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CPTEST				
OF ENVIRONMENTAL MANAGEMENT				
ITORING FORM FOR <i>GALVANIC SYSTEMS</i>				
ed to the Groundwater Branch, UST Compliance Section at (334) 270-5655				
blished by the National Association of Corrosion Engineers (TM0101), installation and repair of any portion of the UST system, and every 3 years. more than 4 tanks at any one location. Dedic protection within 30 days of completing the test by fax to (334) 270-5631, i.e. Alabama Department of Environmental Management, Groundwater ontgomery, AL 36130-1463. Tay years from the date of the test on a form acceptable to the Department.				
Reason Testing Was Conducted (mark only one)				
☐ Routine test within 1 month of installation				
☐ Routine 3-year test				
☐ Test within 1 month of repair				
General Information				
Date of Testing:				
Temperature:				
Weather Conditions:				
Tank Backfill Material:				
Site Latitude Longitude Underground Storage Tank Facility Site Drawing 1. In the space below, sketch the important parts of the facility such as tanks, manways, fill pipes, tank monitor, vapor recovery connections, piping, vents, drilled test ports, anodes, pump islands, and buildings. 2. Indicate reference cell locations using location code 'R' and sequential numbers (e.g. 81, R2) and structure contact points using the location code 'S' and sequential numbers (e.g. 51, S2) as used in the tables on the following pages. 3. For each tank, include ADEM unique tank number and/or product stored. Use the letter and number designations from the tables on the following pages to indicate reference cell locations and structure contact locations used for each measurement.				
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Underground Storage Tanks Continuity Test Results (Galvanic Systems)

- 1. The "Location Code" must be used to locate the reference cell and structure contact points on the drawing of the facility as discussed on page 1.

 2. Record continuity test measurements using "Fixed Cell, Moving Ground Technique", or the structure-to-structure "Potential Difference Technique".
- 3. When using the "Fixed Cell, Moving Ground Technique", the reference cell must be placed in the soil at a location remote from the UST system (not within potential gradient of anodes or shielded by other tanks or structures) and left undisturbed until continuity testing is completed.
- 4. If one continuity method fails to conclusively show proper isolation, the other method may be used to try to show proper isolation.
- 5. Metallic structures are isolated when the "Voltage Potential" difference between two structures is greater than 10 mv, continuous when 10 mv or less.
- 6. All single and double wall metal tanks should be isolated from all other metallic structures to maximize the life of the tank's galvanic cathodic protection system.

Location Code	Reference Cell Location and Structure Contact Points (Check all available points)	Voltage Potential (negative millivolts)	Results/Comments (Mark the one that does NOT apply)	
R <u>1</u>	*	a divisit Otalia d	Oine in Oallana	
Tank (#	_), ADEM Unique Tank # and/or Grade of Pr		, Size in Gallons	
S	(Tank bottom)(test lead)()**	- mv	(continuous) (isolated)	
S	Submersible pump	1111	(continuous) (isolated)	
S	Fill pipe Tank monitor	1110	(continuous) (isolated)	
 S		- mv	(continuous) (isolated)	
S	Vapor recovery connection Vent line	1111	(continuous) (isolated) (continuous) (isolated)	
S	Other ***	1111		
S	Other ***	- mv	(continuous) (isolated)	
S	Other ***	1111	(continuous) (isolated) (continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
Tank (#_), ADEM Unique Tank # and/or Grade of Pr			
S :		- mv	, Size in Gallons (continuous) (isolated)	
S	Submersible pump	- mv	(continuous) (isolated)	
S	Fill pipe	- mv	(continuous) (isolated)	
S	Tank monitor	- mv	(continuous) (isolated)	
S	Vapor recovery connection	- mv	(continuous) (isolated)	
S	Vent line	- mv	(continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
Tank (#), ADEM Unique Tank # and/or Grade of Pr		, Size in Gallons	
S	(Tank bottom)(test lead)()**	- mv	(continuous) (isolated)	
S	Submersible pump	- mv	(continuous) (isolated)	
S	Fill pipe	- mv	(continuous) (isolated)	
S	Tank monitor	- mv	(continuous) (isolated)	
S	Vapor recovery connection	- mv	(continuous) (isolated)	
S	Vent line	- mv	(continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other****	- mv	(continuous) (isolated)	
Tank (#	_), ADEM Unique Tank # and/or Grade of Pr	oduct Stored	, Size in Gallons	
S	(Tank bottom)(test lead)()**	- mv	(continuous) (isolated)	
S	Submersible pump	- mv	(continuous) (isolated)	
S	Fill pipe	- mv	(continuous) (isolated)	
S	Tank monitor	- mv	(continuous) (isolated)	
S	Vapor recovery connection	- mv	(continuous) (isolated)	
S	Vent line	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	

^{*}Describe remote location of reference cell for "Fixed Cell, Moving Ground Technique". N/A for structure-to-structure "Potential Difference Technique".

