

**MINUTES FOR TECHNICAL INTERCHANGE MEETING  
CAMP STANLEY STORAGE ACTIVITY  
CONTRACT NO. W91278-06-D-0026, TASK ORDER DY02  
PARSONS 745953**

Date: October 24, 2007 (Wednesday)

Time: 10:00 A.M. – 1:00 P.M.

Place: Parsons-Austin, Texas

Subject: TIM meeting for DY02

Attendees:

Attendee	Organization	Phone
Glaré Sanchez	CSSA ENV	(210)698-5208
Chris Beal	CSSA ENV	(210) 336-1171
Wayne Elliott		
Scott Pearson	Parsons	(512)719-6087
Kimberly Vaughn*	Parsons	(512)719-6816
Julie Burdey	Parsons	(512)719-6062
Brian Vanderglas	Parsons	(512)719-6059
Ken Rice	Parsons	(512)719-6050

*\*Minutes prepared by Kimberly Vaughn, Parsons.*

The agenda for this meeting is presented in Attachment 1. The presentation given at the meeting is presented in Attachment 2.

**GENERAL DISCUSSION**

A general discussion began the meeting with questions on the bioreactor Month 4 report. The DCE reductates are shown as present in sampling. There are concerns that vinyl chloride may be leaving the bioreactor area without being treated. The general discussion concurred that no conclusions can be made until more data is collected. Mr. Vanderglas pointed out that the vinyl chloride is present in the bioreactor but not in the Westbay wells being sampled around the bioreactor. Ms. Sanchez would like to add the locations map back in to the report and would also like the reporting period to be defined in the status report or the operations and maintenance (O&M) plan. Mr. Rice described how the weeks of the month are defined as each reporting period. He will update the rationale to the report and also include it in the UIC report as well.

**Action Item: Clarification of the period covered by each bioreactor report will be included in the appropriate reports.**

**INTRODUCTION**

Ms. Burdey opened the meeting by covering the agenda and the three main topics to be covered. The agenda is included in Attachment 1. To begin, other project status will be discussed.

## OTHER PROJECTS REVIEW

Ms. Vaughn discussed the status of the TO 0008 Air Force Center for Engineering and the Environment (AFCEE) project, Parsons internal job number 743322. The period of performance for this project ends in March 2008. The project is 93% spent and 91% complete. The remaining tasks to be completed include the well installation report and the CSM Update. A discussion of the review by Noblis of the CSM was held. Mr. Beal remembers that comments were received in hard copy and believes they were discussed at a previous meeting. Mr. Beal noted that the comments in general were reviewed and most comments could be responded to by giving additional information on CSSA's background and previous investigations to Noblis. The tentative schedule for the CSM Update draft submittal is the end of November 2007.

**Action Item:** **The Noblis CSM comments should be obtained and incorporated in the CSM Update to be prepared. Follow up: the comments were received by Parsons from Mr. Beal November 5, 2007.**

Ms. Vaughn discussed the status of the TO 207 AFCEE project, Parsons internal job number 745251. The period of performance for this project ends in March 2008. The project is 68% spent and 66% complete. The remaining tasks to be completed are the DMS development for CSSA. An example is pending from CSSA of the format that CSSA wants to be followed. The example should be arriving in mid-November. Ms. Sanchez asked if GIS is included in the DMS development. This SOW includes the DMS only; they are separate preparations. First the DMS should be constructed and then the GIS portions which provide views or figures for the DMS user can be added. There was a discussion of use of a portion of this budget for SCADA by CSSA. There is one USEPA progress report remaining for completion on this project. Additionally, the March 2007 groundwater report and the annual groundwater report for 2006 have been submitted to CSSA for review and are pending completion on this project. The June 2007 groundwater report will be submitted for review next period. LAN support is currently being conducted on this project and will be transferred to another project in December 2007.

**Action Item:** **The version of a DMS that CSSA considers an example format should be provided to Parsons prior to completion of this project.**

## DY01 OVERVIEW

Ms. Burdey provided a review of the DY01 project scoped for CSSA, which totals approximately \$995,000 with the most recent modification. This project is a U.S. Army Corps of Engineers, Fort Worth District project. This project is 12% complete. Items to be completed for 2007 include a Bird Survey Report (a draft has been submitted), the AOC 69 and AOC 73 work plan addenda, the AOC 67 and AOC 68 investigation reports, the Ecological Risk Assessment (ERA) work plan, and the bioaugmentation injection. The I-1 field work is complete on this project and the release investigation report is planned for submittal.

