# 2016 Tribal Lands and Environment Forum Underground Storage Tanks

Mohegan
Connecticut
Program Updates

Eight Northern Indian Pueblos Council
Underground Storage Tank Program
New Mexico
Leonard Sabatino





### 

### Introduction

#### **Leonard Sabatino**



Eight Northern Indian Pueblos Council, Inc.
Office of Environmental Technical Assistance
Underground Storage Tank Program
4 Years

Originally from Philadelphia Pennsylvania
Geo-Environmental Studies 2001
9 years at the Los Alamos National Laboratory







### No New Installations, But lots of talk and lots of imagination.









# Permanent Closure Average about 1-2 every 5 years. Contractor safety is a challenge.









### 

### **Permanent Closure**

How about a Safety Pause?!

Contractor's judgement can be questionable.









### **Permanent Closure** Almost done. Did anybody inert the tanks?









### Eight Northern Indian Pueblos Council Underground Storage Tank Program

How we are assisting the tribal and pueblo **UST** facilities in **NEW MEXICO** today.

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## Compliance Assistance for Pueblos and Tribes in New Mexico.

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### What are we up to:

- \*All assistance visits are on-site training visits that may take up to 7 Hours!
- \*Define the requirements for leak detection and leak prevention.
- \*Define the facility equipment.
- \*Communicate consistently.
- \*Have Patience. Lots of Patience.
- \*Follow up with reminders, due dates for line testing and corrosion protection testing.





# Operating properly? Good record keeping? Compliance? If not, check your email...









Good morning,

Attached is the UST compliance assistance report for the

Thank you for your attention during the compliance assistance training. The training sign in sheet is attached as well (last page).

I do have some recommendations, reminders and important information below associated with operations and maintenance, as well as compliance:

- 1) As a reminder, the line tightness tests and automatic line leak detector functionality tests will be due on or before 4/28/2016.
- 2) Recommend renewing the certificate of insurance, the certificate within the compliance assistance binder expired on 1/16/2016. Insurance for UST systems covers cleanups, property damage, and injuries from sudden and non-sudden accidental releases.
- 3) Recommend utilizing the new assistance binder to train new employees and train to the new UST regulations.
- 4) Keep up the good work with tank leak testing recordkeeping.
- 5) Recommend having a spill kit at the facility, a typical spill kit includes: a broom, absorbent material (kitty litter), water tight waste drum or trash can. Recommend the proper disposal of petroleum contaminated absorbent material.
- 6) Recommend conducting monthly walkthroughs and monitoring deliveries.
- 7) Recommend installing containment sumps beneath the dispensers to contain drips and leaks coming from within the dispenser above the ground surface.
- 8) As a reminder, corrosion protection testing for tanks and dispenser sumps will be due June 2017.

All of this information is on page 2 of the report.

I recommend reviewing the report, and print the report for the compliance assistance binder.

Please call me at the number below if you have any questions.

Keep up the good work.

#### COMPLIANCE ASSISTANCE REPORT FOR UNDERGROUND STORAGE TANKS

THE INDIAN GET BELLEVILLE OF THE INDIAN GET B		OE TA		
FACILITY NA	ME:	Date:		
ADDRESS:	462 North Riverside Drive			
CITY:	ESPANOLA			
STATE:	NM			
ZIP:	87532			
COUNTY:	Rio Arriba			
	IONE NUMBER: 505-747-8168	-		
Facility Operator Rep. Contact:		Phone: Cell: 901-8752		
UST Owner:		Phone: 505 753 7330		
Owner Mailing:	Address: PO Box 580			
	City: Espanola State: NM			
	zip: 875.32			
PERSONNEI				
Report By:	LEGHARD SABATINO			
Date:	4-19-2016			
Time:	9 <sub>AM</sub>			
Representative Signature:	Not Obtained			
COMPLIANCE Has the facility met	ASSISTANCE With Release Detection and Release Prevention Significant Operational Compliance Measures for Release DETECT	vention. TION and Release PREVENTION: VES		
Which compliance n	neasure was not met:	,		
Explanation for compliance measure not being met:				
How the complia	ance measure not being met can be resolved:			

