

September 24, 2024

Terrence Williams, General Manager

**ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS**

**Humboldt Community Services District
5055 Walnut Drive
Eureka, CA 95503
DONNA DRIVE TANK REHABILITATION PROJECT**

TO ALL PLAN HOLDERS

The following amendment is hereby made a part of the Contract Documents for the subject project, as fully and completely as if the same were set forth therein. This Addendum No. 1 consists of pages **AD1-1 to AD1-35**.

CONTRACT DOCUMENTS

ADDITION - The meeting minutes for the Pre-Bid Meeting held on September 10, 2024, at 10:00 AM are attached and shall be considered part of this Addendum. (2 pages)

ADDITION – The sign in sheet for the Pre-Bid Meeting held on September 10, 2024, at 10:00 AM is attached and shall be considered part of this Addendum. (1 page)

ADDITION – The interior and exterior photographic surveys from the Harper & Associates Engineering, Inc. dated September 2022 are attached and shall be considered part of this Addendum.

ADDITION – The laboratory report dated February 12, 2018 is attached and shall be considered part of this Addendum.

QUESTIONS SUBMITTED:

- Q1. How many rafters are there?
- A1. 31 rafters approximately 4" x 7.5" I-beam type.
- Q2. Straightening of the rafters is not recommended.
- A2. Straightening of the rafters will be determined by the engineer NOT the contractor. Rafters are in overall good condition with the exception of minor deflection and twisting of some of the rafters. It is not anticipated that any rafters will be replaced.
- Q3. Would you please provide additional information on the exterior dehumidification of the tank?
- A3. Dehumidification would require full containment of the tank, and the dehumidification unit must meet the requirements set forth in the specification.
- Q4. Would you allow for use of robotic blasting using a Faster Blaster on the exterior of the tank?
- A4. Faster Blaster or similar abrasive blasting machines will be allowed as long as they meet the specifications for cleanliness, surface profile, containment and all other specified conditions for abrasive blasting.

- Q5. When was the tank constructed?
- A5. The Donna Drive Tank was Constructed in 1992.
- Q6. Any chance of lead coating?
- A6. Low levels of lead, chromium and zinc are present on the interior and exterior of the tank. The hazardous metal laboratory report is included with this addendum.
- Q7. Is there any issue with cutting a door sheet into this tank?
- A7. The District does not have any issue with cutting a door sheet into this tank. If a door sheet is installed a submittal must be provided to the engineer and approved prior to cutting a door sheet. Horizontal and vertical bracing must be provided on the shell, and horizontal bracing on the door sheet. All welding and testing must be accomplished per API 653.
- Q8. Question regarding existing CP system and location of CP handholes.
- A8. Yes, there is an existing CP system. Refer to plans provided to bidders, sheets 7 of 8 Cathodic Protection Layout and 8 of 8 Cathodic Protection Details for location of existing handholes and new layout information.

Bids submitted without these pages signed, dated, and attached may be rejected. If you have any questions or comments, contact Krista Harper at (951) 372-9196.

Received by:

Contractor: _____ Date: _____

Signature: _____

Sincerely,

Terrence Williams
General Manager

9-24-24

MINUTES
Pre-Bid Conference
Humboldt Community Services District
Donna Drive Tank Rehabilitation Project
September 10, 2024 at 10:00 AM

PRESENT: The sign in sheet was made available to all bidders at the conclusion of the meeting.

The following items were discussed or noted during the course of the Pre-Bid Conference (PBC) at the District in the conference room and/or at the site after the meeting.

- 1) Introductions: The District Assistant Engineer, The President of Harper and Associates, and each representative of interested parties introduced themselves and signed into the meeting.
- 2) Bid Date: **October 1, 2024 @ 2:00 pm**
- 3) RFI's Due By: **September 19, 2022 @ 5:00 pm** Email to Krista@Harpereng.com and engineer@humboldtcsd.org
- 4) Scope of Work: The scope of work was discussed with an emphasis on the following items.
 - a) Straighten Rafters – Number to be determined after contractor installs scaffolding for inspection.
 - b) Wedging and abrasive blasting the topside of the rafters. It was noted that the contractors should read through the entire Coating and Painting specification 09 97 13 with an emphasis on sections 3.4 through 3.6 which discusses the abrasive blasting requirements on the topside of the rafters.
 - c) Overflow and Catch Basin – Noted with reference on plans and specification and no questions were brought up.
 - d) Option – Full containment use will be determined as the job progresses.
- 5) Estimated Bid Award: October 28, 2024
- 6) Estimated start date and project time: **April 1 to October 31, 2023 (100 calendar days)** It was noted that the project shall take place over 100 consecutive calendar days.
- 7) Liquidated Damages: \$500/day
- 8) Mandatory Pre-Bid Conference – All contractors signed in were present at the district office and onsite at the tank.
- 9) Laboratory Analysis: It was mentioned that the exterior roof and shell are at or above the action level for zinc.
- 10) Prevailing Wage Project: Maintain certified payroll reports in accordance with the DIR requirements. The Contractor shall also have them available upon request by the District.
- 11) Working hours for project: 7:30 A.M. to 4:30 P.M. It was noted that the project site is located in near proximity to a residential neighborhood and out of respect to local residents, please do not operate heavy machinery on site until 8:00 A.M.
- 12) It was noted that Harper & Associates Engineering (HAE) will be providing part-time structural inspection and must be notified by the contractor in advance when any structural work is to be accomplished. It was also noted that full-time coating inspection will be provided by HAE.
- 13) It was noted that the contractor will be allowed to “daisy chain” a lock on the access gate but it must be done in a manner that will allow other contractors and the District access.
- 14) Contractor will be responsible for power but low voltage (15 amp) power can be made available to

the contractor. Water will be available at a hydrant and a back flow device will be required but a meter will not be required.

