ALABAMA PORT AUTHORITY ENGINEERING

Ship Unloader Crane Removal

Specification Booklet

Project Name Ship Unloader Crane Removal

Project No. 11781 **Task No.** 01 **Addendum No.** 1

To: Prospective Bidders **Date:** 5/11/2026

The following are additional documents and answers to questions received.

Item	Description
	Attachments
1.	The pre-bid sign in sheet is attached.
2.	A picture of the delivery of the S Crane to Dock 1 for informational purposes only.
3.	Additional reference drawings associated with the S Crane are for informational purposes only. While the Alabama Port Authority believes this information to be substantially accurate, no responsibility is assumed by the Alabama Port Authority for its completeness or accuracy.
4.	Pre-Demolition Hazardous Materials Survey.
	Clarifications
5.	The contractor will be given access to the berth at Dock 1 for a maximum of 30 days.
	Questions
6.	Given the specialized nature of this project with movement of the S Crane from Dock 1 to Dock 3 and yard 4, followed with the demolition of the S Crane, can the Contractors License requirement for the state of Alabama be: 1) Waived or postponed until after the bid date but before work takes place? 2) Can a contractor's license from another state be acceptable? Answer: No. Having an Alabama General Contractors license is a requirement to submit a bid proposal for this project.
7.	Confirm that the conveyor gantries below the S-Crane and Dock 1 will be removed and later installed by the Alabama Port Authority. Answer: Confirmed.
8.	The tender documents reference the contractor removing the conveyor gantry sections on Dock 3. However, could you confirm whether these sections are to be reinstated following the completion of the work, or if they are to be scrapped? Answer: These are to be scrapped.

9.	If the conveyor gantry sections are to be scrapped, would there be a favorable view taken if the contractor proposed scrapping the full length of the conveyor, rather than only the sections required for demolition? Answer: No, the contractor should only remove sections of the conveyor as required for crane demolition.
10.	Do you have any Center of Gravity data available of the S-Crane? Answer: Attached are additional reference drawings for informational purposes only. Additional drawings may be published in future Addenda.
11.	Are there any archive photos available from when the S-Crane was originally delivered? Answer: See attached photo of the delivery for informational purposes only.

Please indicate your receipt of this addendum by adding the addendum number in the appropriate place in your Specification Book.

Project Manager:

Kyle Strachan

_____**5/11/2026**

Kyle Strachan, P.E.

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
AM-TECH	660 DUMESNIL		MOBILE
Contact Name	**e-mail address**	**Telephone**	**Telephone**
TOM BOYNTON	tboynton@americanmtech.com	713-295-1961	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
O'Brien SPS	Spire View Horle	Ferryboat Lane	Sunderland, UK
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Carlton O'Brien	Carlton@obrienSPS.com	+44 7966560574	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
VIRGINIA WRECKING CO.	PO BOX 2730		DAPHNE, AL 36526
Contact Name	**e-mail address**	**Telephone**	**Telephone**
KYLE MADDOX	OFFICE@VIRGINIAWRECKING.COM	251-626-3907	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Weeks Marine / Kiewit	11011 Richmond Av		Houston TX
Contact Name	**e-mail address**	**Telephone**	**Telephone**
William Broadus	wpbroadus@weeksmarine.com	251 802 8510	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Harris Contracting Services		5413 Lott Road	Eight Mile, AL 36613
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Mike Thompson	mike@harriscontractingservices.com	251.654.9344	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
G.A. West	12010 Ratcliff Rd		Creola AL 36525
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Kristian Roe	kristian.roe@gawest.com	251-421-5438	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
R + R Contracting	2514 Century Fla		Century Fla

Contact Name	e-mail address	Telephone	Telephone
Greg Hall	ghall@randrcontractingllc.com	251-979-5704	

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip
GLOBAL RIGGING & TRANSPORT	1315 TAYLOR FARM Rd		VIRGINIA BEACH, VA 23453

Contact Name	e-mail address	Telephone	Telephone
NATHAN SPRAGUE	N.Sprague@GLOBALRIGGING.com	757 773.1151	

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Massman Construction Co	824 Elmwood Park Blvd		New Orleans, LA

