.90	72%	72%
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%
Task Group 6 - Amendment 1 Facility MP	\$37,020.00	\$37,020.00	\$0.00	100%	100%
<b>Total</b>	<b>\$966,615.00</b>	<b>\$268,505.44</b>	<b>\$25,645.41</b>	<b>30%</b>	<b>30%</b>

Date Printed 9/1/2010

Item	Description	Budgeted Amount		Updated Amount	
		Jan 2009 Master Plan	(1)(2)(3)	2010 MP Amendment	(9)(10)
1	Frontage Road sewer upgrade (street to influent pump station)	\$366,000	(4)(5)	--	(11)
2	Influent pump station upgrade	\$670,900		\$571,600	
3	Influent screening system	\$327,400		\$371,600	
4	Grit removal system	\$402,700		\$284,100	(12)
5	Phase I Extended Aeration + Secondary Clarifiers	\$3,877,500		\$3,671,300	
6	Phase I Sludge digesters	\$67,700		\$166,300	(13)
7	Phase I Sludge drying beds	\$1,160,700		\$992,300	
8	Controls and Blower Building			\$232,600	(14)
9	Non-Potable Plant Water System			\$191,200	(14)
10	Site Piping			\$642,000	(15)
	<b>Construction Subtotal</b>	<b>\$6,872,900</b>		<b>\$7,123,000</b>	
11	Contingency	\$2,061,870	(6)	\$1,780,750	(16)
12	Design-Phase Engineering	\$923,093		\$966,615	
13	Construction Management	\$1,138,777	(7)	\$1,095,255	(7)
14	Environmental Mitigation	--	(8)	--	(8)
15	Environmental Monitoring	--	(8)	--	(8)
16	Permitting Fees	--	(8)	--	(8)
	<b>WWTF PROJECT TOTAL (Rounded to 1000)</b>	<b>\$10,997,000</b>		<b>\$10,966,000</b>	

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 (assumed January 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 Jan 2009 MP construction subtotal minus the engineering fee.
- (8) Costs to be developed with EIR process
- (9) ENR CCI: April 2010 = 8677
- (10) Costs are from the August 2010 Southland WWTF Master Plan Amendment #1.
- (11) The Frontage Road Sewer Upgrade Project has been developed separately.
- (12) One of two grit removal systems is required for Phases 1 and 2. A second grit removal system is budgeted for Phase 3.
- (13) The design recommendations changed from sludge holding lagoons to digesters in the MP Amendment to provide a reduction in the amount of dry sludge hauled. Earthen berms were added to provide operational flexibility.
- (14) Line item has been added since the January 2009 Master Plan.
- (15) Site piping was moved to its own line item for accuracy in developing the cost opinion.
- (16) Contingency is estimated at 25% of construction subtotal.

TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER 

DATE: SEPTEMBER 2, 2010

## AGENDA ITEM

# 3

SEPTEMBER 7, 2010

### AECOM CONTRACT AMENDMENT FOR SOUTHLAND WWTF PHASE 1 IMPROVEMENT PROJECT ENGINEERING DESIGN

#### ITEM

Discuss AECOM contract amendment request for Southland WWTF Phase 1 Improvement project. [Forward Recommendation to Board].

#### BACKGROUND

At the July 28, 2010 Board meeting, the Board considered and approved Master Plan Amendment #1 to the Master Plan for the Southland Wastewater Treatment Facility (WWTF). The amendment provides a revised layout, phasing plan, and updated project costs for improvements at the facility. AECOM is proceeding with the development of the concept design report and ultimately final design of the project.

AECOM has identified a number of issues that need to be addressed as part of the design effort that have yet to be performed and that are not within the current approved scope of the work. The work can be categorized as follows:

1. Design changes based on the revised Master Plan concept design as well as unanticipated existing conditions
2. Additional RWQCB Permitting Requirements
3. Additional Project Management due to the extended project schedule
4. Revision of previous Technical Memorandum 1 to address operation of the existing facility during construction of the new plant based on the revised Master Plan concept design

In addition, AECOM is still refining the sludge handling facilities. AECOM proposes investigating the use of a sludge thickener in place of the aerated sludge digesters previously proposed in response to staff's concerns related to the aerated sludge digesters. The advantages to the District would be that the sludge handling would be less labor intensive on day-to-day operations, electricity requirements to operate the plant would be reduced, and hauling costs would be reduced as a result of thicker sludge being delivered to the drying beds. AECOM has indicated that the construction cost of the sludge thickener would be offset by the elimination of the decant pump station at the sludge drying beds since the decant station would not be required under this scenario.

