

TO: BOARD OF DIRECTORS  
FROM: MICHAEL S. LEBRUN *MSL*  
GENERAL MANAGER  
DATE: SEPTEMBER 20, 2013



## PRESENTATIONS AND REPORTS

The following presentations and reports are scheduled:

- C-1) REPORT ON SEPTEMBER 11, 2013 REGULAR MEETING CLOSED SESSION  
Announcement of actions, if any, taken in Closed Session
- C-2) DIRECTOR OF ENGINEERING AND OPERATIONS  
RE: Summary of recent activities
- C-3) 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-4) 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: SEPTEMBER 20, 2013



**SEPTEMBER 11, 2013 REGULAR MEETING  
CLOSED SESSION REPORT**

**ITEM**

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

**BACKGROUND**

The September 11, 2013 Regular Meeting Closed Session included:

1. CONFERENCE WITH DISTRICT LEGAL COUNSEL RE: PENDING LITIGATION PURSUANT TO GC §54956.9 SMVWCD VS. NCSD (SANTA CLARA COUNTY CASE NO. CV 770214, SIXTH APPELLATE COURT CASE NO. H032750 AND ALL CONSOLIDATED CASES).
2. CONFERENCE WITH LEGAL COUNSEL PURSUANT TO GOVT. CODE §54956.9(a):  
Existing litigation - 1 case: Mesa Community Alliance Vs. District, Case No. CV 130222

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

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TO: BOARD OF DIRECTORS  
FROM: MICHAEL S. LEBRUN *MSL*  
GENERAL MANAGER  
DATE: SEPTEMBER 20, 2013

**AGENDA ITEM**  
**C-2**  
**SEPTEMBER 25, 2013**

**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, will review the attached written update.

**RECOMMENDATION**

Staff recommends that your Honorable Board receive the update and ask questions.

**ATTACHMENT**

- A. Engineering and Operations Update

SEPTEMBER 25, 2013

ITEM C-2

ATTACHMENT A



# NIPOMO COMMUNITY SERVICES DISTRICT

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NIPOMO, CA 93444 - 0326  
(805) 929-1133 FAX (805) 929-1932  
Web site address [www.ncsd.ca.gov](http://www.ncsd.ca.gov)

## MEMORANDUM

TO: MICHAEL S. LEBRUN, P.E., GENERAL MANAGER  
FROM: PETER V. SEVCIK, P.E., DIRECTOR OF ENGINEERING & OPERATIONS  
DATE: SEPTEMBER 18, 2013  
RE: ENGINEERING AND OPERATIONS UPDATE FOR AUGUST 2013

### PROJECTS IN CONSTRUCTION

- **Southland WWTF Phase 1 Improvement Project**
  - SCOPE OF WORK - Phase 1 improvements to the treatment plant include an influent metering station, influent pump station, influent screening system, grit removal system, Biolac® extended-aeration system, two final clarifiers, plant water system, two additional disposal ponds and back-up power, controls, and instrumentation systems and as well as gravity belt thickener and lined drying beds for biosolids handling.
  - STATUS
    - Construction in progress
    - Notice to Proceed Issued – July 30, 2012
    - Scheduled Contract Completion – July 5, 2014
    - Time Elapsed to Date – 56%
    - Work Completed to Date – 67% (Based on Approved Pay Requests)

<b>Construction Contract Cost Summary</b>	
Original Contract Amount – Cushman	\$10,224,900.00
Change Order for Alternate Y, Additional Disposal Ponds	\$867,900.00
Other Change Orders to Date	\$99,259.28
Revised Contract Amount	\$11,192,059.28
<b>Completed to Date</b>	<b>\$7,510,382.09</b>
<b>Remaining Contract Amount</b>	
SCADA Integration – Tesco	\$198,435.00
Authorized Construction Contingency Remaining	\$202,305.72

- **Supplemental Water Project Phase 1 Bid Package 1 – Santa Maria River Crossing**

- SCOPE OF WORK – 2,600 lineal feet of 24-inch inside diameter HDD bore under Santa Maria River.
- STATUS
  - Construction in progress
  - Notice to Proceed Issued – July 10, 2013
  - Scheduled Contract Completion – November 28, 2013
  - Time Elapsed to Date – 33%
  - Work Completed to Date – 9% (Based on Approved Pay Requests)

