



SARASOTA COUNTY

"Dedicated to Quality Service"

December 12, 2013

Florida Department of Environmental Protection
Solid Waste Program and Permitting
MS 4565
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Sarasota County
Central County Solid Waste Disposal Complex
Solid Operation Permit No. 130542-007-SO/01
WACS No. 51614
Leachate Storage Tank Inspection Report

Dear Sir or Madame:

Sarasota County is pleased to submit the attached storage tank inspection report for the 1.8 million gallon pre-stressed concrete leachate storage tank located at the Central County Solid Waste Disposal Complex in Nokomis, FL. The inspection was performed in accordance with Specific Condition C.8 of Permit No. 130542-007-SO/01. The inspection was due to be completed by April 15, 2013, however, due to delays in procurement of the inspection services and multiple weather delays, as notified to the Department South District in attached emails, extensions were granted allowing the inspection to be performed no later than December 31, 2013.

On November 14 and 15, 2013, the Precon Corporation emptied and cleaned the storage tank and performed the inspection in accordance with the applicable standards. The inspection was supervised by and the report signed and sealed by a Professional Engineer licensed in the State of Florida. As detailed in the inspection report, the inspector found the tank to be in good structural condition, with no signs of leakage or hollows in the concrete over coat. All appurtenances including stairs, piping, and the level gauge were found in good condition and operational. The suggestions provided by the inspector in the report are considered to be minor in nature and have no structural impact on the tank.

In accordance with the requirements of Rule 62-701 and Permit No. 130542-007-SO/01, the County will schedule the next inspection to occur by April 15, 2016. In the next inspection, the items the inspector listed in the report to re-inspect will be specifically included in the inspection requirements.

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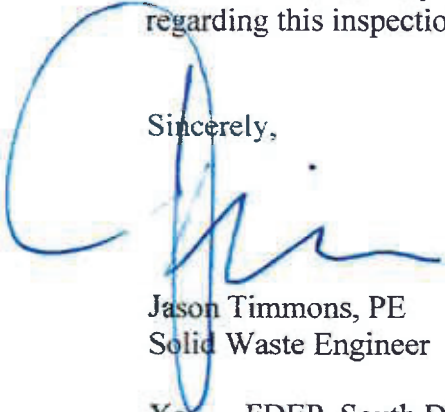
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In addition, the County intends to address a few of the minor items listed by the inspector, including Section 5 Item No. 8e recommending installation of hardware for a pipe support and Section 5 Item 4 regarding exterior cracking of the outer shell of the tank,. Since these items are not considered critical or necessary for the integrity or operation of the tank, the County does not have a schedule at this time, but plans to address these items before the next inspection.

Please contact me anytime at 941-861-1572 if you have questions or require additional information regarding this inspection report and attached documents.

Sincerely,



Jason Timmons, PE
Solid Waste Engineer

Xc: FDEP, South District
Lois Rose, Sarasota County

Attachments (2)

Email Correspondence for Leachate Tank Inspection Due Date Extensions
Precon Corporation Tank Inspection Report

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Jason Timmons

From: Jason Timmons
Sent: Monday, December 02, 2013 11:24 AM
To: Jason Timmons; 'Krumbholz, Bill'; 'Standiford, James'
Cc: 'Ahmadi, Abdul'; 'McLaurin, Albert'; 'Maier, Gary'; Gary Bennett; Lois Rose
Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill and Jay:

I just wanted to update you on the status of the leachate storage tank inspection. The tank was cleaned and inspected on November 14 and 15 as planned. The inspector found no significant issues with the tank and allowed us to place the tank back in service when the inspection was completed. The report is being shipped to me this week. My understanding from the inspector and engineer is that they have only minor recommendations for maintenance of the tank that would be mostly for aesthetic purposes and in no way are essential for continued operation and performance of the tank. Upon receipt and review, I will forward the report to you per the requirements of the CCSWDC SW Operations Permit. Thank you for your assistance and patience with us as we worked on completing this project.

Jason

Jason Timmons, P.E.

Sarasota County Public Utilities | Solid Waste Engineer

office: 941-861-1572
cell: 941-400-2370
email: jtimmons@scgov.net

4000 Knights Trail Road, Nokomis, FL 34275

All communications sent to and from Sarasota County Government are subject to the public records law of Florida.

From: Jason Timmons
Sent: Saturday, November 09, 2013 10:09 AM
To: 'Krumbholz, Bill'; Standiford, James
Cc: Ahmadi, Abdul; McLaurin, Albert; Maier, Gary; Gary Bennett; Lois Rose
Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill and Jay:

The leachate storage tank at the Central County Landfill is currently at 0.25 feet according to the exterior level gauge, therefore the County as schedule the leachate tank cleaning and inspection with the Contractor for the project, the Precon Corporation, for November 14 and 15 (Thursday and Friday) next week. It appears the weather will continue to be favorable next week to perform the work. We will keep you informed on the progress of the cleaning and inspection work.