AECOM has provided the attached Scope Amendment #3 that details all of the required work tasks and their associated costs. As set forth in the attached proposal, AECOM is willing to perform this work on a time-and-materials basis with a not-to-exceed expenditure limit of \$194,102.

**RECOMMENDATION**

Staff recommends that the Committee receive AECOM's presentation, ask questions as appropriate and submit a recommendation to the Board to approve AECOM's amendment to the Southland WWTF Phase 1 Improvement Project Design Agreement in the amount of \$194,102 for additional services required to complete the design.

**ATTACHMENT**

- AECOM Budget Revision Request Dated September 1, 2010

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AECOM  
1194 Pacific Street  
Suite 204  
San Luis Obispo CA 93401  
www.aecom.com

805 542 9840 tel  
805 542 9990 fax

September 1, 2010

Mr. Don Spagnolo, PE  
General Manager  
Nipomo Community Services District  
PO Box 326  
Nipomo, CA 93444

Dear Don,

### **Southland WWTF Upgrade Project - Scope Amendment #3**

The Scope Amendment described herein includes work that has not yet been performed, but is recommended or required due to changes in the project. The following categories of work are addressed below:

1. Design changes;
2. Additional permitting requirements from Regional Water Quality Control Board (RWQCB);
3. Additional Project Management Services due to schedule changes; and
4. Revision to previous Technical Memorandum 1 to address operation of existing facility during construction of the new plant.

A detailed description of each of these work categories is provided below. The previously-submitted administrative draft Concept Design Report includes a cost opinion that already addresses construction of these items, as requested by District staff.

The sludge thickening system is the only additional item not addressed in that cost opinion, and at this time we anticipate the construction cost for that item can be mitigated. If thickened sludge is conveyed to the drying beds, the decanting pump station and piping system will no longer be required. This was estimated at a construction cost of \$400,000, and it is our opinion this is an adequate budget for the thickening system. In addition, the use of the sludge thickener will reduce sludge hauling and disposal costs by allowing the drying beds to dry sludge to a higher percentage solids much more quickly. Automation of sludge transfer provided by the thickener and sludge pumps will reduce operator time requirements, saving cost. The power requirement will be considerably less for the thickener than for the aerated sludge digestion system previously proposed in the administrative draft Concept Design Report, also resulting in lower operation cost.

### **Description of Additional Work Items**

1. Design Changes

The Nipomo Community Services District (District) Southland Wastewater Treatment Facility (WWTF) Upgrade Project consists of the Phase 1 WWTF Improvements as described by the original Southland WWTF Master Plan (January 2009) and Amendment #1 (August 2010). The Amendment presented a new site plan, which was developed to address updated influent flow and loading data. The study provided recommendations for a revised, three-phase project, including additional components not previously identified. District staff also requested a new control building and a nonpotable water system with disinfection, as well as a more compact plant layout to improve operability. These facilities were included in the study.

In July 2010, AECOM submitted the Administrative Draft Concept Design Report. Feedback and discussions with District staff identified staff concerns regarding the aerated sludge digesters and proposed operations. The primary concern was transfer of sludge into and out from the digesters without constructing an expensive pumping facility.

As a result of these changes, this scope amendment addresses integration of the following items into the Draft Concept Design Report and subsequent design:

- Improved sludge handling facilities – As discussed above, AECOM is investigating the use of a sludge thickener in place of the aerated sludge digesters previously proposed. Advantages include less intensive day-to-day operations, reduced electricity requirements, and greatly reduced hauling costs as a result of thicker sludge delivered to drying beds.
- Non-potable water pump system – Process water is required at the plant for spraydown and use in various processes. The estimated water requirements for Phase 3 are 100,000 gallons-per-day. A non-potable water pump system will allow the District to reuse treated wastewater, which will save water costs and protect the groundwater basin.
- Controls & blower building - The original scope of work assumed that the existing blower building would be modified for use with the new blowers. Examination of the building and preliminary pipe sizes revealed that significant modifications to the existing building would be required. Design revisions approved per Master Plan Amendment #1 included site changes for the secondary clarifiers and aeration basins, mandating the need for a new building located across the site from the existing blower building.
- Site piping – The original scope assumed some of the existing site piping would be usable. However, development of the design-level hydraulic profile has revealed that larger pipelines will be required to prevent significant changes to the percolation pond elevations.