<b>SWP Bid Package 1 Construction Contract Cost Summary</b>	
Contract Amount – ARB, Inc.	\$5,847,090.00
Change Orders	\$0.00
Revised Contract Amount	\$5,847,090.00
<b>Completed to Date</b>	<b>\$503,107.50</b>
Authorized Contingency Remaining	\$580,000.00

- **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
  - Construction contract executed
  - Projected Notice to Proceed Date December 2, 2013

<b>SWP Bid Package 3 Construction Contract Cost Summary</b>	
Contract Amount – Specialty Construction Inc.	\$3,007,897.00
Change Orders	\$0.00
Revised Contract Amount	\$3,007,897.00
<b>Completed to Date</b>	<b>\$0.00</b>
Authorized Contingency Remaining	\$300,000.00

- **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
  - Construction contract executed
  - Projected Notice to Proceed Date December 2, 2013

<b>SWP Bid Package 4 Construction Contract Cost Summary</b>	
Contract Amount – Spiess Construction Co. Inc.	\$4,364,030.00
Change Orders	\$0.00
Revised Contract Amount	\$4,364,030.00
<b>Completed to Date</b>	<b>\$29,796.00</b>
Authorized Contingency Remaining	\$430,000.00

- **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
  - Notice to Proceed pending pump delivery

<b>Construction Contract Cost Summary</b>	
Contract Amount – Sansone	\$202,086.25
Change Orders	\$0.00
Revised Contract Amount	\$202,086.25
<b>Completed to Date</b>	<b>\$0.00</b>
Authorized Construction Contingency Remaining	\$10,000.00

**OPERATIONS**

- **Wells and Water Distribution System – August 2013**

<b><u>TOTAL MONTHLY PRODUCTION</u></b>	<b><u>AVERAGE DAILY PRODUCTION</u></b>
89.4 Million Gallons	2.88 Million Gallons
274 Acre Feet	8.84 Acre Feet

- Daily maintenance and operation of 9 wells
- 16 distribution system routine coliform samples

- **Southland Wastewater Treatment Facility and Collection System – August 2013**

<b><u>TOTAL EFFLUENT TREATED</u></b>	<b><u>AVERAGE DAILY FLOW TREATED</u></b>
20.3 Million Gallons	.654 Million Gallons Per Day
62.3 Acre Feet	2.0 Acre Feet Per Day

- Daily maintenance and operation of .9 MGD treatment plant and 10 lift stations
- Effluent biochemical oxygen demand (BOD) requirement for monthly average of 60mg/L met and daily maximum 100 mg/L requirement exceeded on 1 occasion (102 mg/l BOD)



- Effluent total suspended solids (TSS) requirement for monthly average of 60mg/L exceeded (67 mg/l TSS) and daily maximum 100 mg/L requirement met
- No sewer system overflows
- 18 Influent BOD, TSS samples
- 18 Effluent BOD, TSS samples
- 31 Effluent Settleable Solids samples
- 5 Effluent pH, dissolved oxygen samples

● **Blacklake Wastewater Reclamation Facility and Collection System – August 2013**

<u>TOTAL EFFLUENT TREATED</u>	<u>AVERAGE DAILY FLOW TREATED</u>
1.57 Million Gallons	.051 Million Gallons Per Day
4.8 Acre Feet	.15 Acre Feet Per Day

- Daily maintenance and operation of treatment plant and 3 lift stations
- Effluent biochemical oxygen demand (BOD) requirement for monthly average of 40 mg/L exceeded (41 mg/l BOD) and daily maximum 100 mg/L requirement met
- Effluent total suspended solids (TSS) requirement for monthly average of 30 mg/L exceeded (33 mg/l TSS) and daily maximum 100 mg/L requirement met
- No sewer system overflows
- 4 Effluent BOD, TSS samples
- 22 Effluent total coliform samples
- 22 Effluent settleable solids samples
- 22 Effluent pH samples
- 22 Chlorine residual samples
- 5 Effluent dissolved oxygen samples

● **Maintenance Program – August 2013**

<u>Maintenance Measure</u>	<u>Goal</u>	<u>August Totals</u>	<u>Year to Date Totals</u>
Water meter replacement	35 per month	13 meters	246/420=58%
Fire hydrant service	55 per month	84 hydrants	496/660=75%
Valve exercising	153 per month	0 valves	135/1840=7%
Sewer line cleaning	8000 ft per month	4141 ft	42,410/96,000= 44%