C-StarE2

Summary of Facility Monitoring Visit:
C-Store 2
DSpill Kit: Broom, Absorbert Material, TRASH CAN-WATER Tight.
(2) LINE Jule on of Detoited May 1910-2016.  (3) Insurance Recommend Renew May 2016.  (3) Insurance Recommend Renew May 2016.  (4) As a reminder, Corrosion, Protection  (5) As a reminder, Corrosion, Protection
ALCO reminder, Corrosion, Protection
As a reminder, Corrosioning Constitution of the Lanks and dispenser testing for tanks and dispenser
SUMPS WILL DE UNE Sommen
SUMPS WITH DEGLED SIMPLE SUMPS OF GAND AND TONK LEAK Detection AND Record Keeping Organization Looks great Conducting Monthly
Record necestaria
6 Recommend Conducting Monthly Monitoring deliveres
@ Recommend Conducting deliveres
DRECOMMEND INSTAlling CONTAINMENT SUMPS DENEATH the dispensers  To CONTAIN OF DES AND LEAKS.
To Contain drips and Leaks.
TO CONTAIN OF

Compliance Assistance CHECKLIST 2 Significant Operational Compliance=SOC = S REVISED: August 13, 2015

C-Store 2 COMPLIANCE ASSISTANCE Facility ID #: FACILITY NAME DATE(S): Owner ID#: SITE DRAWING e Info: OTANKS STIP3 - Single While @Piping Fiberglass-Singlethle 3) Mechanical line leal/Detect @ Overfill Protection Flapper Valves BATE INCOLTS 1001 12 D'SPENSERS UNCONTained SUMPS ANK 3 Premium 10,000 Gallon in an aculon Regular 10.000 called 02 Riverside Drive

M. Sitore 2

FACILITY NAME:				Date: 4.19.2016			
Underground Storage Lanks Listed Below have been Registered with the Federal EPA							
TANK							
NO.	(GALLONS)	STORED	1 5	Active or TC	DATE		
1	10.000	REGULAR	Coated	Active	9/1994		
2	10,000	REGULAR	ANDI		9/1994		
3	10.000	PREMIUM			9/1994		
			Cathalially		.,,		
			PROTECTED				
			- L				
			Seel				
	/		STIPS				
TANK T	YPE Single Wall	Double Wall:	Singl	le la la l	STI	P.3	
	esign and construction to						Yes No NA
							THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN
EXISTING	TANKS UPGRADES			22/88)	*		PREVENTION
		Wall Tank Type					
	and s ungraded to meet ta		ms? C L	comb nation		<u>S-P8</u>	☐ Yes ☐ No ☐ N/A
a. M. Tan			The section	ed		P7/8	Yes No No N/A
b. Metal tan	with CP. Type of CP:	>10 yrs old CP	added? integrity	Test and Date?		<u>S-P8</u>	Yes No No
	YPE Single Wall		Single li				orced Plastic
1. Proper d	esign and construction t	o prevent corrosion	7 Fiberglass, Non-	metallic Flex,	Metalw/CP	S-P8	Yes   No   N/A
2/Metal con	mponents(flexible conne	ctors, submersible t	urbine pumps)Pro	tectedfromCor	rosion?How?	S-P8	Anodes
	npact valves/shear valves red)? (NFPA 30A Chapter						Mes   No   N/A
1. Is each tar	nk equipped with Spill Pro	evention Equipment	?			\$-P1	Yes No NA
Spill Preven	tion equipment has liquid	tight sides and botto	om (not cracked or l	broken)?		<u>S-P1</u>	Yes   No   N/A
1. Is each tai	nk equipped with Overfil	Prevention Equipm	nent?			S-P2	Yes   No   N/A
2. Overfill I	Prevention Equipment de	signed to: (Shutoff	Restrict Alarm			S-P2	
utomatic flor	w shut off when the tank	is no more than 95%	full? (device not ta	ampered with	or inoperable)	1	Yes No No NA
Alert the trans	fer operator when the tan	k is 90 % full by rest	ricting flow into the	e tank-ball floa	t valve.		Yes No No N/A
lert the transi	fer operator when the tank	is 90% full triggeri	ng an <b>overfill alar</b> n	n near the fill p	ort? Work?		Yes No MN/A
OPERATION and MAINTENANCE of CORROSION PROTECTION SYSTEMS PREVENTION							
1. Is the c	corrosion protection system	m continuously opera	ated and maintained	1		S-P5	MYCS No No N/A
	e cathodic protection syste					<u>S-P5</u>	Yes No No NA
3. Was th	e cathodic protection syst	em tested within 6 m				S-P4	☐ Yes ☐ No ☐ N/A
4. Is the system tested at least every 3 years? Dates: 2010 6 2014 S-P5					Yes No No N/A		
5. Inspection meet the requirements of a code of practice developed by a nationally recognized association?					May No No N/A		
6. Does the facility have copies of the last 2 CP inspections?					MYes No NA		
7. If the UST system has an impressed current, is the rectifier inspected every 60 days? S-P6					Yes No No N/A		
8. As outlined in EPA regulations, does the facility have copies of the last 3 rectifier inspections?					Yes No No N/A		
<ul> <li>9. Are all records of UST system repairs retained for the operating life of the UST system?</li> <li>a. Is a tightness test performed on the tank and/or piping within 30 days of a repair?</li> </ul>					Yes No No N/A		
						S-P3 S-P4	Yes No N/A
b. Is t	the cathodic protection sy	stem tested within 6	montus of a repair			<u> </u>	Yes No No N/A