## 2. Additional RWQCB Permitting Requirements

The original scope assumed that this project would require an amendment to the existing Waste Discharge Requirements, since the Phase 1 flow rates do not increase the current permitted discharge. However, meetings with permitting staff from the Central Coast Regional Water Quality Control Board (RWQCB) have revealed that the District must submit a Report of Waste Discharge (RWD). The RWD will request new Waste Discharge Requirements (WDRs) to reflect a significant upgrade to treatment process at the Southland WWTF. The new WDRs will also include a summary and schedule for Phase 2 and Phase 3 improvements, as well as development of offsite percolation or reuse opportunities to meet the projected Phase 3 flow of 1.67 MGD.

## 3. Additional Project Management Services

The original contract had an estimated schedule of 12 months for design and bid phase. The current project schedule (draft August 25, 2010) estimates 28 months, a difference of 16 months. AECOM requests augmentation of the Project Management budget to fund additional project status meetings, reports, and coordination with District staff and other Project Team members.

## 4. Revision to Technical Memorandum #1

On September 30, 2009, AECOM submitted draft TM#1 for District review and comment. Draft TM#1 provides a plan for continuous operations of the WWTF during construction of the improvements. Our original scope included time for meetings, the draft TM#1, and a final document after receipt of District comments. However, the project team, including District staff, determined that TM#1 should be finalized after completion of the Concept Design Report (CDR) in order to adequately capture the



design. To finalize TM#1, and incorporate the significant design changes that have occurred between September and the final CDR, we anticipate an additional submittal will be required for District review and comment.

### **Scope of Work**

The Scope of Work below describes changes to the original task groups from the contract and approved amendments.

#### **Task Group 1. Draft Concept Design Report**

##### **Task 103A. Revised Technical Memorandum #1 Permitting & Operations during Construction (TM#1)**

The proposed budget for this task includes preparation and submittal of draft final TM#1 and one meeting with District staff to discuss comments. Preparation and submittal of final TM#1 will occur after receipt of District staff comments. Four hard copies will be delivered with each submittal, and one electronic file, as pdf, will be provided with the final submittal.

**Task 104A. Investigate Alternative Sludge Handling Processes** – Feedback from District staff on the Master Plan Amendment and administrative draft Concept Design Report included concerns regarding operation of the aerated sludge digesters. Based on conversations with District staff, AECOM began a preliminary investigation into design modifications and alternatives to the aerated sludge digesters to ease operations. The preliminary investigation included collection of estimated sludge production and sludge waste calculations and development of preliminary alternative designs to evaluate feasibility and cost-effectiveness of an alternative sludge handling approach. Through this investigation and internal review of the administrative draft Concept Design Report, AECOM has identified mechanical dewatering systems that will allow the District to dry the sludge to a greater extent before hauling, reducing hauling costs. Additional investigation will be required to adequately evaluate the design alternatives.

**Task 104B. Technical Memorandum #2 Sludge Dewatering System (TM#2)** – After AECOM has identified feasible design alternatives to the sludge digesters, information will be collected to provide comparison against the existing design, including identification of required equipment, the basic operations requirements, and a construction cost opinion.

AECOM will summarize the findings and provide recommendations in Draft TM#2 for the District's review and comment. The budget for this task assumes that we will meet with staff at a regularly scheduled status meeting to discuss comments on the draft. Comments will be addressed and integrated into Final TM#2. Four hard copies and one electronic copy, as a PDF, will be delivered to the District. AECOM will present the findings and recommendations to the Southland WWTF Upgrade Project Committee and to the Board of Directors, and request direction from the Board regarding the recommendations and potential design change.

**Task 104C. Sludge Dewatering System Concept Design** – Assuming recommendations from TM#2 and direction from the Board support installation of a sludge dewatering system, AECOM will provide a concept design for mechanical dewatering of the sludge. The concept design will address items including preliminary layout and section views, description of required equipment, including polymer feed requirements as applicable, operations and controls discussion, and an opinion of probable construction cost and annual operations and maintenance cost. The design will be integrated into Draft Concept Design Report for the District's review and comment.

AECOM will only proceed with this task after notice from the Board based on Task 104B.

Task 104D. Non-Potable Water (NPW) System Concept Design – The WWTF currently utilizes potable water for plant water at various locations, including hose bibs at the lift station and grinder pumps, near the aerated ponds, and the blower building, and for an emergency eyewash station near the blower building. The WWTF improvements will require a regular supply of water for various equipment processes and washdown. While potable water will still be required for the emergency eyewash station, non-potable water collected from the treated effluent could be utilized for the majority of the process water. Furthermore, treated effluent could be used for landscape irrigation around the site. The proposed work for this task is based on discussions with District staff.

AECOM will integrate the preliminary design of an NPW system into the Draft Concept Design Report. The design will include a pumping station to collect treated effluent, a hydropneumatic tank to reduce pump run times, a sodium hypochlorite storage and dosing system, and site piping.