- 15) Dehumidification is included as an additive bid item. The District will only allow use of the dehumidification item if the District determines weather conditions are significantly impacting the work schedule. The Contractor may use dehumidification voluntarily to expedite the project. If the contractor chooses to utilize dehumidification voluntarily the unit and use of the unit must meet the requirements set forth in the specifications.
- 16) Local residents will be notified of project by the District.
- 17) Contractor will furnish a portable toilet for the duration of the project, as noted in the specifications.
- 18) District will drain the reservoir prior to mobilization of the Contractor. Contractor will be responsible for puddles/residual water and any sediment that might still be present in the tank.
- 19) Contractors will be responsible for noting the existing site conditions. Contractor will be responsible for returning the site to its original conditions at the conclusion of the project with the exception of the grass areas around the site which can be utilized for storage and parking.
- 20) Wash down water can be run into the sewer adjacent to the site on Donna drive which will require approximately 300-400 feet of hose. The chlorinated disinfection water can be left in the tank prior to filling the tank.
- 21) Despite any notes or recordings of proceedings of the PBC by anyone present, these printed Minutes prevail.
- 22) Contractors are to adhere to Owner, County, and State laws regarding collusion. Any discussion of project with any competitive firm after completion of PBC, via personal meetings, telephone, or any other means, constitutes collusion and will result in appropriate legal action by the Owner. However, prime contractors may talk to potential subcontractors.

Donna Drive Tank Rehabilitation Pre-Bid Meeting Sign-in Sheet

Tuesday, September 10, 2024, 10:00 A.M.

Name	Company	E-mail
MARK O'BRIEN	FAER CONSTRUCTION DBA RESOURCE DEVELOPMENT COMPANY	Mbrien@resourcedevelopmentco.com
CHAD JOHNSON MIKE CLIFTON	UNIFIED	CHAD-JOHNSON@ UFSC.US
John Thomas	Mercer-Fraser Company	JThomas@mercerfraser.com mBenzinger@mercerfraser.com
Oscar Cuevas	Advance Industrial Services	Ocuevas@adiservices.com
ANDRE HARPER	HAE	Andre@hae.com
Andrew McLaughlin	Polytech Industrial, Inc.	andrewm@ polytechcoatings.com
JACOB DOLZIT	Viking Industrial	bids@vip.tanks.com
Darren Toland	HCSD Operations Foreman	dtoland@humboldtcsd.org
Kush Rawal	HCSD Dist Assistant Engineer	Krawal@humboldtcsd.org



HARPER & ASSOCIATES ENGINEERING, INC.

CONSULTING ENGINEERS

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Phone (951) 372-9196 Fax (951) 372-9198
www.harpereng.com

PHOTOGRAPHIC SURVEY

PROJECT: Corrosion Engineering Evaluation of a Welded Steel Water Storage Tank

STRUCTURE: Exterior of the 500,000 Gallon Welded Steel Water Storage Tank
(Donna Drive Tank)

OWNER: Humboldt Community Services District

LOCATION: Cutten, California

PHOTOGRAPHED BY: Andre Harper, Project Manager

DATE: September 2022

E-1 View of the Donna Drive Tank, illustrating severe oxidation and fading of the paint system.



E-2 Same as Photo E-1, except a closer view of the roof. Note pattern of exposed prime coat on the roof plates.



E-3 View of the center vent, illustrating moderate corrosion on the vent cover and nuts and bolts and moss growing on the cover.



E-4 View of the underside of the center vent cover, illustrating minor to moderate corrosion on the vent cover, neck, and screening. Note failing tape securing the vent screen.