● **Compliance Reporting**

- August Monthly Distribution System Coliform Monitoring Summary to California Department of Public Health (CDPH)
- July Monthly and 3<sup>rd</sup> Quarter Wastewater Monitoring Report for the Blacklake Wastewater Reclamation Facility to California Regional Water Quality Control Board (CRWQCB)
- July Monthly and Semi-Annual Wastewater Monitoring Report for the Southland Wastewater Treatment Facility to California Regional Water Quality Control Board (CRWQCB)
- July Monthly 'No-Spill' Certification for California Integrated Water Quality System (CIWQS) for both Southland and Blacklake Sewer Collection Systems

● **Personnel**

- Second Wastewater Supervisor recruitment unsuccessful
- Utility Operator recruitment in progress
- Customer service worker recruitment progress



### PROJECTS IN DESIGN AND PLANNING STAGES

- **Water and Sewer Master Plan Implementation**
  - Standpipe Tank Inlet Modification and Interior Rehabilitation
    - Design being finalized
- **Blacklake Wastewater Master Plan**
  - Technical evaluation in progress

### OTHER PROJECTS AND PROGRAMS

- **Safety Program**
  - Weekly Operations Tailgate Safety meeting
  - Quarterly Safety Meeting 8/8 for all District employees
  - Continued to coordinate on-line safety training for all District Employees

### MEETINGS

- 8/1 – MNS, Southland WWTF Phase 1 Improvement Project construction progress
- 8/1 – Management Coordination Meeting
- 8/5 – AECOM, Southland WWTF Phase 1 Improvement Project electrical review
- 8/5 – MNS, Supplemental Water Project Bid Package 1 environmental compliance
- 8/6 – MNS, Supplemental Water Project Bid Package 1 construction progress
- 8/8 – MNS, Southland WWTF Phase 1 Improvement Project construction progress
- 8/8 – Management Coordination Meeting
- 8/20 – MNS, Supplemental Water Project Bid Package 1 construction progress
- 8/20 – Management Coordination Meeting
- 8/22 – MNS, Southland WWTF Phase 1 Improvement Project construction progress
- 8/23 – MKN, Blacklake Wastewater Master Plan
- 8/26 – MNS, Supplemental Water Project Bid Package 1 environmental compliance
- 8/27 – MNS, Supplemental Water Project Bid Package 1 construction progress
- 8/29 – MNS, Southland WWTF Phase 1 Improvement Project construction progress

### ATTACHMENT

- A. August 2013 Southland WWTF Improvements Phase 1 Project Monthly Construction Progress Report
- B. August 2013 Supplemental Water Project Phase 1 Bid Package 1 Monthly Construction Progress Report

# Nipomo Community Services District



## Southland WWTF Improvements Phase 1 Project Monthly Progress Report



Prepared By:  
MNS Engineers, Inc.

**August 2013**

# 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)	(394)
Remaining Time (Days)	311
Contract Completion Date	July 5, 2014
Time Elapsed to Date	56%
Work Completed to Date	67%
Approved Change Orders (Days)	60 days

## Budget Summary

Original Contract Amount	\$10,224,900.00
Approved Change Orders (Cost)	\$967,159.28
Revised Contract Amount	\$11,192,059.28
Previous Payments	\$6,480,788.61
Current Month Pay Request	\$1,029,593.48
Total Work Completed	\$7,510,382.09
Work Remaining	\$3,681,677.19

# Progress Summary

## General Site Work – Piping and Electrical

### Summary of Work:

Cushman installed several hundred feet of 6-inch potable water line, 6-inch non potable waterline (NPW) and 1-inch and 2-inch NPW to hose bib locations around basins and structures.

Bergelectric excavated and installed Pull Box 24 (PB-24) followed by installation of Duct Bank 24 (DB-24) which was covered with red slurry concrete placed per specifications.

### Pictures:



Cushman installing 6-inch water line.





Cushman installing riser for fire hydrant off 6-inch waterline.



Installing 2-inch NPW line.





Bergelectric installing Duct Bank 24 (DB-24).



Bergelectric pouring red slurry over DB-24.

## **Process 10 Influent Pump Station**

### **Summary of Work:**

Cushman poured the deck of the Influent Pump Station.

### **Pictures:**



Cushman forming Influent Pump Station deck.