Task 104E. Controls & Blower Building Concept Design – AECOM will integrate the preliminary design of the controls and blower building in the the Draft Concept Design Report. It will include preliminary layout, section, and floor plan for the building and preliminary HVAC requirements.

Task 105. Narrative Report – The original scope included time and budget for a narrative report, describing the proposed project based on the Final Concept Design Report. District staff has indicated that a project narrative is not needed at this time. We have included a credit for this task in this scope amendment, as shown in the attached table.

#### Task Group 2. Construction Documents

The scope for this task group has been revised considering the amended design presented in Master Plan Amendment #1, results from the preliminary concept design process and discussions with District staff as mentioned above. Changes include provisions for the following items:

- Non-potable water system
- Controls and blower building
- Sludge dewatering system
- Upgraded site piping – plan and profiles

AECOM will prepare bid documents in the District's standard format, including contract documents and technical specifications. A preliminary list of construction drawings is included with this Scope Amendment.

#### Task Group 3. Project Management

Tasks 301 through 310 – Project management tasks, such as monthly progress reports and meetings with District staff, the Committee, and the Board of Directors, have been updated to reflect the latest schedule. Staff allocation has also been updated based on existing project needs.

Task 311. Review of Draft EIR documentation – Time was added to review and comment on the draft Environmental Impact Report documents to ensure the project description is correct and that the District understands and incorporates potential mitigation measures in the construction plans.



#### Task Group 4. Assistance during Bid

Once design is complete, the scope for this Task Group will be reviewed. We have no proposed changes to this task group at this time.

#### Task Group 5. Office Engineering Services

Once design is complete, the scope for this Task Group will be reviewed. We have no proposed changes to this task group at this time.

#### Task Group 6. Master Plan Amendment

Master Plan Amendment #1 was completed in August 2010 on time and within budget. We have no proposed changes to this task group.

#### Task Group 7. Waste Discharge Report

The scope of services for this Task Group describes the work needed to prepare a Report of Waste Discharge (RWD) and obtain approval by the RWQCB. AECOM will conduct work tasks as outlined below to prepare an RWD for submission to the RWQCB by the District. This RWD will serve as the application for waste discharge requirements for a new treatment facility and effluent disposal facilities.

The work tasks to prepare a complete RWD may change based on RWQCB comments or requests for additional information. Outlined below are the work tasks that are presently deemed necessary to prepare this technical report.

701. Attend a preliminary meeting with the RWQCB to discuss this project in concept and the information needs for the RWD.
702. Collect, evaluate, and summarize historical data from the WWTF such as wastewater flows and characteristics (from draft Concept Design Report and Southland WWTF Master Plan Amendment #1).
703. Prepare an administrative draft RWD. Submit four copies to the District. It is anticipated that the draft will address the following:
  - a. Description of existing facility, flows, loadings, and discharges
  - b. Summary of the proposed phased treatment processes and design parameters (from draft Concept Design Report and Southland WWTF Master Plan Amendment #1)
  - c. Description of the District's previous, ongoing, and planned efforts to develop a wastewater disposal/reuse strategy to meet buildout demands, including summary of potential future disposal and reuse practices
  - d. The progress in meeting CEQA requirements for the project.

704. Meet and discuss the overall findings, conclusions, and recommendations in the RWD with the District's staff.
705. Prepare a draft RWD incorporating all review comments received from the administrative draft. Four copies will be delivered to the District and one to the RWQCB for their review, and comment.
706. Meet with RWQCB staff to discuss their review comments on the draft RWD.
707. Prepare final RWD incorporating the RWQCB review comments on the draft RWD. Four copies will be delivered to the District and one to the RWQCB for permit processing.

**Budget**

Our fee and charges will be invoiced on a time and materials basis, with a budget not to exceed \$194,102 as detailed above and in the attached table, unless additional authorization is requested in writing. This brings the total not-to-exceed budget from \$966,615.28 to \$1,160,717.28. The current fee schedule, attached, was used as the basis for this budget.

**Schedule**

The attached project schedule reflects changes required for the scope amendment. The design schedule has extended. However, the overall project schedule has been reduced by 7 weeks. A meeting between District staff, AECOM, and RWQCB staff resulted in coordination to begin the permitting process early. Updated WDRs will not be approved until after certification of the project EIR. RWQCB staff has agreed to prepare draft WDRs based on the draft RWD and CEQA documents.