The bioaugmentation injection was discussed, specifically the UT San Antonio strain that has been genetically marked. Bob is working with UTSA on more information about these cultures, which are grown and then mixed with low dissolved oxygen water for injection. If these are unavailable from UTSA, the cultures will need to be purchased from another company (Serum). This would possibly require a tracer study prior to injection due to concerns about indigenous cultures versus imported cultures.

Future discussions are needed to see if about possible changes to the Hazardous Waste Management plan. The Enterprise Management System documentation support is completely signed.

A discussion was held about the possibility of a new method for sampling explosives being used during investigations of the sites at CSSA. Due to work on another Parsons project, Parsons is aware that Greg Lyssy of the EPA is interested in use of a multi-incremental sampling method (8330B) to be used for explosives analyses. With the government and regulators becoming involved in use of this method on other investigations, it is possible that the EPA or TCEQ may propose use of method 8330B for CSSA investigations. Discussion of the various sites to be investigated and the possibility of use of method 8330B for characterization of rock were held. At this point, no plans to change the method usage are recommended, this is only for CSSA's consideration for future regulatory feedback.

## **DY02 OVERVIEW**

Ms. Burdey provided a description of DY02, a project with a period of performance ending in March 2009. This project is a U.S. Army Corps of Engineers, Mobile District project. Items remaining to be completed include the September 2007 groundwater monitoring report, the Groundwater Monitoring Work Plan update, and the Well Installation Plan. SWMU B-3 bioreactor monitoring is due to begin under this project in November 2007. The December 2007 groundwater monitoring event will be conducted under this task order.

The Well Installation Plan was submitted by hand delivery at the meeting today. There was a discussion of the infrastructure connections to be made to the new water well and the electrical connections needed. The proximity of AOC 56 to any required connections was also discussed. The new well installed will be sampled for PCE and TCE as well as other TCEQ-required analytes. Mr. Beal suggested that the sampling be conducted at intervals during pumping to test for the potential to draw contaminants toward the pumping well. It was discussed to use the H&A contract for interval sampling of VOCs throughout the pumping test. This would determine whether movement of VOCs toward the new well location is occurring. During the 36-hour pumping test it was determined that samples could be collected every 12 hours.

The question proposed by Ricky Holt was considered: if the rain events cause high water levels during installation, what occurs at some later date if the well goes dry. Mr. Pearson stated that Mr. Holt can review the rationale that CSSA prepared for the selection of the location of the two test wells. A technical memorandum was prepared for those locations and the reason to select those locations. This memorandum could be submitted to Mr. Holt by Mr. Pearson.

The use of a table disinfection system for the new well was discussed. Henry Dress and PPG are working on the data to submit to the state for approval of the tablet system. TCEQ recently made comments to PPG's study; however, no design for a tablet system has been funded for this well. The funds for the automated tablet system on another task order were not used nor was the design of a tablet system ever funded.

The discussion of the project activity work plan to integrate SCADA and Maximo was discussed. Ms. Sanchez questioned whether Mr. Stimets' hours are needed for integration of those two. The first few months of use will include review and correction, etc.

**Action Item: Send the water supply well technical memorandum for the location of the test wells to Mr. Holt.**

Activities to be conducted in 2008 under this project include the well installations (to begin in January), the quarterly groundwater monitoring to be conducted through December 2008, and the AOC 65 soil vapor extraction (SVE) O&M. The permit related to the AOC 65 SVE system will also need to be updated.

**TO-0006 OVERVIEW**

This period of performance ends March 2008, with the project being 86% complete through September 30th. This is a \$3.5 million project, with approximately \$400,000 remaining. Tasks to be completed include demolition work scheduled for the week of October 21 2007, USA will be pressure washing, grouting and painting. In November the SKID system is to be installed. No design of a tablet system was ever funded; however there are funds for an automated tablet system on SCADA which are unused. Henry and PPG are working on the tablet system study submitted to TCEQ, TCEQ recently made comments to the study.