Thank you.

Jason

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Jason Timmons, P.E.

Sarasota County Public Utilities | Solid Waste Engineer

office: 941-861-1572

cell: 941-400-2370

email: jtimmons@scgov.net

4000 Knights Trail Road, Nokomis, FL 34275

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From: Krumbholz, Bill [<mailto:Bill.Krumbholz@dep.state.fl.us>]

Sent: Tuesday, July 23, 2013 07:42 AM

To: Jason Timmons; Standiford, James

Cc: Ahmadi, Abdul; McLaurin, Albert; Maier, Gary; Gary Bennett; Lois Rose

Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Thank you Jason. Your proposal is acceptable to the Department. Bill

From: Jason Timmons [<mailto:jtimmons@scgov.net>]

Sent: Monday, July 22, 2013 8:53 AM

To: Krumbholz, Bill; Standiford, James

Cc: Ahmadi, Abdul; McLaurin, Albert; Maier, Gary; Gary Bennett; Lois Rose

Subject: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill and Jay:

As discussed during our meeting on Wednesday last week and with Bill this morning, the County respectfully requests an additional extension in the due date for the Leachate Tank Inspection Report. Due to the rainfall received this season, the County has not been able to pull the tank offline or have it at a low enough level to properly perform the inspection. The cleaning and inspection crew is under contract and we are simply waiting for an open window of dry weather along with having the tank pumped down to less than 1 foot of leachate. We are currently at 9.5 feet in the leachate storage tank and it does not appear that the wet weather conditions will allow us to perform the tank inspection in the near future.

Given the difficulties in scheduling and performing the inspection during the wet season, we are anticipating not being able to perform the tank inspection until we see drier weather which is expected toward the end of the year. Therefore, the County requests an extension of the due date for the leachate tank inspection to December 31, 2013. This equates to an additional extension of 155 days from the last approved extension date of July 29, 2013. The report will still be due to the Department within 30 days of completion of the inspection.

We understand that this is a substantial extension request, and even though the County is requesting this long extension, be assured that the County will continue to make all efforts to lower the level in the leachate tank and monitor weather conditions at all times, and we will perform the inspection when conditions are favorable at the earliest possible opportunity.

Please let us know if this request is acceptable. Thank you again for your assistance with this project.

Jason

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Jason Timmons, PE

Sarasota County Public Utilities | Solid Waste Engineer
4000 Knights Trail Road, Nokomis, FL 34275
Office: 941-861-1572
Cell: 941-400-2370
email: jtimmons@scgov.net

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From: Krumbholz, Bill [<mailto:Bill.Krumbholz@dep.state.fl.us>]

Sent: Wednesday, June 26, 2013 12:45 PM

To: Jason Timmons

Cc: Lois Rose; Gary Bennett; McLaurin, Albert; Standiford, James; Ahmadi, Abdul

Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Thanks for the update Jason. Bill

From: Jason Timmons [<mailto:jtimmons@scgov.net>]

Sent: Tuesday, June 25, 2013 4:06 PM

To: Krumbholz, Bill

Cc: Lois Rose; Gary Bennett; McLaurin, Albert; Standiford, James

Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill and Jay:

Quick update on the tank project, we are currently at about 1 foot in the tank, and barring any large rain events we have the inspection and cleaning crews scheduled for Tuesday July 2 to begin work. We will keep you informed on the progress.

Thank you.

Jason

Jason Timmons, PE

Sarasota County Public Utilities | Solid Waste Engineer
4000 Knights Trail Road, Nokomis, FL 34275
Office: 941-861-1572
Cell: 941-400-2370
email: jtimmons@scgov.net

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From: Krumbholz, Bill [<mailto:Bill.Krumbholz@dep.state.fl.us>]

Sent: Thursday, June 20, 2013 08:00 AM

To: Jason Timmons

Cc: Lois Rose; Gary Bennett; McLaurin, Albert; Standiford, James

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Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Jason,

Given the current weather conditions, Your new extension date will be July 29, 2013. Thank you for keeping us up to date on your storage tank situation. Bill

Please take a few minutes to share your comments on the service you received from the department by clicking on this link [DEP Customer Survey](#).

From: Jason Timmons [<mailto:jtimmons@scgov.net>]

Sent: Tuesday, June 18, 2013 11:36 AM

To: Krumbholz, Bill

Cc: Lois Rose; Gary Bennett; McLaurin, Albert; Standiford, James

Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill:

We are currently at approximately 4.5 feet in the storage tank and continuing to pump down the tank. We were unable to pump the tank down to a level required to perform the inspection early this week. At this point, Precon's next availability to perform the inspection is July 1 through 3, approximately two weeks from today.