Sincerely,

  
\_\_\_\_\_  
Michael K. Nynley, PE  
Project Manager

  
\_\_\_\_\_  
John Hanlon, PE  
Managing Engineer

Enclosures: Budget for Scope Amendment #3  
2010 Fee Schedule  
Preliminary List of Construction Drawings  
Updated Project Schedule

## Project Budget

Southland WWTF Upgrade Project  
Scope Amendment #3

Nipomo Community Services District

Task Description	Personnel Hours								Budget			
	Principal	Senior Engineer II	Senior Engineer I	Associate Engineer	Assistant Engineer	Senior CADD Operator	Drafter	Clerical	Total Hours	Labor	Non-Labor Fee	Total
<b>Task Group 1 - Concept Design Phase</b>												
Task 103A. Draft Final TM#1 (after Concept Design Report)	8	10		22		8		2	50	\$ 6,934	\$ 555	\$ 7,489
Task 104A. Investigation of feasible sludge dewatering alternatives	2	4		14					20	\$ 2,790	\$ 223	\$ 3,013
Task 104B. Sludge dewatering system technical memo (draft and final)	10	25		38		20		6	99	\$ 13,282	\$ 1,063	\$ 14,345
Task 104C. Sludge dewatering system concept design	8	16		22		22		2	70	\$ 9,364	\$ 749	\$ 10,113
Task 104D. Non-potable water system concept design	8	16		22		22		2	70	\$ 9,364	\$ 749	\$ 10,113
Task 104E. Controls and blower building concept design	8	16		22		22		2	70	\$ 9,364	\$ 749	\$ 10,113
Task 105. Narrative Report - CREDIT	(16)	(8)			(16)		(10)	(4)	(54)	\$ (7,528)	\$ (602)	\$ (8,130)
<b>Subtotal</b>	<b>28</b>	<b>79</b>	<b>-</b>	<b>140</b>	<b>(16)</b>	<b>94</b>	<b>(10)</b>	<b>10</b>	<b>325</b>	<b>\$ 43,570</b>	<b>\$ 3,486</b>	<b>\$ 47,056</b>
<b>Task Group 2 - Construction Documents</b>												
Original Budget (95 sheets) - CREDIT	(315)	(664)	(206)	(396)	(431)	(518)	(873)	(80)	(3,483)	\$ (443,470)	\$ (35,478)	\$ (478,948)
Civil Plans (60 Sheets) & Specifications	118	156	120	167	266	306	249	40	1,422	\$ 176,005	\$ 14,080	\$ 190,085
Structural Plans (36 Sheets) & Specifications	124	197	132		228	351	372	18	1,422	\$ 175,855	\$ 14,068	\$ 189,923
Mechanical Plans (5 sheets)	4	60				64		8	136	\$ 17,696	\$ 1,416	\$ 19,112
Electrical Plans (26 Sheets) & Specifications	114	315			190		253	20	892	\$ 120,840	\$ 9,667	\$ 130,507
Instrumentation & Control Plans (12 Sheets) & Specifications	10		116	62			79		267	\$ 34,470	\$ 2,758	\$ 37,228
<b>Subtotal</b>	<b>55</b>	<b>64</b>	<b>162</b>	<b>(167)</b>	<b>253</b>	<b>203</b>	<b>80</b>	<b>6</b>	<b>656</b>	<b>\$ 81,396</b>	<b>\$ 6,512</b>	<b>\$ 87,908</b>
<b>Task Group 3 - Project Management</b>												
Credit for original budget	(146)	(112)			(84)	(52)		(26)	(420)	\$ (63,692)	\$ (5,095)	\$ (68,787)
Task 301. Kickoff Meeting	8	8			4				20	\$ 3,320	\$ 266	\$ 3,586
Task 302. Monthly Progress Reports	28							12	40	\$ 6,464	\$ 517	\$ 6,981
Task 303. Decision Log	12							8	20	\$ 2,976	\$ 238	\$ 3,214
Task 304. Meetings with District staff	28			28					56	\$ 9,100	\$ 728	\$ 9,828
Task 305A. Monthly Wastewater Committee Meetings	56			56					112	\$ 18,200	\$ 1,456	\$ 19,656
Task 305B. Monthly Board Meetings	28			28					56	\$ 9,100	\$ 728	\$ 9,828
Task 305C. Public Forums / Workshops (2)	14	16		12		4			46	\$ 7,280	\$ 582	\$ 7,862
Task 305D. Southland Operators Workshops (2)	8	8		8		4		6	34	\$ 4,732	\$ 379	\$ 5,111
Task 306. RWQCB Interaction, Planning (2 meetings), and Correspondence	20	4		16					40	\$ 6,640	\$ 531	\$ 7,171
Task 307. Miscellaneous Exhibits		4		4		36			44	\$ 4,920	\$ 394	\$ 5,314
Task 308. Funding Assistance	12	8							20	\$ 3,680	\$ 294	\$ 3,974
Task 309. Final Design Constructability (2 workshops)	12	16		8		8			44	\$ 6,800	\$ 544	\$ 7,344