Contact Name	e-mail address	Telephone	Telephone
Steve Hayes	shayes@massman.net	225-892-2025	

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip

Contact Name	e-mail address	Telephone	Telephone

Signature	Signature	Signature	Signature

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
North American Dismantling	PO Box 307		Lapeer, MI 48446

Contact Name	e-mail address	Telephone	Telephone
Logan Jackson / Zac Clark	Ljackson@nadc1.com, zclark@nadc1.com	810-441-7306	248-842-2167

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip
GSD Tanduy USA, Inc	P.O. 1419		Channelview, TX 77530

Contact Name	e-mail address	Telephone	Telephone
Paul N Conway	paul.conway@gsdcompanies.com	(936) 689-3108	(251) 459-1500

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Resolve Marine	2730 Claudia Lane	Theodore	AL

Contact Name	e-mail address	Telephone	Telephone
Jerry W Bailey	JBailey@ResolveMarine.com	251-604-8515	

Signature	Signature	Signature	Signature

Contractor (Business) Name	Address 1	Address 2	City, State Zip
ICS	2301 Pratt Bois St	/	Pascagoula MS 39581

Contact Name	e-mail address	Telephone	Telephone
Todd Williams	todd@industrialcrane services.com	228 249 1350	

Signature	Signature	Signature	Signature

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
GIP	26001 old Americus Rd		
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Heath Hudson	GIP @ GIP Industrial Svcs. com	228-217-9[illegible]	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
GLP	8366 State St Citronelle AL		36522
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Chad Denmark	Chadwick Denmark @gmail.com	251-454-1751	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Massman Construction	824 Elmwood Park blvd		New Orleans, LA 70123
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Megan Vest	mvest@massman.net	(573)8361123	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Resolve Marine	3301 SE 14th Ave		Ft Lauderdale, FL 33316
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Joshua Lepine	JLepine@ResolveMarine.com	954 853 4662	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
BoMac Contractors	19500 Helenbirg Rd		Covington, LA 70433
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Collin Ross	Collin.ross@bomac.com	504-578-0003	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
ZPMC USA	918 Government Street		Mobile, AL 36604
Contact Name	**e-mail address**	**Telephone**	**Telephone**
William Lawrence	WilliamL@CA-LLC.com	251 554 7652	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Konecranes	115 Coleman Blvd		Savannah GA 31408
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Carl Walters	carl.walters@konecranes.com	414-803-9728	
Signature	**Signature**	**Signature**	**Signature**

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
AACR	777 HUTH RD BOX SPRINGS	GA 31801	
Contact Name	**e-mail address**	**Telephone**	**Telephone**
charles Reeves	C_reahm@hotmail.com	404 3172947	
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
STACR INC			
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Sammy Simmons			
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

Alabama State Port Authority
Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal
Date: 05.06.2026

Project # 11781 **Task#** 1

Contractor (Business) Name	Address 1	Address 2	City, State Zip	
CMG ENGINEERS	457 ST. MICHAEL ST		MOBILE 36602	
Contact Name	**e-mail address**		**Telephone**	**Telephone**
GARY COWLES	GCOWLES@CMG-A.COM			251433/611
Signature	**Signature**	**Signature**	**Signature**	
[signature]				

Contractor (Business) Name	Address 1	Address 2	City, State Zip	
Contact Name	**e-mail address**		**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**	

Contractor (Business) Name	Address 1	Address 2	City, State Zip	
Contact Name	**e-mail address**		**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**	

Contractor (Business) Name	Address 1	Address 2	City, State Zip	
Contact Name	**e-mail address**		**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**	

Alabama State Port Authority

Pre-Bid Meeting Attendance Sheet

Project Name Ship Unloader Crane Removal **Project #** 11781 **Task#** 1

Date: 05.06.2026

Contractor (Business) Name	Address 1	Address 2	City, State Zip
D.H. GRIFFIN	8690 LAMBRIGHT		HOUSTON TX 77075
Contact Name	**e-mail address**	**Telephone**	**Telephone**
TIM MORRIS	mtmorris@dhgriffin.com	713-991-4444	281-602-9298
Signature	**Signature**	**Signature**	**Signature**
[signature]			