Given the weather delays and availability of the inspector for the storage tank, Sarasota County respectfully requests an additional 30 day extension from the previously approved extension date for completing storage tank inspection. If the extension is approved, the new date for the inspection to be performed would be July 29, 2013. The inspection report would still be submitted within 21 days of completion of the inspection. We will continue to keep you updated on the status of the work and the schedule for submitting the inspection report.

Please let me know if this extension request is acceptable and if you have any questions please contact me anytime. Thank you.

Jason Timmons, PE

Sarasota County Public Utilities | Solid Waste Engineer

4000 Knights Trail Road, Nokomis, FL 34275

Office: 941-861-1572

Cell: 941-400-2370

email: jtimmons@scgov.net

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From: Jason Timmons

Sent: Monday, June 10, 2013 02:30 PM

To: 'Krumbholz, Bill'

Cc: Lois Rose; Gary Bennett; 'McLaurin, Albert'; 'Standiford, James'

Subject: RE: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill:

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I wanted to provide a status updated on the Leachate Storage Tank inspection at Central. The County finalized a solicitation and awarded a purchase order to Precon Corporation, Inc. to perform cleaning and inspection on the tank. The cleaning and inspection was scheduled for Wednesday June 12 this week, however, we have received over 5 inches of rain in the last few days which has required us to add leachate to the tank. Therefore, the cleaning and inspection is being postponed to allow the County to pump down the tank. We are hoping to reschedule for early next week, however, Precon informed us that if they could not perform next week, then the earliest available time would be early July. We are hopeful that the inspection will be completed early next week, but if it is not we will inform FDEP and request an additional inspection if needed. I will keep you posted on our progress. Thank you.

Jason

Jason Timmons, PE

Sarasota County Environmental Utilities | Solid Waste Engineer
4000 Knights Trail, Nokomis, FL 34275
Office: 941-861-1572
Cell: 941-400-2370
email: jtimmons@scgov.net

All mail sent to and from Sarasota County Government is subject to the public records law of Florida.

From: Jason Timmons
Sent: Tuesday, March 12, 2013 03:08 PM
To: 'Krumbholz, Bill'
Cc: Lois Rose; Gary Bennett; McLaurin, Albert; Standiford, James
Subject: WACS #51614 Permit No. 130542-007-SO/01 Sarasota Central County - Leachate Storage Tank Inspection Extension Request

Bill:

As we discussed last week, in accordance with the Central County Solid Waste Disposal Complex (CCSWDC) Solid Waste Operations Permit #130542-007-SO/01, Specific Condition C.8, Sarasota County released a solicitation for cleaning and inspection services for the concrete leachate storage tank at the CCSWDC in order to complete the inspection by April 15, 2013 as required by the permit. The original solicitation was advertised on January 17, 2013 and bids were received on February 15, 2013. Sarasota County Solid Waste and Procurement reviewed the bids and concluded that the project needed to be re-advertised.

It is anticipated that the work will be re-advertised within the next one to two weeks with the entire process taking as long as 45 to 60 days from advertisement. Given the projected timeline for the re-solicitation, we respectfully request an extension to the due date for the leachate storage tank inspection of 75 days, which would change the required inspection completion date to June 29, 2013. We feel confident that given the changes to the scope of work, the project will be awarded to a qualified firm to perform the cleaning and inspection within this time frame. The inspection report would then be submitted to the Department within 21 days of completion of the inspection. We will keep you updated on the status of the work and the schedule for submitting the inspection report.

Please let me know if this extension request is acceptable and if you have any questions please contact me anytime. Thank you.

Jason

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Jason Timmons, PE

Sarasota County Environmental Utilities | Solid Waste Engineer

4000 Knights Trail, Nokomis, FL 34275

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TANK INSPECTION REPORT

**Sarasota County, FL
1.8 MG Leachate Storage Tank
4000 Knights Trail
Nokomis, Florida**

November 27, 2013



**Adrian C. Moore
Special Projects Manager**

**Richard G. Moore, PE
President**

PRECON CORPORATION

115 S.W. 140TH TERRACE, GAINESVILLE, FL 32669 • 352-332-1200 • FAX: 332-1199

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Tank Inspection Report

1. Summary

Precon Corporation conducted an inspection of the prestressed concrete storage tank consisting of a primary inner tank and a secondary containment outer tank in Nokomis, FL on November 14, 2013. The purpose of this inspection was to do a visual analysis of the structural integrity of the tank and to determine what items, if any, need to be brought to the owner's attention to ensure the tank is up to the current codes and standards and to ensure the maximum life of the tank.

Adrian Moore, Special Projects Manager, and Teddy Colon, Superintendent, performed the inspection under the review of Richard G Moore, P.E.