## Project Budget

Southland WWTF Upgrade Project  
Scope Amendment #3

Nipomo Community Services District

Task Description	Personnel Hours								Budget			
	Principal	Senior Engineer II	Senior Engineer I	Associate Engineer	Assistant Engineer	Senior CADD Operator	Drafter	Clerical	Total Hours	Labor	Non-Labor Fee	Total
Task 310. Process Equipment Procurement and Negotiaion	8	4		8					20	\$ 3,240	\$ 259	\$ 3,499
Task 311. Review of EIR documentation	8			20					28	\$ 4,100	\$ 328	\$ 4,428
<b>Subtotal</b>	<b>96</b>	<b>(44)</b>	<b>-</b>	<b>188</b>	<b>(80)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>160</b>	<b>\$ 26,860</b>	<b>\$ 2,149</b>	<b>\$ 29,009</b>
<b>Task Group 7 - Waste Discharge Report</b>												
Task 701. Preliminary Meeting with RWQCB & NCSD staff	1			2					3	\$ 450	\$ 36	\$ 486
Task 702. Data collection and evaluation	2			4					6	\$ 900	\$ 72	\$ 972
Task 703. Administrative Draft RWD	8	38		52		16		8	122	\$ 16,436	\$ 1,315	\$ 17,751
Task 704. Meeting with District staff for review of comments	2			2					4	\$ 650	\$ 52	\$ 702
Task 705. Draft RWD	2	8		20		4		4	38	\$ 4,888	\$ 391	\$ 5,279
Task 706. Meeting with RWQCB & District staff	2			2					4	\$ 650	\$ 52	\$ 702
Task 707. Final RWD	2	6		16		4		2	30	\$ 3,924	\$ 314	\$ 4,238
<b>Subtotal</b>	<b>19</b>	<b>52</b>	<b>-</b>	<b>98</b>	<b>-</b>	<b>24</b>	<b>-</b>	<b>14</b>	<b>207</b>	<b>\$ 27,898</b>	<b>\$ 2,232</b>	<b>\$ 30,130</b>
<b>Total</b>	<b>198</b>	<b>151</b>	<b>162</b>	<b>259</b>	<b>157</b>	<b>321</b>	<b>70</b>	<b>30</b>	<b>1,348</b>	<b>\$ 179,724</b>	<b>\$ 14,378</b>	<b>\$ 194,102</b>

<u>Personnel Category</u>	<u>\$/HR</u>
Principal	\$200.00
Senior Engineer II	\$160.00
Senior Engineer I	\$145.00
Associate Engineer	\$125.00
Assistant Engineer	\$110.00
Senior CADD Operator	\$105.00
Drafter	\$100.00
Clerical	\$72.00



AECOM

**FEE SCHEDULE FOR PROFESSIONAL SERVICES**

Effective January 1, 2010

**Engineers, Planners, Architects, Scientists:**

Principal	\$200.00 per hour
Managing Engineer	\$175.00 per hour
Senior II	\$160.00 per hour
Senior I	\$145.00 per hour
Associate	\$125.00 per hour
Assistant	\$110.00 per hour
Construction Observer	\$110.00 per hour

**Technical Support Staff:**

Design/CADD Supervisor	\$120.00 per hour
Senior Designer/Design CADD Operator	\$105.00 per hour
Drafter/CADD Operator	\$100.00 per hour
Clerical/General Office	\$72.00 per hour

**General Project Expenses <sup>(1)</sup>**

8% of Labor

**Direct Project Expenses**

Other Reproduction (8-1/2 x 11/11x17 Color)	\$1.15/1.50 per page
Plan Sheet Printing – In House Bond / Mylar	\$3.00/7.00 per sheet
Subcontracted Services/Reproduction	Cost + 10%
Subcontracted or Subconsultant Services	Cost + 10%
Auto Mileage for Construction Phase Services	\$0.60 per mile
Travel & Subsistence (other than mileage)	Cost
Miscellaneous Supplies/Services	Cost + 10%

If authorized by the Client, an overtime premium multiplier of 1.5 may be applied to the billing rate of hourly personnel who work overtime in order to meet a deadline which cannot be met during normal hours.

Applicable sale taxes, if any, will be added to these rates. Invoices will be rendered monthly. Payment is due upon presentation.

Fee schedule is subject to change.

