

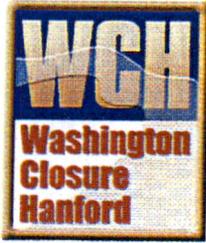
0094055

FINAL REPORT

CONSTRUCTION QUALITY ASSURANCE (CQA)

SECTION

15 OF 20



FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE (CQA)
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF)
SUPER CELLS 9 & 10
SUBCONTRACT S013213A00
010.032-00-ROB

APPENDIX L.

ACCEPTANCE TEST PROCEDURES (ATPs) DOCUMENTATION

**ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
ERDF CELL 9**

**HANFORD SITE
RICHLAND, WASHINGTON**

ACCEPTANCE TEST PLAN

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ACCEPTANCE TEST PLAN

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY

PURPOSE OF THE ACCEPTANCE TEST

This acceptance test plan (ATP) has been prepared to establish field testing activities to demonstrate that the Electrical/Instrumentation and Piping/Mechanical systems for the Disposal Trench and Support Facilities function as intended by the design.

1.0 REFERENCE DRAWINGS AND SPECIFICATIONS

1.1 DRAWINGS – SEE EXHIBIT F

1.2 SPECIFICATIONS

<u>Specification Number</u>	<u>Specification Title</u>
0600X-SP-G0048	Quality Control Requirements
0600X-SP-G0038	Supplier Quality Assurance Program Requirements
0600X-SP-A0025	Coatings & Finishes
0600X-SP-C0076	Cell Construction - Admix Layer
0600X-SP-C0077	Cell Construction - Geosynthetics
0600X-SP-C0078	Cell Construction - Leachate Collection Systems and Lysimeters
0600X-SP-C0079	Reinforced Concrete
0600X-SP-C0080	The Crest Pad Building
0600X-SP-C0075	Site Work
0600X-SP-C0081	Metal Structures
0600X-SP-E0025	Electrical Work
0600X-SP-M0032	Pipe, Valves & Specials
0600X-SP-M0033	Leachate Pumps

2.0 RESPONSIBILITIES

Each company or organization participating in performance of this ATP will designate personnel to assume the responsibilities and duties as defined herein for their respective roles. The names of these designees shall be provided to the Recorder for listing on the Recorder's copy of the Test Execution Sheet prior to the performance of any part of this ATP.

2.1 (CONTRACTOR) WASHINGTON CLOSURE HANFORD (WCH)

- Designate a Test Director.
- Act as liaison between the participants in acceptance testing.
- Establish and distribute the testing schedule.
- Schedule and conduct a pre-ATP meeting with test participants prior to start of testing.
- Notify all persons performing and witnessing the test prior to the start of testing.
- Notify all concerned parties when a change is made in the testing schedule.
- Sign Test Execution Sheet when ATP is approved and accepted.
- Take necessary action to clear exceptions to the ATP.
- Sign Exception Sheet when exception has been resolved.
- Provide a distribution list for the approved and accepted ATP.

2.2 TEST DIRECTOR

- Coordinate acceptance testing.
- Distribute documents including completed ATP, exceptions, resolutions and approvals.
- Confirm that field testing and inspection of the system or portion of the system to be tested has been completed.
- Stop any test which, in the judgment of the Director, may cause damage to the system until the test plan has been revised.
- Obtain revisions to the ATP, as necessary, to comply with authorized field changes or to accommodate existing field conditions.
- Evaluate recorded data, discrepancies, and exceptions.
- Obtain from the CONTRACTOR any information related to this ATP or changes necessary to clear or resolve objections.
- Sign Test Execution Sheet when ATP has been completed.
- Sign Exception Sheet when retest has been executed and accepted.

2.3 WITNESSES

Witnesses shall be provided as directed by the CONTRACTOR.

- Witness the tests.
- Evaluate results of testing.
- Assist the Test Director when requested.
- Sign Test Execution Sheet as a Witness.
- Sign Exception Sheet as a Witness when retest has been executed and accepted.

2.4 RECORDER

The Recorder will be provided by the WCH subcontracted Quality Assurance Engineer.

- Prepare Test Data Forms to record ATP data and observations (see Attachments A and B).
- Record names of all designated personnel on Recorder's copy of ATP prior to start of testing.
- Read the tasks on the Test Execution Form to the Test Director.
- Observe tests and record test data.
- Sign the Test Execution Sheet as the Recorder.
- On the Exception Sheet, record objections or exceptions and test activities which are not performed.
- Orally notify the Test Director at the time an objection is made.
- Assign page numbers to all test data sheets and Exception Sheets, after ATP is complete. Submit the completed ATP documents to the CONTRACTOR.

2.5 CONSTRUCTION SUBCONTRACTOR

- Assist the Test Director in the performance of this test.
- Confirm that all equipment required for performing this test will be available at the start of testing.

- Provide equipment required for performing this acceptance test, unless designated by these plans as being supplied by others.
- Provide lock and tag materials and personnel to perform ATP.
- Request in writing from the CONTRACTOR those services, materials, or equipment that have been designated as being supplied by the CONTRACTOR or others.
- Sign the Test Execution Sheet when the ATP has been completed.
- Sign the Exception Sheet when the retest has been completed and accepted.

2.6 OCCUPATIONAL SAFETY AND HEALTH

Individuals shall carry out their assigned work in a safe manner to protect themselves and others from undue hazards and to prevent damage to property and environment. Performance of test activities shall always include safety and health aspects as delineated in the most current version of the Federal Occupational Safety and Health Administration/Washington Industrial Safety and Health Act (OSHA/WISHA) safety health codes and standards.

3.0 COMMUNICATION

3.1 DIRECT COMMUNICATIONS

Direct communication between the Test Director and the Recorder for test configuration and test performance shall follow the method listed below to ensure proper performance of the test, and verification of the test results:

1. Recorder notifies the Test Director of the task by reading the task as written in the "Test Execution Form" including the line number
2. The Test Director repeats the direction and performs the task as directed. If the Test Director misunderstands the direction as evidenced in an incorrect repeat back, the Recorder will stop the task and repeat the direction to the Test Director.
3. The Recorder confirms the task is complete
4. The Recorder logs the results into ATP forms

Information or Verification steps shall follow the method listed below:

1. The Recorder requests the information from the Test Director
2. The Test Director repeats back the request adding the information requested or adding "Verified" or "Confirmed" as appropriate to the request.

Example Recorder: "Line 96, on the 'Trench Pump Control Panel', Initial 'Primary Sump Level' reading"

Test Director: "On the 'Trench Pump Control Panel', Initial 'Primary Sump Level' reading is 1.2 feet"

OR Recorder: "Line 121, Verify the 'Pump 1 Failure' indicator light is off"

Test Director: "Pump 1 failure indicator light is off, verified"

3. The Recorder logs the results into the ATP forms

3.2 REMOTE COMMUNICATIONS

Remote communications by radio or phone shall follow the method listed below to ensure proper performance of the test, and verification of the test results:

1. Recorder notifies the Test Director of the task by reading the task as written in the "Test Execution Form" including the line number
2. The Test Director communicates the task to the Construction Subcontractor, who is performing or verifying this portion of the test.
3. The Construction Subcontractor repeats back the task and performs the task or verifies the status as requested.
4. The Construction Subcontractor notifies the Test Director of the completion of the task as necessary.

4.0 ACCEPTANCE TEST PLAN CHANGE CONTROL

Acceptance testing shall be conducted in accordance with the steps and requirements specified in this plan. Any required changes must be authorized in accordance with approved change control plans for this project and promptly accomplished. Plan changes during testing must be approved by the CONTRACTOR, quality assurance, and the subcontracted quality assurance engineer (via initials). The recorder shall note these changes as exceptions (see Section 5.2), provided that these changes do not affect safety and health. The changes shall be noted in the final acceptance test report.

5.0 RECORDING AND RESOLVING EXCEPTIONS

5.1 GENERAL

Exceptions to the ATP are sequentially numbered and recorded on individual Exception Sheets. This enables case-by-case resolution, recording, approval, and distribution of each exception.

5.2 RECORDING

- Number each exception sequentially as it occurs and record it on an Exception Sheet.
- Enter name and organization of objecting party for each exception.
- Describe the exception.
- Record the action taken to resolve each exception. Include test results as applicable. Repeat the process as necessary until exception has been resolved.

- When action taken results in an acceptable retest, sign and date the Exception Sheet.

6.0 TEST CONDITIONS AND EQUIPMENT REQUIRED

6.1 GENERAL

The following conditions shall exist at the start of the acceptance testing for that portion of the system being tested.

- Systems being tested have been inspected for workmanship and for compliance with design.
- Continuity tests have been performed on portions of the electrical system being tested.
- Power is available to components of systems being tested.
- Continuity tests of instrumentation wiring have been performed in accordance with the latest revision of the construction Specifications.
- All test instruments have a valid calibration stamp attached that indicates a calibration traceable to the National Institute of Standards and Technology.
- Personnel responsible for directing, witnessing and performing the tests described in this ATP are familiar with the equipment to be tested, have reviewed the vendor information pertaining to the operation of the equipment, and are familiar with the requirements of this acceptance test plan.
- Values used to simulate process inputs (such as water levels D1, D2, D3, D4, etc. - See Figure 1) and alarm conditions for execution of ATP have been provided.

6.2 EQUIPMENT REQUIRED

The Construction SUBCONTRACTOR shall supply all test equipment unless otherwise noted. Test equipment shall include electrical equipment, pressure gages, tapes or rods, and other measuring apparatus to perform the acceptance tests. Test equipment shall have suitable range and accuracy for the parameter being measured. All ancillary equipment such as jumpers, valves, piping, and similar items shall also be provided by the Construction SUBCONTRACTOR. All test equipment shall be approved by the Test Director prior to use.

7.0 TRANSDUCERS AND METER/CONTROLLERS IN LANDFILL SUMPS

This Acceptance Test will demonstrate the correct functioning of the level transducers and the associated meter/controllers. See Figure 1 for definitions of water levels and associated pumps and relays. Verify that the level transducers have been calibrated prior to installation.

- Pump the primary sump to below the low water level D1, Remove power to the pump in the sumps by opening the associated circuit breakers.
- Verify that the relays associated with the high water levels (D2 and D4) in the primary sump are “off” (de-energized) and the relay associated with the low water levels (D1 and D3) in the primary sump are “on” (energized).
- Add water in increments as directed by the Test Director to primary sump via the slope riser pipe. Record the volume of water added to the sump. Wait 2 minutes after each increment of water, and record the primary sump level meter reading. Verify that the primary sump level meter reading increases as water is added.
- Continue adding water in increments and observe that the low water level relay is de-energized when the level is above D1 (low capacity pumps – Pumps 2 and 3) and D3 (high capacity pumps – Pump 1) and that the high water level relay is energized when the level is above D2 (low capacity pumps – Pumps 2 and 3) and D4 (high capacity pumps – Pump 1) .

8.0 LEACHATE PUMP TESTS

This Acceptance Test will demonstrate the correct functioning of the high capacity (Pump 1) and low capacity (Pumps 2 and 3) leachate pumps and associated controls. See Figure 1 for definitions of water levels and associated pumps. For each of the leachate pumps, measure the phase currents prior to beginning pumping tests. Record this information on the top of the appropriate test data forms. Verify that motor overload devices are sized correctly.

8.1 CONDITIONS FOR PUMP TESTS

Prior to testing pumps, verify that the relay associated with the high water levels for the leachate storage tanks is de-energized, that the valves in the manholes for the leachate piping system are open, and that any water in the manholes is below the flood switches.

This testing should begin with water in the primary sump above level D4 and above DS-2 in the secondary sump. Verify the following conditions on the control panel:

- High water level relays are energized.
- Low water level relays are de-energized.
- Pump failure lights for the primary low capacity and high capacity submersible pumps are on.
- The roof alarm light is on.

- The panel lights associated with the high water relays are on, and the panel lights associated with the low water relays are off.