The tank was found to be in good structural condition, and had no signs of leakage or hollows in the covercoat. All suggestions for repairs contained in this report are considered minor in nature and have no structural impact on the tank.

The findings of this inspection are detailed in sections 4 and 5.

2. Scope of Inspection

This inspection was aimed at investigating the structural integrity of the tank. The inspector investigated the walls, the dome, the floor, and the tank accessories. The inspection was a visual survey of the tank with no invasive procedures employed. The tank was inspected in accordance with AWWA D110 and ACI 350 standards to determine the structural integrity of the tank.

The inspector looked for any evidence of leakage, cracks, imperfections and all other abnormalities. These areas were examined closely to try to determine the cause and extent of the problem.

The walls of the tank were checked for cracks, spalls, efflorescence, leaks, staining, coating integrity and deterioration. They were also sound tested to uncover any hollow areas within the concrete shell, which are caused by two layers of concrete separating from one another. If any of the above were observed, they were mapped and noted by the inspector.

The tank was drained and the interior of the tank was inspected. The walls were checked for cracks, efflorescence, stains, and spalls. The floor was checked for cracks, stains, spalls and coating integrity. The interior piping was inspected for condition and coating integrity and the accessories were inspected to ensure they were functioning properly and were properly anchored.

The field record of this inspection can be found in section 4

3. Tank Description

The tank being inspected is a prestressed concrete tank, built in 1997 by The Crom Corporation. The primary (inner) tank has an inside diameter of 100'-0" and a wall height of 30'-8". The secondary (outer) tank has an inside diameter of 130'-0" and a side wall depth of 21'-2". The tank was built for Sarasota County, FL.

The tank consists of a reinforced concrete membrane floor. The outer tank floor is joined to the walls using a monolithic connection, while the outer tank is joined to the walls using a PVC waterstop. Both tank walls are constructed of a 26 gauge steel shell diaphragm encased in shotcrete. The joints in between sheets of the diaphragm were sealed with watertight epoxy. The walls were circumferentially prestressed by wrapping them with pre-tensioned high tensile steel which was encased in the wall to permanently remain and to resist the internal hydraulic load of the water inside the tank and to provide residual compression in the wall. The walls also contain steel reinforcement to counteract the bending moments caused by prestressing and the difference between the internal and external temperatures of the tank.

The tank has an open top.

Four pipe penetrations were found through the outer wall: a DIP drain, a DIP inlet, a SS outlet line, and a copper pipe.

One pipe penetration was found through the inner wall: a DIP drain.

The tank was built in accordance with The American Water Works Association (AWWA) Standard D110

4. Field Investigation

See attached inspection report

5. Observations and Recommendations

The inspection of the tank did not reveal any apparent problems that cause concern for the structural integrity of the tank. Several recommendations are made below to fix some problems and to help maximize the life of the tank.

1. Tank Foundation: The tank is backfilled approximately one foot. No defects were found in the tank foundation.
2. Exterior Tank Wall (Outer Tank): The exterior of the wall was in good condition. The wall was sounded and no hollows were found. Approximately 800 LF of

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cracks were noted on the exterior of the tank (Photos 3, 4). These did not show any signs of leaking or damp spots. One main crack spanned almost the entire length of the tank wall approximately 15' up the wall (Photos 5, 6). The outer tank is kept empty at all times. These cracks are common on prestressed tanks and should pose no structural concerns for the tank wall.

3. Interior Tank Wall (Outer Tank): The interior wall of the outer tank is in good condition. The wall was sounded and no hollows were found. The tank wall is coated and the coating is in good condition (Photo 7). Minor cracking was noted over the entire surface of the wall and this is common on a tank wall with this exposure (Photo 8, 9). These cracks appear superficial in nature and pose no structural concerns for the tank wall.
4. Exterior Tank Wall (Inner Tank): The exterior wall of the inner tank was found to be in good condition and no hollows were found when the wall was sounded. Minor cracking was noted at the base of the wall (Photo 10), and one main crack was noted that spanned the length of the wall approximately 15' up the wall (Photo 11). This was very similar to the crack found in the exterior wall of the outer tank and is believed to have the same cause. Several areas, approximately 10' long, of efflorescence was noted along this crack. The efflorescence appears to be from rain getting into the crack and leaching out. This does not appear to pose a problem (Photo 12-14).

Precon recommends that this crack be sealed either by injecting epoxy into the crack or applying a coating to the surface. At this time it is not essential that the crack be addressed. If it is not sealed, it should be monitored.