The Bioreactor (O&M is to be finished October 31 2007. Installation of automation controls is scheduled for November 12 2007 or the week after. Deliverables remaining include draft of EAB Injection Treatability Report, along with MW1 Injection of Lactate Report.

**TO-190 OVERVIEW (SCADA MAXIMO INTEGRATION)**

The period of performance for this project ends March 31, 2008; it is 51% complete. Software has been purchased, but has not been installed. Projects remaining to be completed include the Work Plan and other SCADA deliverables. Tom has not formally commented. Discussions are needed with Scott and the IT Group. There was discussion of the Project Activity work plan to integrate SCADA and Maximo and whether Ms. Sanchez has received that document. There was a discussion of using Mr. Stimets time for the integration. The first few months of use will involve review and correction, etc., of the system. There are demolitions and modifications of buildings consolidated for NRIS, ICRMP. The Quarters 11 letter will be sent.

**TO-0027 OVERVIEW**

The period of performance for this project ends March 31, 2008; it is 95% complete. Projects remaining to be completed include the following: (1) finish out pre-final inspection correction actions, scheduled for completion by October 31, 2007; (2) complete gas meter repair, pending completion of work; (3) provide technical support after government acceptance.

**TO-0011 OVERVIEW**

The period of performance for this project ends December 31, 2007; it is 99% complete. Projects remaining to be completed include the following: (1) finish out pre-final inspection corrective actions, scheduled for completion by October 31, 2007; and (2) update SCADA O&M document and finalize as-built drawings.

**TO-0022 OVERVIEW**

The period of performance for this project ends July 31, 2008; it is 20.5% complete. Approximately \$1.9 million remains for construction. Projects remaining to be completed include the following: (1) finalize procurement process for work; (2) coordinate work with perimeter road construction; (3) carve out segment from scope in W Section to expedite ahead of

perimeter road work; (4) resolve issue with segment on Camp Bullis (finalize REC); and (5) final deliverable will be complete as-built map of CSSA water system. Tom needs to know how far off these projects are. Certain bids are due the first week of November. The first segment will be competitive bids (Alamo and Ramos), hopefully we are to begin construction next week.

## **MISCELLANEOUS**

Another project with H&A was discussed for which Larry is currently working on the contract for sampling. This will also cover LAN and the environmental encyclopedia. Parsons is a subcontractor to H&A as a pass through. Weston needs to be copied on various meetings minutes, and vice versa. There was discussion of the administrative record and it was decided to keep the hard copy updated for now. If the DMS can take the place of the hard copy at some time in the future, it will be discussed again. Ms. Sanchez noted that for the password protected section of the website, she needs to be the email again.

**Action Item    Re send the instructions for the password protected portion of the website.**

The 13<sup>th</sup> of December was discussed for a future regulatory meeting. The schedule will need to include Jorge Salazar and also ECO personnel, along with Kent Rohlof. Will Weston also provide a status update? For B-3 & Eco Risk discussions a site tour of the new investigations and a summary (windshield tour) will be given. We could also tour the SVE (if its running).

Sonny Rayos has raised questions regarding intermittent streams another concern that was passed along to John Wilder. Are these permanent surface water sources on CSSA?

For the transducer repairs that are needed, Mr. Pearson explained that there are 5 miniTrolls and 2 Troll 9000s that should be replaced for good SCADA connection. Mr. Pearson estimates \$1,500 per unit and cabling at a per foot rate. These will need 2500 to 3000 feet of cabling depending on depth – and we could replace 9 for all legacy trolls to be replaced & SCI's labor to reprogram. Ms. Sanchez would like to get estimates for the equipment, and then plan the labor.

The waterline new road paving was discussed, and the future waterline connection. There will be a modification required to be the waterline across first.

There was discussion of a Camp Bullis meeting to be held October 25th. There will be a discussion prior to the meeting about different processes used to evaluate Camp Bullis. Archaeological. The waterline route options at Camp Bullis/East Pasture area, and a potential loop to avoid dead water zones and/or a chlorine booster for the dead end, etc., were discussed.

For the AST reconstruction Mr. Vandeglas plans to talk to Tom tomorrow there is concern for erosion along ditch for new slab. Teresa has spoken to the Camp Bullis fire chief to review the AST location.