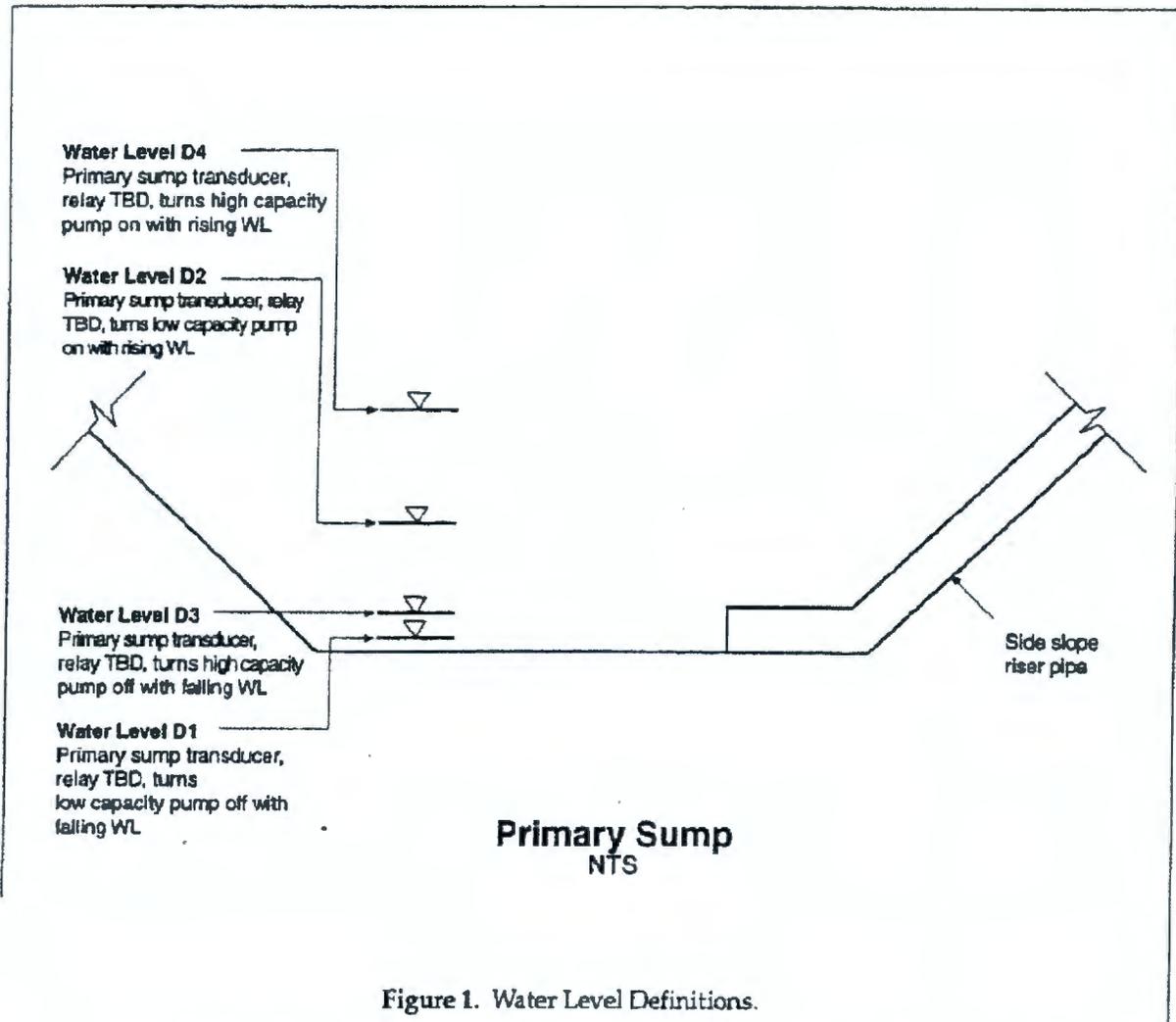


Figure 1. Water Level Definitions.

Secondary Sump: DS-1 (same as Water Level D1 on Figure 1), DS-2 (same as Water Level D2 on Figure 1)

8.2 LEACHATE PUMPS

Demonstrate that the pumps meet the operational criteria listed:

- Turn the switch for the low capacity pump to the “hand” position. Verify by observation (sight, sound, pipe vibrations, and/or transducer readings) that water is being pumped from the sump, and verify that the associated “pump run” light is on.
- Turn the switch for the high capacity pump to the “hand” position. Verify by observation (sight, sound, pipe vibrations, and/or transducer readings) that water is being pumped from the sump, and verify that the associated “pump run” light is on.

- Turn the primary leachate pump switches on the motor controller to “automatic” position.
- Verify that the low capacity pump starts automatically and that the pump run light is on. Verify by observation that water is being pumped from the sump. Allow the pump to continue running in the “automatic” mode.
- Verify that the high capacity pump starts automatically and that the pump run light is on. Verify by observation that water is being pumped from the sump. Continue pumping the high capacity pump in the automatic mode.
- While the pumps are running, simulate a high water level in the storage tanks. Verify that the pumps are automatically stopped and that the roof alarm is initiated.
- Verify that when the water level in the sump reaches level D3 (Primary Sump) the high capacity pump (PUMP 1) automatically shuts off.
- Verify that when the water level in the sump reaches level D1 (Primary Sump) or DS-1 (Secondary Sump) the low capacity pumps (PUMP 2 and 3) automatically shut off.

9.0 LEACHATE TRANSFER SYSTEM

9.1 MANHOLE FLOOD ALARMS

Demonstrate that when activated, the alarm switch in MH-32 will shut-off the pumps in the Cell 9 crest pad building.

Verify that the flood switches in Manholes 34, 35, 36, 37, 38, and 39 send the “pump shut off” signal when activated.

ATTACHMENT A
EXCEPTION FORM

EXCEPTION FORM

EXCEPTION NUMBER. _____ SHEET _____ OF _____

DATE _____

EXCEPTIONS BY:

NAME _____

ORGANIZATION _____

DESCRIPTION: _____

ACTION TAKEN: _____

APPROVED:

WCH Construction Manager

Date

Test Director

Date

Witness Name / Organization

Date

Witness Name / Organization

Date

Construction Subcontractor / Organization

Date

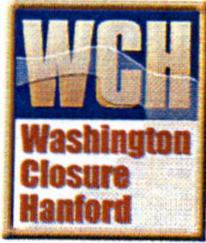
Other / Organization

Date

Recorder / Organization

Date

ATTACHMENT B
TEST EXECUTION FORM



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L.1

2-HOUR PUMP TEST

Leachate Pump Test Report

DELHUR INDUSTRIES

Job Number: ERDF CELLS 9+10 Test # 1

Piping System: CP 9 SECONDARY PUMP Pump No. 2-P-34 (PUMP 3)

Pump Rate: 15 gpm

Reason For Test: New pump installation

Starting Flow Rate: 20 gpm Time: 12:00

Finish Flow Rate: 20 gpm Time: 2:00 Pass/Fail: PASS

Pass Criteria: Maintain flow rate as specified in 0600X-SP-MOO33, 2.2.2-2.2.3

Comments: _____

Test Witnessed and Accepted By:

<u>John White</u>	<u>10-4-10</u>
	Date
<u>J. E. V.</u>	<u>10/4/10</u>
	Date
_____	_____
	Date
_____	_____
	Date

Leachate Pump Test Report

DELHUR INDUSTRIES

Job Number: ERDF cells 9 & 10 Test # 3

Piping System: Cell 9 Low Capacity Primary Pump No. 2

Pump Rate: 19 gpm

Reason For Test: New pump installation

Starting Flow Rate: 19 gpm Time: 6:30 A.M.

Finish Flow Rate: 19 gpm Time: 8:30 A.M. Pass/Fail: Pass

Pass Criteria: Maintain flow rate as specified in 0600X-SP-MOO33, 2.2.2-2.2.3

Comments: _____

Test Witnessed and Accepted By:

<u>[Signature]</u>	<u>DHI</u>	<u>12-9-10</u>
		Date
<u>[Signature]</u>	<u>CQA</u>	<u>12-9-10</u>
		Date
_____		Date
_____		Date

Leachate Pump Test Report

DELHUR INDUSTRIES

Job Number: ERDF Cells 9 & 10 Test # 4

Piping System: Cell 9 High Capacity Primary Pump No. 1

Pump Rate: 159 gpm

Reason For Test: New pump installation

Starting Flow Rate: 159 gpm Time: 8:30 AM

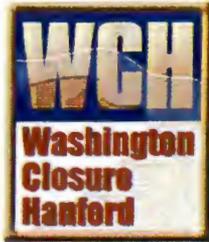
Finish Flow Rate: 159 gpm Time: 10:30 AM Pass/Fail: Pass

Pass Criteria: Maintain flow rate as specified in 0600X-SP-MOO33, 2.2.2-2.2.3

Comments: _____

Test Witnessed and Accepted By:

<u>[Signature]</u>	<u>DHI</u>	<u>12-9-10</u>
		Date
<u>[Signature]</u>	<u>CQA</u>	<u>12-9-10</u>
		Date
_____		Date
_____		Date



FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE (CQA)
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SUBCONTRACT S013213A00
010.032-00-ROB

L.2

ACCEPTANCE TEST PROCEDURES (ATPs) "DRY-RUN"

.ine No.	Activity	Documented By	Completed Date
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Notes:

- In the interest of continuation of testing, portions of this plan may be redlined and initialed in the field during testing with concurrence from the Test Director.

Note: All pump levels were simulated

- Referenced status lights, switches, level indicators, meter readouts, and indicator lights are located in the Crest Pad Building except as indicated by [location]

Prerequisites:

- The system to be tested has been inspected for workmanship and compliance with design
- Continuity tests have been performed on the electrical wiring of the systems
- Continuity tests have been performed on the instrumentation wiring of the systems
- Motor overload devices are sized (or set) correctly based on motor nameplate data
- Power is available
- Safety requirements have been implemented in accordance with the HASP
- A dry run of this test has been completed to demonstrate the system operates as specified
- Configure valves to route pump discharge through the bypass pipeline

JSL	12/12/10
N/A	N/A
N/A	N/A
JSL	12/15/10
JSL	12/15/10
JSL	12/15/10
In Progress	
JSL	12/13/10

SUBCONTRACTOR furnished Testing Equipment:

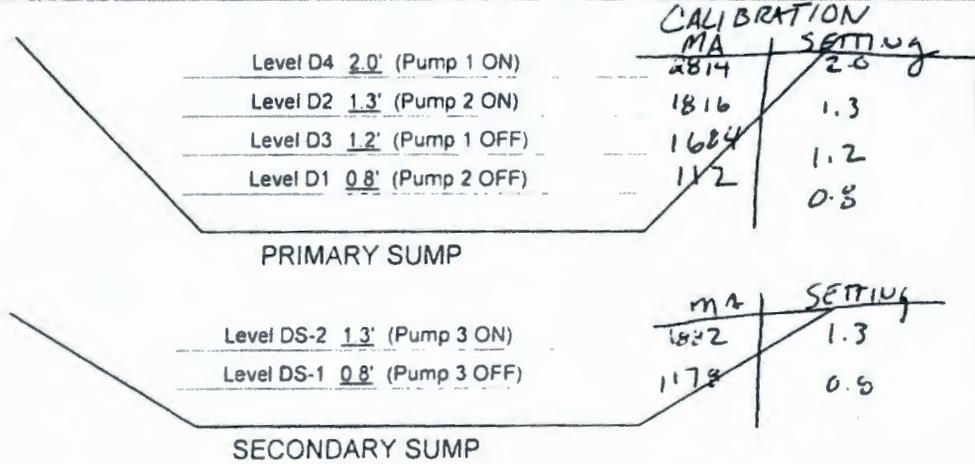
Flow Meter/Totalizer for measuring water added by SUBCONTRACTOR to the Sumps

Meter Manufacturer/Model:	N/A
Calibration Expiration Date:	N/A
ID No.	N/A

Volt/Current Meter:

Meter Manufacturer/Model:	N/A
Calibration Expiration Date:	N/A
ID No.	N/A

Verify that the sump transducers levels are set to the following levels:



JSL	12/14/10
JSL	12/13/10

On the "FLOW TRANSMITTER PANEL":

Initial "PUMP 1" flow meter totalizer reading (gallons)	12705.4
Initial "PUMP 2" flow meter totalizer reading (gallons)	3579.7

JSL	12/13/10
JSL	12/13/10

ine lo.	Activity	Documented By	Completed Date
	Initial "PUMP 3" flow meter totalizer reading (gallons)	JSW	12/13/10
	Primary Sump level is pumped to less 0.8' level	JSW	12/13/10
	Secondary Sump level is pumped to less 0.8' level	JSW	12/14/10
	Configure the Control System for the test:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	JSW	12/13/10
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	JSW	12/13/10
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	JSW	12/13/10
	Switch the roof "ROOF ALARM HAND-OFF-AUTO" switch to the "AUTO" position	JSW	12/13/10
	Switch the "CONTROL POWER ON/OFF" switch to the "ON" position	JSW	12/13/10
	Verify the "PUMP 1 FAILURE" indicator light is off	JSW	12/13/10
	Verify the "PUMP 1 LOW/OFF" indicator light is on (sump level is < 1.2')	JSW	12/13/10
	Verify the "PUMP 1 HIGH/START" indicator light is off	JSW	12/13/10
	Verify the "PUMP 1 RUN" indicator light is off	JSW	12/13/10
	Verify the "PUMP 2 FAILURE" indicator light is off	JSW	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is on (sump level is < 0.8')	JSW	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is off	JSW	12/13/10
	Verify the "PUMP 2 RUN" indicator light is off	JSW	12/13/10
	Verify the "PUMP 3 FAILURE" indicator light is off	JSW	12/13/10
	Verify the "PUMP 3 LOW/OFF" indicator light is on (if sump level is < 0.8')	JSW	12/13/10
	Verify the "PUMP 3 HIGH/START" indicator light is off	JSW	12/13/10
	Verify the "PUMP 3 RUN" indicator light is off	JSW	12/13/10
	Verify the "TANK HIGH" indicator light is off	JSW	12/13/10
	Verify the "ALARM" indicator light is off	JSW	12/13/10
	<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	JSW	12/13/10
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	JSW	12/13/10
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	JSW	12/13/10
	<u>In the Crest Pad Building Mechanical Room:</u>		
	Switch the PUMP 1 disconnect switch to the "ON" position	JSW	12/13/10
	Switch the PUMP 2 disconnect switch to the "ON" position	JSW	12/13/10
	Switch the PUMP 3 disconnect switch to the "ON" position	JSW	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify there is not a PUMP 1 fail alarm	N/A	N/A
	Verify PUMP 1 is not running (motor is red)	N/A	N/A

