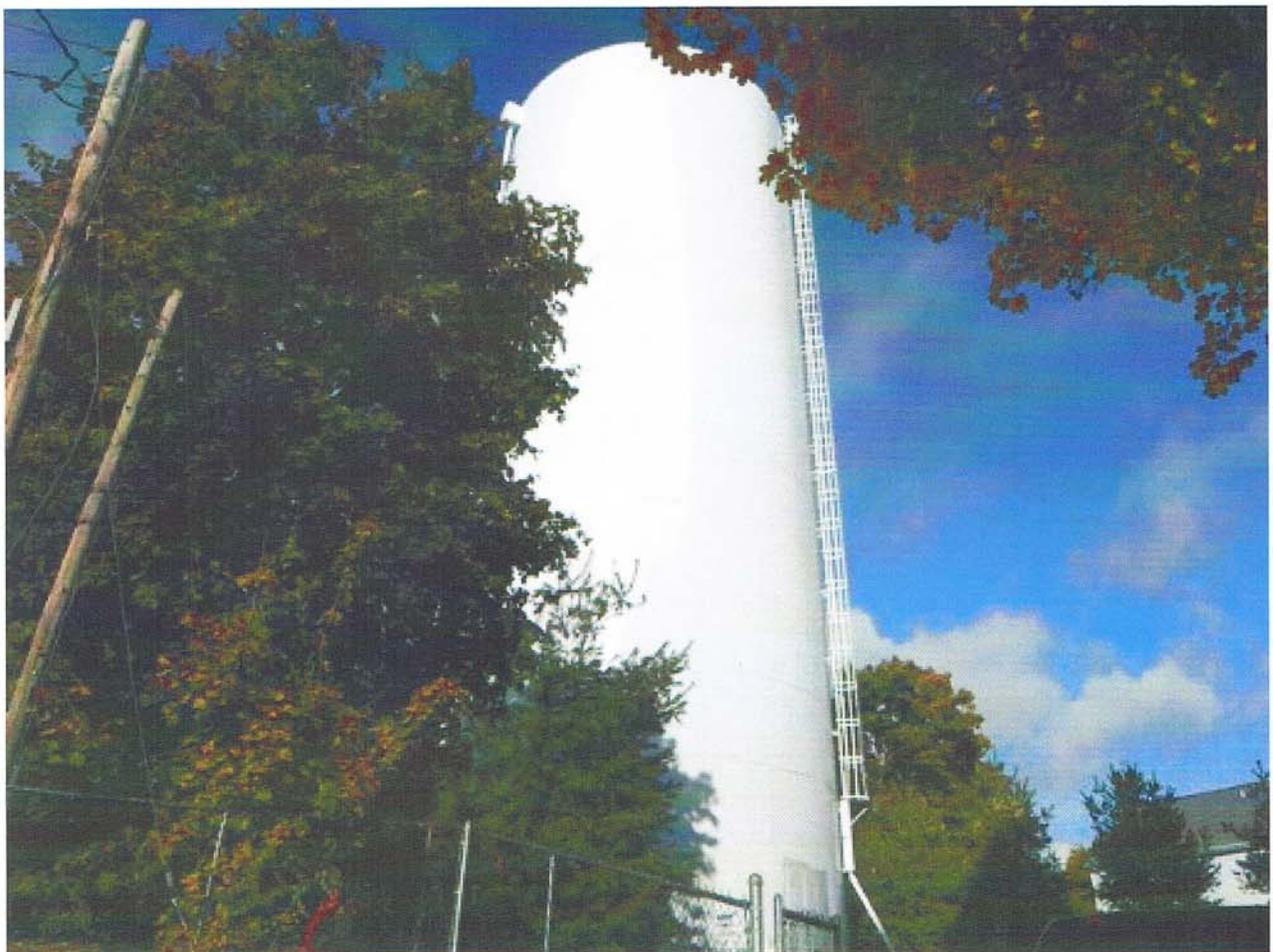




***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK***

***AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK***

OCTOBER 26, 2010





***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK***

***AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK***

OCTOBER 26, 2010

SCOPE:

On October 26, 2010, Underwater Solutions Inc. completed an inspection of the Ross Drive 1.45-Million gallon welded steel water storage tank to provide information regarding the overall condition and integrity of this structure and removed the sediment accumulation found on the floor of this structure.

EXTERIOR INSPECTION:

The entire exterior of this water storage tank (and all components) was inspected to include walls and coating, concrete foundation, anchor bolts, manways, ladder and safety cage, overflow, roof, vent and hatches.

Walls and Coating

These exterior wall panels and welds were inspected and appeared mostly sound and free of obvious metal fatigue (pitting), while numerous coating chips and coating adhesion loss exists throughout these surfaces.

The protective coating has declined in film thickness (nearly expired) due to weathering, causing chalking throughout all elevations of the tank.

A 2" wide extension of the floor panels, located at the junction where the walls and foundation meet, extending out into the concrete foundation, was found with poor adhesion value of the protective coating. This condition (adhesion loss) causes exposure of the steel throughout approximately 10% of the circumference of the tank. No metal fatigue (pitting) was seen rather mild surface corrosion exists.

***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 2***

Numerous coating chips were found throughout approximately 5% of the lowest 24' of the tank ranging in size from 1/4" to 2" in diameter. These coating chips appear to be the result of objects (stones) striking the walls and cause exposure of the underlying steel. No metal fatigue (pitting) was seen within these areas yet mild surface corrosion exists at this time.

Mild mildew has accumulated throughout all elevations of these wall surfaces reducing the overall aesthetics of the tank.

Concrete Foundation

A 5" tall by 20" wide concrete foundation was inspected and appeared sound while no obvious fatigue or concrete failures were seen.

Anchor Bolts

Thirty-five, 3" diameter anchor bolts extend up from the concrete foundation through chairs welded to the lowest row of wall panels, approximately 15" above the base of the tank.

Each anchor bolt has a nut properly and securely in place, while the protective coating applied to this hardware and chairs has failed. This coating failure causes cracking of the coating, yet no obvious steel fatigue was seen, rather rust staining and mild corrosion exists.

Manways

Two 30" inside diameter manways were inspected penetrating the lowest row of wall panels, located approximately 26" above the ground.

The protective coating remains having mostly good adhesion value, yet blotch rusting shows through the coating on all the hardware (nuts and bolts) used to secure these manways.

Each manway is properly secured in place and free of obvious leakage at this time.

Ladder and Safety Cage

A ladder and safety cage extend from approximately 8' above the ground up to the roof dome, supported to the tank wall with fifteen sets of welded standoffs.

The protective coating has declined in film thickness (nearly expired) due to weathering, causing chalking yet no exposed steel was seen.

A safety fall prevention device is installed on this ladder and is in good working condition.

**INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 3**

Overflow

An 8" inside diameter overflow pipe exits the base of a welded steel weir box and extends down supported to the tank wall with twelve welded standoffs and terminates approximately 15" above a concrete splash pad.

This overflow pipe is screened at its end, preventing access to the interior of the tank.

Roof

All steel roof dome panels, welds and angle iron safety rails were inspected and found free of obvious metal fatigue (pitting).

The protective coating applied to these surfaces was found with poor adhesion value, causing the protective coating to peel and exposes the steel throughout approximately 5% of all panels and angle iron safety rails.

Seven, 2" diameter penetrations (rigging holes) within the roof dome are properly sealed with plugs preventing access to the tank interior.