5. Interior Tank Wall (Inner Tank): The interior wall was found to be in good condition. It appears to have a Coal Tar Epoxy coating on the wall just above the monolithic floor wall connection which is also in good condition (Photo 15, 16). Precon noted a bubbling in the elastomeric urethane coating that was installed at the floor wall connection (Photo 17, 18). These bubbles are found along the perimeter of the tank and appear to be between the top coat and the coating beneath it. This does not seem to pose a problem as the coating under these areas appears to be in sound condition. Any repair would involve removing the top coat which would require removing the coating underneath it by abrasive blasting and would have the potential to do more damage to the floor and do more harm than good. Precon recommends inspecting these areas carefully during the next inspection to see if any change to this has occurred.
6. Tank Floor (Outer Tank): The tank floor was found to be in good condition and only minor cracking was noted in the cove of the floor wall connection (Photo 19). These cracks are superficial and require no immediate action. The coating on the floor is in good condition.

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November 27, 2013

7. Tank Floor (Inner Tank): The tank floor was cleaned and found to be in good condition. No cracking or failures in the coatings were detected (Photo 20).
8. Tank Accessories and Piping: The tank accessories and piping were observed and noted.
 - a. Exterior Staircases (outer tank): The three aluminum staircases on the exterior of the outer tank were all found to be in good condition. All hardware was checked and no loose or missing pieces were found (Photos 21-23).
 - b. Interior Ladder (outer tank): The interior aluminum ladder was found to be in good condition. The safety climb and hardware were found to be in good working order (Photo 24)
 - c. Exterior Ladder (inner tank): The exterior aluminum ladder on the inner tank was found to be in good condition. The safety climb and the hardware were all found to be in good working order (Photo 25).
 - d. Liquid Level Indicator (inner tank): The LLI was found to be functioning properly. The float and cables were in good working order (Photo 26).
 - e. Tank Piping: The piping was found to be in good condition (Photos 27, 28). All pipe gaskets and hardware were found to be in good condition (Photo 29). One pipe support inside the outer tank was missing the hardware that connects it to the pipe. Precon recommends installing the proper hardware to permanently connect the pipe to its support (Photo 30).

Precon's inspection was a visual survey of the structure of the tank without any invasive or destructive procedures or tests, therefore Precon cannot give an opinion on the conditions of the covered and hidden aspects of the structure which are not visible from the surface.

Should you have any questions, comments or concerns about the above report, we would be happy to address them. Please do not hesitate to contact us.

Very truly yours;



Adrian C Moore
Special Projects Manager



Richard G. Moore, P.E.
President

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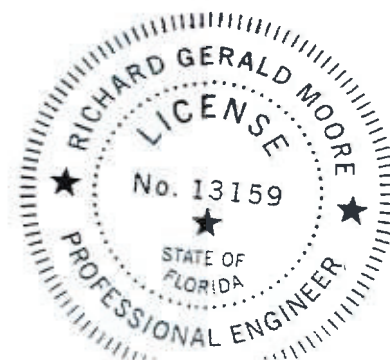


Photo 1



Tank Exterior

Photo 2



Tank was built in 1997 by Crom

Photo 3



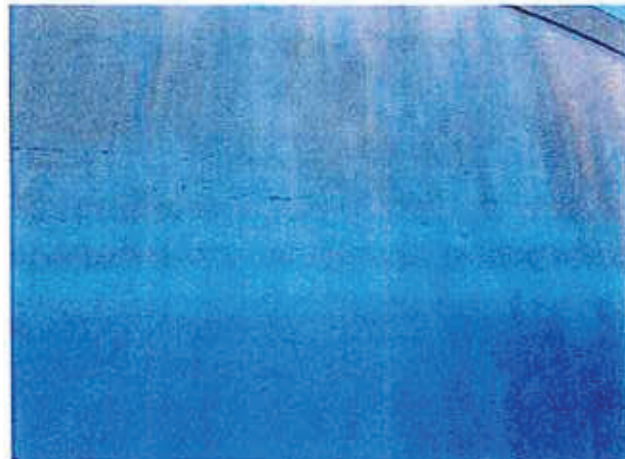
Cracking in exterior wall of outer tank

Photo 4



Cracking in exterior wall of outer tank

Photo 5



Crack approximately 15' up exterior wall of outer tank

Photo 6



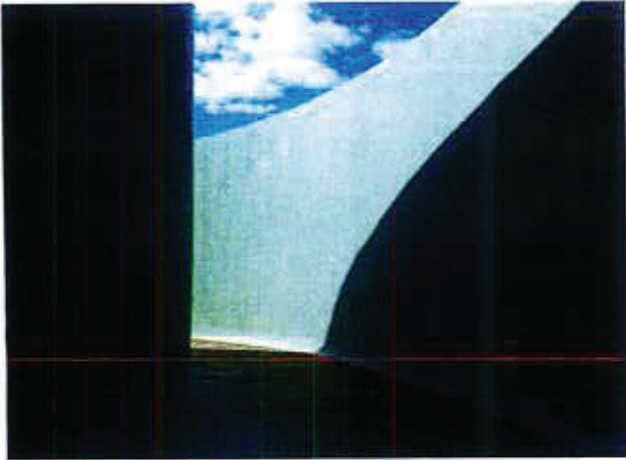
Crack approximately 15' up exterior wall of outer tank