Concrete placement for deck of Influent Pump Station.



## **Process 20 & 30 Headworks Screening System & Grit Removal System**

### **Summary of Work:**

Cushman continued construction of the Headworks Screening System, installing rebar, forms and then pouring 4,000 psi concrete for the lower walls, slab and Headworks Screening System interior walls. They also installed reinforcement and forms, then poured concrete for the slab, channel walls, and walls of the grit vortex for the Grit Removal System.

### **Pictures:**



Cushman pouring concrete for lower walls of Headworks Screening System.



Forming starter walls at Headworks Screening System.



Cushman installing water stops at the Headworks Screening System walls.





Cushman pouring concrete for slab at Headworks Screening System.



Stripping forms from slab pour at Headworks Screening System.





Cushman sand blasting base of starter walls in preparation for forming interior walls of the Headworks Screening System.



Cushman forming the slab and grit vortex of the Grit Removal System.





Forming walls of the grit vortex and the interior walls of the Headworks Screening System.



Forming interior walls of the Headworks Screening System.



Center channel gate installed at Headworks Screening System .



Bergelectric installing through-wall conduit at Headworks Screening System





Concrete placement for walls at Headworks Screening System.



Cushman installing 20-inch SI pipe from Headworks to Distribution Box #1.

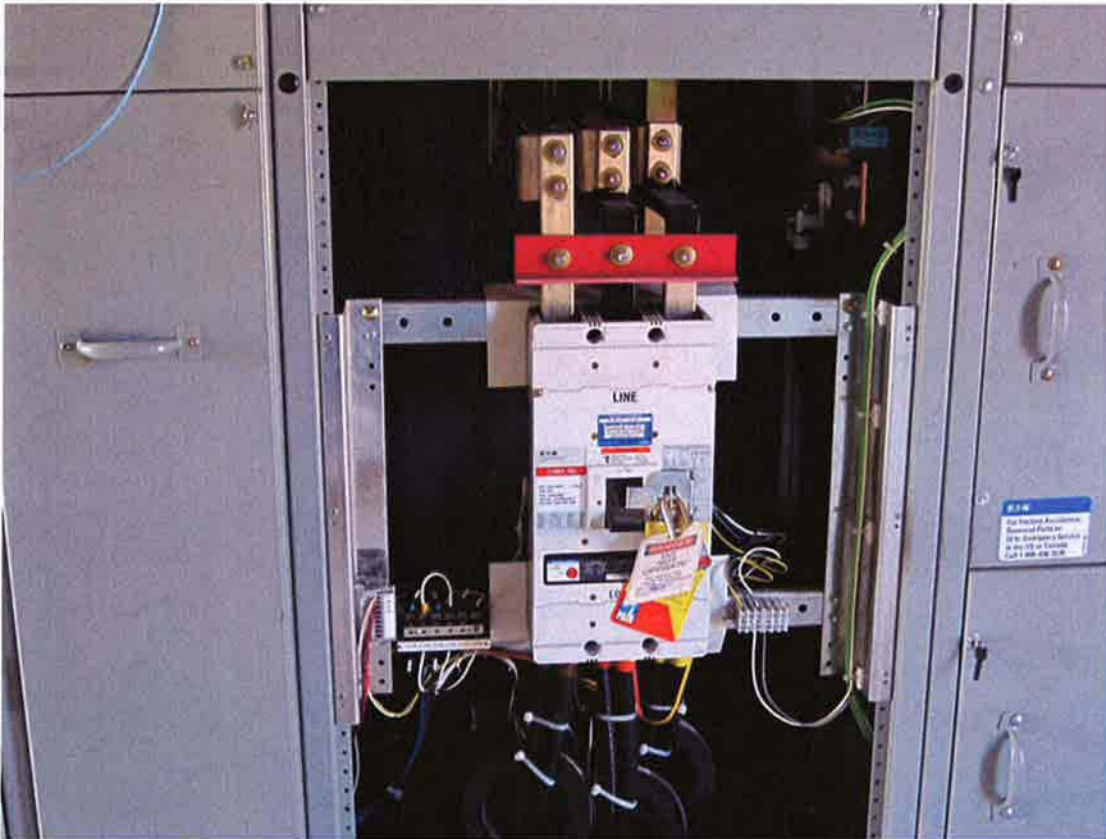


## **Process 45 Electrical/Blower Building**

### **Summary of Work:**

Bergelectric installed the interior rigid conduit installed for lighting along with fire alarm system in the Electrical/Blower Building. AECOM's electrical engineer inspected main panel allowing PG&E to energize from the new pole through transformer to main breaker at the Electrical/Blower Building. Cushman began installation of 18-inch AR piping to blowers.