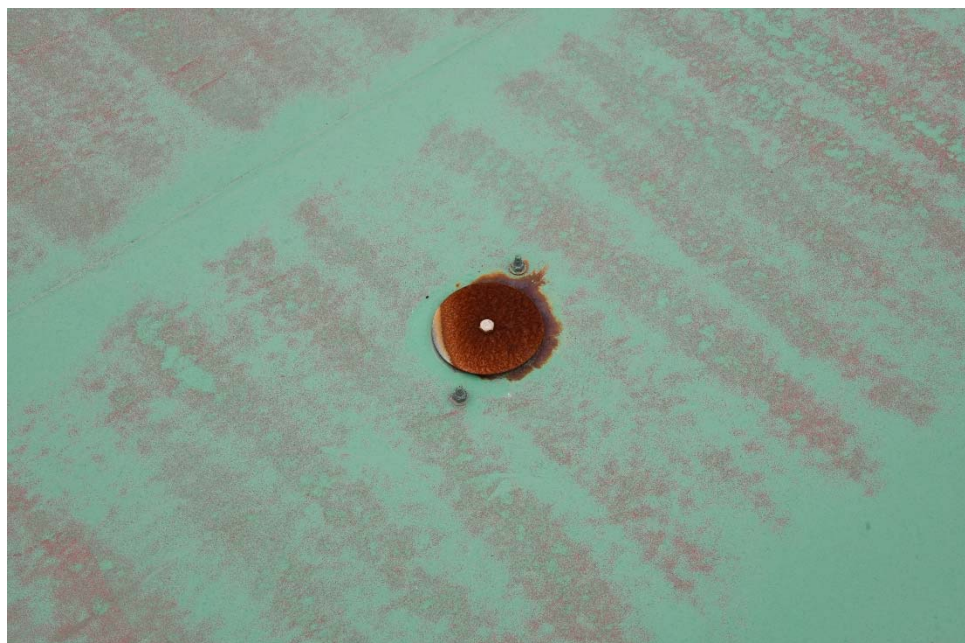
E-5 View of a portion of the roof, illustrating severe oxidation and fading of the paint system with exposed prime coat. Note pattern of exposed prime coat.



E-6 Same as Photo E-5, except in a different location. Note general corrosion on the handhole covers.



E-7 View of a cathodic protection (CP) handhole cover, illustrating general corrosion on the cover and along the circumference of the handhole.



E-8 Close-up view of the roof, illustrating a spot of cracked paint with moderate corrosion.



E-9 View of the edge of the roof, illustrating an area of dirt collecting at the edge of the roof with delaminating paint along the edges of the low area.



E-10 View of the roof hatch/work area, illustrating general corrosion and moss growing on the guardrail.



E-11 Same as Photo E-10, except a closer view of the guardrail.



E-12 View of the roof hatch, illustrating minor corrosion along the perimeter of the interior of the hatch curb and good condition of the aluminum cover.



E-13 View of the top of the ladder, illustrating exposed prime coat on the ladder cage.



E-14 Same as Photo E-13, except further down the ladder.



E-15 View of the ladder vandal guard, illustrating red primer on the vandal guard.



E-16 View of the top of the shell, illustrating moss growing under the top angle and otherwise generally good condition of the paint system.



E-17 View of the shell, illustrating moderate oxidation and fading and otherwise good condition of the paint system.



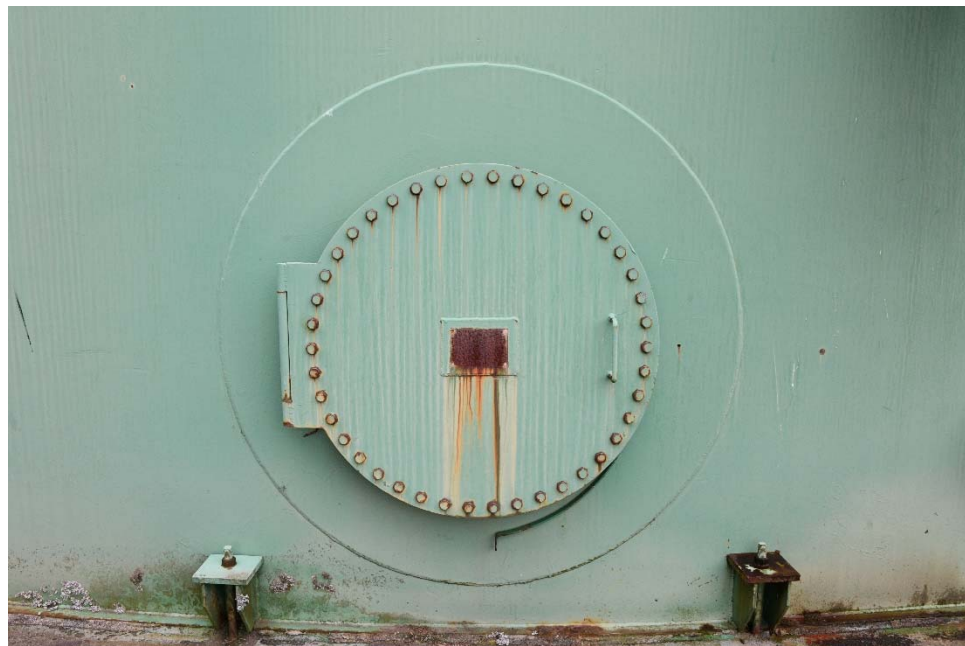
E-18 Same as Photo E-17, except in a different location. Note light color of the topcoats in this area.