Vent

A vent is located within the center of the roof dome having an 18" inside diameter and stands 24" tall.

A 42" outside diameter cap and a screen placed around the circumference of the vent, prevent access to the interior of the tank.

Hatches

Two 24" inside diameter hatches provide access to the interior of the tank through the roof dome.

Each hatch remains in good working condition and properly secured with locks, preventing unwanted access.

INTERIOR INSPECTION:

The entire interior of this water storage tank (and components) was inspected to include sediment accumulations, floor, manways, piping, walls and coating, overhead, overflow and aesthetic water quality.

***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 4***

Sediment Accumulations

A uniform layer of accumulated precipitate was found on all floor surfaces averaging 1/16" in depth.

Upon completing this inspection, all floor surfaces were vacuumed.

Floor

After removing all accumulated precipitate, these steel floor panels and welds were inspected and found sound.

The protective coating remains having good adhesion value providing good protection of the steel.

Mild staining exists throughout all floor surfaces due to the accumulation of precipitate.

Manways

Two 30" inside diameter manways were inspected from the interior of the tank penetrating the lowest row of wall panels, located approximately 26" above the floor and were found with good adhesion value of the protective coating.

These manways are securely installed and free of obvious leakage at this time.

Piping

Three pipes were inspected within this tank.

The first pipe inspected, penetrates the floor located approximately 30" in from the wall having a 12" inside diameter and is flush within the floor. A 16" inside diameter by 12" removable riser is securely bolted to the floor over this penetration serving as a silt stop.

The second pipe inspected, penetrates the floor located approximately 32" in from the wall having an 8" inside diameter. This pipe extends up supported to the tank wall with six sets of welded standoffs and terminates approximately 55' above the floor.

The third and final pipe inspected, is flush within the floor located approximately 36" in from the wall having a 4" inside diameter.

All pipes were found without flow or obstructions at the time of this inspection.

***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 5***

Walls and Coating

All interior wall surfaces were inspected beginning at the floor and by spiraling the circumference of the tank up to the water surface.

The protective coating remains having good adhesion value throughout all elevations of the tank at this time, providing good protection of the steel substrate.

Rust staining exists throughout the top row of wall panels, extending down into these surfaces from the junction where the roof and walls meet; yet no obvious steel exposure was witnessed within this area, therefore we believe the underside of the dome must yield corrosion which cannot be seen as it is not visible due to the placement and configuration of the wall panels to dome construction.

Mild staining exists on all wall surfaces extending from approximately 20" below the overflow down to the floor.

Overhead

All overhead panels, welds and angle iron supports were inspected from the water surface and appeared sound and free of obvious metal fatigue.

The protective coating remains with good adhesion value, yet mild blotch rusting shows through the coating throughout approximately 5% of all panel edges due to decline in film thickness of the coating.

Rust staining exists throughout each area where the seven 2" diameter penetrations (rigging holes) are placed.

Overflow

The overflow consists of a 24" long by 18" tall cutout within the top wall panel located approximately 14" below the junction where the roof and wall panels meet.

This overflow was found unobstructed at the time of this inspection.

Aesthetic Water Quality

The aesthetic water quality was found to be good, allowing unlimited and unrestricted visibility.

***INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 6***

CONCLUSION:

It is the opinion of Underwater Solutions Inc. that this welded steel water storage tank appears sound and free of obvious leakage at this time, yet coating chips and adhesion loss exist throughout the exterior wall and roof dome surfaces.

The exterior wall panels and welds between panels appear sound as no obvious metal fatigue (pitting) was found.

The protective coating applied to these surfaces has declined in film thickness (nearly expired) due to weathering.

Adhesion loss of the coating exists throughout the 2" wide floor extension located at the junction where the walls and foundation meet. This condition (adhesion loss) causes steel exposure throughout approximately 10% of the circumference of the tank.

Coating chips exist throughout approximately 5% of the lower 24' of these wall surfaces. These coating chips appear to be the result of objects (stones) striking the tank and range in size from 1/4" to 2" in diameter and expose the underlying steel. No metal fatigue (pitting) was seen within these areas of failure, rather mild surface corrosion exists.

Mild mildew has accumulated throughout all elevations of these wall surfaces, reducing the overall aesthetics.

The protective coating applied to all anchor bolt, nut and chair surfaces was found to have failed. No obvious steel exposure was seen rather only rust staining exists at this time.

All roof dome panels, welds and angle iron safety rails remain sound and free of obvious metal fatigue.

The protective coating applied to these surfaces was found having poor adhesion value.

This condition has caused the coating to peel and exposes the steel throughout approximately 5% of the panels and angle iron safety rails. No metal fatigue was seen rather mild surface corrosion exists at this time.

We recommend re-coating all exterior surfaces of this tank in an effort to halt corrosion, protect the steel and maintain the integrity of the structure.

All components affixed to this structure are properly installed at this time while the screens on the vent and overflow are secure, preventing access to the interior of the tank.

**INSPECTION AND CLEANING OF THE ROSS DRIVE
1.45-MILLION GALLON WELDED STEEL WATER STORAGE TANK
AMAWALK-SHENOROCK WATER DISTRICT
SHENOROCK, NEW YORK
OCTOBER 26, 2010
PAGE 7**

All interior walls, floor and overhead surfaces appear sound and free of obvious metal fatigue at this time.

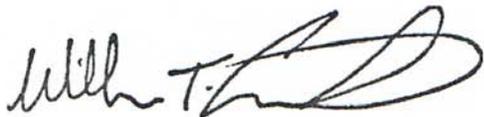
The protective coating applied to all wall and floor surfaces remains having good coating adhesion throughout.

The protective coating applied to the overhead was found with mostly good adhesion value, yet mild blotch rusting shows through the coating throughout approximately 5% of the panel edges due to decline in film thickness.

All piping within this structure was securely in place and unobstructed at the time this project was completed.

Upon completing this inspection all floor surfaces were vacuumed.

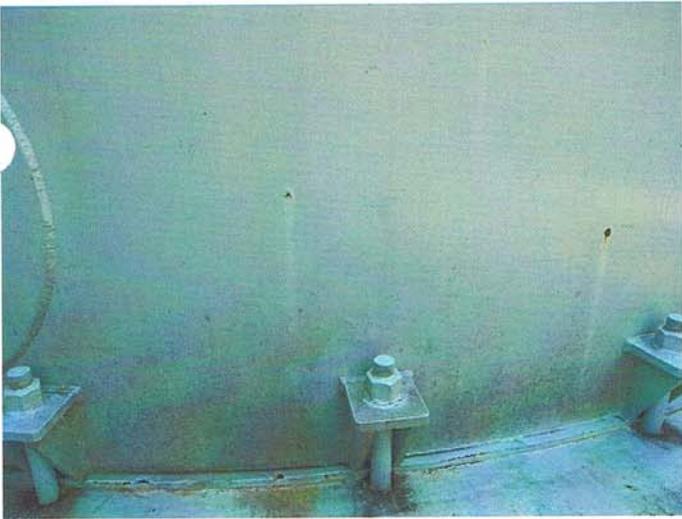
As always, we recommend re-inspection and cleaning of all water storage facilities in accordance with A.W.W.A. Standards and local guidelines.