Activity	Documented By	Completed Date
Verify there is not a PUMP 2 fail alarm	N/A	N/A
Verify PUMP 2 is not running (motor is red)	N/A	N/A
Verify there is not a PUMP 3 fail alarm	N/A	N/A
Verify PUMP 3 is not running (motor is red)	N/A	N/A
DEMONSTRATE SYSTEM OPERATION AT EACH "PRIMARY SUMP" LEVEL:		
Fill Primary Sump to Water Level D1:		
On the "TRENCH PUMP CONTROL PANEL":		
Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>0.79</u>	<u>AJU</u>	<u>12/13/10</u>
On SUBCONTRACTOR provided test Equipment:		
Initial flow totalizer reading (gallons) <u>N/A</u>	<u>AJU</u>	<u>N/A</u>
On the Leachate System Control Computer in [MO-481]:		
Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>N/A</u>	<u>AJU</u>	<u>N/A</u>
Add water to the primary sump until the "PRIMARY SUMP LEVEL" is above the D1 (0.8') level and below the D3 (1.2') level	<u>AJU</u>	<u>12/13/10</u>
On the "TRENCH PUMP CONTROL PANEL":		
Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.09</u>	<u>AJU</u>	<u>12/13/10</u>
On SUBCONTRACTOR provided test Equipment:		
Final flow totalizer reading (gallons) <u>N/A</u> Total added (gallons): <u>N/A</u>	<u>AJU</u>	<u>N/A</u>
On the Leachate System Control Computer in [MO-481]:		
Final "PRIMARY SUMP LEVEL" reading (Feet) <u>N/A</u>	<u>AJU</u>	<u>N/A</u>
Verify PUMP 1 Operation:		
On the "TRENCH PUMP CONTROL PANEL":		
Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	<u>AJU</u>	<u>12/13/10</u>
Verify that "PUMP 1" does not start	<u>AJU</u>	<u>12/13/10</u>
Verify the "PUMP 1 FAILURE" indicator light is off	<u>AJU</u>	<u>12/13/10</u>
Verify the "PUMP 1 LOW/OFF" indicator light is on	<u>AJU</u>	<u>12/13/10</u>
Verify the "PUMP 1 HIGH/START" indicator light is off	<u>AJU</u>	<u>12/13/10</u>
Verify the "PUMP 1 RUN" indicator light is off	<u>AJU</u>	<u>12/13/10</u>
On the Leachate System Control Computer in [MO-481]:		
Verify there is not a PUMP 1 fail alarm	<u>N/A</u>	<u>N/A</u>
Verify PUMP 1 is not running (motor is red)	<u>N/A</u>	<u>N/A</u>
On the "TRENCH PUMP CONTROL PANEL":		

.ine No.	Activity	Documented By	Completed Date
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	AJW	12/3/10
	Verify PUMP 2 Operation:		
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	AJW	12/13/10
	Verify that "PUMP 2" does not start	AJW	12/13/10
	Verify the "PUMP 2 FAILURE" indicator light is off	AJW	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is off	AJW	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is off	AJW	12/13/10
	Verify the "PUMP 2 RUN" indicator light is off	AJW	12/13/10
	On the Leachate System Control Computer in [MO-481]:		
	Verify there is not a PUMP 2 fail alarm	N/A	N/A
	Verify PUMP 2 is not running (motor is red)	N/A	N/A
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	AJW	12/13/10
	Fill Primary Sump to Water Level D3:		
	On the "TRENCH PUMP CONTROL PANEL":		
	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.09</u>	AJW	12/17/10
	On SUBCONTRACTOR provided test Equipment:		
	Initial flow totalizer reading (gallons) <u>N/A</u>	N/A	N/A
	On the Leachate System Control Computer in [MO-481]:		
	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>N/A</u>	N/A	N/A
	Add water to the primary sump until the "PRIMARY SUMP LEVEL" is above the D3 (1.2') level and below the D2 (1.3') level.	AJW	12/18/10
	On the "TRENCH PUMP CONTROL PANEL":		
	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.28</u>	AJW	12/18/10
	On SUBCONTRACTOR provided test Equipment:		
	Final flow totalizer reading (gallons) <u>N/A</u>	N/A	N/A
	Total added (gallons) <u>N/A</u>	N/A	N/A
	On the Leachate System Control Computer in [MO-481]:		
	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>N/A</u>	N/A	N/A
	Verify PUMP 1 Operation:		
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	AJW	12/13/10
	Verify that "PUMP 1" does not start	AJW	12/13/10

Activity	Documented By	Completed Date
Verify the "PUMP 1 FAILURE" indicator light is off	ASU	12/13/10
Verify the "PUMP 1 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 1 HIGH/START" indicator light is off	ASU	12/13/10
Verify the "PUMP 1 RUN" indicator light is off	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is not a PUMP 1 fail alarm	ASU 12/13/10	N/A
Verify PUMP 1 is not running (motor is red)	ASU	N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Verify PUMP 2 Operation:		
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
Verify that "PUMP 2" does not start	ASU	12/13/10
Verify the "PUMP 2 FAILURE" indicator light is off	ASU	12/13/10
Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 2 HIGH/START" indicator light is off	ASU	12/13/10
Verify the "PUMP 2 RUN" indicator light is off	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is not a PUMP 2 fail alarm	N/A	N/A
Verify PUMP 2 is not running (motor is red)	N/A	N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Fill Primary Sump to Water Level D2:		
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Initial "PRIMARY SUMP LEVEL" reading (Feet)	1.28	ASU 12/13/10
<u>On SUBCONTRACTOR provided test Equipment:</u>		
Initial flow totalizer reading (gallons)	N/A	N/A
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Initial "PRIMARY SUMP LEVEL" reading (Feet)	N/A	N/A
Add water to the primary sump until the "PRIMARY SUMP LEVEL" is above the D2 (1.3") level and below the D4 (2.0') level.	ASU	12/13/10
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Final "PRIMARY SUMP LEVEL" reading (Feet)	1.38	ASU 12/13/10

Line No	Activity	Documented By	Completed Date
	<u>On SUBCONTRACTOR provided test Equipment:</u>		
	Final flow totalizer reading (gallons) <u>N/A</u> Total added (gallons): <u>N/A</u>	<u>N/A</u>	<u>N/A</u>
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>N/A</u>	<u>N/A</u>	<u>N/A</u>
	Verify PUMP 1 Operation:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASU</u>	<u>12/13/10</u>
	Verify that "PUMP 1" does not start	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 1 FAILURE" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 1 LOW/OFF" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 1 HIGH/START" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 1 RUN" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify there is not a PUMP 1 fail alarm	<u>N/A</u>	<u>N/A</u>
	Verify PUMP 1 is not running (motor is red)	<u>N/A</u>	<u>N/A</u>
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	<u>N/A</u>	<u>N/A</u>
	Verify PUMP 2 Operation:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASU</u>	<u>12/13/10</u>
	Verify that "PUMP 2" starts	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 2 FAILURE" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 2 LOW/OFF" indicator light is off	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 2 HIGH/START" indicator light is on	<u>ASU</u>	<u>12/13/10</u>
	Verify the "PUMP 2 RUN" indicator light is on	<u>ASU</u>	<u>12/13/10</u>
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify PUMP 2 is running (motor is green)	<u>N/A</u>	<u>N/A</u>
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASU</u>	<u>12/13/10</u>
	Fill Primary Sump to Water Level D4:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.30</u>	<u>ASU</u>	<u>12/13/10</u>
	<u>On SUBCONTRACTOR provided test Equipment:</u>		
	Initial flow meter reading (gallons) <u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Line No.	Activity	Documented By	Completed Date
	<u>On the Leachate System Control Computer in [MO-481]:</u> Initial "PRIMARY SUMP LEVEL" reading (Feet)	N/A	N/A
	Add water to the primary sump until the "PRIMARY SUMP LEVEL" is above the D4 (2.0') level.	ASU	12/13/10
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Final "PRIMARY SUMP LEVEL" reading (Feet)	2.01	ASU 12/13/10
	<u>On SUBCONTRACTOR provided test Equipment:</u> Final flow totalizer reading (gallons) <u>N/A</u> Total added (gallons) <u>N/A</u>	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u> Final "PRIMARY SUMP LEVEL" reading (Feet)	N/A	N/A
	Verify PUMP 1 Operation: <u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify that "PUMP 1" starts	ASU	12/13/10
	Verify the "PUMP 1 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 1 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 1 RUN" indicator light is on	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u> Verify PUMP 1 is running (motor is green)	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
	Verify PUMP 2 Operation: <u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify that "PUMP 2" starts	ASU	12/13/10
	Verify the "PUMP 2 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 2 RUN" indicator light is on	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u> Verify PUMP 2 is running (motor is green)	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10

Project: <u>ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form</u>		Location	Cell 9
System Tested: <u>Leachate Pumps, Transducers Flood Switches, and Controls</u>		Purpose: <u>Demonstrate that the Leachate System operates as specified</u>	Rev. 0
		Date	11/02/10
no.	Activity	Documented By	Completed Date
	DEMONSTRATE SYSTEM OPERATION AT EACH "SECONDARY SUMP" LEVEL:		
	Configure Pump Discharge: Configure valves on pump discharge pipelines to route pump discharge through the bypass pipeline.	AJV	12/13/10
	Fill Secondary Sump to Water Level DS-1: <u>On the "TRENCH PUMP CONTROL PANEL":</u> Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>0.75</u>	AJV	12/13/10
	<u>On SUBCONTRACTOR provided test Equipment:</u> Initial flow meter reading (gallons) <u>N/A</u>	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u> Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>N/A</u>	N/A	N/A
	Add water to the secondary sump until the "SECONDARY SUMP LEVEL" is above the DS-1 (0.8') level and below the DS-2 (1.3') level.	AJV	12/13/10
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Final "SECONDARY SUMP LEVEL" reading (Feet) <u>0.93</u>	AJV	12/13/10
	<u>On SUBCONTRACTOR provided test Equipment:</u> Final flow meter reading (gallons) <u>N/A</u> Total added (gallons) <u>N/A</u>	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u> Final "SECONDARY SUMP LEVEL" reading (Feet) <u>N/A</u>	N/A	N/A
	Verify PUMP 3 Operation: <u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position Verify that "PUMP 3" does not start Verify the "PUMP 3 FAILURE" indicator light is off Verify the "PUMP 3 LOW/OFF" indicator light is off Verify the "PUMP 3 HIGH/START" indicator light is off Verify the "PUMP 3 RUN" indicator light is off	AJV AJV AJV AJV AJV AJV	12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u> Verify there is not a PUMP 3 fail alarm Verify PUMP 3 is not running (motor is red)	N/A N/A	N/A N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	AJV	12/13/10

Line No.	Activity	Documented By	Completed Date
Fill Secondary Sump to Water Level DS-2:			
	On the "TRENCH PUMP CONTROL PANEL":		
	Initial "SECONDARY SUMP LEVEL" reading (Feet)	<u>ASV</u>	<u>12/13/10</u>
		<u>21 093</u>	
	On SUBCONTRACTOR provided test Equipment:		
	Initial flow meter reading (gallons)	<u>N/A</u>	<u>N/A</u>
	On the Leachate System Control Computer in [MO-481]:		
	Initial "SECONDARY SUMP LEVEL" reading (Feet)	<u>N/A</u>	<u>N/A</u>
	Add water to the secondary sump until the "SECONDARY SUMP LEVEL" is above the DS-2 (1.3') level.	<u>ASV</u>	<u>12/13/10</u>
	On the "TRENCH PUMP CONTROL PANEL":		
	Final "SECONDARY SUMP LEVEL" reading (Feet)	<u>ASV</u>	<u>12/13/10</u>
		<u>1.31</u>	
	On SUBCONTRACTOR provided test Equipment:		
	Final flow meter reading (gallons)	<u>N/A</u>	<u>N/A</u>
	Total added (gallons):	<u>N/A</u>	<u>N/A</u>
	On the Leachate System Control Computer in [MO-481]:		
	Final "SECONDARY SUMP LEVEL" reading (Feet)	<u>N/A</u>	<u>N/A</u>
		<u>N/A</u>	
Verify PUMP 3 Operation:			
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASV</u>	<u>12/13/10</u>
	Verify that "PUMP 3" starts	<u>ASV</u>	<u>12/13/10</u>
	Verify the "PUMP 3 FAILURE" indicator light is off	<u>ASV</u>	<u>12/13/10</u>
	Verify the "PUMP 3 LOW/OFF" indicator light is off	<u>ASV</u>	<u>12/13/10</u>
	Verify the "PUMP 3 HIGH/START" indicator light is on	<u>ASV</u>	<u>12/13/10</u>
	Verify the "PUMP 3 RUN" indicator light is on	<u>ASV</u>	<u>12/13/10</u>
	On the Leachate System Control Computer in [MO-481]:		
	Verify there is not a PUMP 3 fail alarm	<u>N/A</u>	<u>N/A</u>
	Verify PUMP 3 is running (motor is green)	<u>N/A</u>	<u>N/A</u>
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASV</u>	<u>12/13/10</u>
DEMONSTRATE PUMP "FAIL" OPERATION:			
	If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL" is just above the D-4 (2.0') level.	<u>ASV</u>	<u>12/13/10</u>
	On the "TRENCH PUMP CONTROL PANEL":		
	"PRIMARY SUMP LEVEL" reading (Feet)	<u>ASV</u>	<u>12/13/10</u>
		<u>2.01</u>	