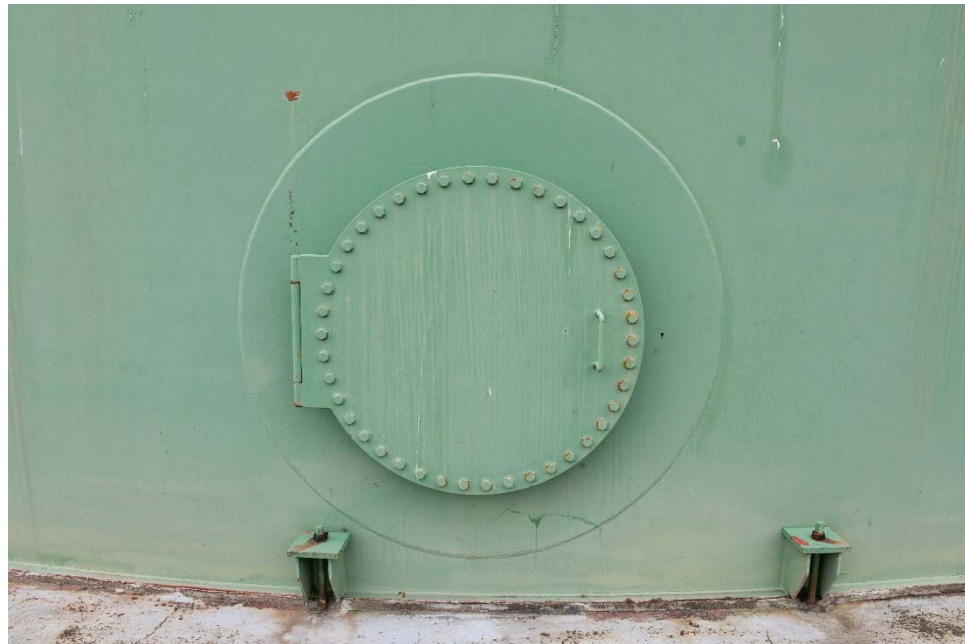
E-19 Same as Photos E-17 and E-18, except a closer view of the shell. Note areas of exposed prime coat.



E-20 View of the primary manhole, illustrating moderate corrosion at the nuts and bolts, hinge, and the surface where the identification plate was previously mounted.



E-21 Same as Photo E-20, except at the other manhole.



E-22 View of an abandoned bracket on the shell, illustrating moderate corrosion where the threaded rod meets the shell.



E-23 View of the liquid level indicator gauge board, illustrating the overall poor condition of the gauge board and target.



E-24 Same as Photo E-23, except at the bottom of the gauge board. Note severe corrosion at the bottom of the board.



E-25 View of seismic anchor bolts, illustrating moderate corrosion on the nuts and bolts and moss along the lower portion of the shell.



E-26 Same as Photo E-25, except a close-up view of an anchor bolt. Note moderate to severe corrosion with delaminating paint on the anchor chair.



E-27 View of the bottom plate extension (BPE), illustrating moderate to severe corrosion along the edge of the BPE. Note areas where corrosion is encroaching on the shell to BPE weld.



E-28 Same as Photo E-27, except in a different location.





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PHOTOGRAPHIC SURVEY

PROJECT: Corrosion Engineering Evaluation of a Welded Steel Water Storage Tank

STRUCTURE: Interior of the 500,000 Gallon Welded Steel Water Storage Tank (Donna Drive Tank)

OWNER: Humboldt Community Services District

LOCATION: Cutten, California

PHOTOGRAPHED BY: Andre Harper, Project Manager

DATE: September 2022

- I-1 View of the interior roof and structural members, illustrating general corrosion on the roof plates and rafters.



I-2 View of the center support structure, illustrating random minor corrosion on the lower rafter flanges and along the edge of the support plate.



I-3 Same as Photo I-2, except a close-up view of the edge of the support plate.



I-4 View of a portion of the roof, illustrating random general corrosion on the roof plates and rafters.



I-5 Same as Photo I-4, except in a different location. Note several rafters have moved from their original location.



I-6 View of rafters, illustrating moderate to severe bowing and rolling of the rafters in this area.



I-7 Same as Photo I-6, except a closer view of the rafters.



I-8 Same as Photos I-6 and I-7, except in a different location.



I-9 View of the roof above a rafter, illustrating general corrosion on the roof plates that previously rested on the rafter.



I-10 Same as Photo I-9, except in a different location.



I-11 View of the roof, illustrating general corrosion on the roof plates.



I-12 View of a cathodic protection handhole, illustrating minor corrosion along the circumference of the handhole and oxidation of the adjacent hardware.



I-13 Same as Photo I-12, except in a different location.



I-14 View of a rafter to shell connection, illustrating minor corrosion along the upper rafter flange and otherwise good condition of the coating system.



I-15 Same as Photo I-14, except from the opposite side of a different connection.



I-16 Same as Photos I-14 and I-15, except in a different location.



I-17 View of the roof to shell transition, illustrating minor corrosion along the void at the transition.