^{**}Indicate base structure contact point for both techniques. Mark all that do NOT apply. Make sure tank is not internally lined before using tank bottom.

^{***}Describe location of any other contact points measured.

Underground Storage Tanks Structure-to-Soil Test Results (Galvanic Systems)

- 1. The "Location Code" must be used to locate the reference cell and structure contact points on the drawing of the facility as discussed on page 1.
- 2. A minimum of 3 tank voltage measurements must be taken; one while the reference cell is placed in the soil as close to the middle of the tank as possible and the others while the reference cell is placed in the soil as close as possible to each end of the tank (but not directly over anodes).
- 3. All single and double wall metal tanks using a galvanic cathodic protection system, must have all voltage measurements equal to or more negative than –850 mv to be protected from corrosion and pass the structure-to-soil test.

Location	Structure Contact Point	Voltage	Results/Comments	
Code	and Reference Cell Locations	(negative millivolts)	(Mark the one that does NOT apply)	
T1- (44	Reference Cell Locations	minivons)		
Tank (#				
S	(Tank bottom)(test lead)()*		(n = n =) (f = il)	
R	Soil near submersible pump manway	- mv	(pass) (fail)	
R	Soil near tank monitor manway	- mv	(pass) (fail)	
R	Soil near vapor recovery manway	- mv	(pass) (fail)	
R	Soil near vent riser	- mv	(pass) (fail)	
R	Other	- mv	(pass) (fail)	
R	Other	- mv	(pass) (fail)	
R	Other	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
Tank (#				
S	(Tank bottom)(test lead)()*		4) 4 10	
R	Soil near submersible pump manway	- mv	(pass) (fail)	
R	Soil near tank monitor manway	- mv	(pass) (fail)	
R	Soil near vapor recovery manway	- mv	(pass) (fail)	
R	Soil near vent riser	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
Tank (#	_)			
S	(Tank bottom)(test lead)()*			
R	Soil near submersible pump manway	- mv	(pass) (fail)	
R	Soil near tank monitor manway	- mv	(pass) (fail)	
R	Soil near vapor recovery manway	- mv	(pass) (fail)	
R	Soil near vent riser	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
R	Other**	- mv	(pass) (fail)	
Tank (#	_)			
S	(Tank bottom)(test lead)()*			
R	Soil near submersible pump manway	- mv	(pass) (fail)	
R	Soil near tank monitor manway	- mv	(pass) (fail)	
R	Soil near vapor recovery manway	- mv	(pass) (fail)	
R	Soil near vent riser	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
R	Other **	- mv	(pass) (fail)	
	e structure contact point. Mark all that do NOT an		u / v /	

^{*}Indicate base structure contact point. Mark all that do NOT apply. Make sure tank is not internally lined before using tank bottom.

^{**}Describe location of any other reference cell location used.

Underground Metal Product Piping Continuity Test Results (Galvanic Systems)

- 1. The "Location Code" must be used to locate the reference cell and structure contact points on the drawing of the facility as discussed on page 1.

 2. Record continuity test measurements using "Fixed Cell, Moving Ground Technique", or the structure-to-structure "Potential Difference Technique".
- 3. When using the "Fixed Cell, Moving Ground Technique", the reference cell must be placed in the soil at a location remote from the UST system (not within potential gradient of anodes or shielded by other tanks or structures) and left undisturbed until continuity testing is completed.
- 4. If one continuity method fails to conclusively show proper isolation, the other method may be used to try to show proper isolation.
- 5. Metallic structures are isolated when the "Voltage Potential" difference between two structures is greater than 10 mv, continuous when 10 mv or less.
- 6. All single and double wall metal piping should be isolated from all other metallic structures to maximize the life of the piping's galvanic cathodic protection system.

