

TO: BOARD OF DIRECTORS
FROM: MICHAEL S. LEBRUN *MSL*
GENERAL MANAGER
DATE: APRIL 18, 2014

AGENDA ITEM
C
APRIL 23, 2014

PRESENTATIONS AND REPORTS

The following presentations and reports are scheduled:

- C-1) SAN LUIS OBISPO COUNTY SHERIFF COMMANDER JAY DONOVAN
Update Report re: South County Law Enforcement and Department News
- C-2) CAL FIRE BATTALION CHIEF PAUL VAN GERWEN
Update Report re: South County Cal Fire Activity and Department News
- C-3) DIRECTOR OF ENGINEERING AND OPERATIONS
RE: Written Summary of Activities
- C-4) REPORT ON APRIL 9, 2014 REGULAR MEETING CLOSED SESSION
Announcement of actions, if any, taken in Closed Session
- C-5) DIRECTORS' ANNOUNCEMENTS OF DISTRICT & COMMUNITY INTEREST AND
REPORTS ON ATTENDANCE AT PUBLIC MEETINGS, TRAINING PROGRAMS,
CONFERENCES, AND SEMINARS.
Receive Announcements and Reports from Directors
- C-6) RECEIVE PUBLIC COMMENT ON PRESENTATIONS AND REPORTS
PRESENTED UNDER ITEM C AND BY MOTION RECEIVE AND FILE
PRESENTATIONS AND REPORTS

TO: BOARD OF DIRECTORS
FROM: MICHAEL S. LEBRUN *MSL*
GENERAL MANAGER
DATE: APRIL 18, 2014

AGENDA ITEM
C-3
APRIL 23, 2014

**DISTRICT DIRECTOR OF ENGINEERING AND OPERATIONS
SUMMARY OF ACTIVITIES**

ITEM

Report on recent engineering and operations activities [NO ACTION REQUESTED].

BACKGROUND

Director of Engineering and Operations, Peter Sevcik's written update on District capital projects and operations.

RECOMMENDATION

Staff recommends that your Honorable Board receive the update.

ATTACHMENTS

- A. Engineering and Operations Update

APRIL 23, 2014

ITEM C-3

ATTACHMENT A



NIPOMO COMMUNITY SERVICES DISTRICT

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POST OFFICE BOX 326
NIPOMO, CA 93444 - 0326
(805) 929-1133 FAX (805) 929-1932
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MEMORANDUM

TO: MICHAEL S. LEBRUN, P.E., GENERAL MANAGER *MSL*
FROM: PETER V. SEVCIK, P.E., DIRECTOR OF ENGINEERING & OPERATIONS *PVS*
DATE: APRIL 18, 2014
RE: ENGINEERING AND OPERATIONS UPDATE FOR MARCH 2014

PROJECTS IN CONSTRUCTION

- **Southland WWTF Phase 1 Improvement Project**
 - STATUS
 - Scheduled Contract Completion – July 5, 2014
 - Time Elapsed to Date – 86% (609 of 705 days)
 - Work Completed to Date – 91% (Based on approved pay requests)
 - New plant on-line as of March 5, 2014
 - Aeration basin seeded on March 11, 2014

Construction Contract Cost Summary	
Original Contract Amount – Cushman Construction Co.	\$10,224,900
Change Order for Alternate Y, Additional Disposal Ponds	\$867,900
Other Change Orders to Date	\$273,760
Revised Contract Amount	\$11,366,560
Completed to Date	\$10,384,936

- **Supplemental Water Project Phase 1 Bid Package 4 – Joshua Road Pump Station**
 - SCOPE OF WORK – 1930 lineal feet of 24-inch diameter waterline, 400 gpm pump station with back-up power, controls, and instrumentation systems, a pressure reducing station and chloramination systems at 4 existing District wells.
 - STATUS
 - Scheduled Contract Completion – May 22, 2015
 - Time Elapsed to Date – 19% (102 of 519 days)
 - Work Completed to Date – 1.3% (Based on approved pay requests)