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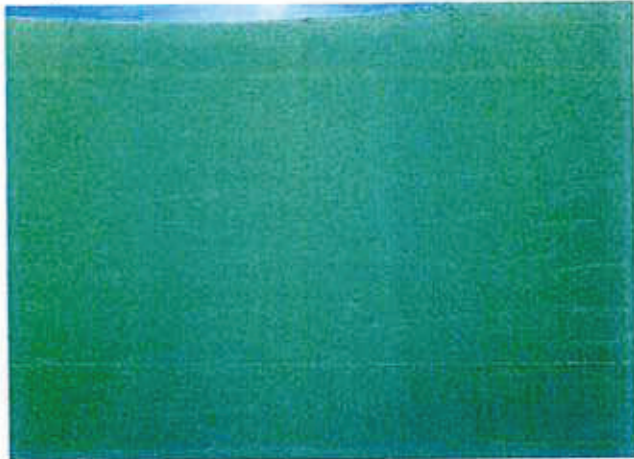
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Photo 7



The interior coatings of the outer wall

Photo 8



Minor cracking on the interior wall of the outer tank

Photo 9



Minor cracking on the interior wall of the outer tank

Photo 10



Minor cracking at the base of the exterior wall on the interior tank

Photo 11



Crack approximately 15' up the outside wall of the inner tank

Photo 12



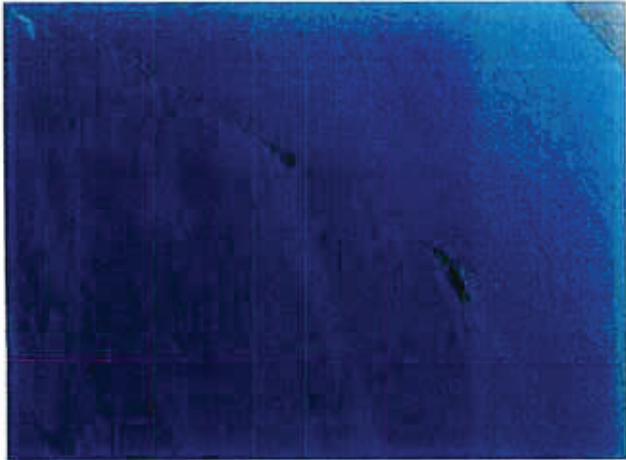
Efflorescence on the outer wall of the inner tank

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Photo 13



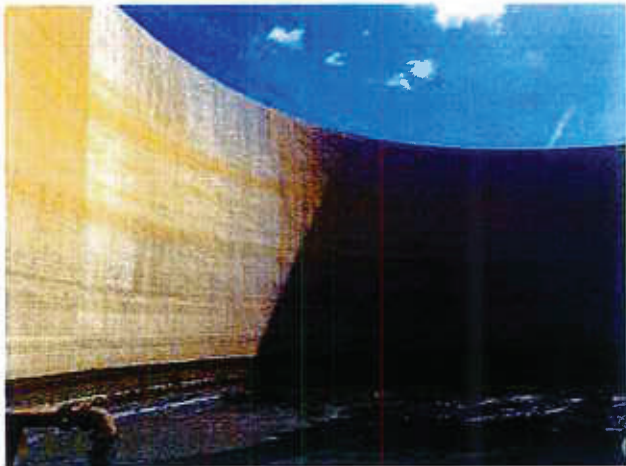
Efflorescence on the outer wall of the inner tank

Photo 14



Efflorescence on the outer wall of the inner tank

Photo 15



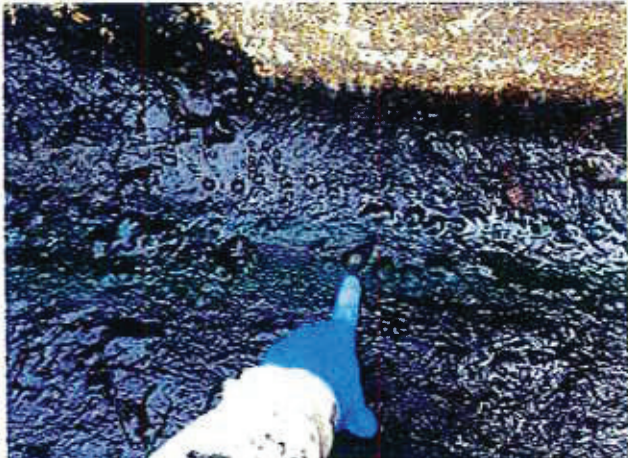
The interior wall of the inner tank is in good condition