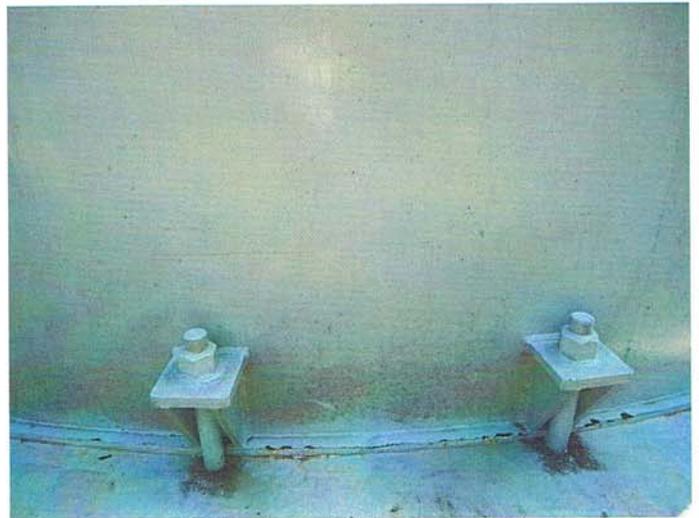
UNDERWATER SOLUTIONS INC.
William T. Cornish, President

This report, the conclusions, recommendations and comments prepared by Underwater Solutions Inc. are based upon spot examination from readily accessible parts of the tank. Should latent defects or conditions which vary significantly from those described in the report be discovered at a later date, these should be brought to the attention of a qualified individual at that time. These comments and recommendations should be viewed as information to be used by the Owner in determining the proper course of action and not to replace a complete set of specifications. All repairs should be done in accordance with A.W.W.A. and/or other applicable standards.

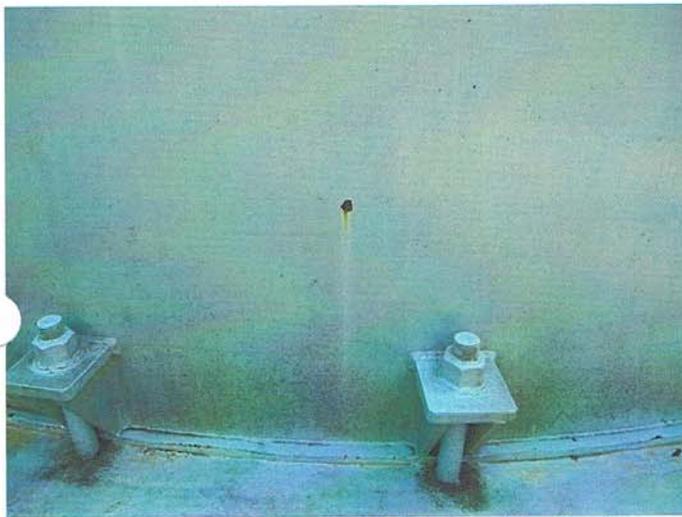
WTC/asl



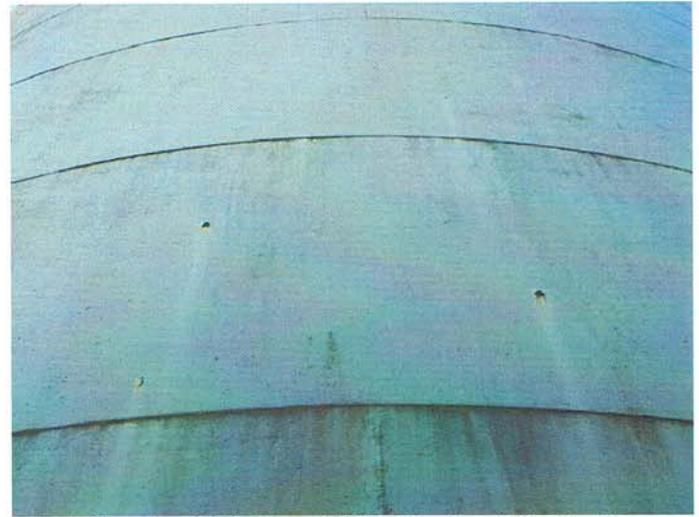
1 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



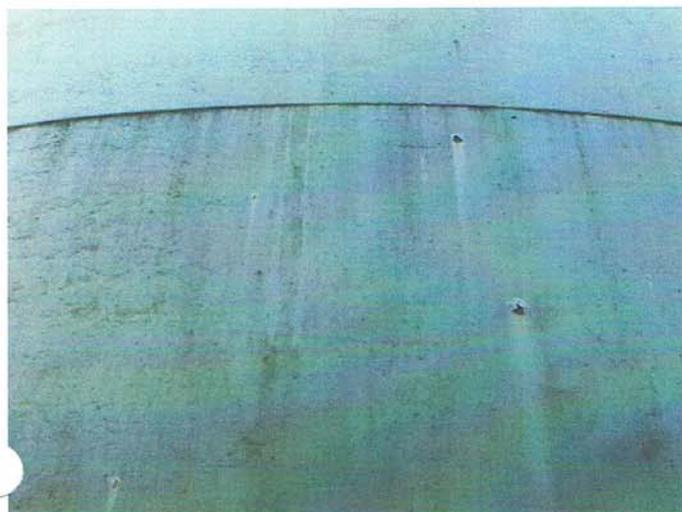
2 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



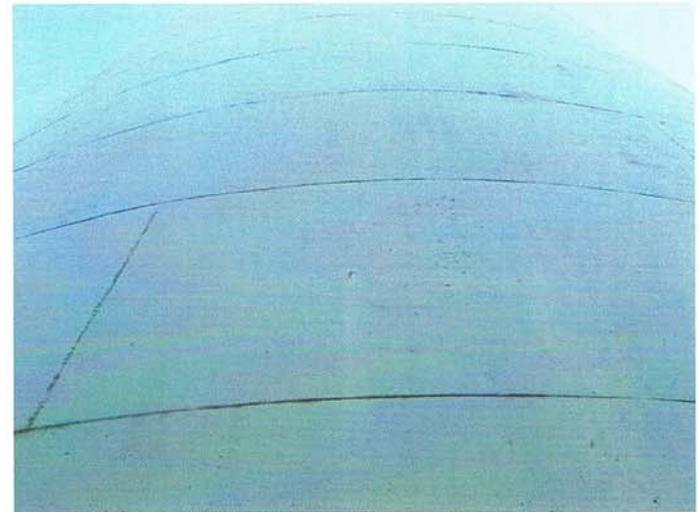
3 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



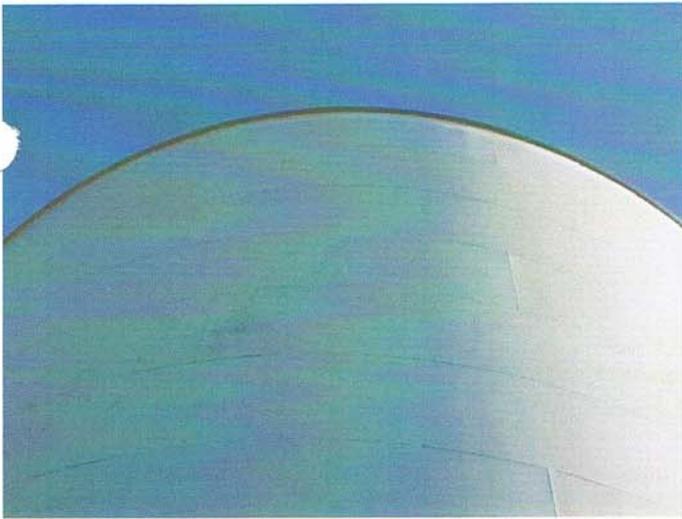
4 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