<sup>(1)</sup> Includes mail, telephone, fax, office photo copies, personal computers and mileage (except as noted).

Southland WWTF Phase 1 Improvements  
Preliminary Sheet List

9/1/2010

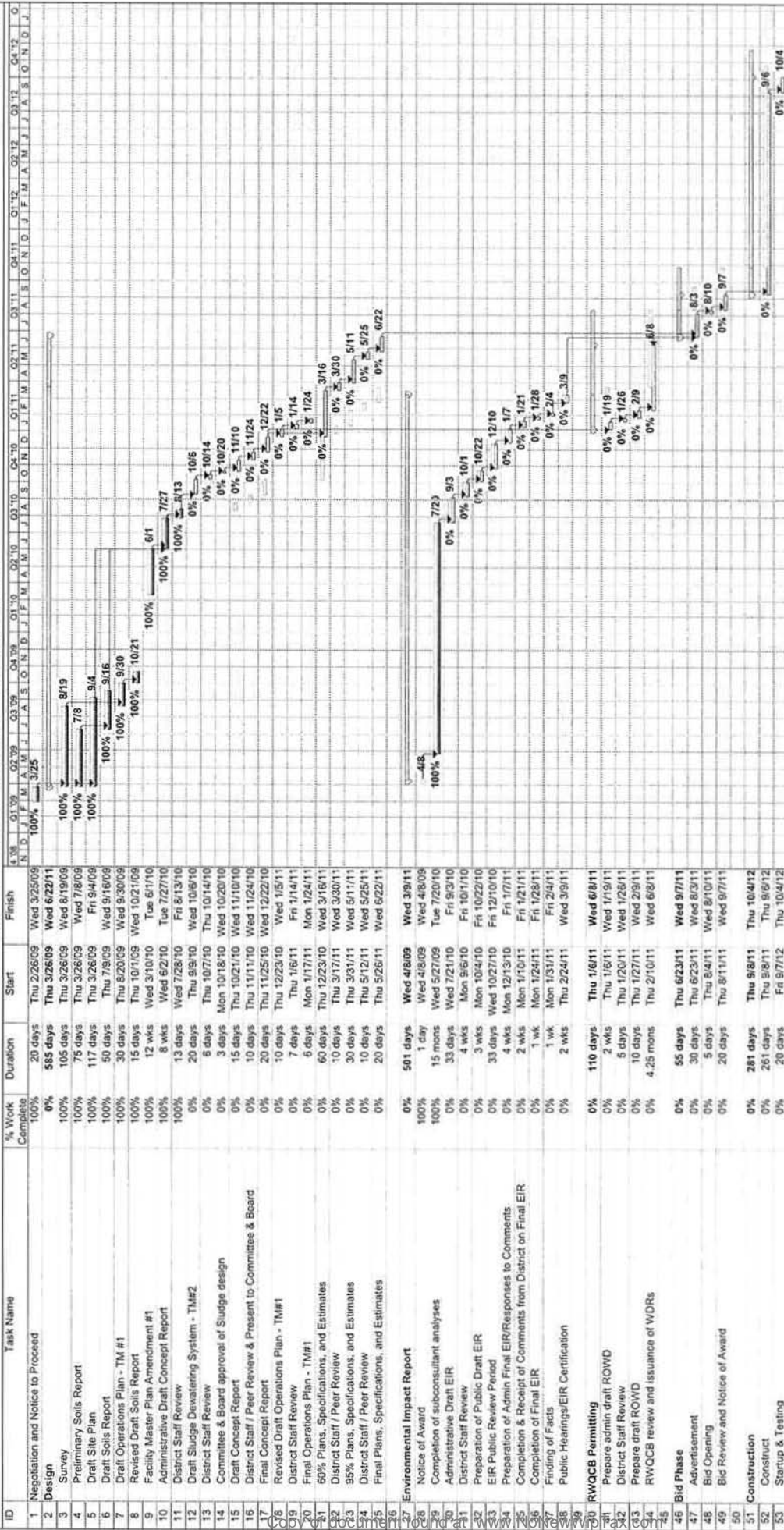
Sheet Name	Title	# of Sheets
<b>General</b>		<b>25</b>
G1, G2, G3	Title Sheet, Drawing Index, and General Notes	3
G4 – G7	Site Layout, Schematics, and Design Criteria	3
S1 – S4	Structural Notes and Details	4
E1 – E3	Electrical Symbols, Single Line Diagram, and Site Plan	3
N1, N2	Instrument Legend and Symbols, and Communication Block Diagram	2
C1 – C10	Utility Plan and Details; Site Piping Plan and Profiles	10
<b>Influent Pipe and Lift Station</b>		<b>13</b>
C101	Grading & Demolition Plan	1
C102, C103	Influent Pipe & Lift Station Plan & Profile	2
C104, C105	Lift Station & Metering Station Details	2
C106	Metering Station Details	1
S101 - S104	Structural	4
E101, E102	Electrical	2
N101	Instrumentation and Controls	1
<b>Mechanical Screens and Grit Removal System</b>		<b>13</b>
C201	Grading Plan	1
C202, C203	Site Layout & Piping Plan	2
C204	Screening Details	1
C205	Grit Removal System Details	1
S201 – S204	Structural	4
E201 – E203	Electrical	3
N201	Instrumentation and Controls	1
<b>Biolac® Wave Oxidation System</b>		<b>9</b>
C301	Grading & Demolition Plan	1
C302, C303	System Layout & Piping Plan	2
C304, C305	Biolac Details	2
S301	Anchor Plans	1
E301, E302	Electrical	2
N301	Instrumentation and Controls	1
<b>Secondary Clarifier + Clarifier Bid Alternate (A)</b>		<b>20</b>
C401, C401A	Grading Plan, grading plan for bid alternate	2
C402 – C404	Site Layout & Piping Plan	3
C402A - C404A	Site Layout & Piping Plan for bid alternate	3
S401 – S406	Clarifier Plan & Sections	4
S401A - S406A	Clarifier Plan & Sections for bid alternate	4
E401, E401A	Electrical, Electrical for bid alternate	2
N401, N401A	Instrumentation and Controls, I&C for bid alternate	2
<b>Sludge Dewatering</b>		<b>13</b>
C501, C502	Site Layout & Piping Plan	2
C503 - C506	Thickener, polymer feed, and pumping details	3
S501 - S504	Structural	4
M501	Plumbing	1
E501, E502	Electrical	2
N501	Instrumentation and Controls	1
<b>Standby Holding Pond</b>		<b>3</b>
C507 - C509	Site layout and piping plan, details	3
<b>Sludge Drying Beds</b>		<b>6</b>
C601	Grading Plan	1
C602, C603	Site Layout & Piping Plan	2
C604	Sludge Bed Details	1
S601, S602	Structural	2