Line No.	Activity	Documented By	Completed Date
	If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL" is just above the DS-2 (1.3') level.	ASU	12/13/10
	On the "TRENCH PUMP CONTROL PANEL": "SECONDARY SUMP LEVEL" reading (Feet)	ASU	12/13/10
	On the "TRENCH PUMP CONTROL PANEL": Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU ASU ASU	12/13/10 12/13/10 12/13/10
	At the Crest Pad Building Motor Control Center (MCC): Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU ASU ASU	12/13/10 12/13/10 12/13/10
	On the "FLOW TRANSMITTER PANEL": Initial "PUMP 1" flow meter totalizer reading (gallons)	N/A	N/A
	Initial "PUMP 2" flow meter totalizer reading (gallons)	N/A	N/A
	Initial "PUMP 3" flow meter totalizer reading (gallons)	N/A	N/A
	Verify PUMP 1 Alarms: On the "TRENCH PUMP CONTROL PANEL": Verify the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position Verify the "PUMP 1 FAILURE" indicator light is on Verify the "PUMP 1 LOW/OFF" indicator light is off Verify the "PUMP 1 HIGH/START" indicator light is on Verify the "PUMP 1 RUN" indicator light is off Verify the "ALARM" indicator is on	ASU ASU ASU ASU ASU ASU	12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10
	On the Roof of the Crest Pad Building: Verify the roof light outside of the crest pad building is on	ASU	12/13/10
	On the Leachate System Control Computer in [MO-481]: Verify there is a PUMP 1 fail alarm Verify PUMP 1 is not running (motor is yellow) Verify autodialer begins calling	N/A N/A N/A	N/A N/A N/A
	On the "TRENCH PUMP CONTROL PANEL": Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position Verify the "PUMP 1 FAILURE" indicator is off Verify the "PUMP 1 LOW/OFF" indicator is off Verify the "PUMP 1 HIGH/START" indicator is on	ASU ASU ASU ASU	12/13/10 12/13/10 12/13/10 12/13/10

Line No	Activity	Documented By	Completed Date
	Verify the "PUMP 1 RUN" indicator is off	ASU	12/13/10
	Verify the Crest Pad Building "ALARM" indicator is off	ASU	12/13/10
	<u>On the Roof of the Crest Pad Building:</u>		
	Verify the roof light outside of the crest pad building is off	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Acknowledge PUMP 1 fail alarm	N/A	N/A
	Verify PUMP 2 Alarms:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify the "PUMP 2 FAILURE" indicator light is on	ASU	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 2 RUN" indicator light is off	ASU	12/13/10
	Verify the "ALARM" indicator is on	ASU	12/13/10
	<u>On the Roof of the Crest Pad Building:</u>		
	Verify the roof light outside of the crest pad building is on	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify there is a PUMP 2 fail alarm	N/A	N/A
	Verify PUMP 2 is not running (motor is yellow)	N/A	N/A
	Verify autodialer begins calling	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
	Verify the "PUMP 2 FAILURE" indicator is off	ASU	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator is off	ASU	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator is on	ASU	12/13/10
	Verify the "PUMP 2 RUN" indicator is off	ASU	12/13/10
	Verify the Crest Pad Building "ALARM" indicator is off	ASU	12/13/10
	<u>On the Roof of the Crest Pad Building:</u>		
	Verify the roof light outside of the crest pad building is off	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Acknowledge PUMP 2 fail alarm	N/A	N/A
	Verify PUMP 3 Alarms:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify the "PUMP 3 FAILURE" indicator light is on	ASU	12/13/10

System Tested: **Leachate Pumps, Transducers
Flood Switches, and Controls**

Purpose: **Demonstrate that the Leachate System operates as specified**

Rev. **0**
Date **11/02/10**

Activity	Documented By	Completed Date
Verify the "PUMP 3 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 3 HIGH/START" indicator light is on	ASU	12/13/10
Verify the "PUMP 3 RUN" indicator light is off	ASU	12/13/10
Verify the "ALARM" indicator is on	ASU	12/13/10
<u>On the Roof of the Crest Pad Building:</u>		
Verify the roof light outside of the crest pad building is on	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is a PUMP 3 fail alarm	N/A	N/A
Verify PUMP 3 is not running (motor is yellow red)	N/A	N/A
Verify autodialer begins calling	N/A	N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Verify the "PUMP 3 FAILURE" indicator is off	ASU	12/13/10
Verify the "PUMP 3 LOW/OFF" indicator is off	ASU	12/13/10
Verify the "PUMP 3 HIGH/START" indicator is on	ASU	12/13/10
Verify the "PUMP 3 RUN" indicator is off	ASU	12/13/10
Verify the Crest Pad Building "ALARM" indicator is off	ASU	12/13/10
<u>On the Roof of the Crest Pad Building:</u>		
Verify the roof light outside of the crest pad building is off	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Acknowledge PUMP 3 fail alarm	N/A	N/A
DEMONSTRATE PUMP "HAND" OPERATION:		
Verify PUMP 1 "HAND" Operation:		
If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL" is just above the D-4 (2.0') level.	ASU	12/13/10
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
"PRIMARY SUMP LEVEL" reading (Feet) <u>2.4</u>	ASU	12/13/10
If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL" is just above the DS-2 (1.3') level.	ASU	12/13/10
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.32</u>	ASU	12/13/10
<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10

Activity	Documented By	Completed Date
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Verify at least 10 minutes have elapsed since Pump 1 was shut down	ASU	12/13/10
Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "HAND" position	ASU	12/13/10
Verify that "PUMP 1" starts	ASU	12/13/10
Verify the "PUMP 1 FAILURE" indicator light is off	ASU	12/13/10
Verify the "PUMP 1 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 1 HIGH/START" indicator light is on	ASU	12/13/10
Verify the "PUMP 1 RUN" indicator light is on	ASU	12/13/10
Pump 1 "FLOW RATE (GAL/MIN)" reading	ASU	12/13/10
Verify PUMP 1 produces minimum 140 gpm	N/A (Yes) No	N/A
<i>COMPLETE DURING 2-hr Pump Test</i>		
<u>On the "FLOW TRANSMITTER PANEL":</u>		
Pump 1 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is not a PUMP 1 fail alarm	N/A	N/A
Verify PUMP 1 is running (motor is green)	N/A	N/A
Pump 1 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
<u>Measure Pump No. 1 Phase Current</u>	A: N/A B: N/A C: N/A	N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Verify that "PUMP 1" stops	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify PUMP 1 is not running (motor is red)	N/A	N/A
<u>Verify PUMP 2 "HAND" Operation:</u>		
<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "HAND" position	ASU	12/13/10
Verify that "PUMP 2" starts	ASU	12/13/10
Verify the "PUMP 2 FAILURE" indicator light is off	ASU	12/13/10
Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 2 HIGH/START" indicator light is on	ASU	12/13/10
Verify the "PUMP 2 RUN" indicator light is on	ASU	12/13/10
PUMP 2 "FLOW RATE (GAL/MIN)" reading	N/A ASU 12/13/10	N/A
Verify PUMP 2 produces minimum 15 gpm	N/A (Yes) No	N/A
<i>Completed during 2-hr Pump Test</i>		
<u>On the "FLOW TRANSMITTER PANEL":</u>		
PUMP 2 "FLOW RATE (GAL/MIN)" reading	N/A	N/A

Activity	Documented By	Completed Date
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is not a PUMP 2 fail alarm	N/A	N/A
Verify PUMP 2 is running (motor is green)	N/A	N/A
PUMP 2 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
<u>Measure Pump No. 2 Phase Current</u>	A: N/A B: N/A C: N/A	N/A N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Verify that "PUMP 2" stops	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify PUMP 2 is not running (motor is red)	N/A	N/A
Verify PUMP 3 "HAND" Operation:		
<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "HAND" position	ASU	12/13/10
Verify that "PUMP 3" starts	ASU	12/13/10
Verify the "PUMP 3 FAILURE" indicator light is off	ASU	12/13/10
Verify the "PUMP 3 LOW/OFF" indicator light is off	ASU	12/13/10
Verify the "PUMP 3 HIGH/START" indicator light is on	ASU	12/13/10
Verify the "PUMP 3 RUN" indicator light is on	ASU	12/13/10
PUMP 3 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
Verify PUMP 3 produces minimum 15 gpm	N/A	N/A
	Yes No	
	Yes	
<i>Completed During 2-Hr Pump Test</i>	ASU	12/13/10
<u>On the "FLOW TRANSMITTER PANEL":</u>		
PUMP 3 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
<u>On the Leachate System Control Computer in [MO-481]:</u>		
Verify there is not a PUMP 3 fail alarm	N/A	N/A
Verify PUMP 3 is running (motor is green)	N/A	N/A
PUMP 3 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
<u>Measure Pump No. 3 Phase Current</u>	A: N/A B: N/A C: N/A	N/A N/A
<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
Verify that "PUMP 3" stops	ASU	12/13/10
<u>On the Leachate System Control Computer in [MO-481]:</u>		

Project: ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form
 System Tested: Leachate Pumps, Transducers Purpose: Demonstrate that the Leachate System operates as specified
Flood Switches, and Controls

Location Cell 9
 Rev. 0
 Date 11/02/10

ne ..o.	Activity	Documented By	Completed Date
	Verify PUMP 3 is not running (motor is red)	N/A	N/A
	DEMONSTRATE PUMP "AUTO" OPERATION:		
	If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL" is just above the D-4 (2.0') level.	ASU	12/13/10
	On the "TRENCH PUMP CONTROL PANEL": "PRIMARY SUMP LEVEL" reading (Feet) <u>2.03</u>	ASU	12/13/10
	If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL" is just above the DS-2 (1.3') level	ASU	12/13/10
	On the "TRENCH PUMP CONTROL PANEL": "SECONDARY SUMP LEVEL" reading (Feet) <u>1.32</u>	ASU	12/13/10
	Verify PUMP 1 "AUTO" Operation:		
	On the "TRENCH PUMP CONTROL PANEL":		
	Verify at least 10 minutes have elapsed since Pump 1 was shut down	ASU	12/13/10
	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify that "PUMP 1" starts	ASU	12/13/10
	Verify the "PUMP 1 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 1 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 1 RUN" indicator light is on	ASU	12/13/10
	Pump 1 "FLOW RATE (GAL/MIN)" reading <u>N/A</u>	N/A	N/A
	On the "FLOW TRANSMITTER PANEL":		
	Pump 1 "FLOW RATE (GAL/MIN)" reading <u>N/A</u>	N/A	N/A
	On the Leachate System Control Computer in [MO-481]:		
	Verify there is not a PUMP 1 fail alarm	N/A	N/A
	Verify PUMP 1 is running (motor is green)	N/A	N/A
	Pump 1 "FLOW RATE (GAL/MIN)" reading <u>N/A</u>	N/A	N/A
	Verify PUMP 2 "AUTO" Operation:		
	On the "TRENCH PUMP CONTROL PANEL":		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify that "PUMP 2" starts	ASU	12/13/10
	Verify the "PUMP 2 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 2 RUN" indicator light is on	ASU	12/13/10
	PUMP 2 "FLOW RATE (GAL/MIN)" reading <u>N/A</u>	N/A	N/A