### **Pictures:**



Main breaker for service to WWTF inspected and tagged.

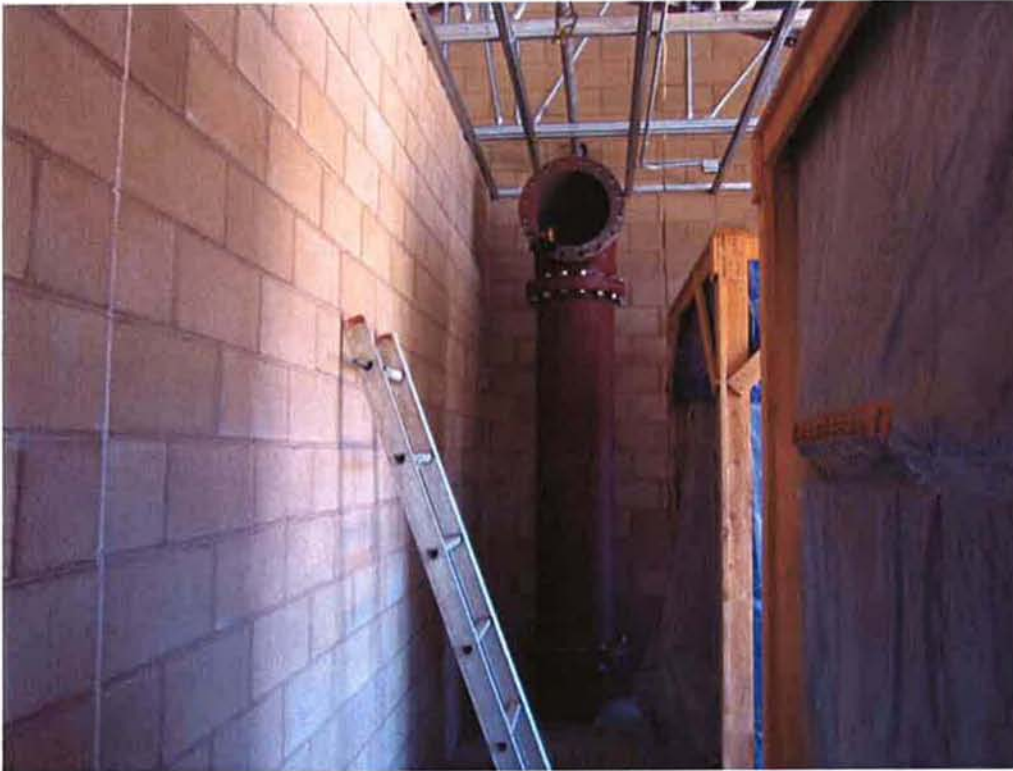


PG&E energizing the new service on August 15, 2013.



Bergelectric installing fire alarm panel inside the MCC room.





AR piping riser installed in blower room.



Cushman installing 18-inch AR piping inside blower room.

## **Process 50 – Secondary Clarifier No. 1 and 2.**

### **Summary of Work:**

Bergelectric installing clarifier mechanism local control panels and running PVC coated conduit along the bridges to the panels and flexible conduit to mechanism motors. Bergelectric has pulled control and power conductor wiring from MCC to bridges but has not yet terminated wiring.

### **Pictures:**



Conduit being installed to Clarifier #1.





Bergelectric installing rigid conduit along the bridge at Clarifier #2.



Clarifier mechanism local control panel mounted on bridge at Clarifier #2.

## **Process 60 – Sludge Thickening System**

### **Summary of Work:**

Sludge thickening structure DR piping was tied into main drain system followed by installation of RAS and WAS flow meter vaults then area backfilled and graded. Structural steel canopy arrived on site and was erected with testing of high strength bolts concurrent with erection.

### **Pictures:**



Dueck Construction erecting steel structure at Sludge Thickening System to support canopy.





Dueck Construction erecting steel structure to support canopy.



Fugro torque testing the bolts on the structural steel for the canopy.