SWP Bid Package 4 Construction Contract Cost Summary	
Contract Amount – Spiess Construction Co. Inc.	\$4,364,030
Change Orders	\$529,670
Revised Contract Amount	\$4,828,950
Completed to Date	\$64,750

- **Blacklake Well #4 Pump Replacement Project**

- SCOPE OF WORK - Replacement of existing well pump, motor, column pipe and discharge piping assembly, downhole well video survey, installation of a new pump control valve, pressure relief and surge anticipating valve, gate valves, check valve, flow meter, air release valve, sounding tube, chlorination tube, transducer tube, service saddles, blowoff piping, and electrical system upgrade.
- STATUS
 - Contractor working on punch list items
 - Project acceptance pending

Construction Contract Cost Summary	
Contract Amount – Sansone Company, Inc.	\$202,086
Change Orders	\$9,896
Revised Contract Amount	\$211,982
Completed to Date	\$211,982

- **Standpipe Tank Rehabilitation and Inlet Modification Project**

- SCOPE OF WORK - Piping for new inlet and new inlet connection, modification of existing tank inlet/outlet piping, removal and replacement of existing drain/overflow valves, new cathodic protection system, and interior tank coating.
- STATUS
 - Notice to proceed issued March 12, 2014
 - Construction in progress
 - Scheduled completion July 27, 2014

Construction Contract Cost Summary	
Contract Amount – Crosno Construction, Inc.	\$263,350
Change Orders	\$0
Revised Contract Amount	\$263,350
Completed to Date	\$2,185

OPERATIONS

- **Wells and Water Distribution System – March 2014**

<u>YEAR</u>	<u>TOTAL MONTHLY PRODUCTION</u>	<u>AVERAGE DAILY PRODUCTION</u>
2014	147.8 Acre Feet	4.8 Acre Feet Per Day
2013	185.5 Acre Feet	6.0 Acre Feet Per Day
5 Year Average	160.4 Acre Feet	5.2 Acre Feet Per Day

- Daily maintenance and operation of 8 wells
- 16 distribution system routine coliform monitoring samples
- 32 distribution system disinfectant residual monitoring samples
- Blacklake Well 4 put back into service
- Eureka Well out of service for repairs
- Standpipe Tank out of service for repairs

• **Southland Wastewater Treatment Facility and Collection System – March 2014**

<u>TOTAL EFFLUENT TREATED</u>	<u>AVERAGE DAILY FLOW TREATED</u>	<u>BOD₅</u>	<u>TSS</u>
20.2 Million Gallons	.653 Million Gallons Per Day	17 mg/l Monthly Average	17 mg/l Monthly Average
62.1 Acre Feet	2.0 Acre Feet Per Day	35 mg/l Daily Maximum	57 mg/l Daily Maximum

- Initiated operation and maintenance of .9 MGD activated sludge treatment plant
- Daily maintenance and operation of 10 lift stations
- No sewer system overflows
- Effluent biochemical oxygen demand (BOD) requirement for monthly average of 60mg/L met and daily maximum of 100 mg/L requirement met
- Effluent total suspended solids (TSS) requirement for monthly average of 60mg/L met and daily maximum of 100 mg/L requirement met
- 8 Each Influent BOD, TSS samples
- 8 Each Effluent BOD, TSS samples
- 31 Effluent Settleable Solids samples
- 19 Each Effluent pH, dissolved oxygen samples

• **Blacklake Wastewater Reclamation Facility and Collection System – February 2014**

<u>TOTAL EFFLUENT TREATED</u>	<u>AVERAGE DAILY FLOW TREATED</u>	<u>BOD₅</u>	<u>TSS</u>
1.4 Million Gallons	.044 Million Gallons Per Day	22 mg/l Monthly Average	20 mg/l Monthly Average
4.2 Acre Feet	.13 Acre Feet Per Day	34 mg/l Daily Maximum	26 mg/l Daily Maximum