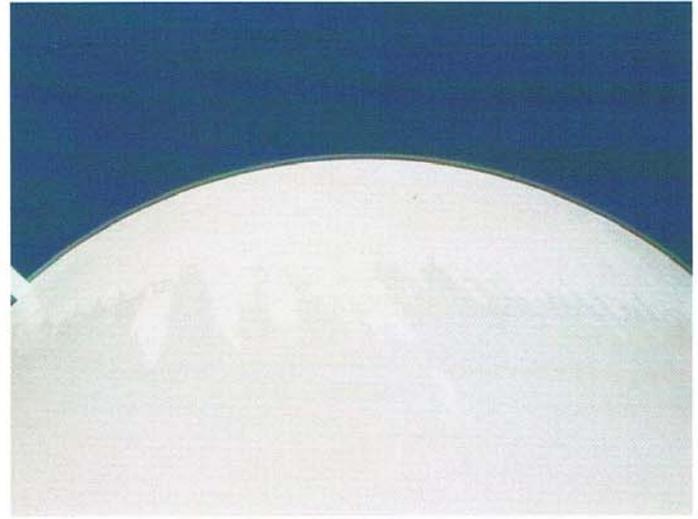
5 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



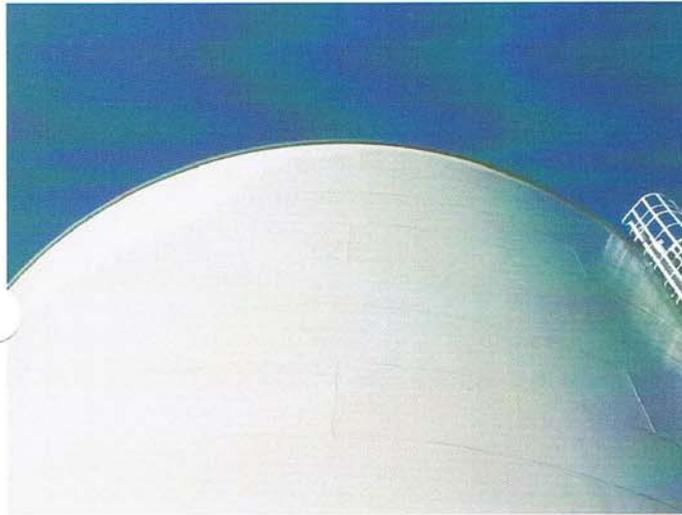
6 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



7 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



8 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



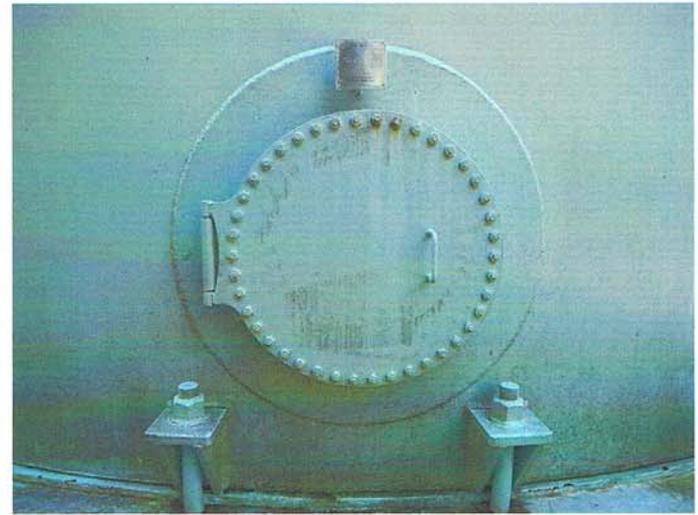
9 *Exterior Walls Found With Coating Adhesion Loss (Nearly Expired), Coating Chips, Steel Exposure And Mildew*