.ine No.	Activity	Documented By	Completed Date
	<u>On the "FLOW TRANSMITTER PANEL":</u> PUMP 2 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u> Verify there is not a PUMP 2 fail alarm	N/A	N/A
	Verify PUMP 2 is running (motor is green)	N/A	N/A
	PUMP 2 "FLOW RATE (GAL/MIN)" reading	N/A	N/A
	Verify PUMP 1 "AUTO" Shutdown: Continue operation of PUMP 1 until PUMP 1 shuts off (at Level D3 - 1.2') Verify that PUMP 1 shuts off	JZU	12/13/10
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Verify the "PUMP 1 FAILURE" indicator light is off	JZU	12/13/10
	Verify the "PUMP 1 LOW/OFF" indicator light is on	JZU	12/13/10
	Verify the "PUMP 1 HIGH/START" indicator light is off	JZU	12/13/10
	Verify the "PUMP 1 RUN" indicator light is off	JZU	12/13/10
	"PRIMARY SUMP LEVEL" reading when PUMP 1 shuts off (Feet)	1.20	JZU 12/13/10
	<u>On the "FLOW TRANSMITTER PANEL":</u> PUMP 1 flow meter totalizer reading (gal)	N/A	Total pumped (gal): N/A
	Reset PUMP 1 totalizer	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u> Verify PUMP 1 is not running (motor is red)	N/A	N/A
	PUMP 1 flow meter totalizer reading (gal)	N/A	Total pumped (gal): N/A
	Reset PUMP 1 totalizer	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	JZU	12/13/10
	Verify PUMP 2 "AUTO" Shutdown: Continue operation of PUMP 2 until PUMP 2 shuts off (at Level D1 - 0.8') Verify that PUMP 2 shuts off	JZU	12/13/10
	<u>On the "TRENCH PUMP CONTROL PANEL":</u> Verify the "PUMP 2 FAILURE" indicator light is off	JZU	12/13/10
	Verify the "PUMP 2 LOW/OFF" indicator light is on	JZU	12/13/10
	Verify the "PUMP 2 HIGH/START" indicator light is off	JZU	12/13/10
	Verify the "PUMP 2 RUN" indicator light is off	JZU	12/13/10
	"PRIMARY SUMP LEVEL" reading when PUMP 2 shuts off	0.80	JZU 12/13/10
	<u>On the "FLOW TRANSMITTER PANEL":</u> PUMP 2 flow meter totalizer reading (gal)	N/A	Total pumped (gal): N/A
		N/A	N/A

ne ..0.	Activity	Documented By	Completed Date
	Reset PUMP 2 totalizer	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify PUMP 2 is not running (motor is red)	N/A	N/A
	PUMP 2 flow meter totalizer reading (gal) <u>N/A</u> Total pumped (gal): <u>N/A</u>	N/A	N/A
	Reset PUMP 2 totalizer	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/13/10
	Verify PUMP 3 "AUTO" Operation:		
	<u>On the "TRENCH PUMP CONTROL PANEL"</u>		
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/13/10
	Verify that "PUMP 3" starts	ASU	12/13/10
	Verify the "PUMP 3 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASU	12/13/10
	Verify the "PUMP 3 HIGH/START" indicator light is on	ASU	12/13/10
	Verify the "PUMP 3 RUN" indicator light is on	ASU	12/13/10
	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>N/A</u>	N/A	N/A
	<u>On the "FLOW TRANSMITTER PANEL":</u>		
	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>100 N/A</u> <u>ASU 12/13/10</u>	ASU	12/13/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify there is not a PUMP 3 fail alarm	ASU	N/A
	Verify PUMP 3 is running (motor is green)	N/A	N/A
	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>NA</u>	N/A	N/A
	Verify PUMP 3 "AUTO" Shutdown:		
	Continue operation of PUMP 3 until PUMP 3 shuts off at Level DS-1 (4.2 0.8')		
	Verify that PUMP 3 shuts off	ASU	12/13/10
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Verify the "PUMP 3 FAILURE" indicator light is off	ASU	12/13/10
	Verify the "PUMP 3 LOW/OFF" indicator light is on	ASU	12/13/10
	Verify the "PUMP 3 HIGH/START" indicator light is off	ASU	11/17/10
	Verify the "PUMP 3 RUN" indicator light is off	ASU	12/13/10
	"SECONDARY SUMP LEVEL" reading when PUMP 3 shuts off (Feet) <u>0.80</u>	ASU	12/13/10
	<u>On the "FLOW TRANSMITTER PANEL":</u>		
	PUMP 3 flow meter totalizer reading (gal) <u>N/A</u> Total pumped (gal): <u>N/A</u>	N/A	N/A
	Reset PUMP 3 totalizer	N/A	N/A
	<u>On the Leachate System Control Computer in [MO-481]:</u>		

Project: ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form Location: Cell 9
 System Tested: Leachate Pumps, Transducers Purpose: Demonstrate that the Leachate System operates as specified Rev: 0
Flood Switches, and Controls Date: 11/02/10

ine lo	Activity	Documented By	Completed Date
	Verify PUMP 3 is not running (motor is red)	N/A	N/A
	PUMP 3 flow meter totalizer reading (gal) <u>N/A</u> Total pumped (gal): <u>N/A</u>	N/A	N/A
	Reset PUMP 3 totalizer	N/A	N/A
	<u>On the "TRENCH PUMP CONTROL PANEL"</u>		
	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	<u>FEU</u>	<u>12/1/10</u>

Project:	ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form	Location	Cell 9
System Tested:	Leachate Pumps, Transducers	Purpose:	Demonstrate that the Leachate System operates as specified
	Flood Switches, and Controls		Rev. 0
ne	Activity	Documented By	Completed Date
o.			11/02/10

Exceptions:

Number of Exceptions (Attached): _____

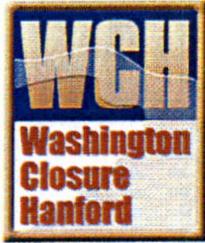
Summary of Exceptions, Actions Taken, and Results: _____

Witnesses:

WCH Construction Project Manager (Print & Signature)	Company	Date
WCH STR (Print & Signature)	Company	Date
TEST DIRECTOR (Print & Signature)	Company	Date
SUBCONTRACTOR QC (Print & Signature) <i>N/A</i>	Company	Date
QA SUBCONTRACTOR/Recorder (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date

ATP Reviewed By:

E-RL (Print & Signature)	Company	Date
EPA (Print & Signature)	Company	Date



FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE (CQA)
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF)
SUPER CELLS 9 & 10
SUBCONTRACT S013213A00
010.032-00-ROB

L.3

ACCEPTANCE TEST PROCEDURES (ATPs) SUPER CELL 9

line no.	Activity	Documented By	Completed Date
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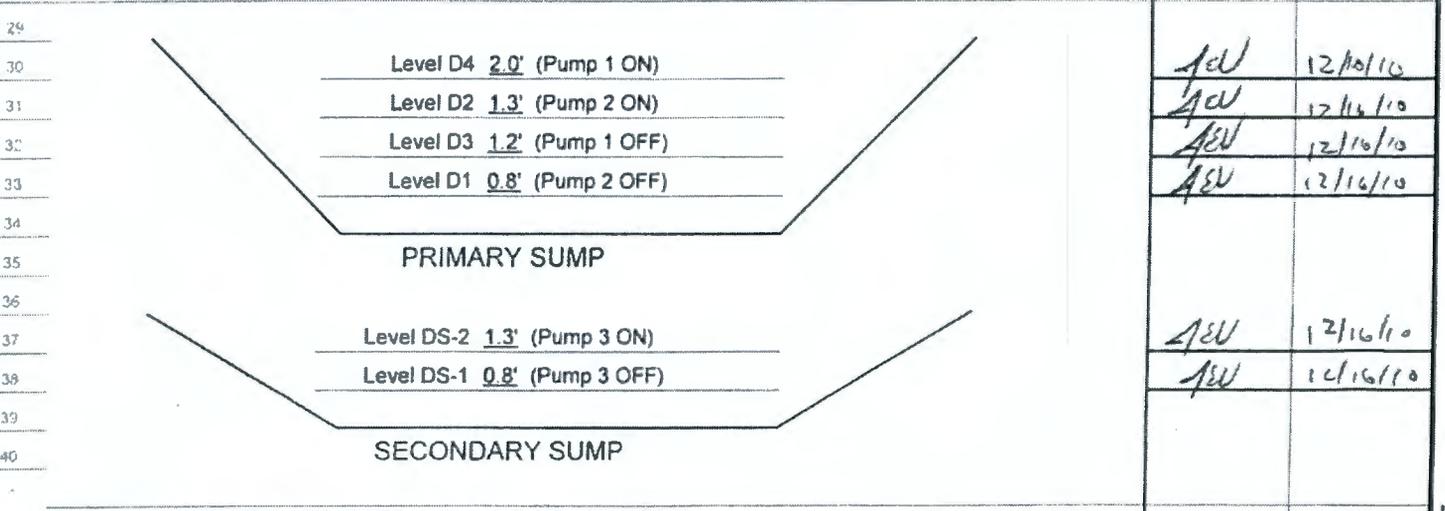
1	Notes:		
2	1. In the interest of continuation of testing, portions of this plan may be redlined		
3	and initialed in the field during testing with concurrence from the Test Director.		
4			
5	2. Referenced status lights, switches, level indicators, meter readouts, and indicator		
6	lights are located in the Crest Pad Building except as indicated by [location]		

7	Prerequisites:		
8	The system to be tested has been inspected for workmanship and compliance with design	AEV	12/16/10
9	Continuity tests have been performed on the electrical wiring of the systems	AEV	12/16/10
10	Continuity tests have been performed on the instrumentation wiring of the systems	AEV	12/16/10
11	Motor overload devices are sized (or set) correctly based on motor nameplate data	AEV	12/16/10
12	Power is available	AEV	12/16/10
13	Safety requirements have been implemented in accordance with the HASP	AEV	12/16/10
14	A dry run of this test has been completed to demonstrate the system operates as specified	AEV	12/16/10
15	Configure valves to route pump discharge through the bypass pipeline	AEV	12/16/10

17	SUBCONTRACTOR furnished Testing Equipment:		
18	Flow Meter/Totalizer for measuring water added by SUBCONTRACTOR to the Sumps		
19	Meter Manufacturer/Model: <u>TD 200 ME</u>		
	Calibration Expiration Date: <u>1/15/09</u>		
	ID No. <u>GPM 4</u>		

23	Volt/Current Meter:		
24	Meter Manufacturer/Model: <u>FLUKE/30</u>		
25	Calibration Expiration Date: <u>9/13/10</u>		
26	ID No. <u>72050353</u>		

28 Verify that the sump transducers levels are set to the following levels:



43	On the "FLOW TRANSMITTER PANEL":		
	Initial "PUMP 1" flow meter totalizer reading (gallons)	12705.4	AEV 12/16/10
44	Initial "PUMP 2" flow meter totalizer reading (gallons)	3579.7	AEV 12/16/10

line no.	Activity		Documented By	Completed Date
45	Initial "PUMP 3" flow meter totalizer reading (gallons)	150.4	ASU	12/16/10
46				
47	Primary Sump level is pumped to less 0.8' level	Sump Level: 0.77	ASU	12/16/10
48	Secondary Sump level is pumped to less 0.8' level	Sump Level: 0.69	ASU	12/16/10
49				
50	Configure the Control System for the test:			
51	<u>On the "TRENCH PUMP CONTROL PANEL":</u>			
52	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position		ASU	12/16/10
53	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position		ASU	12/16/10
54	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position		ASU	12/16/10
55	Switch the roof "ROOF ALARM HAND-OFF-AUTO" switch to the "AUTO" position		ASU	12/16/10
56	Switch the "CONTROL POWER ON/OFF" switch to the "ON" position		ASU	12/16/10
57				
58	Verify the "PUMP 1 FAILURE" indicator light is off		ASU	12/16/10
59	Verify the "PUMP 1 LOW/OFF" indicator light is on (sump level is < 1.2')		ASU	12/16/10
60	Verify the "PUMP 1 HIGH/START" indicator light is off		ASU	12/16/10
61	Verify the "PUMP 1 RUN" indicator light is off		ASU	12/16/10
62				
63	Verify the "PUMP 2 FAILURE" indicator light is off		ASU	12/16/10
	Verify the "PUMP 2 LOW/OFF" indicator light is on (sump level is < 0.8')		ASU	12/16/10
	Verify the "PUMP 2 HIGH/START" indicator light is off		ASU	12/16/10
66	Verify the "PUMP 2 RUN" indicator light is off		ASU	12/16/10
67				
68	Verify the "PUMP 3 FAILURE" indicator light is off		ASU	12/16/10
69	Verify the "PUMP 3 LOW/OFF" indicator light is on (if sump level is < 0.8')		ASU	12/16/10
70	Verify the "PUMP 3 HIGH/START" indicator light is off		ASU	12/16/10
71	Verify the "PUMP 3 RUN" indicator light is off		ASU	12/16/10
72				
73	Verify the "TANK HIGH" indicator light is off		ASU	12/16/10
74	Verify the "ALARM" indicator light is off		ASU	12/16/10
75				
76	<u>At the Crest Pad Building Motor Control Center (MCC):</u>			
77	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position		ASU	12/16/10
78	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position		ASU	12/16/10
79	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position		ASU	12/16/10
80				
81	<u>In the Crest Pad Building Mechanical Room:</u>			
82	Switch the PUMP 1 disconnect switch to the "ON" position		ASU	12/16/10
83	Switch the PUMP 2 disconnect switch to the "ON" position		ASU	12/16/10
84	Switch the PUMP 3 disconnect switch to the "ON" position		ASU	12/16/10
	<u>On the Leachate System Control Computer in [MO-481]:</u>			
87	Verify there is not a PUMP 1 fail alarm		ASU	12/16/10
88	Verify PUMP 1 is not running (motor is red)		ASU	12/16/10