- Daily maintenance and operation of .2 MGD treatment plant and 3 lift stations
- Effluent biochemical oxygen demand (BOD) requirement for monthly average of 40 mg/L met and daily maximum 100 mg/L requirement met
- Effluent total suspended solids (TSS) requirement for monthly average of 30 mg/L met and daily maximum of 100 mg/L requirement met
- No sewer system overflows
- 4 Each Effluent BOD, TSS samples
- 21 Each Effluent total coliform, settleable solids, pH, Chlorine residual, dissolved oxygen samples

• **Compliance Reporting**

- March Monthly Distribution System Coliform Monitoring Summary to California Department of Public Health
- 1st Quarter Disinfectant Residuals Compliance Report to California Department of Public Health
- February Wastewater Monitoring Report for the Blacklake Wastewater Reclamation Facility to Central Coast Regional Water Quality Control Board
- February Monthly Wastewater Monitoring Report for the Southland Wastewater Treatment Facility to Central Coast Regional Water Quality Control Board
- February Monthly 'No-Spill' Certification for California Integrated Water Quality System (CIWQS) for both Southland and Blacklake Sewer Collection Systems

PROJECTS IN DESIGN AND PLANNING STAGES

- **Supplemental Water Project Phase 1 Bid Package 3 – Blosser Road Waterline**
 - SCOPE OF WORK – 5700 lineal feet of 24-inch diameter waterline, 300 lineal feet levee crossing jack and bore, flow meter and flow control station with instrumentation.
 - STATUS
 - Bid document revision in progress
- **Blacklake Wastewater Master Plan**
 - Work to correct electrical safety issues identified at treatment plant completed
 - Technical evaluation of existing wastewater plant and sewer collection system in progress
 - Treatment plant operations and maintenance manual update in progress

OTHER PROJECTS AND PROGRAMS

- **Safety Program**
 - Weekly operations tailgate safety meeting for Operations staff
 - On-line safety training for all District employees
- **Development Review**
 - Water Will Serve Issued - 1

ATTACHMENTS

- A. March 2014 Southland WWTF Improvements Phase 1 Project Monthly Construction Progress Report

Nipomo Community Services District



Southland WWTF Improvements Phase 1 Project Monthly Progress Report



Prepared By:
MNS Engineers, Inc.

March 2014

Schedule and Budget Summary

Schedule Summary

Notice to Proceed	July 30, 2012
Original Contract Days	645
Contract Days Added	60
Revised Contract Days	705
Elapsed Time (Days)	(609)
Remaining Time (Days)	96
Contract Completion Date	July 5, 2014
Time Elapsed to Date	86%
Work Completed to Date	91%
Approved Change Orders (Days)	60 days

Budget Summary

Original Contract Amount	\$10,224,900.47
Approved Change Orders (Cost)	\$1,141,659.83
Revised Contract Amount	\$11,366,560.30
Previous Payments	\$9,897,145.31
Current Month Pay Request	\$487,790.75
Total Work Completed	\$10,384,936.06
Work Remaining	\$981,624.24

Progress Summary

General Site Work – Piping and Electrical

Summary of Work:

Cushman used two pumps and temporary piping to pump sludge from existing Influent Ponds 2, 3 & 4 into sludge holding ponds. Once the sludge was removed from the existing ponds, Cushman removed the pond liners and demolished existing structures including, manholes, piping, electrical components and concrete ramps. The concrete debris was separated and recycled. Rick's Tree Service removed existing trees along the east border of Highway 101, then put the trees through a chipper and provided the District with the chips for future use. Mark Switzer Excavating mobilized equipment and completed a majority of new aggregate base roads throughout the site. Alternative Y work began with material from the excavation of new Infiltration Ponds 9 & 10 being used as backfill in existing Influent Ponds 2, 3 & 4, and for landscape berms around the site perimeter which serve as screening from Highway 101 and neighboring properties. Cushman also installed a pressure reducer on the 2-inch treated water pipe.

Bergelectric pulled wire for the street lights which have been installed and began energizing the lights. Six street lights remain to be installed when the earthwork is completed. Bergelectric is also addressing punch list items.