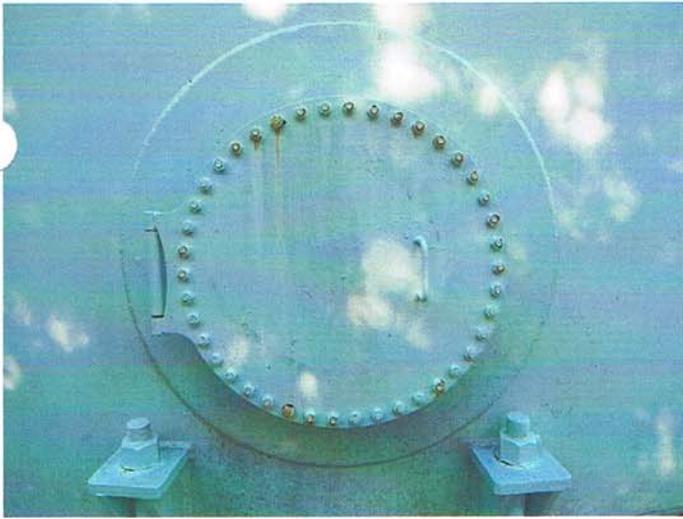
10 *Concrete Foundation*



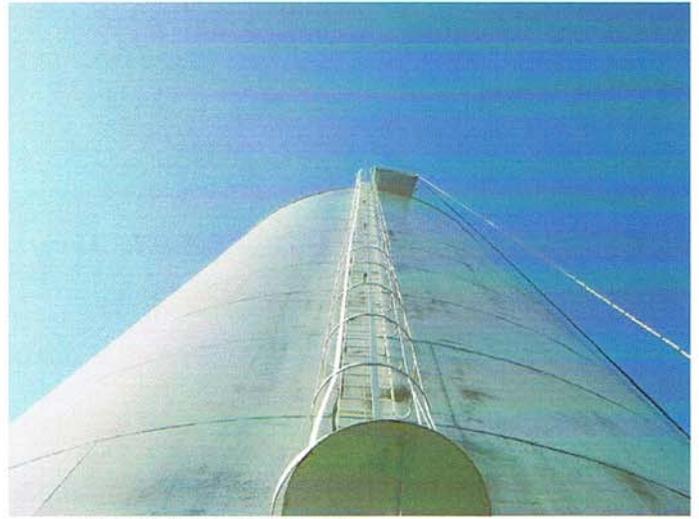
11 *One, Of Thirty-Five Anchor Bolts*



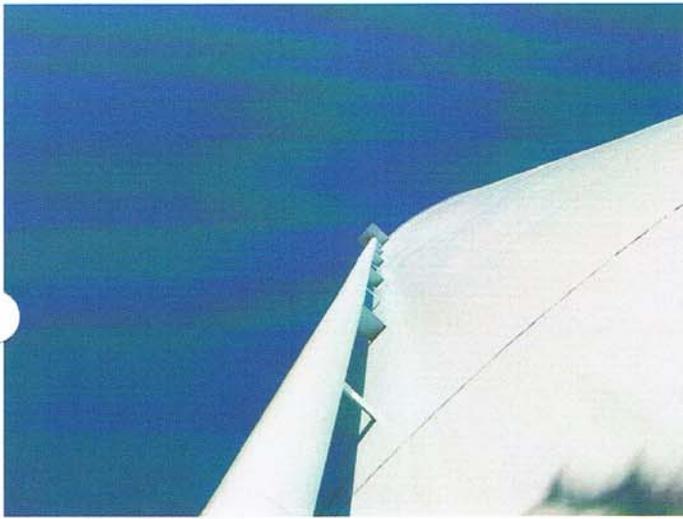
12 *Manway*



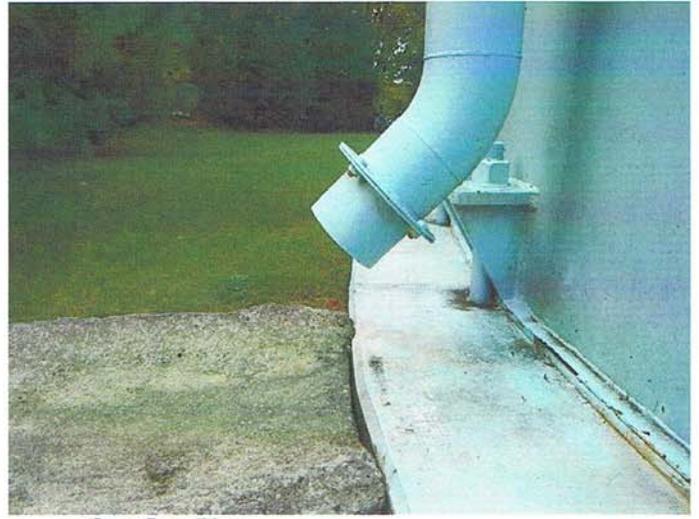
13 *Manway*



14 *Ladder And Safety Cage*



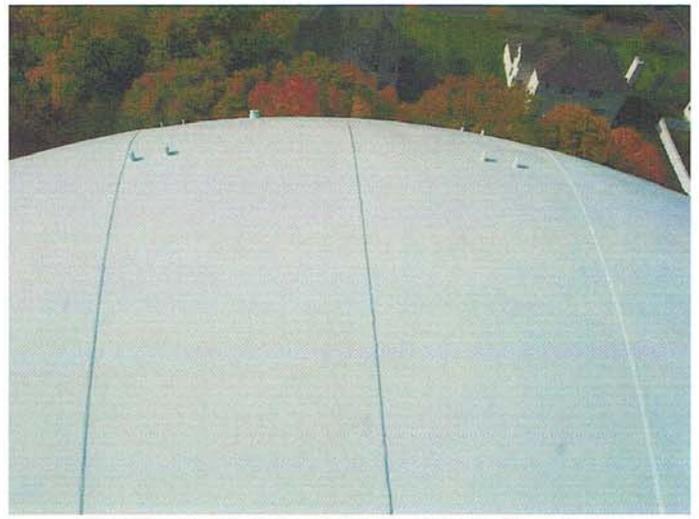
15 *Overflow Pipe*



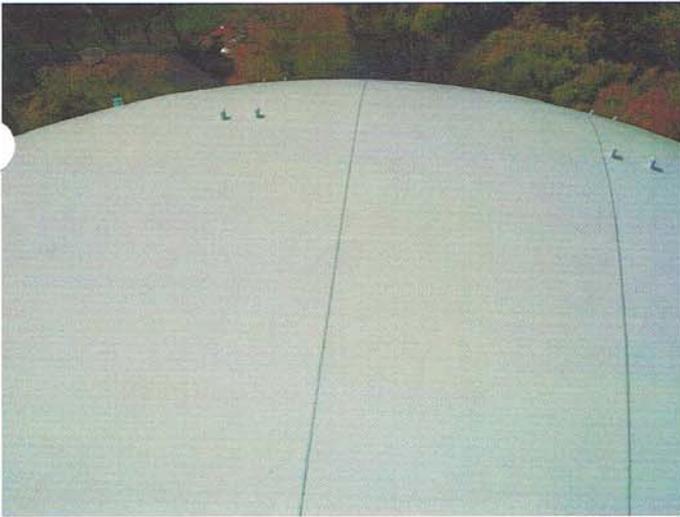
16 *Overflow Pipe*



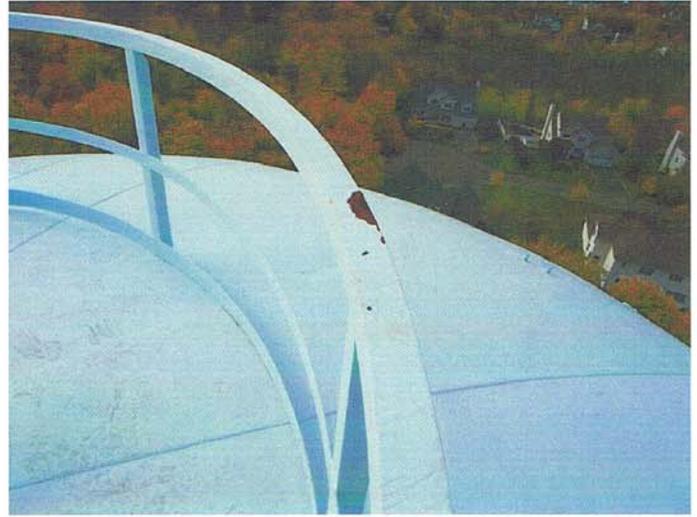
17 *Screened End Of Overflow Pipe*



18 *Roof Dome Panels, Welds And Angle Iron Safety Rails Found With Coating Failure And Steel Exposure*



19 *Roof Dome Panels, Welds And Angle Iron Safety Rails Found With Coating Failure And Steel Exposure*



20 *Roof Dome Panels, Welds And Angle Iron Safety Rails Found With Coating Failure And Steel Exposure*



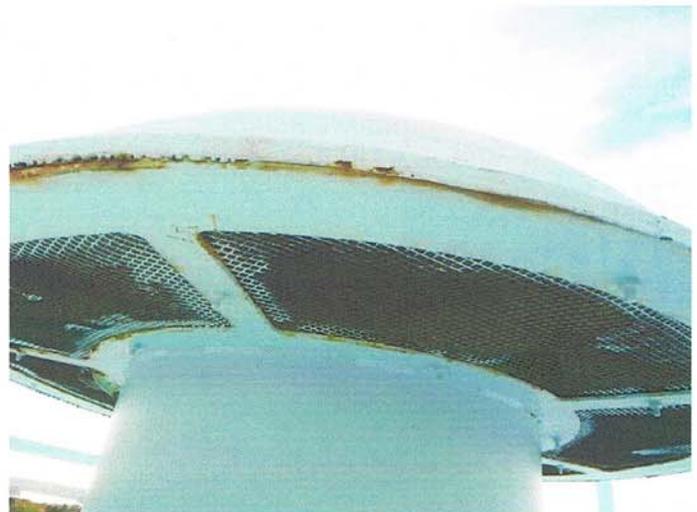
21 *Roof Dome Panels, Welds And Angle Iron Safety Rails Found With Coating Failure And Steel Exposure*



22 *Roof Dome Panels, Welds And Angle Iron Safety Rails Found With Coating Failure And Steel Exposure*