Photo 16



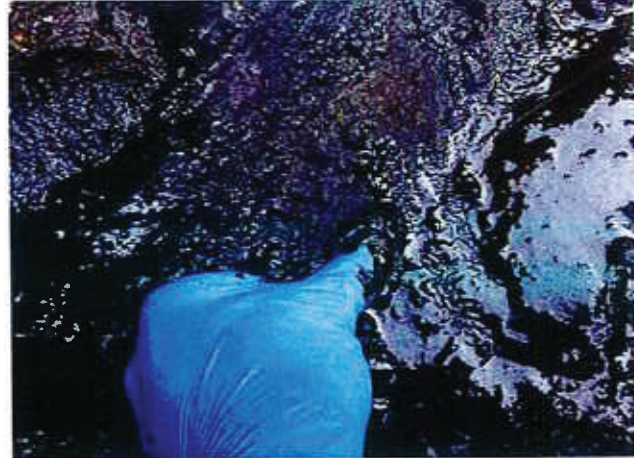
The interior wall of the inner tank

Photo 17



Bubbling of the elastomeric urethane coating at the floor wall connection

Photo 18



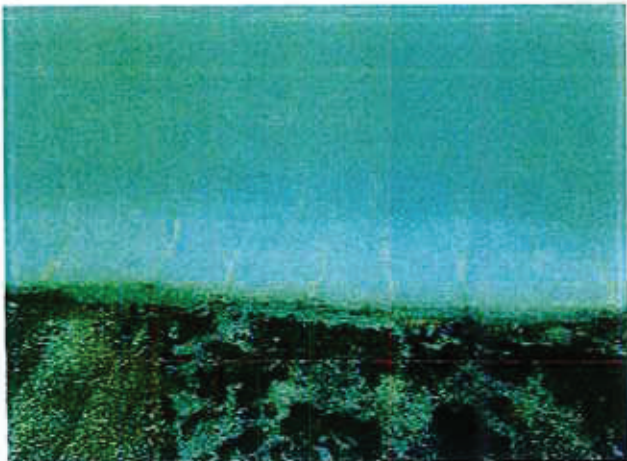
Bubbling of the elastomeric urethane coating at the floor wall connection

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Photo 19



Cracking in the cove of the interior wall of the outer tank

Photo 21



Exterior aluminum staircase

Photo 23



Exterior aluminum staircase

Photo 20



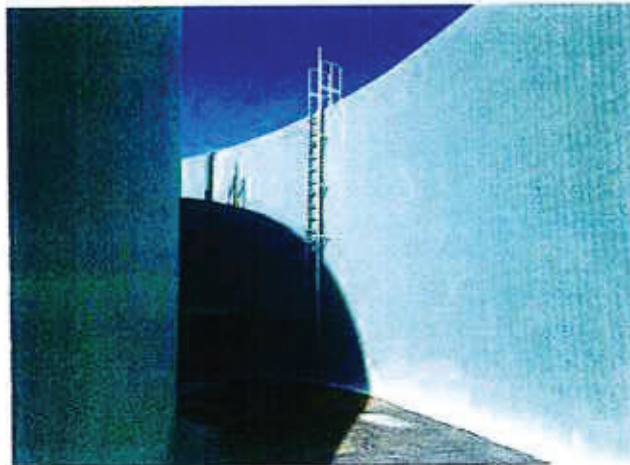
Coatings on the tank floor were found to be in good condition

Photo 22



Exterior aluminum staircase

Photo 24



Aluminum interior ladder

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Photo 25



Exterior ladder on the inner tank

Photo 26



Liquid level indicator is functioning properly

Photo 27



Ductile iron pipe penetration

Photo 28



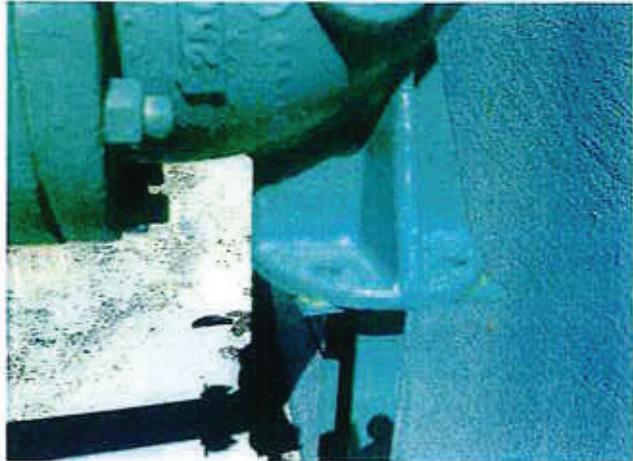
Stainless steel pipe penetration

Photo 29



Gaskets and hardware are all in good condition

Photo 30



Pipe support with missing hardware

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Prestressed Concrete Tanks

PRECON CORPORATION

115 S W 140th Terrace

Newberry, Florida 32669
(352) 332-1200 Fax 332-1199

Date: November 27, 2013

1. TANK DETAILS

1. Owner	Sarasota County, Florida	
2. Location	Nokomis, FL	
3. Capacity	2.1 MG (Outer Tank)	
4. Dimensions:	130'-0"ID x 21'-2"WD	
5. Description:	Secondary Containment Tank	
6. Tank Builder:	Crom	Year: 1997