Pictures:



Cushman setting up pumps to pump sludge out of Influent Pond 2.



Cushman pumping sludge out of existing Influent Pond #3.



Cushman removing sludge from Influent Pond #2.



Cushman pushing and pumping sludge out of Influent Pond #2.



Cushman removing sludge from Influent Pond #3.



Cushman pushing sludge to pump in Influent Pond #3.



Cushman pushing sludge to pump in Influent Pond #3.



Cushman performing demolition of concrete structures at existing Influent Ponds.



Cushman starting removal of the liner in Influent Pond #3.



Cushman removing liner from Influent Pond #3.



Cushman removing liner from Influent Pond #4.



Cushman performing demolition of existing pump station and grinder at influent to old treatment facility.



Cushman performing demolition at the existing wet well and manhole.



Cushman performing demolition of existing manholes.



Rick's Tree Service removing trees from the east side of the WWTF, along Highway 101, as part of the new landscaping plan.



Mark Switzer Excavating cutting the new road to subgrade near the Headworks.



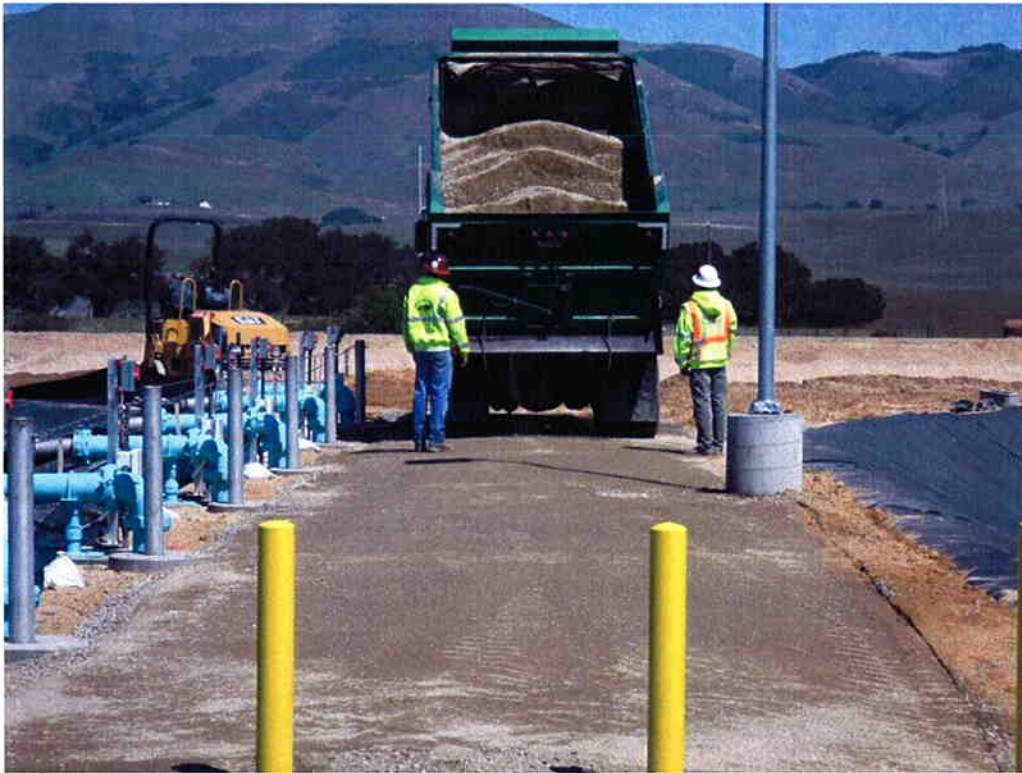
Mark Switzer Excavating cutting new site roads to subgrade.



Mark Switzer Excavating placing aggregate base material for roadways around the site.



Mark Switzer Excavating compacting aggregate base material for roadways around the site.



Mark Switzer Excavating placing aggregate base access road between the Aeration Basin and the Emergency Holding Basin.