Line No.	Activity	Documented By	Completed Date
133	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/10/10
134			
135	Verify PUMP 2 Operation:		
136	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
137	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/10/10
138	Verify that "PUMP 2" does not start	ASV	12/10/10
139	Verify the "PUMP 2 FAILURE" indicator light is off	ASV	12/10/10
140	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASV	12/10/10
141	Verify the "PUMP 2 HIGH/START" indicator light is off	ASV	12/10/10
142	Verify the "PUMP 2 RUN" indicator light is off	ASV	12/10/10
143			
144	<u>On the Leachate System Control Computer in [MO-481]:</u>		
145	Verify there is not a PUMP 2 fail alarm	ASV	12/16/10
146	Verify PUMP 2 is not running (motor is red)	ASV	12/16/10
147			
148	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
149	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
150			
151	Fill Primary Sump to Water Level D3:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>0.99</u>	ASV	12/16/10
154			
155	<u>On SUBCONTRACTOR provided test Equipment:</u>		
156	Initial flow totalizer reading (gallons) <u>8405</u>	ASV	12/16/10
157			
158	<u>On the Leachate System Control Computer in [MO-481]:</u>		
159	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>0.99</u>	ASV	12/16/10
160			
161	Add water to the primary sump until the "PRIMARY SUMP LEVEL"		
162	is above the D3 (1.2') level and below the D2 (1.3') level.	ASV	12/16/10
163			
164	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
165	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.24</u>	ASV	12/16/10
166			
167	<u>On SUBCONTRACTOR provided test Equipment:</u>		
168	Final flow totalizer reading (gallons) <u>19537</u> Total added (gallons): <u>1,113.2</u>	ASV	12/16/10
169			
170	<u>On the Leachate System Control Computer in [MO-481]:</u>		
171	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.23</u>	ASV	12/16/10
172			
	Verify PUMP 1 Operation:		
	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
175	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
176	Verify that "PUMP 1" does not start	ASV	12/16/10

no.	Activity	Documented By	Completed Date
99			
100	Verify there is not a PUMP 2 fail alarm	ASU	12/16/10
101	Verify PUMP 2 is not running (motor is red)	ASU	12/16/10
102			
103	Verify there is not a PUMP 3 fail alarm	ASU	12/16/10
104	Verify PUMP 3 is not running (motor is red)	ASU	12/16/10
105			
106	DEMONSTRATE SYSTEM OPERATION AT EACH "PRIMARY SUMP" LEVEL:		
107	Fill Primary Sump to Water Level D1:		
108	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
109	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>0.77</u>	ASU	12/16/10
110			
111	<u>On SUBCONTRACTOR provided test Equipment:</u>		
112	Initial flow totalizer reading (gallons) <u>0.0</u>	ASU	12/16/10
113			
114	<u>On the Leachate System Control Computer in [MO-481]:</u>		
115	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>0.76</u>	ASU	12/16/10
116			
117	Add water to the primary sump until the "PRIMARY SUMP LEVEL" is above the D1 (0.8') level and below the D3 (1.2') level.	ASU	12/16/10
118			
119	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
120	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>0.99</u>	ASU	12/16/10
121			
122	<u>On SUBCONTRACTOR provided test Equipment:</u>		
123	Final flow totalizer reading (gallons) <u>840.5</u> Total added (gallons): <u>840.5</u>	ASU	12/16/10
124			
125	<u>On the Leachate System Control Computer in [MO-481]:</u>		
126	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>0.98</u>	ASU	12/16/10
127			
128	Verify PUMP 1 Operation:		
129	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
130	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/16/10
131	Verify that "PUMP 1" does not start	ASU	12/16/10
132	Verify the "PUMP 1 FAILURE" indicator light is off	ASU	12/16/10
133	Verify the "PUMP 1 LOW/OFF" indicator light is on	ASU	12/16/10
134	Verify the "PUMP 1 HIGH/START" indicator light is off	ASU	12/16/10
135	Verify the "PUMP 1 RUN" indicator light is off	ASU	12/16/10
136			
137	<u>On the Leachate System Control Computer in [MO-481]:</u>		
138	Verify there is not a PUMP 1 fail alarm	ASU	12/16/10
139	Verify PUMP 1 is not running (motor is red)	ASU	12/16/10
140			
141	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
142			

no.	Activity	Documented By	Completed Date
177	Verify the "PUMP 1 FAILURE" indicator light is off	ASV	12/16/10
178	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASV	12/16/10
179	Verify the "PUMP 1 HIGH/START" indicator light is off	ASV	12/16/10
180	Verify the "PUMP 1 RUN" indicator light is off	ASV	12/16/10
181			
182	<u>On the Leachate System Control Computer in [MO-481]:</u>		
183	Verify there is not a PUMP 1 fail alarm	ASV	12/16/10
184	Verify PUMP 1 is not running (motor is red)	ASV	12/16/10
185			
186	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
187	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
188			
189	Verify PUMP 2 Operation:		
190	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
191	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
192	Verify that "PUMP 2" does not start	ASV	12/16/10
193	Verify the "PUMP 2 FAILURE" indicator light is off	ASV	12/16/10
194	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASV	12/16/10
195	Verify the "PUMP 2 HIGH/START" indicator light is off	ASV	12/16/10
	Verify the "PUMP 2 RUN" indicator light is off	ASV	12/16/10
196			
197	<u>On the Leachate System Control Computer in [MO-481]:</u>		
198	Verify there is not a PUMP 2 fail alarm	ASV	12/16/10
199	Verify PUMP 2 is not running (motor is red)	ASV	12/16/10
200			
201			
202	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
203	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
204			
205	Fill Primary Sump to Water Level D2:		
206	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
207	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.23</u>	ASV	12/16/10
208			
209	<u>On SUBCONTRACTOR provided test Equipment:</u>		
210	Initial flow totalizer reading (gallons) <u>195.77</u>	ASV	12/16/10
211			
212	<u>On the Leachate System Control Computer in [MO-481]:</u>		
213	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.22</u>	ASV	12/16/10
214			
215	Add water to the primary sump until the "PRIMARY SUMP LEVEL"		
216	is above the D2 (1.3") level and below the D4 (2.0') level.	ASV	12/16/10
217			
218	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
219	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.79</u>	ASV	12/16/10
220			

no.	Activity	Documented By	Completed Date
221	On SUBCONTRACTOR provided test Equipment:		
222	Final flow totalizer reading (gallons) <u>4896.0</u> Total added (gallons): <u>2942.3</u>	<u>ASV</u>	<u>12/10/10</u>
223			
224	On the Leachate System Control Computer in [MO-481]:		
225	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>1.79</u>	<u>ASV</u>	<u>12/10/10</u>
226			
227	Verify PUMP 1 Operation:		
228	On the "TRENCH PUMP CONTROL PANEL":		
229	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASV</u>	<u>12/10/10</u>
230	Verify that "PUMP 1" does not start	<u>ASV</u>	<u>12/10/10</u>
231	Verify the "PUMP 1 FAILURE" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
232	Verify the "PUMP 1 LOW/OFF" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
233	Verify the "PUMP 1 HIGH/START" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
234	Verify the "PUMP 1 RUN" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
235			
236	On the Leachate System Control Computer in [MO-481]:		
237	Verify there is not a PUMP 1 fail alarm	<u>ASV</u>	<u>12/10/10</u>
238	Verify PUMP 1 is not running (motor is red)	<u>ASV</u>	<u>12/10/10</u>
239			
240	On the "TRENCH PUMP CONTROL PANEL":		
241	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASV</u>	<u>12/10/10</u>
242			
243	Verify PUMP 2 Operation:		
244	On the "TRENCH PUMP CONTROL PANEL":		
245	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASV</u>	<u>12/10/10</u>
246	Verify that "PUMP 2" starts	<u>ASV</u>	<u>12/10/10</u>
247	Verify the "PUMP 2 FAILURE" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
248	Verify the "PUMP 2 LOW/OFF" indicator light is off	<u>ASV</u>	<u>12/10/10</u>
249	Verify the "PUMP 2 HIGH/START" indicator light is on	<u>ASV</u>	<u>12/10/10</u>
250	Verify the "PUMP 2 RUN" indicator light is on	<u>ASV</u>	<u>12/10/10</u>
251			
252	On the Leachate System Control Computer in [MO-481]:		
253	Verify PUMP 2 is running (motor is green)	<u>ASV</u>	<u>12/10/10</u>
254			
255	On the "TRENCH PUMP CONTROL PANEL":		
256	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASV</u>	<u>12/10/10</u>
257			
258	Fill Primary Sump to Water Level D4:		
259	On the "TRENCH PUMP CONTROL PANEL":		
260	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.78</u>	<u>ASV</u>	<u>12/10/10</u>
261			
262	On SUBCONTRACTOR provided test Equipment:		
263	Initial flow meter reading (gallons) <u>4896.0</u>	<u>ASV</u>	<u>12/10/10</u>
264			

Project: ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form
 System Tested: Leachate Pumps, Transducers
Flood Switches, and Controls Purpose: Demonstrate that the Leachate System operates as specified

Location: Cell 9
 Rev: 0
 Date: 11/02/10

no.	Activity	Documented By	Completed Date
265	<u>On the Leachate System Control Computer in [MO-481]:</u>		
266	Initial "PRIMARY SUMP LEVEL" reading (Feet) <u>1.78</u>	<u>ASU</u>	<u>12/16/10</u>
267			
268	Add water to the primary sump until the "PRIMARY SUMP LEVEL"		
269	is above the D4 (2.0') level.	<u>ASU</u>	<u>12/16/10</u>
270			
271	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
272	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>2.01</u>	<u>ASU</u>	<u>12/16/10</u>
273			
274	<u>On SUBCONTRACTOR provided test Equipment:</u>		
275	Final flow totalizer reading (gallons) <u>6241.6</u> Total added (gallons): <u>1,345.6</u>	<u>ASU</u>	<u>12/16/10</u>
276			
277	<u>On the Leachate System Control Computer in [MO-481]:</u>		
278	Final "PRIMARY SUMP LEVEL" reading (Feet) <u>2.00</u>	<u>ASU</u>	<u>12/16/10</u>
279			
280	Verify PUMP 1 Operation:		
281	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
282	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASU</u>	<u>12/16/10</u>
283	Verify that "PUMP 1" starts	<u>ASU</u>	<u>12/16/10</u>
	Verify the "PUMP 1 FAILURE" indicator light is off	<u>ASU</u>	<u>12/16/10</u>
	Verify the "PUMP 1 LOW/OFF" indicator light is off	<u>ASU</u>	<u>12/16/10</u>
285	Verify the "PUMP 1 HIGH/START" indicator light is on <u>Light indicator ON AT START</u>	<u>ASU</u>	<u>12/16/10</u>
287	Verify the "PUMP 1 RUN" indicator light is on <u>ASU 12/16/10</u>	<u>ASU</u>	<u>12/16/10</u>
288			
289	<u>On the Leachate System Control Computer in [MO-481]:</u>		
290	Verify PUMP 1 is running (motor is green)	<u>ASU</u>	<u>12/16/10</u>
291			
292	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
293	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASU</u>	<u>12/16/10</u>
294			
295	Verify PUMP 2 Operation:		
296	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
297	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	<u>ASU</u>	<u>12/16/10</u>
298	Verify that "PUMP 2" starts	<u>ASU</u>	<u>12/16/10</u>
299	Verify the "PUMP 2 FAILURE" indicator light is off	<u>ASU</u>	<u>12/16/10</u>
300	Verify the "PUMP 2 LOW/OFF" indicator light is off	<u>ASU</u>	<u>12/16/10</u>
301	Verify the "PUMP 2 HIGH/START" indicator light is on	<u>ASU</u>	<u>12/16/10</u>
302	Verify the "PUMP 2 RUN" indicator light is on	<u>ASU</u>	<u>12/16/10</u>
303			
304	<u>On the Leachate System Control Computer in [MO-481]:</u>		
	Verify PUMP 2 is running (motor is green)	<u>ASU</u>	<u>12/16/10</u>
307	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
308	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	<u>ASU</u>	<u>12/16/10</u>

no.	Activity	Documented By	Completed Date
309			
310	DEMONSTRATE SYSTEM OPERATION AT EACH "SECONDARY SUMP" LEVEL:		
311	Configure Pump Discharge:		
312	Configure valves on pump discharge pipelines to route pump discharge		
313	through the bypass pipeline.	ASV	12/16/10
314			
315	Fill Secondary Sump to Water Level DS-1:		
316	On the "TRENCH PUMP CONTROL PANEL":		
317	Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>0.70</u>	ASV	12/16/10
318	Skip ahead to Line 392 to Fill primary Sump	MS 12/16/10 TEW 12/16/10	12/16/10
319	On SUBCONTRACTOR provided test Equipment:		
320	Initial flow meter reading (gallons) <u>3 6880.6</u>	ASV	12/16/10
321			
322	On the Leachate System Control Computer in [MO-481]:		
323	Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>0.69</u>	ASV	12/16/10
324			
325	Add water to the secondary sump until the "SECONDARY SUMP LEVEL"		
326	is above the DS-1 (0.8') level and below the DS-2 (1.3') level.	ASV	12/16/10
327			
328	On the "TRENCH PUMP CONTROL PANEL":		
329	Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.14</u>	ASV	12/16/10
330			
331	On SUBCONTRACTOR provided test Equipment:		
332	Final flow meter reading (gallons) <u>7535.5</u> Total added (gallons): <u>6549</u>	ASV	12/16/10
333			
334	On the Leachate System Control Computer in [MO-481]:		
335	Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.14</u>	ASV	12/16/10
336			
337	Verify PUMP 3 Operation:		
338	On the "TRENCH PUMP CONTROL PANEL":		
339	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
340	Verify that "PUMP 3" does not start	ASV	12/16/10
341	Verify the "PUMP 3 FAILURE" indicator light is off	ASV	12/16/10
342	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASV	12/16/10
343	Verify the "PUMP 3 HIGH/START" indicator light is off	ASV	12/16/10
344	Verify the "PUMP 3 RUN" indicator light is off	ASV	12/16/10
345			
346	On the Leachate System Control Computer in [MO-481]:		
347	Verify there is not a PUMP 3 fail alarm	ASV	12/16/10
348	Verify PUMP 3 is not running (motor is red)	ASV	12/16/10
349			
350	On the "TRENCH PUMP CONTROL PANEL":		
351	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
352			

no.	Activity	Documented By	Completed Date
353	Fill Secondary Sump to Water Level DS-2:		
354	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
355	Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>1.14</u>	ASU	12/16/10
356	<u>On SUBCONTRACTOR provided test Equipment:</u>		
357	Initial flow meter reading (gallons) <u>7535.5</u>	ASU	12/16/10
358	<u>On the Leachate System Control Computer in [MO-481]:</u>		
359	Initial "SECONDARY SUMP LEVEL" reading (Feet) <u>1.13</u>	ASU	12/16/10
360	Add water to the secondary sump until the "SECONDARY SUMP LEVEL" is above the DS-2 (1.3') level.	ASU	12/16/10
361	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
362	Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.37</u>	ASU	12/16/10
363	<u>On SUBCONTRACTOR provided test Equipment:</u>		
364	Final flow meter reading (gallons) <u>7800.7</u> Total added (gallons): <u>265.2</u>	ASU	12/16/10
365	<u>On the Leachate System Control Computer in [MO-481]:</u>		
366	Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.34</u>	ASU	12/16/10
367	Verify PUMP 3 Operation:		
368	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
369	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/16/10
370	Verify that "PUMP 3" starts	ASU	12/16/10
371	Verify the "PUMP 3 FAILURE" indicator light is off	ASU	12/16/10
372	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASU 12/16/10	ASU 12/16/10
373	Verify the "PUMP 3 HIGH/START" indicator light is on	ASU 12/16/10	ASU 12/16/10
374	Verify the "PUMP 3 RUN" indicator light is on	ASU 12/16/10	ASU 12/16/10
375	<u>On the Leachate System Control Computer in [MO-481]:</u>		
376	Verify there is not a PUMP 3 fail alarm	ASU	12/16/10
377	Verify PUMP 3 is running (motor is green)	ASU	12/16/10
378	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
379	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10
380	<i>Skip Ahead to line 398 to continue testing</i> Pump 72-16-10 12/14/10	ASU	12/16/10
381	DEMONSTRATE PUMP "FAIL" OPERATION:		
382	If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL" is just above the D-4 (2.0') level.	ASU	12/16/10
383	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
384	"PRIMARY SUMP LEVEL" reading (Feet) <u>2.04</u>	ASU	12/16/10