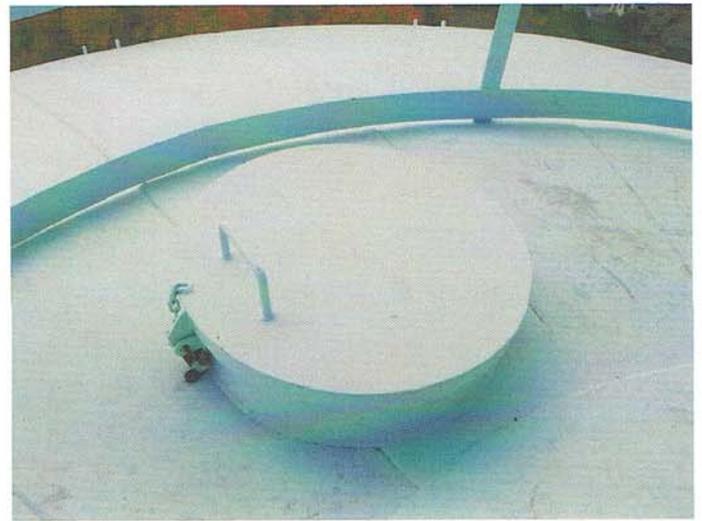
23 *Vent*



24 *Vent Screen*



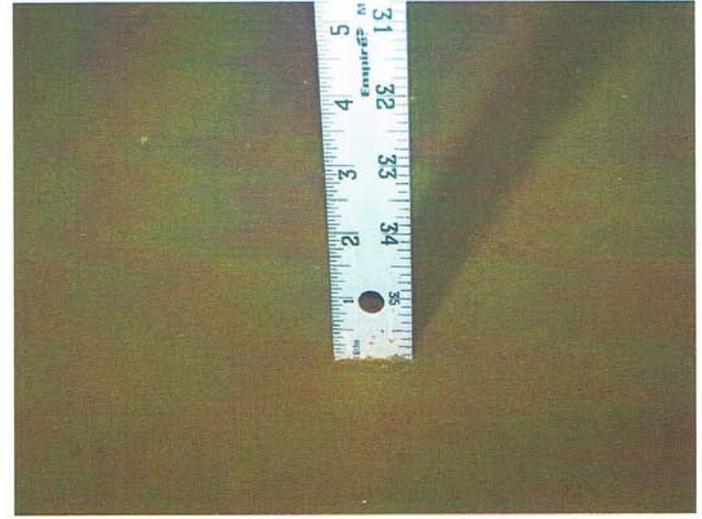
25 *Hatch*



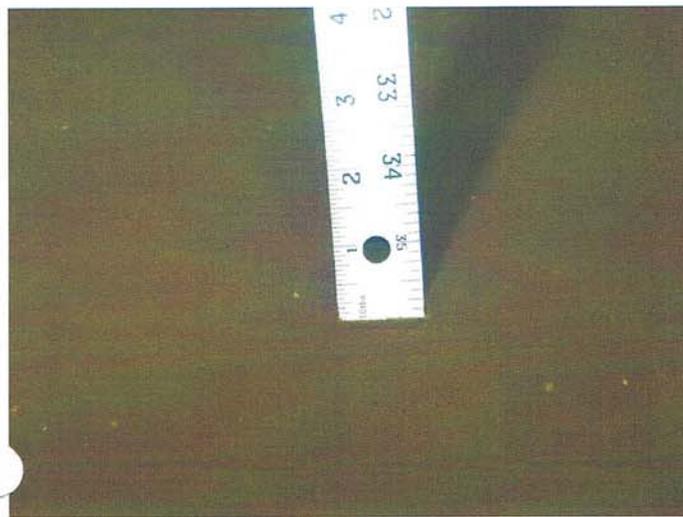
26 *Hatch*



27 *Layer Of Precipitate*



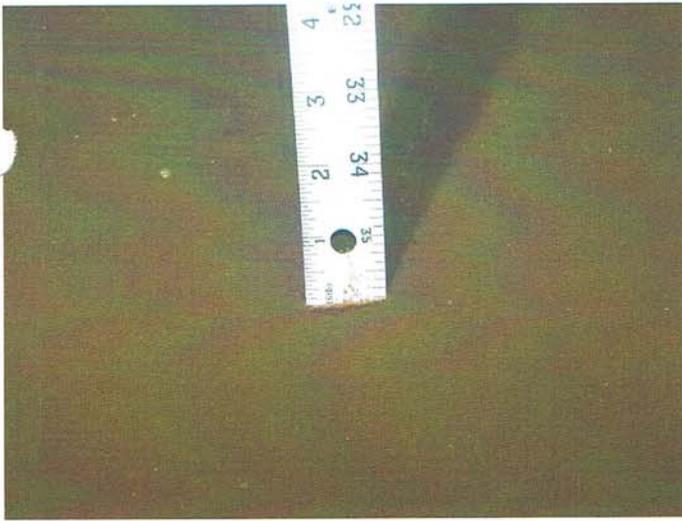
28 *Layer Of Precipitate*



29 *Layer Of Precipitate*



30 *Layer Of Precipitate*



31 *Layer Of Precipitate*



32 *Floor Surfaces Found With Good Coating Adhesion Yet Stained*



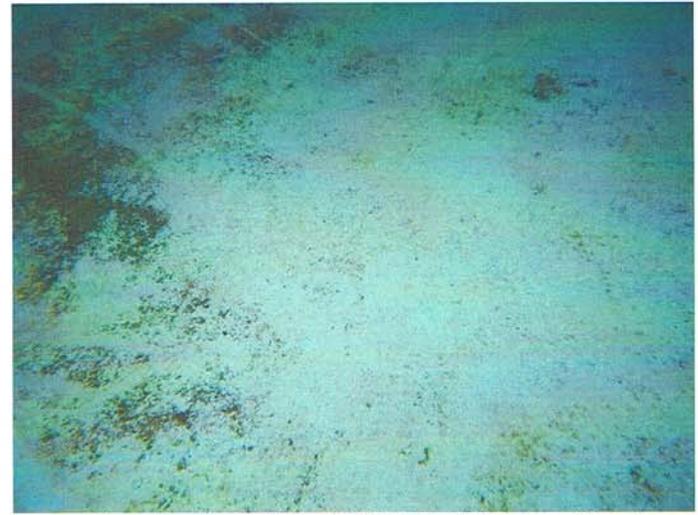
33 *Floor Surfaces Found With Good Coating Adhesion Yet Stained*



34 *Floor Surfaces Found With Good Coating Adhesion Yet Stained*



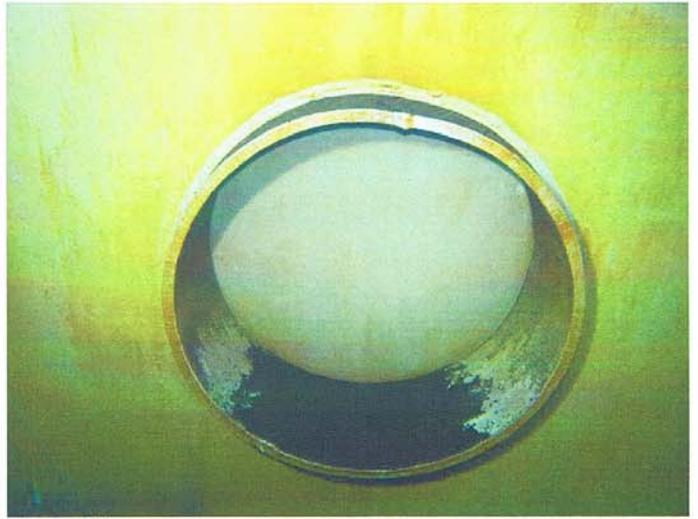
35 *Floor Surfaces Found With Good Coating Adhesion Yet Stained*