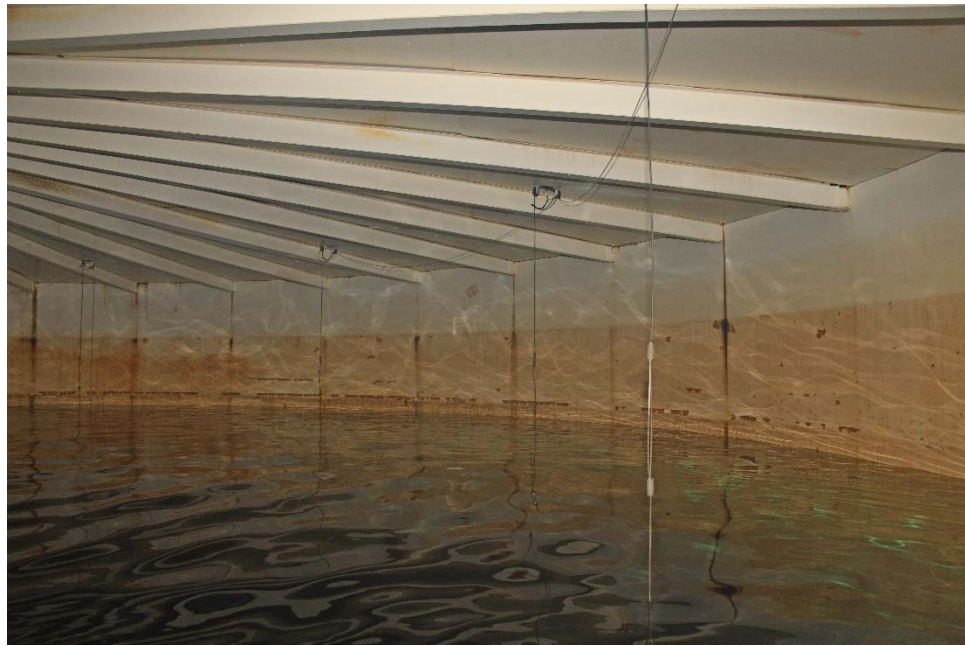
I-18 Same as Photo I-17, except a close-up view of the transition. Note small spot of cracked coating.



I-19 View of the shell, illustrating staining in the water fluctuation zone and otherwise good condition of the coating system.



I-20 Same as Photo I-19, except in a different location.



I-21 View of the overflow, illustrating corrosion at the upper flanges and stand-off bracket.



I-22 Same as Photo I-21, except a close-up view of the upper flanges.



I-23 Same as Photos I-21 and I-22, except a close-up view of the overflow stand-off bracket.



I-24 View of the liquid level indicator (LLI) roof penetrations, illustrating minor corrosion on the interior of the penetrations.



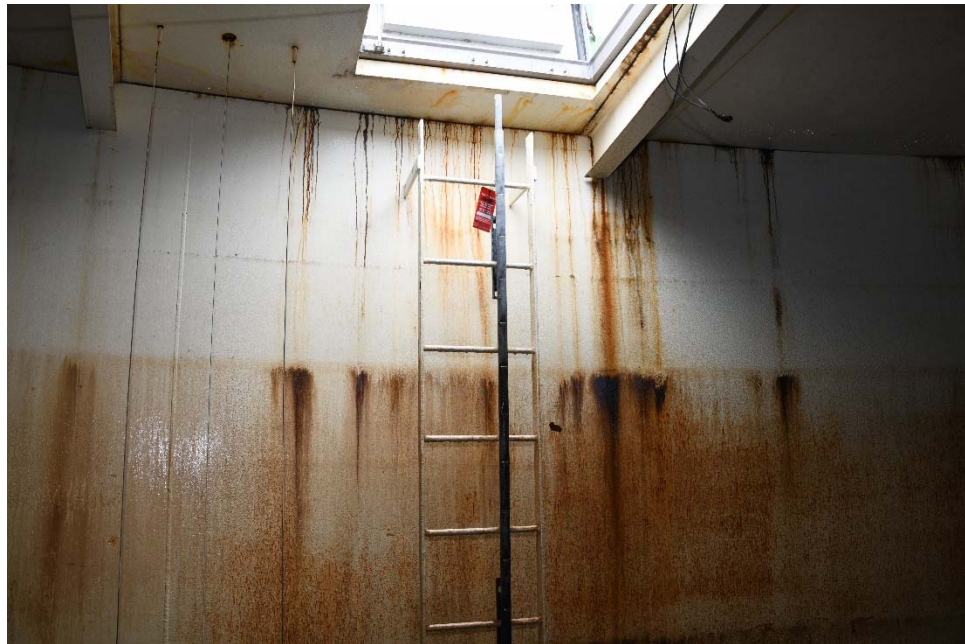
I-25 View of the LLI float, illustrating good condition of the float and guide wires.



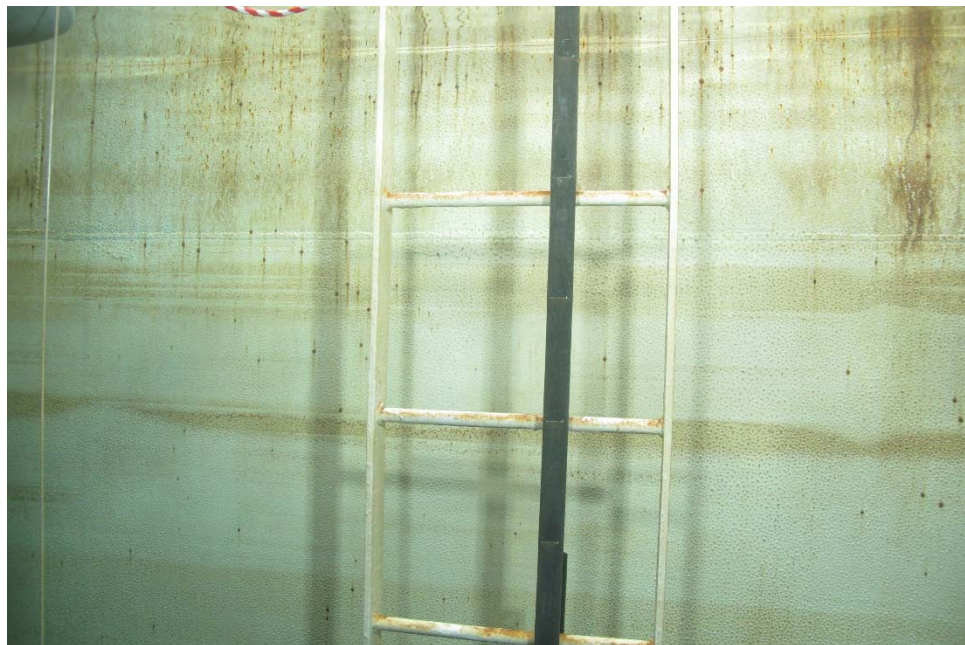
I-26 View of the roof hatch, illustrating minor corrosion along the perimeter of the hatch opening.