Southland WWTF Phase 1 Improvements  
Preliminary Sheet List

9/1/2010

Sheet Name	Title	# of Sheets
<b>Electrical, Instrumentation, and Controls</b>		<b>10</b>
N701, N702	Control Panel Layout & Instrument Mounting Details	2
E702 – E704	Schematic Diagrams	3
E705	Panel and Fixture Schedules	1
E706 – E708	Electrical Details	3
E709	Conduit Schedule	1
<b>Non-Potable Water System</b>		<b>14</b>
C801	Pump station plan and sections	1
C802	Hydropneumatic tank plan and section	1
C803	Sodium hypochlorite storage and dosing plan and section	1
C804	Details	1
S801 - S804	Structural	4
M801, M802	Mechanical	2
E801, E802	Electrical	2
N801, N802	Instrumentation	2
<b>Controls &amp; Blower Building</b>		<b>13</b>
C901	Grading Plan	1
C902 - C904	Layout and Details	3
S901 - S905	Structural	5
M901, M902	Mechanical plumbing and HVAC	2
E901, E902	Electrical	2
<b>TOTAL</b>		<b>139</b>

Southland WWTF Phase 1 Improvements Design Schedule



Legend: Milestone, Baseline Milestone, Summary, Task

Task: Progress, Baseline

Milestone: Milestone, Baseline Milestone, Summary

Task: Roll Up Critical Task, Roll Up Milestone, Roll Up Baseline

Milestone: Roll Up Baseline Milestone, Roll Up Milestone, Roll Up Baseline

Group By: Summary, Baseline, Split, Baseline Split

External Tasks: External Tasks, Group By Summary, Baseline Split

TO: COMMITTEE MEMBERS

FROM: DON SPAGNOLO  
GENERAL MANAGER 

DATE: SEPTEMBER 2, 2010

**AGENDA ITEM**

**4**

**SEPTEMBER 7, 2010**

**SET NEXT COMMITTEE MEETING**

**ITEM**

Set next committee meeting [Set Date/Time].

**BACKGROUND**

The Committee usually meets on the Monday preceding the first Board meeting of the month as necessary.

**RECOMMENDATION**

Staff recommends that the Committee tentatively set a meeting at 2 pm on Monday, October 11, 2010. If staff does not have policy issues to bring to the committee at that time, the meeting can be deferred to the following month with Committee member concurrence.

**ATTACHMENT- NONE**

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