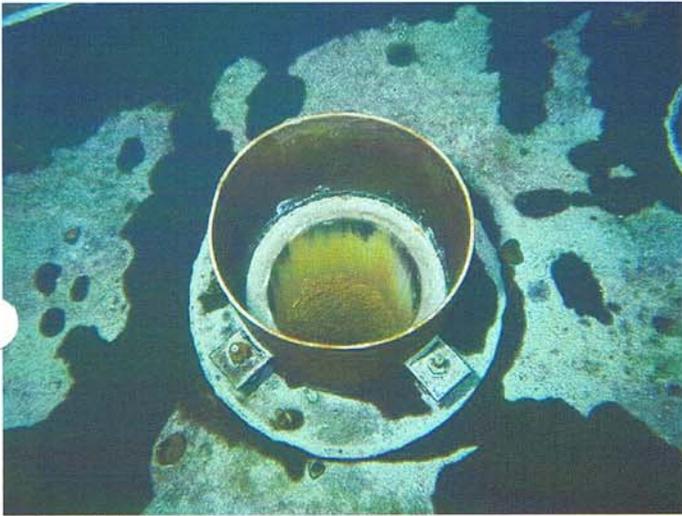
36 *Floor Surfaces Found With Good Coating Adhesion Yet Stained*



37 *Manway*



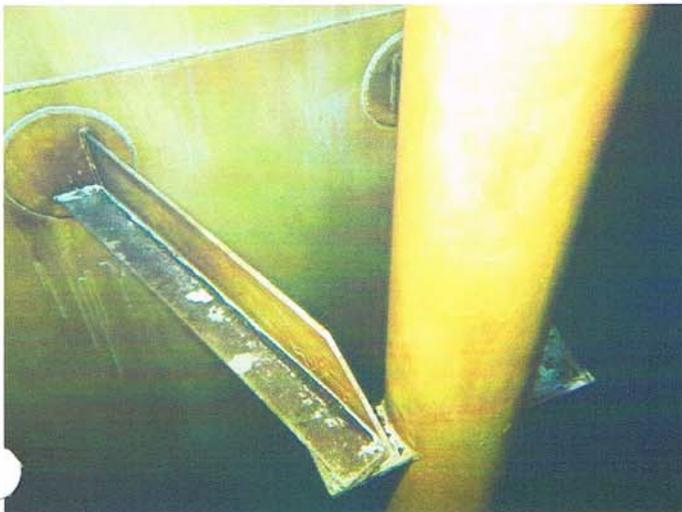
38 *Manway*



39 *Piping*



40 *Piping*



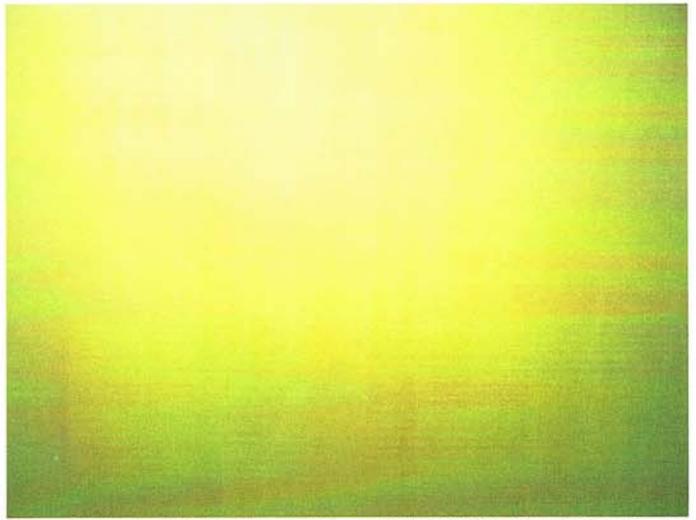
41 *Piping*



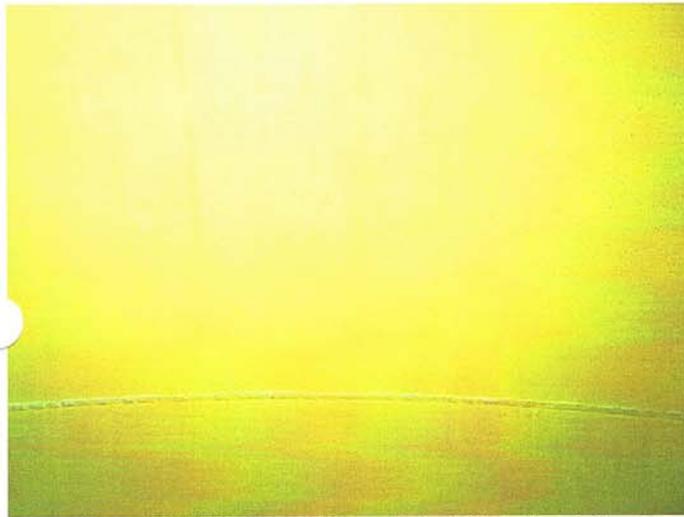
42 *Piping*



43 *Piping*



44 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



45 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



46 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



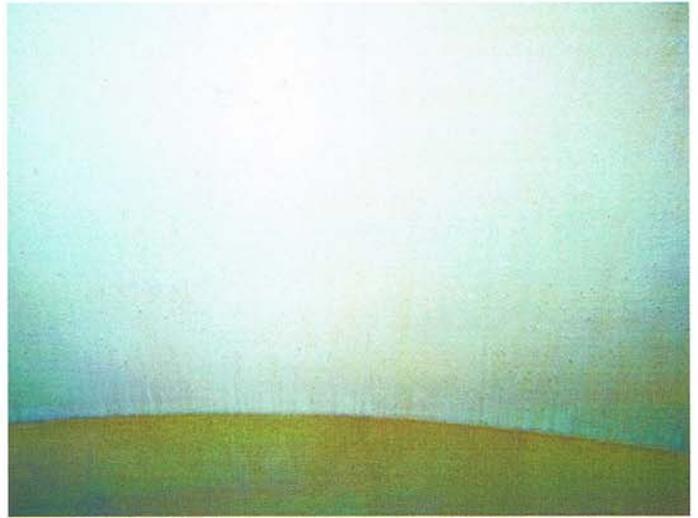
47 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



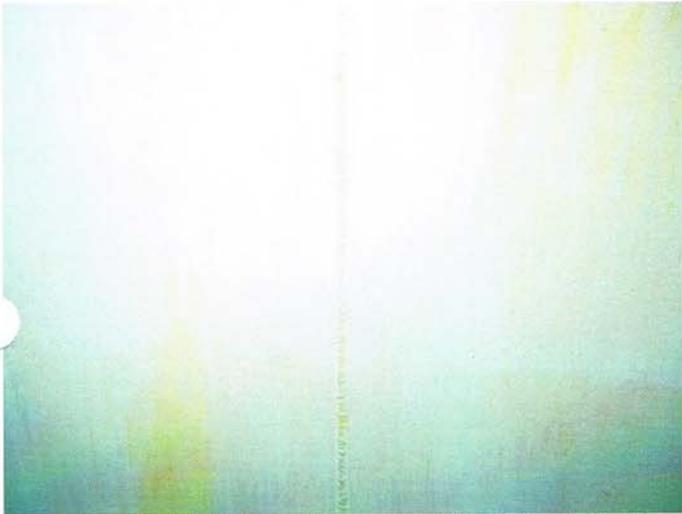
48 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