I-27 View of the shell at the ladder, illustrating dark staining on the shell and ladder and general corrosion on the shell.



I-28 View of the ladder just below the waterline, illustrating blistering on the ladder side rails and the adjacent shell. Note corrosion in the popped blisters on the shell.



I-29 Same as Photo I-28, except further down the ladder.



I-30 Same as Photos I-28 and I-29, except further down the ladder.



I-31 Same as Photos I-28 through I-30, except at the bottom of the ladder.



I-32 View of the shell, illustrating blistering of the coating system with numerous spots of corrosion.



I-33 Same as Photo I-32, except in a different location.



I-34 Same as Photos I-32 and I-33, except in a different location.



I-35 Same as Photos I-32 through I-34, except in a different location



I-36 View of a manhole, illustrating blistering on the manhole cover, stiffener ring, and adjacent shell.



I-37 Same as Photo I-36, except at the other manhole.



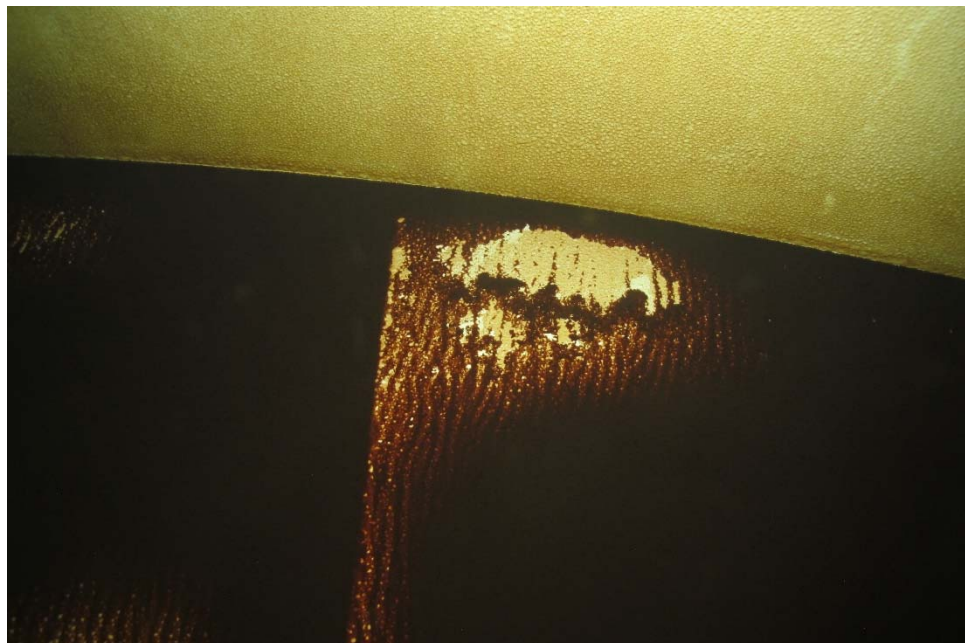
I-38 Same as Photo I-37, except a close-up view of the stiffener ring.



I-39 View of the shell to bottom transition, illustrating blistering of the coating system on the shell and dark sediment on the bottom plates.



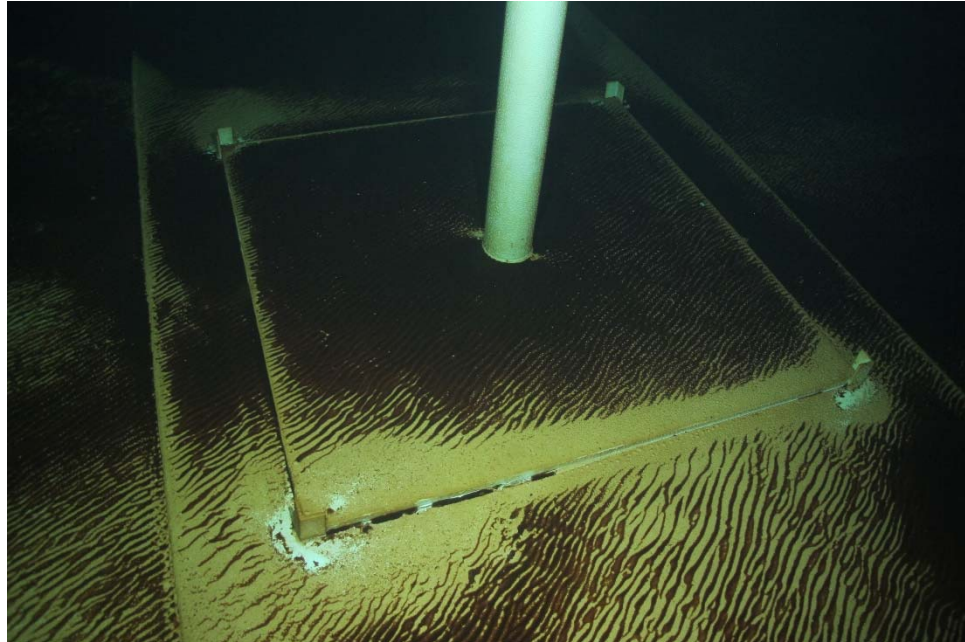
I-40 Same as Photo I-39, except in a different location. Note blistered coating where the bottom plates are exposed.