YES

NO

COMMENTS

2. EXTERIOR WALL

1. Painted		X	
2. Leakage		X	No signs of leakage
3. Cracks	X		Cracking was noted around entire tank
4. Hollows		X	No hollows were found
5. Stains	X		Minor staining was noted

ADDITIONAL COMMENTS:

4. EXTERIOR FOOTING

1. Backfill	X		Tank had approximately 1 foot of backfill
2. Settlement		X	

ADDITIONAL COMMENTS:

5. EXTERIOR ACCESSORIES

1. Ladder		X	3 Staircases instead
2. Dome hatch		X	
3. Vent		X	
4. Overflows		X	
5. Level indicator		X	
6. Dome probes		X	
7. Handrail		X	
8. Aerator		X	
9. Wall Manhole	X		In very good condition

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	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
6. INTERIOR FLOOR			
1. Cracks	X		One area at floor wall connection
2. Settlement		X	
3. Leakage		X	
4. Sump	X		
5. Exposed reinforcing		X	
ADDITIONAL COMMENTS:			
7. INTERIOR WALL			
1. Hollows		X	No hollows were found
2. Cracks	X		Minor prestressing cracks around entire tank
3. Stains		X	
4. Paint	X		Coatings were in good shape
5. Deterioration		X	
9. INTERIOR ACCESSORIES			
1. Ladder	X		Aluminum with safety climb
2. Baffle Wall		X	
3. Pipe Brackets	X		Brackets were in good shape
4. Wall Pipes	X		Pipe was in good condition
5. Level Indicator		X	
6. Pipes	X		All pipe penetrations were in good condition

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D.E.P. South District

**PRECON CORPORATION**

Prestressed Concrete Tanks

115 S.W. 140th Terrace

Newberry, Florida 32669
(352) 332-1200 Fax 332-1199

Date: November 27, 2013

1. TANK DETAILS

- | | |
|------------------|--------------------------|
| 1. Owner | Sarasota County, Florida |
| 2. Location | Nokomis, FL |
| 3. Capacity | 1.8 MG (Inner Tank) |
| 4. Dimensions: | 100'-0"ID x 30'-8"WD |
| 5. Description: | Leachate Storage Tank |
| 6. Tank Builder: | Crom |

Year: 1997

YESNOCOMMENTS**2. EXTERIOR WALL**

- | | | | |
|------------|---|---|---------------------------------------|
| 1. Painted | X | | Coating is in good condition |
| 2. Leakage | | X | No leaks were visible |
| 3. Cracks | X | | Cracking was noted around entire tank |
| 4. Hollows | | X | No hollows were found |
| 5. Stains | X | | Efflorescence and staining were noted |

ADDITIONAL COMMENTS:

4. EXTERIOR FOOTING

- | | | | |
|---------------|---|---|---|
| 1. Backfill | X | | Tank had approximately 1 foot of backfill |
| 2. Settlement | | X | |

ADDITIONAL COMMENTS:

5. EXTERIOR ACCESSORIES

- | | | | |
|--------------------|---|---|----------------------------|
| 1. Ladder | X | | Aluminum with safety climb |
| 2. Dome hatch | | X | |
| 3. Vent | | X | |
| 4. Overflows | | X | |
| 5. Level indicator | X | | Fully functional |
| 6. Dome probes | | X | |
| 7. Handrail | | X | |
| 8. Aerator | | X | |
| 9. Wall Manhole | X | | In very good condition |

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D.E.P. South District

Sarasota County, FL

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
6. INTERIOR FLOOR			
1. Cracks		X	
2. Settlement		X	
3. Leakage		X	
4. Sump	X		
5. Exposed reinforcing		X	
ADDITIONAL COMMENTS:			
7. INTERIOR WALL			
1. Hollows		X	No hollows were found
2. Cracks		X	
3. Stains		X	
4. Paint	X		Coatings near floor
5. Deterioration		X	
9. INTERIOR ACCESSORIES			
1. Ladder		X	
2. Baffle Wall		X	
3. Pipe Brackets	X		Brackets were in good shape
4. Wall Pipes	X		Pipe was in good condition
5. Level Indicator	X		Functioning properly
6. Pipes	X		

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