FACILITY NAME:	Date			
FACILITY NAME:	Date	4-19-2016		
Requirements for Tank Leak Testing		DETECTION		
1. Does the facility perform a method of release detection? Check "No" if no RD conducted	S-D1	Yes No No N/A		
2. Is the method of release detection capable of detecting a release from any portion of the tank?	S-D2	Yes   No   N/A		
3. Is the release detection system installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions including routine maintenance, etc.?		Ø (ves) □ No □ N/A		
4. Does the release detection system meet the performance standards? Check 3rd party certification.	S-D3	M(Yes) No No N/A		
5. Are all USTs monitored at least every 30 days for releases?	S-D5	Yes   No   N/A		
Requirement for Tank Leak Testing Record Keeping DETECTION				
1. Does the facility maintain all monitoring results, sampling records, equipment testing, calibration and		4		
maintenance records, or leak detection equipment repair records for at least one year?	<u>S-D5</u>	Yes No N/A		
RELEASE REPORTING, INVESTIGATION, and CONFIRMATION				
DETECTION				
SUSPECTED RELEASES: Report unusual operating conditions, failed tests, product dis				
<ol> <li>When a release detection method indicates that a release may have occurred; has the facility</li> </ol>				
EPA of a suspected release?	S-D4	Yes No No		
2. Facility has resolved suspected releases?	S-D4	Yes No No NA		
SPILLS and OVERFILLS: Report >25 gals, <25 gals can't be cleaned up in 24thrs, sheen	H20	Yes No MNA		
TANKS RELEASE DETECTION/LEAK TESTING METHODS		DETECTION		
1. Automatic Tank Gauging (ATG)		S-D5		
Make and Model: INCON TS 1001		/		
a. Is the ATG capable of detecting a leak of 0.2 gal/hr leak rate?	S-D3	Mes   No   N/A		
b. As the sole method of release detection, the ATG must test the tank at least once per month in a man		MYes) No No N/A		
can detect a 0.2 gal/hr release with a pd > 0.95 and a pfa < 0.05	S-D3	2.50		
c. The ATG will generate a hard copy which contains the following:				
i. the time and date of the test		M(Ves)   No   N/A		
ii.the tank identification		MYES NO NO N/A		
iii.the qualitative result either "pass" or "fail"		MYes   No   N/A		
Interstitial Monitoring	S-D5	Tes E in E		
Describe a UST system which has he double willed tank, secondary barrier?	9.00	☐ Yes ☐ No ☐ N/A		
Can the method at test a release t rot. It be inter will of the tank?	S-D2	Yes No NA		
Continuous interstitial me toring by an automatic leak sensing device that signals to the ope		I its I its I its		
presence of any regulated substant in the interstitial space or sump: Specify:		Yes No No N/A		
3. Statistical Inventory Reconculation (SIR)	S-D5			
a. Can the SIR method detect a release of 0.2gan. from any portion of the UST System that	S-D3			
$\frac{1}{2}$ and $\frac{1}{2}$ s product with a pd $> 0.95$ and a pta $\frac{1}{2}$ 0.5?		Yes No No N/A		
Delib c was of erator provide the conclusive provider of the SIR provider vendor within 15 c	lays			
of owing the last day of the call hala the for which the analysis we performed?		Yes No N/A		
c. Die the SL analysis resolving the S lowing information				
the name of the SIR provider and the name and version of the SIR method;		Yes No No N/A		
ii the name and address of the facility at which the analysis was performed;		Yes No No N/A		
iii. a description of the UST system for which the analysis was performed;	the	☐ Yes ☐ No ☐ N/A		
<ul> <li>a quantitative statement, in gallons/hr, for each UST system monitored for the month, of leak threshold, minimum detectable leak rate, and the indicated leak rate;</li> </ul>	.ne	Yes N/A		
v. a qualitative statement of "pass," "fail," or "inconclusive" for each UST system monitore	d	Yes No No		
	AND REAL PROPERTY AND PERSONS ASSESSED.	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OWNER		
Notes with regards to SOC Release Detection: REMINDER FOR LINE TESTINGS Water in Tank: NONE				
Alarm Status: NONE				