## **Process 70 – Process Water Pump Station and Sodium Hypochlorite Storage**

### **Summary of Work:**

Cushman installed the steel decking of the Sodium Hypochlorite Storage followed by installation of plywood sheeting and moisture barrier. The Processed Water flow meter vault was installed with NPW piping.

### **Pictures:**



Cushman puddle welding metal deck for roof on Sodium Hypochlorite Building.



Cushman crimping metal deck on Sodium Hypochlorite Building.



Pouring equipment slabs inside Sodium Hypochlorite Building.



Cushman excavating for flow meter vaults.





Cushman installing flow meter vaults.



Flow meter vaults installed.

## **Process 90 – Sludge Drying Beds**

### **Summary of Work:**

Cushman established the wall lines and started forming the footings along the Sludge Drying Beds. CMC Rebar installed reinforcement for the slabs, and Cushman formed the slabs, then installed the water stops, and poured concrete sections during four night pours on August 13, 14, 20 & 21. After the slab sections were poured, joints were sawcut to prevent cracking and curing compound was applied. CMC Rebar started installing reinforcement for the walls and Cushman started installing forms for pouring the ramps.

### **Pictures:**



Cushman forming footings and control joints at Sludge Drying Beds.





CMC Rebar tying reinforcement at the Sludge Drying Beds.



CMC Rebar tying reinforcement at the wall foundations of the Sludge Drying Beds.



Reinforcement for walls and edge forms at Sludge Drying Bed #2.



Cushman forming construction joints at Sludge Drying Beds.





Cushman setting screed guide rails at Drying Bed #1 in preparation for first concrete pour.



Cushman preparing for night pour of Sludge Drying Beds.





Cushman pouring first slab section of Drying Bed #1.



Skreeding concrete of first slab section in Drying Bed #1.



Cushman skreeding slab section of Sludge Drying Bed #2.



Cushman starting finish work on concrete slabs at Sludge Drying Beds during first night pour.





Cushman cutting joints in Sludge Drying Bed #1 after first concrete pour.



Slabs in Sludge Drying Bed #1 curing after first concrete pour.



Cushman spraying curing compound on last slab section of Sludge Drying Bed #2 after last concrete pour.



Cushman stripping forms after night pours at Sludge Drying Beds.





CMC Rebar tying reinforcement for walls at Sludge Drying Beds.



Cushman setting footing edge board along ramp at Sludge Drying Beds.

# **Nipomo Community Services District**



## **Supplemental Water Project Bid Package 1 (BP 1) Santa Maria River Crossing Monthly Progress Report**



Prepared By:  
MNS Engineers, Inc.

**August 2013**



# Schedule and Budget Summary

## Schedule Summary

Notice to Proceed	July 10, 2013
Original Contract Days	141
Contract Days Added	0
Revised Contract Days	141
Elapsed Time (Days)	(46)
Remaining Time (Days)	95
Contract Completion Date	November 28, 2013
Time Elapsed to Date	33%
Work Completed to Date	9%
Approved Change Orders (Days)	0 days

## Budget Summary

Original Contract Amount	\$5,847,090.00
Approved Change Orders (Cost)	0.00
Revised Contract Amount	\$5,847,090.00
Previous Payments	\$0.00
Current Month Pay Request	\$503,107.50
Total Work Completed	\$503,107.50
Work Remaining	\$5,343,982.50

# Progress Summary

## South Site – Santa Maria River

### Summary of Work:

ARB completed installation of the silt fence around the south site temporary construction easements and installed a wider gate in the Santa Barbara County Flood Control fence for easier access over the levee. They also installed a small access road off of the end of Blosser Road to get through the new gate. The top soil was removed and preserved on site for future restoration.

### Pictures:



Aerial photo of the south side with silt fence installed at temporary construction easements.





ARB and subcontractor Marborg installing silt fence along temporary construction easements at the south site.



Marborg installing fence posts for 6' silt fence on south side of project.



Silt fence installed on south side of project.



Excavation and preservation of top soil on the south side within the temporary construction easements.





New 12' gate in SBCFC fence (for total width of 24'), and SWPPP installed at catch basin on the south side of the levee along the temporary access road constructed by ARB.



Straw waddles installed for SWPPP around the SBCFC drainage channel near the temporary access ARB constructed on the south side of the levee.