Bob feels there's another site (another trench) that could be investigated adjacent to B-3 trenches? Bob wants a new production well. Near B-3?

The meeting was adjourned.

**Attachment 1, Agenda**

**PARSONS**  
**8000 Centre Park Drive, Suite 200**  
**Austin, TX 78754**

***Agenda for CSSA Meeting***

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**Time:** Wednesday, October 24, 2007 10:00 am to 04:00 pm

**Place:** Parsons, 8000 Centre Park Drive, Austin, TX, 2<sup>nd</sup> Floor Conference Room

**Proposed Order of Discussion**

Date & Time	Topic
10:00 am - 11:00 am	<p>PROJECT STATUS:</p> <ul style="list-style-type: none"><li>➤ DY01</li><li>➤ DY02</li><li>➤ Other Projects (TO98 Hankins and Anderson)</li><li>➤ TO008</li><li>➤ TO207</li><li>➤ TO0006</li><li>➤ SCADA TOs (TO0190, TO0027, TO0011)</li><li>➤ TO22 (waterline)</li></ul>
11:00 am – 12:00 pm	<p>OTHER ISSUES:</p> <ul style="list-style-type: none"><li>➤ Use of Groove</li><li>➤ Document Reviews</li><li>➤ Encyclopedia Updates (continue hard copy?)</li><li>➤ Next Regulator Meeting (date and topics)</li><li>➤ Transducer Repairs</li><li>➤ Website – Password protection</li><li>➤ Coordination with Perimeter Road (TO0002)</li><li>➤ Restart SVE at AOC-65</li><li>➤ AST and WWTP Upgrade Construction</li></ul>
12:00 pm – 1:00 pm	LUNCH
1:00 pm – 4:00 pm	<p>3-YEAR PLAN UPDATE</p> <ul style="list-style-type: none"><li>➤ LTMO Review and Update</li><li>➤ Compliance Needs (plan updates, bird surveys, etc.)</li><li>➤ Monitoring (GW, B-3, AOC-65)</li><li>➤ SWMUs and AOCs</li><li>➤ Bioreactor O&amp;M Plan Updates</li></ul>

**Attachment 2:**

**Sign-in Sheet**



**Attachment 3:**

**Slide Presentation**



# CSSA Meeting

October 24, 2007

PARSONS

Austin, TX

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# Agenda

- Project Status
- Other Issues
- Lunch
- 3-Year Plan

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# PROJECT STATUS

- **TO0008**
- **TO207**
- **DY01**
- **DY02**
- **TO0006**
- **SCADA TOs (TO0190, TO27, TO11)**
- **TO0022 (Waterline)**

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## TO0008 Overview

- Period of performance ends March 2008
- 93% spent; 91% complete
- To be completed:
  - Well Installation Reporting
    - Draft to be submitted end of October
  - CSM Update
    - Draft to be submitted end of November

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## TO207 Overview

- Period of performance ends March 2008
- 62% spent; 66% complete
- To be completed:
  - DMS Development
    - Meeting scheduled?
    - DMS example version?
  - LAN support
  - USEPA Progress Reports
  - Groundwater Reports

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## DY01 Overview

- Period of Performance ends Dec 2008
- 12.1% Complete
- To be completed:
  - 2007
    - Bird Survey Report
    - AOC-69 and AOC-73 Work Plan Addendum
    - AOC-67 and AOC-68 Investigation/RIR
    - Ecological Risk Assessment Work Plan
    - Bioaugmentation Injection
  - First Quarter 2008
    - Ecological Risk Assessment
    - North Pasture Investigation
    - AOC-69 and AOC-73 Investigation
  - TBD
    - Hazardous Waste Mgmt Plan
    - EMS Documentation Support

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## DY02 Overview

- Period of Performance ends March 2009
- To be completed:
  - 2007
    - September 2007 Quarterly Monitoring Report
    - Groundwater Monitoring Plan Update
    - Well Installation Plan
    - B-3 Bioreactor Monitoring (starting November)
    - December 2007 Groundwater Monitoring Event
  - 2008
    - Well Installation (start drilling January)
    - Quarterly Groundwater Monitoring
    - AOC-65 SVE O&M