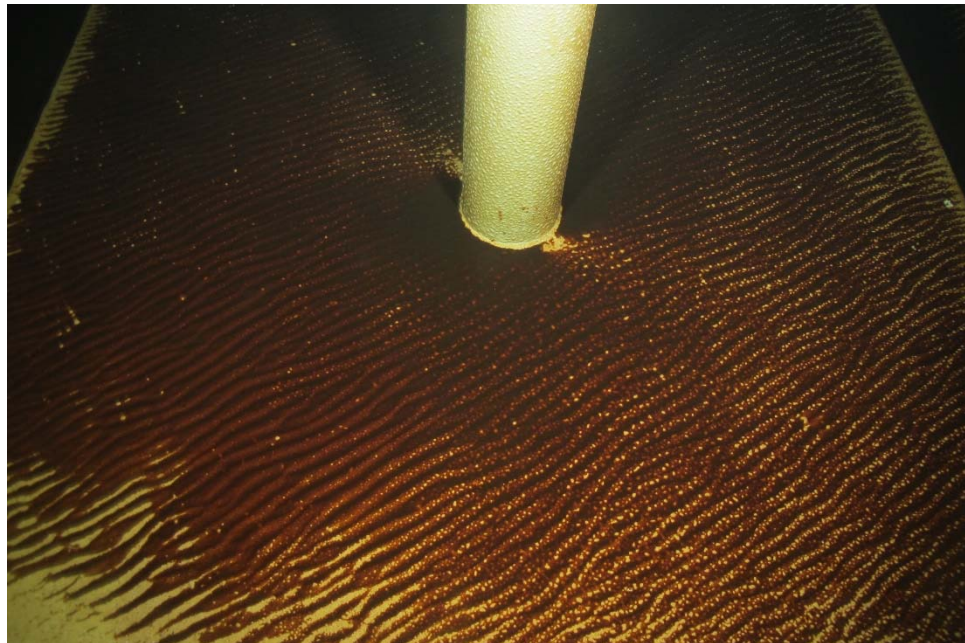
I-41 View of the column, illustrating blistering of the coating system with random spots of corrosion.



I-42 View of the column base, illustrating sediment on the base plate. Note blistering on the lower column.



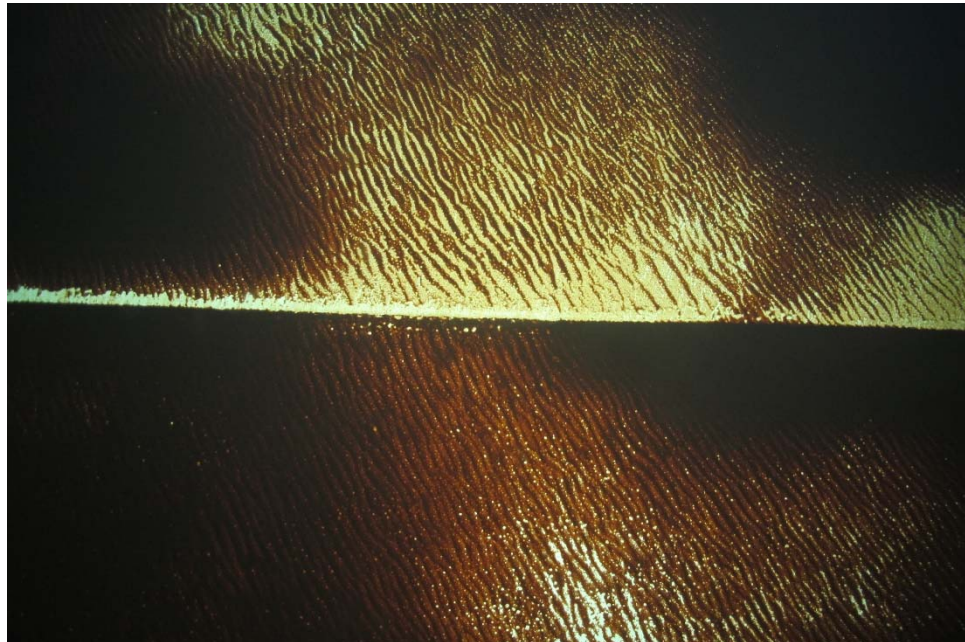
I-43 Same as Photo I-42, except a close-up view of the base plate. Note blistering can be seen through the light areas of the sediment on the base plate.