Project:		ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form		Location	Cell 9
System Tested:		Leachate Pumps, Transducers Flood Switches, and Controls		Purpose:	Demonstrate that the Leachate System operates as specified
				Rev.	0
				Date	11/02/10
no.	Activity	Documented By	Completed Date		
397	Skip back to line 319 to continue testing	TEW	12/10/10		
398	If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL"				
399	is just above the DS-2 (1.3') level.	ASU	12/16/10		
400					
401	<u>On the "TRENCH PUMP CONTROL PANEL":</u>				
402	"SECONDARY SUMP LEVEL" reading (Feet)	1.39	ASU	12/10/10	
403					
404	<u>On the "TRENCH PUMP CONTROL PANEL":</u>				
405	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
406	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
407	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
408					
409	<u>At the Crest Pad Building Motor Control Center (MCC):</u>				
410	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
411	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
412	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
413					
414	<u>"TRENCH PUMP CONTROL PANEL"</u>	ASU	12/16/10		
415	<u>On the "FLOW TRANSMITTER PANEL":</u>				
416	Initial "PUMP 1" flow meter totalizer reading (gallons)	13153.7	ASU	12/16/10	
417	Initial "PUMP 2" flow meter totalizer reading (gallons)	3592.2	ASU	12/16/10	
418	Initial "PUMP 3" flow meter totalizer reading (gallons)	196.8	ASU	12/16/10	
419					
420	Verify PUMP 1 Alarms:				
421	<u>On the "TRENCH PUMP CONTROL PANEL":</u>				
422	Verify the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/16/10		
423	Verify the "PUMP 1 FAILURE" indicator light is on	ASU	12/16/10		
424	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASU	12/16/10		
425	Verify the "PUMP 1 HIGH/START" indicator light is on	ASU	12/16/10		
426	Verify the "PUMP 1 RUN" indicator light is off	ASU	12/16/10		
427	Verify the "ALARM" indicator is on	ASU	12/16/10		
428					
429	<u>On the Roof of the Crest Pad Building:</u>				
430	Verify the roof light outside of the crest pad building is on	ASU	12/16/10		
431					
432	<u>On the Leachate System Control Computer in [MO-481]:</u>				
433	Verify there is a PUMP 1 fail alarm	ASU	12/16/10		
434	Verify PUMP 1 is not running (motor is yellow)	ASU	12/16/10		
435	Verify autodialer begins calling	ASU	12/16/10		
436					
437	<u>On the "TRENCH PUMP CONTROL PANEL":</u>				
438	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10		
439	Verify the "PUMP 1 FAILURE" indicator is off	ASU	12/16/10		
440	Verify the "PUMP 1 LOW/OFF" indicator is off	ASU	12/16/10		
441	Verify the "PUMP 1 HIGH/START" indicator is on	ASU	12/16/10		

no.	Activity	Documented By	Completed Date
441	Verify the "PUMP 1 RUN" indicator is off	ASU	12/16/10
442	Verify the Crest Pad Building "ALARM" indicator is off	ASU	12/16/10
443			
444	<u>On the Roof of the Crest Pad Building:</u>		
445	Verify the roof light outside of the crest pad building is off	ASU	12/16/10
446			
447	<u>On the Leachate System Control Computer in [MO-481]:</u>		
448	Acknowledge PUMP 1 fail alarm	ASU	12/16/10
449			
450	Verify PUMP 2 Alarms:		
451	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
452	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/16/10
453	Verify the "PUMP 2 FAILURE" indicator light is on	ASU	12/16/10
454	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASU	12/16/10
455	Verify the "PUMP 2 HIGH/START" indicator light is on	ASU	12/16/10
456	Verify the "PUMP 2 RUN" indicator light is off	ASU	12/16/10
457	Verify the "ALARM" indicator is on	ASU	12/16/10
458			
459	<u>On the Roof of the Crest Pad Building:</u>		
460	Verify the roof light outside of the crest pad building is on	ASU	12/16/10
461			
462	<u>On the Leachate System Control Computer in [MO-481]:</u>		
463	Verify there is a PUMP 2 fail alarm	ASU	12/16/10
464	Verify PUMP 2 is not running (motor is yellow)	ASU	12/16/10
465	Verify autodialer begins calling	ASU	12/16/10
466			
467	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
468	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASU	12/16/10
469	Verify the "PUMP 2 FAILURE" indicator is off	ASU	12/16/10
470	Verify the "PUMP 2 LOW/OFF" indicator is off	ASU	12/16/10
471	Verify the "PUMP 2 HIGH/START" indicator is on	ASU	12/16/10
472	Verify the "PUMP 2 RUN" indicator is off	ASU	12/16/10
473	Verify the Crest Pad Building "ALARM" indicator is off	ASU	12/16/10
474			
475	<u>On the Roof of the Crest Pad Building:</u>		
476	Verify the roof light outside of the crest pad building is off	ASU	12/16/10
477			
478	<u>On the Leachate System Control Computer in [MO-481]:</u>		
479	Acknowledge PUMP 2 fail alarm	ASU	12/16/10
480			
481	Verify PUMP 3 Alarms:		
482	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
483	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASU	12/16/10
484	Verify the "PUMP 3 FAILURE" indicator light is on	ASU	12/16/10

Project:	ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form	Location:	Cell 9
System Tested:	Leachate Pumps, Transducers Flood Switches, and Controls	Purpose:	Demonstrate that the Leachate System operates as specified
		Rev.:	0
		Date:	11/02/10

ID	Activity	Documented By	Completed Date
485	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASV	12/16/10
486	Verify the "PUMP 3 HIGH/START" indicator light is on	ASV	12/16/10
487	Verify the "PUMP 3 RUN" indicator light is off	ASV	12/16/10
488	Verify the "ALARM" indicator is on	ASV	12/16/10
489			
490	<u>On the Roof of the Crest Pad Building:</u>		
491	Verify the roof light outside of the crest pad building is on	ASV	12/16/10
492			
493	<u>On the Leachate System Control Computer in [MO-481]:</u>		
494	Verify there is a PUMP 3 fail alarm	ASV	12/16/10
495	Verify PUMP 3 is not running (motor is yellow red)	ASV	12/16/10
496	Verify autodialer begins calling	ASV	12/16/10
497			
498	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
499	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
500	Verify the "PUMP 3 FAILURE" indicator is off	ASV	12/16/10
501	Verify the "PUMP 3 LOW/OFF" indicator is off	ASV	12/16/10
502	Verify the "PUMP 3 HIGH/START" indicator is on	ASV	12/16/10
503	Verify the "PUMP 3 RUN" indicator is off	ASV	12/16/10
	Verify the Crest Pad Building "ALARM" indicator is off	ASV	12/16/10
506	<u>On the Roof of the Crest Pad Building:</u>		
507	Verify the roof light outside of the crest pad building is off	ASV	12/16/10
508			
509	<u>On the Leachate System Control Computer in [MO-481]:</u>		
510	Acknowledge PUMP 3 fail alarm	ASV	12/16/10
511			
512	DEMONSTRATE PUMP "HAND" OPERATION:		
513	Verify PUMP 1 "HAND" Operation:		
514	If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL"		
515	is just above the D-4 (2.0') level.	ASV	12/16/10
516			
517	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
518	"PRIMARY SUMP LEVEL" reading (Feet) <u>2.02</u>	ASV	12/16/10
519			
520	If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL"		
521	is just above the DS-2 (1.3') level.	ASV	12/16/10
522			
523	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
524	Final "SECONDARY SUMP LEVEL" reading (Feet) <u>1.33</u>	ASV	12/16/10
525			
	<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
527	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
528			

no.	Activity	Documented By	Completed Date
529	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
530	Verify at least 10 minutes have elapsed since Pump 1 was shut down	ASV	12/16/10
531	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "HAND" position	ASV	12/16/10
532	Verify that "PUMP 1" starts	ASV	12/16/10
533	Verify the "PUMP 1 FAILURE" indicator light is off	ASV	12/16/10
534	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASV	12/16/10
535	Verify the "PUMP 1 HIGH/START" indicator light is on	ASV	12/16/10
536	Verify the "PUMP 1 RUN" indicator light is on	ASV	12/16/10
537	Pump 1 "FLOW RATE (GAL/MIN)" reading	ASV	12/16/10
538	Verify PUMP 1 produces minimum 140 gpm	ASV	12/16/10
539	190 12/16/10 ASV 12/16/10		
540	<u>On the "FLOW TRANSMITTER PANEL":</u> "TRENCH Pump Control Panel"	ASV	12/16/10
541	Pump 1 "FLOW RATE (GAL/MIN)" reading	ASV	12/16/10
542			
543	<u>On the Leachate System Control Computer in [MO-481]:</u>		
544	Verify there is not a PUMP 1 fail alarm	ASV	12/16/10
545	Verify PUMP 1 is running (motor is green)	ASV	12/16/10
546	Pump 1 "FLOW RATE (GAL/MIN)" reading	ASV	12/16/10
547			
	Measure Pump No. 1 Phase Current	A: 11 B: 10.6 C: 10.7	ASV 12/16/10
549	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
551	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
552	Verify that "PUMP 1" stops	ASV	12/16/10
553			
554	<u>On the Leachate System Control Computer in [MO-481]:</u>		
555	Verify PUMP 1 is not running (motor is red)	ASV	12/16/10
556			
557	Verify PUMP 2 "HAND" Operation:		
558	<u>At the Crest Pad Building Motor Control Center (MCC):</u>		
559	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
560			
561	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
562	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "HAND" position	ASV	12/16/10
563	Verify that "PUMP 2" starts	ASV	12/16/10
564	Verify the "PUMP 2 FAILURE" indicator light is off	ASV	12/16/10
565	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASV	12/16/10
566	Verify the "PUMP 2 HIGH/START" indicator light is on	ASV	12/16/10
567	Verify the "PUMP 2 RUN" indicator light is on	ASV	12/16/10
568	PUMP 2 "FLOW RATE (GAL/MIN)" reading	ASV	12/16/10
569	Verify PUMP 2 produces minimum 15 gpm	ASV	12/16/10
570			
571	<u>On the "FLOW TRANSMITTER PANEL":</u>		
572	PUMP 2 "FLOW RATE (GAL/MIN)" reading	ASV	12/16/10