## **North Site & Access Road**

### **Summary of Work:**

ARB completed the temporary access road to the pump station site, grading and compacting the existing material and placing 4" of recycled aggregate base material 12' wide. Six foot silt fence was installed on the boundaries of the temporary access easements for the access road and the pump station site, to prevent dust from affecting the surrounding crops, and to prevent California Red Legged Frogs from migrating on site and into the work area. Burke Construction, removed 18" of top soil to be preserved from inside the temporary construction easement at the pump station site, and placed 1,800 cubic yards to the west of the site on existing farm land as directed by Linda Vista Farms. The rest of the top soil was stock piled on site for restoration upon completion of the future pump station. Potholing was performed to determine locations of active irrigation lines within project boundaries, all were inactive and no relocations were required. ARB also installed the 54-inch casing pipe for the horizontal directional drill entry at the north end of the project, and prepared the site for arrival of drilling equipment.

### **Pictures:**



Aerial view of the north side of the project at the future pump station site.





Burke and ARB creating a 12" deep ditch to key in the silt fence on the north side to prevent migration of California Red Legged Frogs onto the site.



Marborg and ARB installing tee posts for the silt fence along the access road to the pump station site on the north side.



Silt fence installed along access road to the pump station site. Rincon on site to provide monitoring for CRLF's.



Burke using grader and ARB working by hand to key in the bottom of the silt fence along the access road to prevent CRLF's from migrating onto the site during construction.





ARB's subcontractor Burke Construction building temporary access road to the pump station site on the north side of the project.



Fugro taking compaction tests for the base under the temporary access road.



Building up road to protect existing Phillips 66 oil line.



Burke compacting recycled aggregate base on temporary access road.





View from future pump station site of temporary access road and silt fence installed.



ARB installing temporary orange snow fence on boundaries of temporary construction easement to protect HDD tracing wires during drilling.



Burke excavating top soil to 18" deep inside pump station temporary construction easement and HDD work area.



Burke spreading excavated and preserved top soil to the west of the future pump station as directed by Linda Vista Farms.





ARB potholing for existing irrigation lines crossing the future pump station site and HDD work area.



Casing (54-inch diameter) arriving on the north side at the future pump station site.



North side of the site at future pump station prepped for installation of the 54-inch diameter casing.

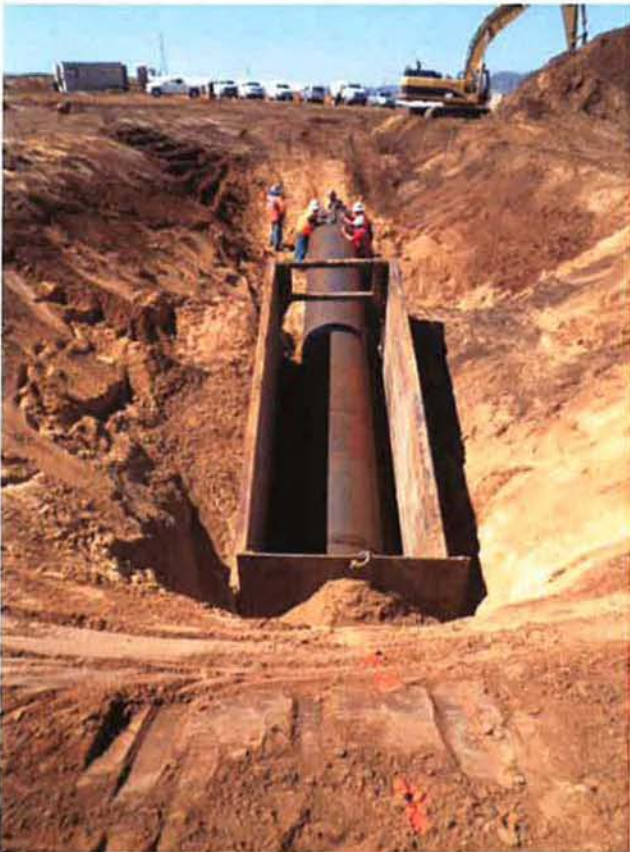


Excavation for the 54-inch diameter casing at the north side of the project.





ARB excavating to install the 54-inch diameter casing.



ARB installing the 54-inch diameter casing on the north side of the project.



Backfilling around 54-inch diameter casing at the north side of the project.



Completed installation of 54-inch diameter casing on north side of the project.





Casing centralizers on site for installation inside the 54-inch diameter casing.