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## TO-0006 Overview

- Period of performance ends March 2008
- 86% spent; 86% complete (thru 9/30)
- To be completed:
  - Outfall Reuse (WWTP tablet system)
    - Construction scheduled for 1<sup>st</sup> week in Nov.
  - AST Upgrade Construction
    - Finalize location, schedule construction
  - SVE Expansion at AOC-65
  - Bioreactor O&M
    - Install automation controls
    - 6 months of O&M sampling complete
    - 2 months of O&M reporting remain
  - Deliverables remaining
    - Finalize Bioreactor O&M Plan
    - Draft SVE O&M Report
    - Draft EAB Injection Treatability Report
    - Draft Removal Action Report

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## TO-0190 Overview (SCADA-Maximo Integration)

- Period of performance ends March 31, 2008
- 51% complete
- To be completed:
  - Finalize Project Activities Work Plan and all other SCADA deliverables
  - Matrikon visit to install CBM-Max in early December
    - Includes training
  - Provide Technical Support after CBM-Max is installed
    - Transitional operations, customization, etc.

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## TO-27 Overview (SCADA Construction/Integration)

- Period of performance ends March 31, 2008
- 95% complete
- To be completed:
  - Finish out pre-final inspection corrective actions
    - Scheduled for completion by October 31
  - Complete gas meter repair
    - Pending completion of work
  - Provide Technical Support after government acceptance.
    - Transitional operations, customization, etc.

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## TO-11 Overview (SCADA construction/Integration)

- Period of performance ends December 31, 2007
- 99% complete, 99% expended.
- To be completed:
  - Finish out pre-final inspection corrective actions
    - Scheduled for completion by October 31
  - Deliverables remaining
    - Update SCADA O&M document and finalize as-built drawings

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## TO-0022 Overview (Waterline Construction)

- Period of performance ends July 31, 2008
- 20.5% complete, approximately \$1.9M remains for construction
- To be completed:
  - Finalize procurement process for work
  - Coordinate work with perimeter road construction
  - Carve out segment from scope in W Section to expedite ahead of perimeter road work
  - Resolve issue with segment on Camp Bullis (finalize REC)
  - Final deliverable will be complete as-built map of CSSA water system

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## OTHER ISSUES

- **Use of Groove**
- **Document Reviews**
- **Encyclopedia Updates (continue hard copy?)**
- **Website—Password Protection**
- **Next Regulator Meeting (date and topics)**
- **Transducer Repairs**
- **FED EX Government Rate**
- **Coordination with Perimeter Road (TO0002)**
- **Restart SVE at AOC-65**
- **AST and WWTP Upgrade Construction**
- **Waterline – Camp Bullis Meeting**

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## OTHER ISSUES

Groundwater Level Monitoring  
With Transducers

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## Current Conditions

- 18 legacy units are deployed at CSSA  
(10 *miniTroll* and 8 *Troll 9000*)
- 15 new generation LevelTrolls are deployed at CSSA
- 7 of the 9 legacy units are not communicating with the SCADA system
- In-Situ is discontinuing support of *miniTroll* line of products

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CSSA Transducer Network (Non-SCADA Locations)