line no.	Activity	Documented By	Completed Date
573			
574	On the Leachate System Control Computer in [MO-481]:		
575	Verify there is not a PUMP 2 fail alarm	ASV	12/16/10
576	Verify PUMP 2 is running (motor is green)	ASV	12/16/10
577	PUMP 2 "FLOW RATE (GAL/MIN)" reading <u>21.8</u>	ASV	12/16/10
578			
579	Measure Pump No. 2 Phase Current A: <u>1.9</u> B: <u>1.8</u> C: <u>2.0</u>	ASV	12/16/10
580			
581	On the "TRENCH PUMP CONTROL PANEL":		
582	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
583	Verify that "PUMP 2" stops	ASV	12/16/10
584			
585	On the Leachate System Control Computer in [MO-481]:		
586	Verify PUMP 2 is not running (motor is red)	ASV	12/16/10
587			
588	Verify PUMP 3 "HAND" Operation:		
589	At the Crest Pad Building Motor Control Center (MCC):		
590	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
591			
592	On the "TRENCH PUMP CONTROL PANEL":		
593	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "HAND" position	ASV	12/16/10
594	Verify that "PUMP 3" starts	ASV	12/16/10
595	Verify the "PUMP 3 FAILURE" indicator light is off	ASV	12/16/10
596	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASV	12/16/10
597	Verify the "PUMP 3 HIGH/START" indicator light is on	ASV	12/16/10
598	Verify the "PUMP 3 RUN" indicator light is on	ASV	12/16/10
599	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>19.8</u>	ASV	12/16/10
600	Verify PUMP 3 produces minimum 15 gpm <u>Yes</u> No	ASV	12/16/10
601	<i>ASV 12/16/10 T&V 12/16/10 JWS 12-16-10</i>		
602	On the "FLOW TRANSMITTER PANEL": "TRENCH PUMP CONTROL PANEL"		
603	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>19.8</u>	ASV	12/16/10
604			
605	On the Leachate System Control Computer in [MO-481]:		
606	Verify there is not a PUMP 3 fail alarm	ASV	12/16/10
607	Verify PUMP 3 is running (motor is green)	ASV	12/16/10
608	PUMP 3 "FLOW RATE (GAL/MIN)" reading <u>19.7</u>	ASV	12/16/10
609			
610	Measure Pump No. 3 Phase Current A: <u>1.9</u> B: <u>1.8</u> C: <u>1.9</u>	ASV	12/16/10
611			
612	On the "TRENCH PUMP CONTROL PANEL":		
613	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
614	Verify that "PUMP 3" stops	ASV	12/16/10
615			
616	On the Leachate System Control Computer in [MO-481]:		

ie	Activity	Documented By	Completed Date
617	Verify PUMP 3 is not running (motor is red)	ASV	12/16/10
618			
619	DEMONSTRATE PUMP "AUTO" OPERATION:		
620	If needed, add water to the primary sump until the "PRIMARY SUMP LEVEL"		
621	is just above the D-4 (2.0') level.	ASV	12/16/10
622			
623	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
624	"PRIMARY SUMP LEVEL" reading (Feet) <u>2.03</u>	ASV	12/16/10
625			
626	If needed, add water to the secondary sump until the "SECONDARY SUMP LEVEL"		
627	is just above the DS-2 (1.3') level.	ASV	12/16/10
628			
629	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
630	"SECONDARY SUMP LEVEL" reading (Feet) <u>1.37</u>	ASV	12/16/10
631			
632	Verify PUMP 1 "AUTO" Operation:		
633	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
634	Verify at least 10 minutes have elapsed since Pump 1 was shut down	ASV	12/16/10
635	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
636	Verify that "PUMP 1" starts	ASV	12/16/10
637	Verify the "PUMP 1 FAILURE" indicator light is off	ASV	12/16/10
638	Verify the "PUMP 1 LOW/OFF" indicator light is off	ASV	12/16/10
639	Verify the "PUMP 1 HIGH/START" indicator light is on	ASV	12/16/10
640	Verify the "PUMP 1 RUN" indicator light is on	ASV	12/16/10
641	Pump 1 "FLOW RATE (GAL/MIN)" reading <u>165.0</u>	ASV	12/16/10
642			
643	<u>On the "FLOW TRANSMITTER PANEL":</u> ^{raw 12/16/10} ASV 12/16/10, DMS 12-16-10		
644	Pump 1 "FLOW RATE (GAL/MIN)" reading		
645			
646	<u>On the Leachate System Control Computer in [MO-481]:</u>		
647	Verify there is not a PUMP 1 fail alarm	ASV	12/16/10
648	Verify PUMP 1 is running (motor is green)	ASV	12/16/10
649	Pump 1 "FLOW RATE (GAL/MIN)" reading <u>165.1</u>	ASV	12/16/10
650			
651	Verify PUMP 2 "AUTO" Operation:		
652	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
653	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/16/10
654	Verify that "PUMP 2" starts	ASV	12/16/10
655	Verify the "PUMP 2 FAILURE" indicator light is off	ASV	12/16/10
656	Verify the "PUMP 2 LOW/OFF" indicator light is off	ASV	12/16/10
657	Verify the "PUMP 2 HIGH/START" indicator light is on	ASV	12/16/10
658	Verify the "PUMP 2 RUN" indicator light is on	ASV	12/16/10
659	PUMP 2 "FLOW RATE (GAL/MIN)" reading <u>203</u>	ASV	12/16/10
660			

Line No.	Activity	Documented By	Completed Date
561	On the "FLOW TRANSMITTER PANEL":	TEW 12/16/10	
562	PUMP 2 "FLOW RATE (GAL/MIN)" reading	ASV 12/16/10	
563			
564	On the Leachate System Control Computer in [MO-481]:		
565	Verify there is not a PUMP 2 fail alarm	ASV	12/16/10
566	Verify PUMP 2 is running (motor is green)	ASV	12/16/10
567	PUMP 2 "FLOW RATE (GAL/MIN)" reading <u>20.5</u>	ASV	12/16/10
568			
569	Verify PUMP 1 "AUTO" Shutdown:		
570	Continue operation of PUMP 1 until PUMP 1 shuts off (at Level D3 - 1.2')		
571	Verify that PUMP 1 shuts off	ASV	12/16/10
572			
573	On the "TRENCH PUMP CONTROL PANEL":		
574	Verify the "PUMP 1 FAILURE" indicator light is off	ASV	12/16/10
575	Verify the "PUMP 1 LOW/OFF" indicator light is on	ASV	12/16/10
576	Verify the "PUMP 1 HIGH/START" indicator light is off	ASV	12/16/10
577	Verify the "PUMP 1 RUN" indicator light is off	ASV	12/16/10
578	"PRIMARY SUMP LEVEL" reading when PUMP 1 shuts off (Feet) <u>1.20</u>	ASV	12/16/10
579			
580	On the "FLOW TRANSMITTER PANEL": "TRENCH PUMP CONTROL Panel"		
581	PUMP 1 flow meter totalizer reading (gal) <u>18291.8</u> Total pumped (gal): <u>5586.4</u>	ASV	12/16/10
582	Reset PUMP 1 totalizer	ASV	12/16/10
583			
584	On the Leachate System Control Computer in [MO-481]:		
585	Verify PUMP 1 is not running (motor is red)	ASV 12/16/10	12/16/10
586	PUMP 1 flow meter totalizer reading (gal) Total pumped (gal):		
587	Reset PUMP 1 totalizer		
588			
589	On the "TRENCH PUMP CONTROL PANEL":		
590	Switch the "PUMP 1 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/16/10
591			
592	Verify PUMP 2 "AUTO" Shutdown:		
593	Continue operation of PUMP 2 until PUMP 2 shuts off (at Level D1 - 0.8')		
594	Verify that PUMP 2 shuts off	ASV	12/16/10
595			
596	On the "TRENCH PUMP CONTROL PANEL":		
597	Verify the "PUMP 2 FAILURE" indicator light is off	ASV	12/16/10
598	Verify the "PUMP 2 LOW/OFF" indicator light is on AT SHUTDOWN	ASV 12/16/10	12/16/10
599	Verify the "PUMP 2 HIGH/START" indicator light is off	ASV	12/16/10
600	Verify the "PUMP 2 RUN" indicator light is off	ASV	12/16/10
601	"PRIMARY SUMP LEVEL" reading when PUMP 2 shuts off <u>0.80</u>	ASV	12/16/10
602			
603	On the "FLOW TRANSMITTER PANEL": "TRENCH PUMP CONTROL Panel"		
604	PUMP 2 flow meter totalizer reading (gal) <u>4853.8</u> Total pumped (gal): <u>1,274.1</u>	ASV	12/16/10

no.	Activity	Documented By	Completed Date
705	Reset PUMP 2 totalizer	ASV	12/10/10
706			
707	<u>On the Leachate System Control Computer in [MO-481]:</u>		
708	Verify PUMP 2 is not running (motor is red)	ASV	12/10/10
709	PUMP 2 flow meter totalizer reading (gal) _____ Total pumped (gal): _____		
710	Reset PUMP 2 totalizer		
711		ASV 12/10/10 TEW 12/16/10 PMS 12-16-10	
712	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
713	Switch the "PUMP 2 HAND-OFF-AUTO" switch to the "OFF" position	ASV	12/10/10
714			
715	Verify PUMP 3 "AUTO" Operation:		
716	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
717	Switch the "PUMP 3 HAND-OFF-AUTO" switch to the "AUTO" position	ASV	12/10/10
718	Verify that "PUMP 3" starts	ASV	12/10/10
719	Verify the "PUMP 3 FAILURE" indicator light is off	ASV	12/10/10
720	Verify the "PUMP 3 LOW/OFF" indicator light is off	ASV	12/10/10
721	Verify the "PUMP 3 HIGH/START" indicator light is on	ASV	12/10/10
722	Verify the "PUMP 3 RUN" indicator light is on	ASV	12/10/10
723	PUMP 3 "FLOW RATE (GAL/MIN)" reading _____ 19.9	ASV	12/10/10
724			
725	<u>On the "FLOW TRANSMITTER PANEL":</u> ASV 12/10/10 PMS 12-10-10 TEW 12/10/10		
726	PUMP 3 "FLOW RATE (GAL/MIN)" reading _____ 19.9		
727			
728	<u>On the Leachate System Control Computer in [MO-481]:</u>		
729	Verify there is not a PUMP 3 fail alarm	ASV	12/10/10
730	Verify PUMP 3 is running (motor is green)	ASV	12/10/10
731	PUMP 3 "FLOW RATE (GAL/MIN)" reading _____ 19.8	ASV	12/10/10
732			
733	Verify PUMP 3 "AUTO" Shutdown:		
734	Continue operation of PUMP 3 until PUMP 3 shuts off at Level DS-1 (4.2 0.8')		
735	Verify that PUMP 3 shuts off	ASV	12/10/10
736			
737	<u>On the "TRENCH PUMP CONTROL PANEL":</u>		
738	Verify the "PUMP 3 FAILURE" indicator light is off ASV 12/16/10	ASV	12/10/10
739	Verify the "PUMP 3 LOW/OFF" indicator light is on momentarily ASV 12/10/10	ASV	12/10/10
740	Verify the "PUMP 3 HIGH/START" indicator light is off ASV 12/10/10	ASV	12/10/10
741	Verify the "PUMP 3 RUN" indicator light is off ASV 12/10/10	ASV	12/10/10
742	"SECONDARY SUMP LEVEL" reading when PUMP 3 shuts off (Feet) 0.8 ASV 12/10/10	ASV	12/10/10
743		ASV 12/10/10 PMS 12-10-10 TEW 12/10/10	
744	<u>On the "FLOW TRANSMITTER PANEL":</u> "TRENCH PUMP Control Panel"		
745	PUMP 3 flow meter totalizer reading (gal) 889.2 Total pumped (gal): 738.8 ASV 12/10/10	ASV	12/10/10
746	Reset PUMP 3 totalizer ASV 12/10/10	ASV	12/10/10
747			
748	<u>On the Leachate System Control Computer in [MO-481]:</u>		

Project:	ERDF CELL 9 ACCEPTANCE TEST PLAN (ATP) - Test Execution Form		Location	Cell 9
System Tested:	Leachate Pumps, Transducers	Purpose: Demonstrate that the Leachate System operates as specified	Rev.	0
	Flood Switches, and Controls		Date	11/02/10
ie	Activity	Documented By	Completed Date	
2.				

Exceptions:

Number of Exceptions (Attached): NONE

Summary of Exceptions, Actions Taken, and Results: N/A

Witnesses:

<u>Tim Wattle</u> <u>[Signature]</u> WCH Construction Project Manager (Print & Signature)	<u>WCH</u> Company	<u>12/16/10</u> Date
<u>B. Jack Howard</u> <u>[Signature]</u> WCH STR (Print & Signature)	<u>WCH</u> Company	<u>12/16/10</u> Date
<u>Ryan Harris</u> <u>[Signature]</u> TEST DIRECTOR (Print & Signature)	<u>Total Energy Management</u> Company	<u>12-16-10</u> Date
<u>Dave Stovley</u> <u>[Signature]</u> SUBCONTRACTOR QC (Print & Signature)	<u>Dollar Industries</u> Company	<u>12/16/10</u> Date
<u>Joseph Voss</u> <u>[Signature]</u> QA SUBCONTRACTOR/Recorder (Print & Signature)	<u>Envirotech</u> Company	<u>12/16/10</u> Date
<u>Michael A. Webb</u> <u>[Signature]</u> (QA) Witness (Print & Signature)	<u>WCH</u> Company	<u>12/16/10</u> Date
<u>Chris Acevedo</u> <u>[Signature]</u> Witness (Print & Signature)	<u>AEI</u> Company	<u>12-16-10</u> Date
<u>Mark Leonard</u> <u>[Signature]</u> Witness (Print & Signature)	<u>TEM</u> Company	<u>12-16-10</u> Date
<u>James Schut</u> <u>[Signature]</u> Witness (Print & Signature)	<u>Envirotech</u> Company	<u>12-16-10</u> Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date
Witness (Print & Signature)	Company	Date

ATP Reviewed By:

<u>Wen Robertson</u> <u>[Signature]</u> IE-RL (Print & Signature)	<u>DOE-RL</u> Company	<u>12/16/10</u> Date
<u>Kid Lukas</u> <u>[Signature]</u> EPA (Print & Signature)	<u>EPA</u> Company	<u>12-16-10</u> Date