C-St-RE2

FACILITY NAME: Date:	4.19.2016
PIPING RELEASE DETECTION/LEAK TESTING	DETECTION
1. Pressurized Piping: Is release detection performed on the UST system's piping S-D1	MYES   No   N/A
Automatic Line Leak Detectors (ALLD) installed (one of the following methods is required on all pressurized	
lines, regardless of line leak detection method used)	
TYPE of Line Leak Detectors; MECHANICAL OR ELECTRONIC MODEL: Red Jacket Vapo	r Less_FE PETRO
1.Automatic flow restrictor-MECHANICAL	
*Is a performance test conducted every 12 months on the line leak detector according to manufacturer's	1
requirements?	1
Previous Testing Dates: 2074	1
Most Recent Test Date: 4-28-2015	
*A line tightness test conducted every 12 months?	
Previous Testing Dates: 202014	
Most Recent test Date: A 28-2015	
Is LTT method capable of detecting a 0.1 gal/hr leak rate from any portion of the piping routinely containing	
product? S-D3	MYES No No N/A
2. Automatic shutoff, Alarm-ELECTRONIC	
*3 gal/hr test printed from ATG with a result of PASS	
AND	
*0.1 test printed from ATG with a result of PASS OR Monthly 0.2 test with a result of PASS S-D5	Yes No No
ARY CLOSURE	DETECTION
If greater than 1 inch or many remains, is monthly release detersion contact that the service of	☐ Yes ☐ No ► N/A
If applicable, is the Cathodic Protection bear, contained?	☐ Yes ☐ No ☐ N/A
2. For UST systems temporarily closed for 3 months or more, and owner opera price.	
Leave vent line open and functional?	☐ Yes ☐ No ☐ N/A
Cap and secure all other lines, pump, may vs.	☐ Yes ☐ No ☐ N/A
3. For any non-upgraded UST system n temp, rarily cos d ff - production of the system	
owner/operator permanently clos d the system?	☐ Yes ☐ No
Additional Record Keeping	
EPA Notification Form/Registration form -current and accurate? -On site? -Amended for acquiring a UST?	
-Amended change in Service? -Ownership change? -Installer certification? Permanent Closure? Temp. Closure?	Ves   No   NA
Reports of all releases-suspected releases- spills and overfills-confirmed releases?	Yes No MNA
Corrective Actions-Descriptions of corrective action plans, site characterizations, free product removal	
investigation of soil and groundwater cleanup, and corrective action plan?	Yes No MOVA
Site Assessments-Results of site assessment conducted at permanent closure?	Yes   No Litera
Repairs-Documentation of UST system repairs? Maintain documentation for the life of the UST System.	Yes No Dinia
Installation Records-Documentation of the type and construction of the tanks, piping, leak detection equipment,	
corrosion protection equipment, and spill and overfill protection equipment?	
* •	Yes No N/A
INSURANCE: Current Certificate and Certification of Financial Responsibility	
1. Can the owner/operators demonstrate financial responsibility/Insurance for taking corrective action (Cleanum	ps), and 3 <sup>rd</sup> party
liability (property damage and injuries)? YES	
11/ 201/ 5	
Dates of Coverage: 1-16-2016 Expired	-
Insurance AAT	i
Company:	