Location Code	Reference Cell Location and Structure Contact Points (Check all available points)	Voltage Potential (negative millivolts)	Results/Comments (Mark the one that does NOT apply)	
R <u>1</u>	*			
Tank (#	_) Metal Piping, Type of Metal (steel) (coppe	r)() Approximate Length of Piping in Feet	
S	(Piping)(flex conn.) at submersible pump**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
Tank (#	_) Metal Piping, Type of Metal (steel) (coppe	r)() Approximate Length of Piping in Feet	
S	(Piping)(flex conn.) at submersible pump**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Fiping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Fiping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	Other	- mv	(continuous) (isolated)	
S	Other	- mv	(continuous) (isolated)	
Tank (#	_) Metal Piping, Type of Metal (steel) (coppe) Approximate Length of Piping in Feet	
S	(Piping)(flex conn.) at submersible pump**	- mv	(continuous) (isolated)	
S	(Fiping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Fiping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Piping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Piping)(liex conn.) at dispenser #	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #** (Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated) (continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
S	Other ***	- mv	(continuous) (isolated)	
Tank (#) Metal Piping, Type of Metal (steel) (coppe) Approximate Length of Piping in Feet	
S	(Piping)(flex conn.) at submersible pump**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**		(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	(Piping)(flex conn.) at dispenser #**	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	
S	Other***	- mv	(continuous) (isolated)	

^{*}Describe remote location of reference cell for "Fixed Cell, Moving Ground Technique". N/A for structure-to-structure "Potential Difference Technique".

^{**}Indicate piping and/or flex connector. Mark any that do NOT apply.

^{***}Describe location of any other contact points measured.

Underground Metal Product Piping Structure-to-Soil Test Results (Galvanic Systems)

- 1. The "Location Code" must be used to locate the reference cell and structure contact points on the drawing of the facility as discussed on page 1.
- 2. Piping voltage measurements should be taken with the reference cell in the soil at both ends of the piping run (but not directly over anodes), and if the run is longer than 100 feet, in the soil as close as possible to the middle of the piping run (but not directly over anodes).
- 3. All single and double wall metal piping using a galvanic cathodic protection system, must have all voltage measurements equal to or more negative than –850 mv to be protected from corrosion and pass the structure-to-soil test.

negative than -850 mv to be protected from corrosion and pass the structure-to-soil test.			
Location	Structure Contact Point	Voltage	Results/Comments
Code	and	(negative	(Mark the one that does NOT apply)
	Reference Cell Locations	millivolts)	
Tank (#_) Metal Piping	<u> </u>	
1 3 (1	Product piping at (dispenser #)		
s	(sub pump) ()*		
R	Soil at submersible pump	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
	Soil under dispenser #	- mv	(pass) (fail)
	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
	Soil at middle of piping run	- mv	(pass) (fail)
R	Other **	- mv	(pass) (fail)
Tank (#_		l	
("	Product piping at (dispenser #)		
S	(sub pump) (
R	Soil at submersible pump	- mv	(pass) (fail)
	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil at middle of piping run	- mv	(pass) (fail)
R	Other **	- mv	(pass) (fail)
Tank (#) Metal Piping	l	
- G (11	Product piping at (dispenser #)		
S	(sub pump) ()*		
R	Soil at submersible pump	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
	Soil under dispenser #	- mv	(pass) (fail)
	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil at middle of piping run	- mv	(pass) (fail)
R	Other **	- mv	(pass) (fail)
Tank (#_) Metal Piping		W / / /
("	Product piping at (dispenser #)		
S	(sub pump) ()*		
R	Soil at submersible pump	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil under dispenser #	- mv	(pass) (fail)
R	Soil at middle of piping run	- mv	(pass) (fail)
R	Other**	- mv	(pass) (fail)

^{*}Indicate base structure contact point. Mark all that do NOT apply.

^{**}Describe location of any other reference cell location used.

Facility I.D.#					
Cathodic Protection Test Results (Galvanic Systems)					
1. If any portion of the system fails, the system fails, and "Fail" should be r	narked below.				
	I certify that all structures at this facility "pass" the cathodic protection testing and in my best judgement, adequate cathodic protection has been provided to the UST system. No further action is necessary at this time.				
judgement, adequate cathodic protect ☐ Fail protection system must be repaired	I certify that one or more structures at this facility "fail" the cathodic protection testing and in my best judgement, adequate cathodic protection has <u>NOT</u> been provided to the UST system. The cathodic protection system must be repaired in accordance with a code of practice developed by a nationally recognized association or independent laboratory, and re-tested within 1 month following the repair.				
Name:	Name of Company:				
Certifying Organization:	Address:				
Type of Certification:	City, State, Zip Code:				
Date of Certification:	Phone Number:				
Signature:		Date:			
Description of Cathodic Protection	on System Repairs and/or Com	ments			
 If applicable, describe the repairs in detail below and provide a sketch of the repairs are made, provide the code of practice information below such the Addition of Supplemental Anodes to STI-P3 USTs". 					
Association or Independent Laboratory:					
Code of Practice Name:					
Code of Practice Number:	Code of Practice	e Date:			
	·				
Underground Storage Tank Protection Owner Certification					
I certify under penalty of law that I am familiar with the information on this form and that based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.					
Signature of Owner: Date:					