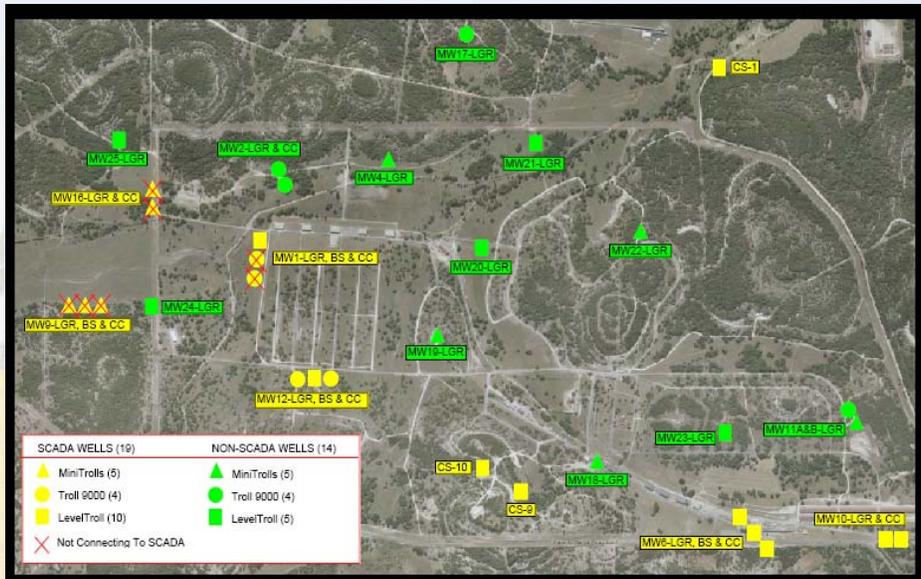
Transducer Model:	PSI	Location:	Date	Origin
Troll 9000	100	CS-MW2-LGR	February - April 2004	TO 42 - Parsons/CSSA
Troll 9000	300	CS-MW2-CC	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	100	CS-MW4-LGR	February - April 2004	TO 42 - Parsons/CSSA
Troll 9000	300	CS-MW11A-LGR	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	100	CS-MW11B-LGR	February - April 2004	TO 42 - Parsons/CSSA
Troll 9000	300	CS-MW17-LGR	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	100	CS-MW18-LGR	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	100	CS-MW19-LGR	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 500	100	CS-MW20-LGR	March 2007	TO 8 - Parsons/CSSA
Level Troll 500	100	CS-MW21-LGR	March 2007	TO 8 - Parsons/CSSA
Mini Troll	300	CS-MW22-LGR	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 500	300	CS-MW23-LGR	March 2007	TO 8 - Parsons/CSSA
Level Troll 500	100	CS-MW24-LGR	March 2007	TO 8 - Parsons/CSSA
Level Troll 500	300	CS-MW25-LGR	March 2007	TO 8 - Parsons/CSSA

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### CSSA Transducer Network (SCADA Locations)

Transducer Model:	PSI	Location:	Date	Origin
<b>Monitoring Wells Connected to SCADA</b>				
Troll 9000	100	CS-MW1-LGR	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 700	300	CS-MW1-BS	March 2007	SCADA - Parsons/SCI
Troll 9000	300	CS-MW1-CC	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 700	100	CS-MW6-LGR	March 2007	SCADA - Parsons/SCI
Level Troll 700	300	CS-MW6-BS	March 2007	SCADA - Parsons/SCI
Level Troll 700	300	CS-MW6-CC	March 2007	SCADA - Parsons/SCI
Mini Troll	300	CS-MW9-LGR	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	300	CS-MW9-BS	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	300	CS-MW9-CC	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 700	100	CS-MW10-LGR	March 2007	SCADA - Parsons/SCI
Level Troll 700	300	CS-MW10-CC	March 2007	SCADA - Parsons/SCI
Troll 9000	100	CS-MW12-LGR	February - April 2004	TO 42 - Parsons/CSSA
Level Troll 700	300	CS-MW12-BS	March 2007	SCADA - Parsons/SCI
Troll 9000	300	CS-MW12-CC	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	100	CS-MW16-LGR	February - April 2004	TO 42 - Parsons/CSSA
Mini Troll	300	CS-MW16-CC	February - April 2004	TO 42 - Parsons/CSSA
<b>Supply Wells Connected to SCADA</b>				
Level Troll 500	300	CS-1	March 2007	TO 8 - Parsons/CSSA
Level Troll 500	300	CS-9	June 2007	TO 8 - Parsons/CSSA
Level Troll 500	300	CS-10	June 2007	TO 8 - Parsons/CSSA

### CSSA Transducer Network Featuring SCADA Connectivity



## Recommendations

- Replace the 9 legacy SCADA locations with LevelTroll units
- 5 LevelTrolls are currently in use at CSSA and potentially available to relocate to SCADA well locations
- Return legacy equipment to manufacturer for a 10-15% discount on new LevelTroll purchases, or
- Re-distribute legacy equipment fleet throughout the monitoring well network

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## Recommendations

- Consider integrating B-3 Bioreactor operations into the SCADA system
- Purchase 6 new Troll 9500 with DO and Level for Bioreactor (1 per trench)

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## 3-Year Plan Update

- **LTMO Review and Update**
- **Compliance Needs (plan updates, bird surveys, etc.)**
- **Monitoring (GW, B-3, AOC-65)**
- **SWMUs and AOCs**
- **Bioreactor O&M Plan Updates**