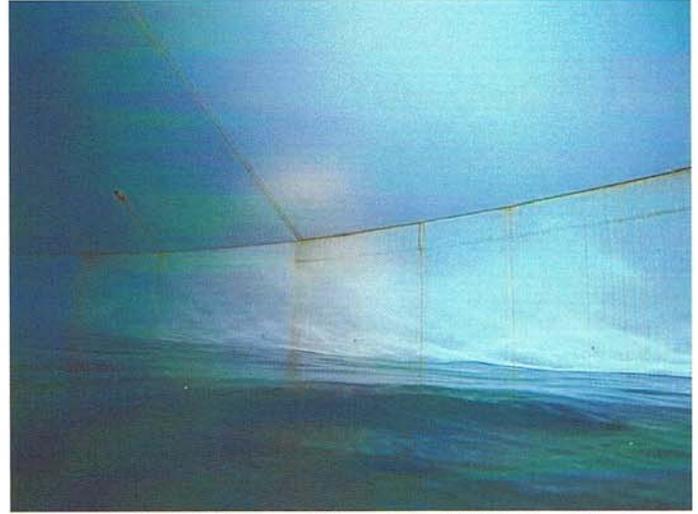
49 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



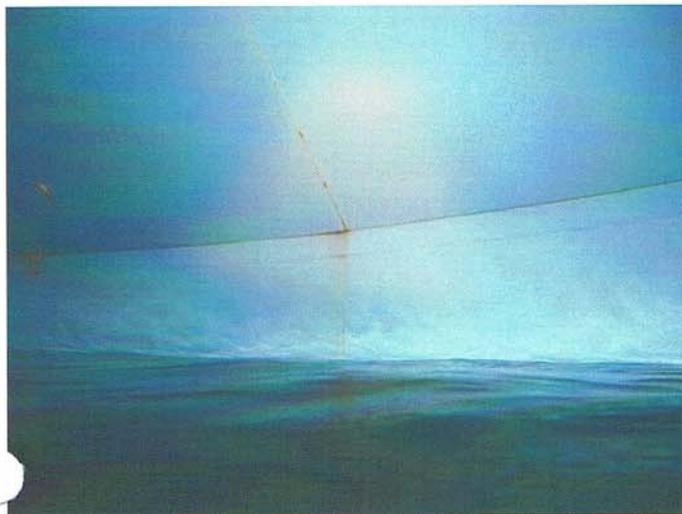
50 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



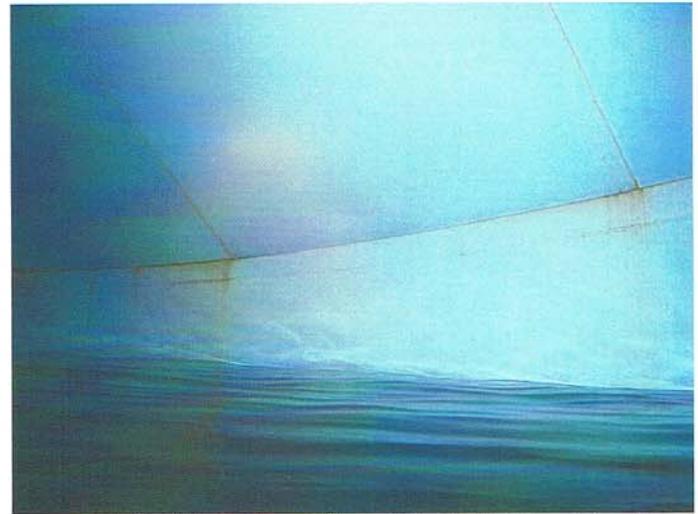
51 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



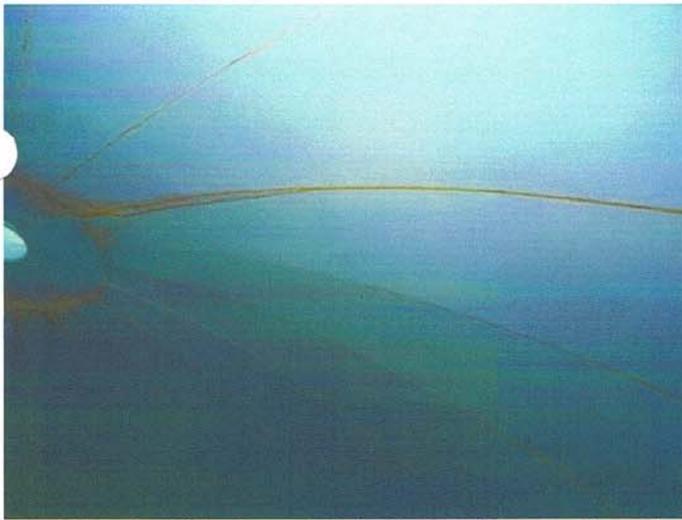
52 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



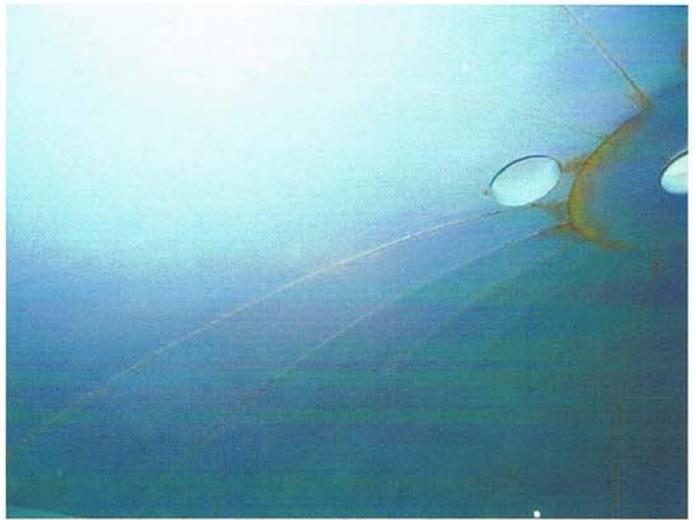
53 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



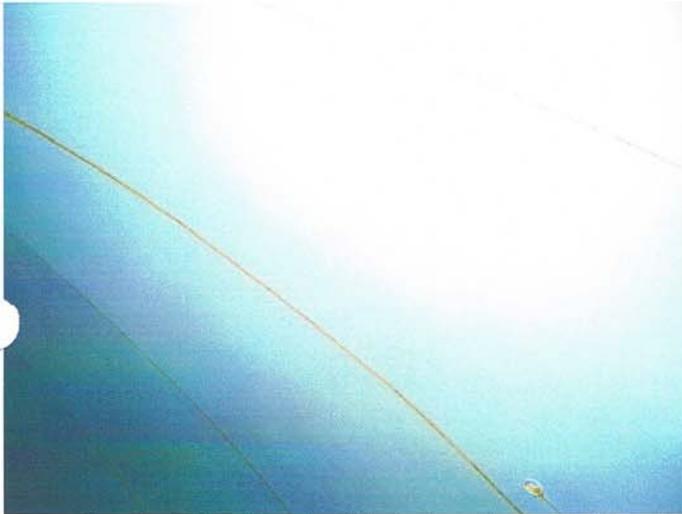
54 *Interior Walls Found Sound And With Good Coating Adhesion Yet Stained*



55 *Overhead Surfaces And Angle Iron Supports Found With Nearly Expired Coating Causing Blotch Rusting*



56 *Overhead Surfaces And Angle Iron Supports Found With Nearly Expired Coating Causing Blotch Rusting*



57 *Overhead Surfaces And Angle Iron Supports Found With Nearly Expired Coating Causing Blotch Rusting*



58 *Overhead Surfaces And Angle Iron Supports Found With Nearly Expired Coating Causing Blotch Rusting*



59 *Overflow*



60 *Discharge During Cleaning*