Mark Switzer Excavating placing aggregate base for roadway at the Sludge Drying Beds.



Rincon staff on site during clear and grub by Mark Switzer Excavating for Alternative Y work to build new Infiltration Ponds 9 & 10.



Start of new berm for landscape and screening from neighboring properties using material excavated from Alternative Y work.



Cushman installing a pressure reducer on the 2-inch potable waterline.



Pressure reducing installed on the 2-inch potable waterline.



Bergelectric installing street light pull boxes.



Bergelectric installing street light pull boxes and the temporary bypass pipe for the tie-in to the new treatment plant.



Cushman compacting around pull boxes for street lights.



Bergelectric pulling wire for street lights.

Process 10 Influent Pump Station

Summary of Work:

Cushman performed repair of minor concrete defects, did general clean-up of the area and addressed punch list items.

Pictures:



Cushman patching concrete and performing punch list items.



Cushman and District taking delivery of activated sludge from San Luis Obispo to seed the new treatment plant.

Process 20 & 30 Headworks Screening System & Grit Removal System

Summary of Work:

Cushman worked with the District staff to make adjustments to the set points and on the automated equipment once the plant was put into operation on March 5, 2014.

Process 40 Aeration Basin

Summary of Work:

Work in this process is now complete.

Process 45 Electrical/Blower Building

Summary of Work:

Cushman and Bergelectric performed adjustments and/or corrections to programming and functionality of instruments which were not identified during testing but which became apparent during operation of the treatment plant.

Process 50 – Secondary Clarifier No. 1 and 2.

Summary of Work:

Cushman did not perform any work in this process during this period.

Process 60 – Sludge Thickening System

Summary of Work:

Cushman did not perform any work in this process during this period. However, the Sludge Thickening System is scheduled to be tested and commissioned.

Process 70 – Process Water Pump Station and Sodium Hypochlorite Storage

Summary of Work:

Cushman did not perform any work in this process during this period.

Process 80 – Emergency Holding Basin

Summary of Work:

Work in this process is now complete.

Process 90 – Sludge Drying Beds

Summary of Work:

Work in this process is now complete.

Commissioning and Testing

Summary of Work:

On March 5, 2014, during night work when influent flows are lowest, Cushman performed the tie-in to switch influent from the existing treatment facility to the District's new waste water facility, officially starting operation of the new treatment plant.

Pictures:



Cushman setting up temporary pumps for the tie-in to the new treatment plant.



Cushman working at night on March 5, 2014 to break out grout plug in influent manhole, which was installed previously by R. Baker as part of the South Frontage Road Sewer Project in anticipation of this connection to the new WWTF.



Cushman plugging the existing influent pipe penetration in the influent manhole after the plug for the new influent pipe was removed.



Plug complete prior to manhole being put back into service.

TO: BOARD OF DIRECTORS
FROM: MICHAEL S. LEBRUN *MSL*
GENERAL MANAGER
DATE: APRIL 18, 2014

AGENDA ITEM
C-4
APRIL 23, 2014

**APRIL 9, 2014 REGULAR MEETING
CLOSED SESSION REPORT**

ITEM

Announcement of actions, if any, taken during Closed Session at previous Board Meeting [NO ACTION REQUESTED]

BACKGROUND

The April 9, 2014 Regular Meeting Closed Session included:

1. CONFERENCE WITH DISTRICT LEGAL COUNSEL RE: PENDING LITIGATION PURSUANT TO GC §54956.9
 - a) SMVWCD VS. NCSD (SANTA CLARA COUNTY CASE NO. CV 770214, SIXTH APPELLATE COURT CASE NO. H032750 AND ALL CONSOLIDATED CASES).
 - b) NCSD v Troesh et. al. SLOCSC# CV130175

2. CONFERENCE WITH LEGAL COUNSEL PURSUANT TO GOVT. CODE §54956.9(d)(2)&(e)(1):
Significant Exposure to Litigation - 1 case.

Staff will report on closed session action taken, if any.