#### Typical Owner/Operator ENIPC Training AGENDA

- Welcome, Introductions and Purpose.
- UST Program Overview.
- UST Program Definitions.
- UST Systems: Tanks, Piping, and Sump Areas.
- Submersible Turbine Pumps.
- Dispensers.
- Underground Storage Tank Federal Regulations and Requirements.
- UST Program Scope.
- UST System: Design, Construction, Installation and Notification.
- General Operating Requirements.
- Leak Testing/Release Detection.
- Release Reporting, Investigation and Confirmation.
- Release Response and Corrective Action for UST Systems.
- Out of Service UST Systems and UST Facility Closure.
- Financial Responsibility.
- NEW UST Regulations. Safety. Site Walk Through and Evaluation.





## Owner/Operator Training Average number of participants: 15-25.







# 1-3 Owner/Operator Trainings per year.







### Owner/Operator Training Incorporate a Site Walkthrough.





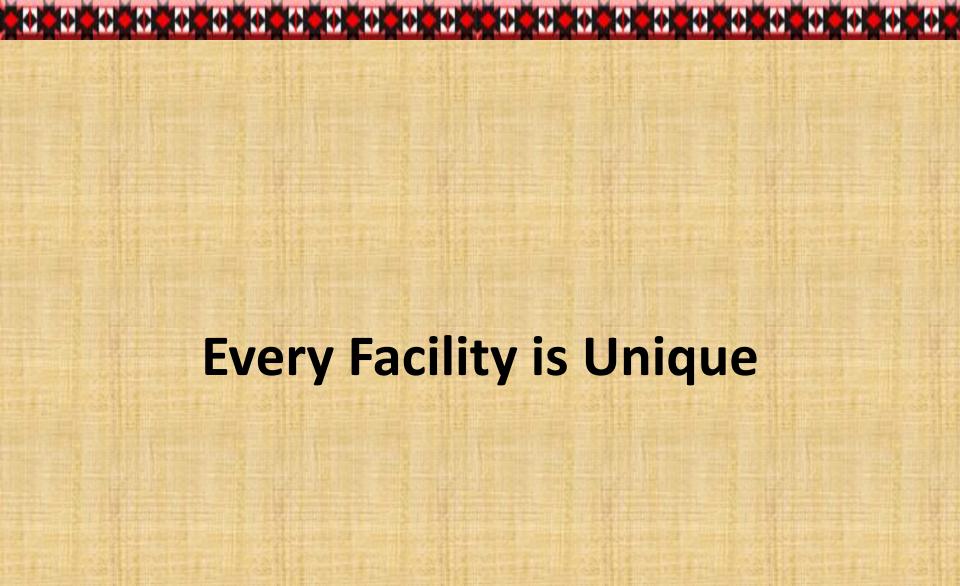


### **Identifying Equipment.**



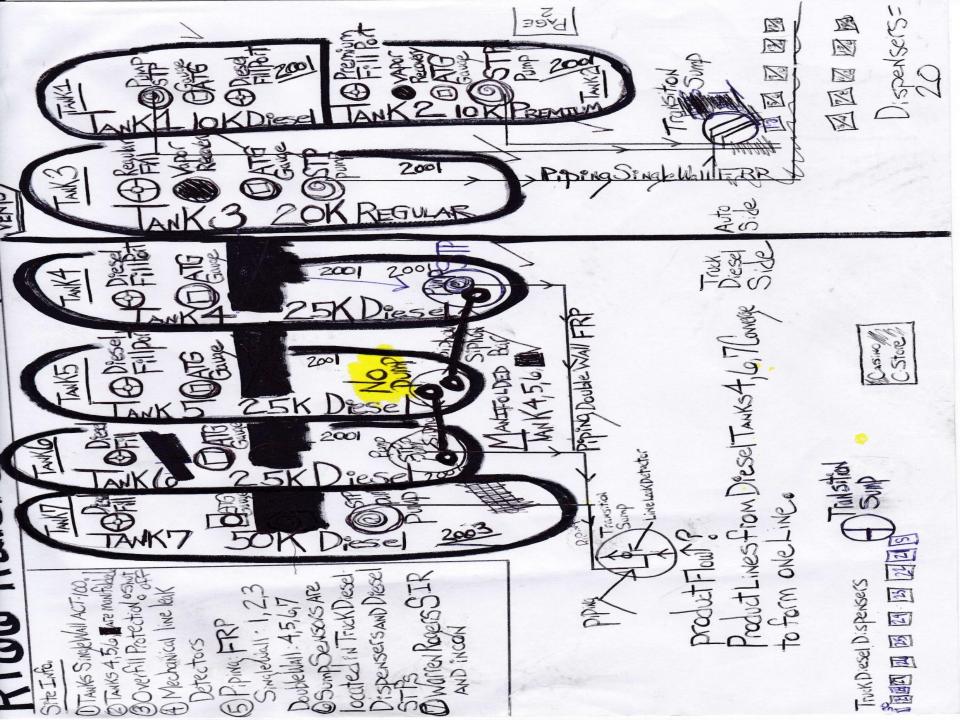






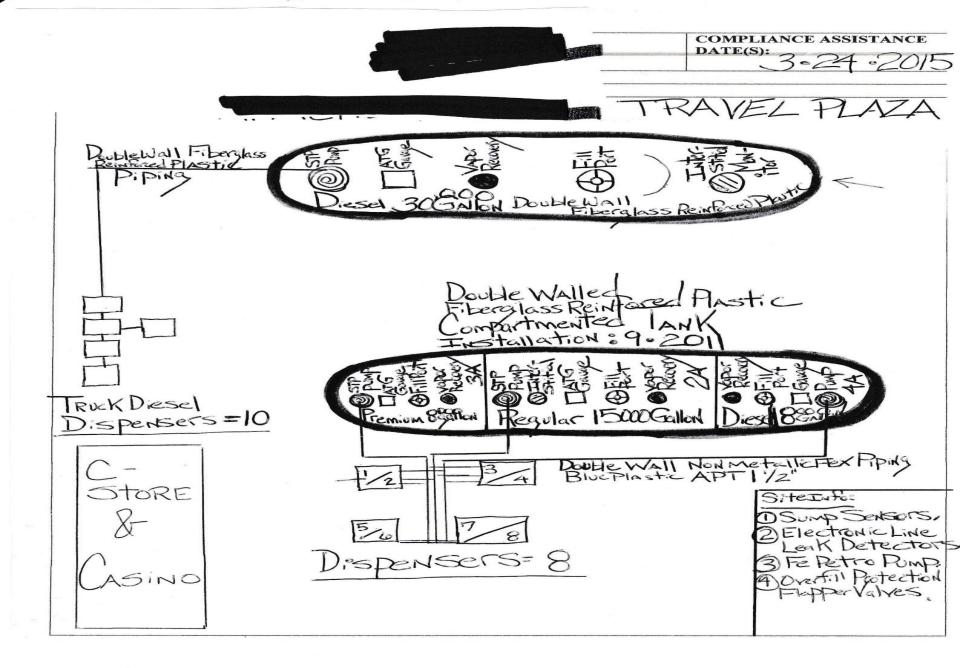




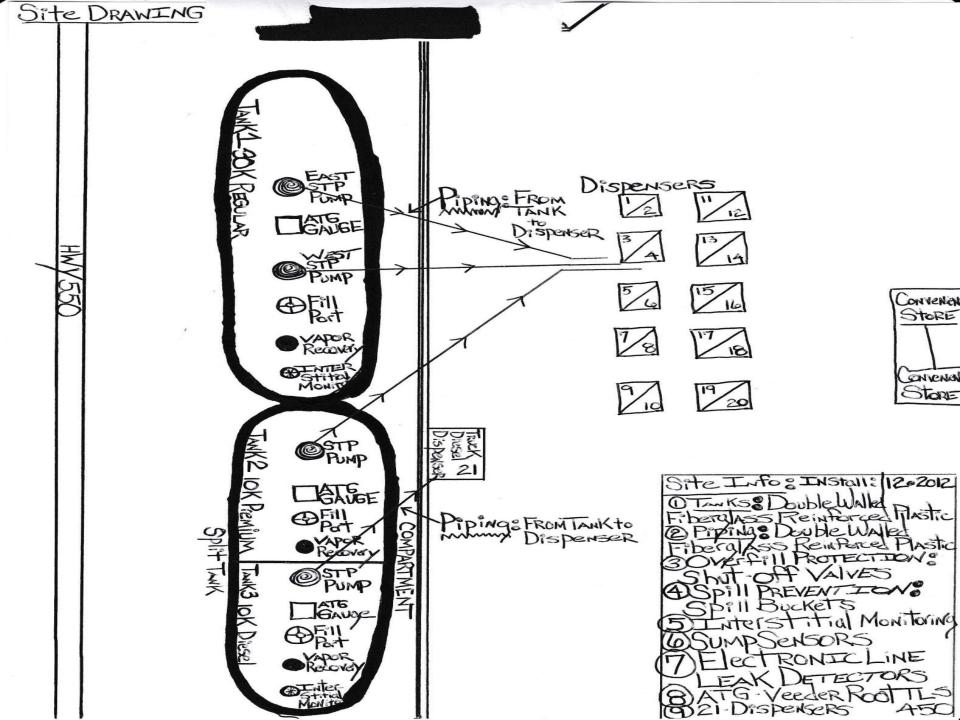




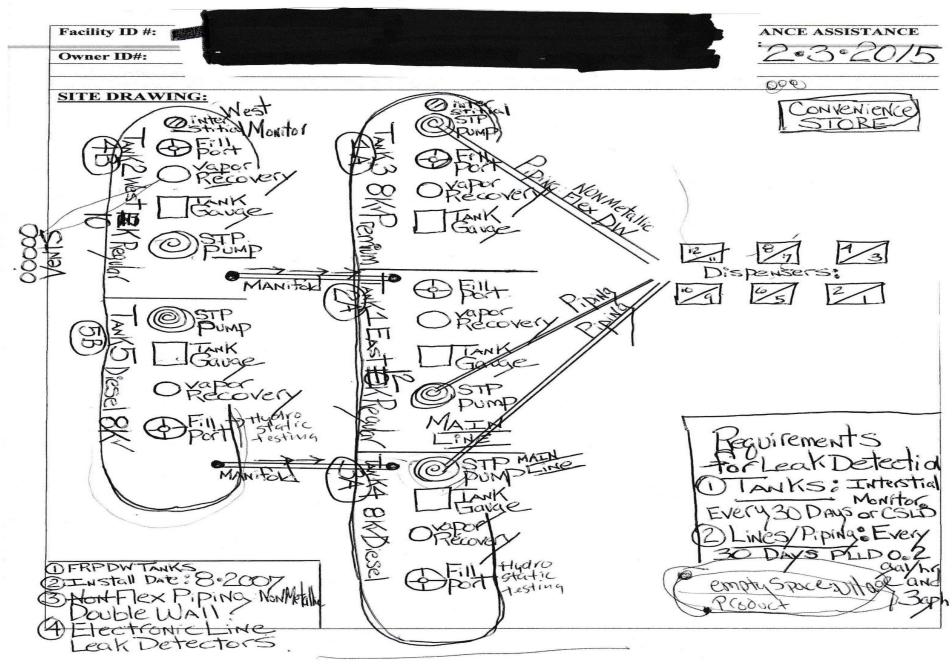












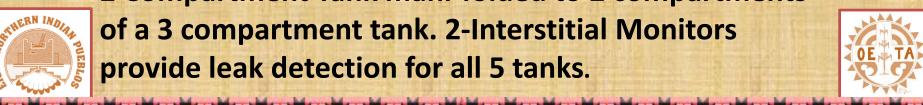
Compliance Assistance CHECKLIST 2 Significant Operational Compliance=SOC = S REVISED: September 18, 2014





### **Tank Manifolding**

2 Compartment Tank mani-folded to 2 compartments









Double-Walled STI-P3 Tanks. Interstitial Monitoring, installation 1998.



Mechanical Line leak Detectors.







Contractors Didn't Install Interstitial Monitoring!

Double Walled Clad Tanks and Double walled FRP piping.

Ball Float overfill protection. Electronic Line leak detectors.



Triple compartment and Double Compartment tanks = 5 Tanks.



Every Facility is unique, challenging, interesting, and in need of a lot of assistance!









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505-692-8772

**Questions?** 

Thank you EPA, tribes and pueblos!