I-44 Same as Photos I-42 and I-43, except a close-up view of a retainer clip. Note blistering on all visible surfaces.



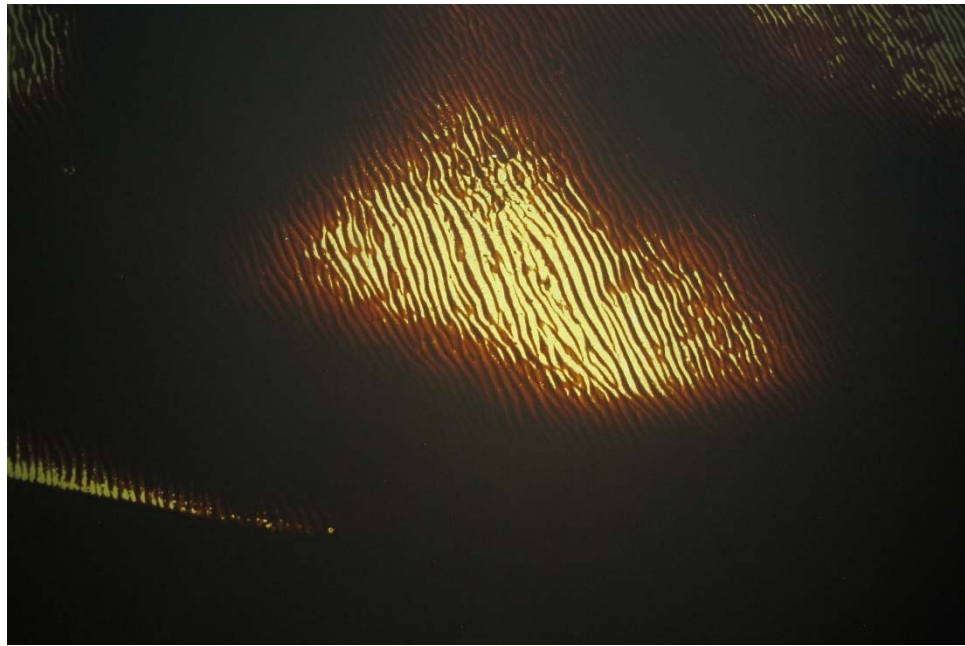
I-45 View of the bottom, illustrating blistering of the coating system where it can be seen through the sediment.



I-46 Same as Photo I-45, except in a different location.



I-47 Same as Photos I-45 and I-46, except in a different location.



I-48 View of the overflow, illustrating blistering of the coating system on the stand-off bracket and compression flange.



I-49 Same as Photo I-48, except further up the overflow. Note corrosion on the stand-off bracket.



I-50 View of the drain sump and adjacent appurtenances, illustrating blistering of the coating system on all surfaces.



I-51 View of the inlet/outlet diffuser, illustrating blistering of the coating system.



I-52 View of the LLI base, illustrating generally good condition of the base and guide wires.





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CERTIFICATE OF ANALYSIS

1802-00086

HARPER & ASSOC. ENGINEERING
KRISTI COX
1240 E. ONTARIO AVE
STE. 102-312
CORONA, CA 92881-8671
Project: HUMBOLT COMMUNITY SVCS DIST/ DONNA DRIVE TANK

Date Reported 02/15/18

Date Received 02/12/18

Invoice No. 81808

Cust # H089

Permit Number

Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 EXTERIOR ROOF					Date & Time Sampled:		02/07/18	@ 10:45
Sample Matrix: Solid								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		02/14/18	TLB
Chromium	30.6		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Lead	30.0		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Zinc	4120		mg/Kg	EPA 6010B	1.0	5.00	02/14/18	TLB
Sample: 002 EXTERIOR SHELL					Date & Time Sampled:		02/07/18	@ 10:45
Sample Matrix: Solid								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		02/14/18	TLB
Chromium	24.2		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Lead	44.5		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Zinc	6480		mg/Kg	EPA 6010B	1.0	5.00	02/14/18	TLB
Sample: 003 INTERIOR ROOF					Date & Time Sampled:		02/07/18	@ 11:00
Sample Matrix: Solid								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		02/14/18	TLB
Chromium	104		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Lead	8.11		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Zinc	1260		mg/Kg	EPA 6010B	1.0	5.00	02/14/18	TLB
Sample: 004 INTERIOR RAFTER					Date & Time Sampled:		02/07/18	@ 11:00
Sample Matrix: Solid								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		02/14/18	TLB
Chromium	78.2		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Lead	7.44		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Zinc	1180		mg/Kg	EPA 6010B	1.0	5.00	02/14/18	TLB
Sample: 005 INTERIOR SHELL					Date & Time Sampled:		02/07/18	
Sample Matrix: Solid								
[Metals]								

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

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Sample: 005 INTERIOR SHELL							Date & Time Sampled: 02/07/18	
Sample Matrix: Solid								
.....continued								
Metals Acid Digestion	Complete			EPA 3050B	1.0		02/14/18	TLB
Chromium	28.9		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Lead	4.51		mg/Kg	EPA 6010B	1.0	0.500	02/14/18	TLB
Zinc	118		mg/Kg	EPA 6010B	1.0	5.00	02/14/18	TLB

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications. The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.