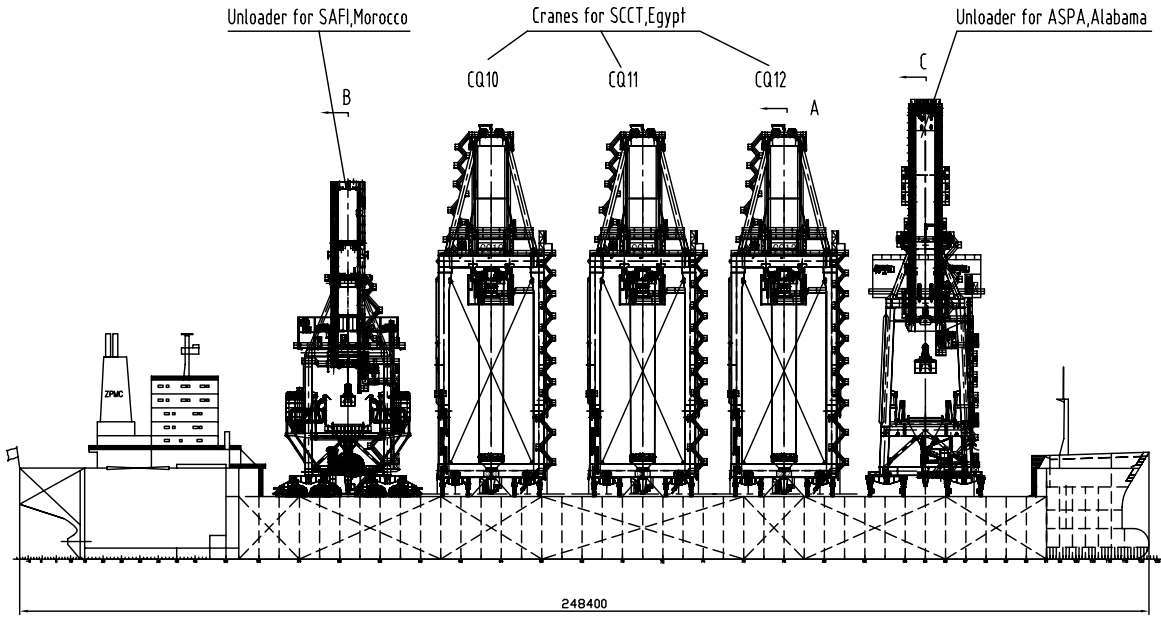
Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

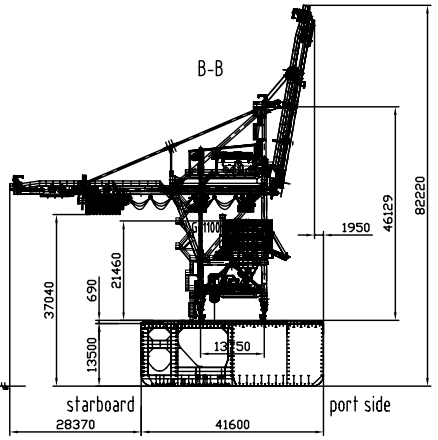
Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

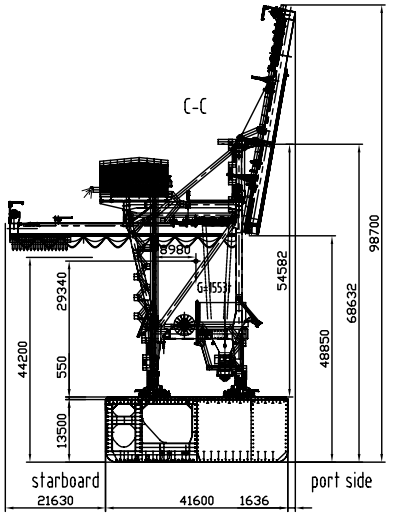
Contractor (Business) Name	Address 1	Address 2	City, State Zip
Contact Name	**e-mail address**	**Telephone**	**Telephone**
Signature	**Signature**	**Signature**	**Signature**

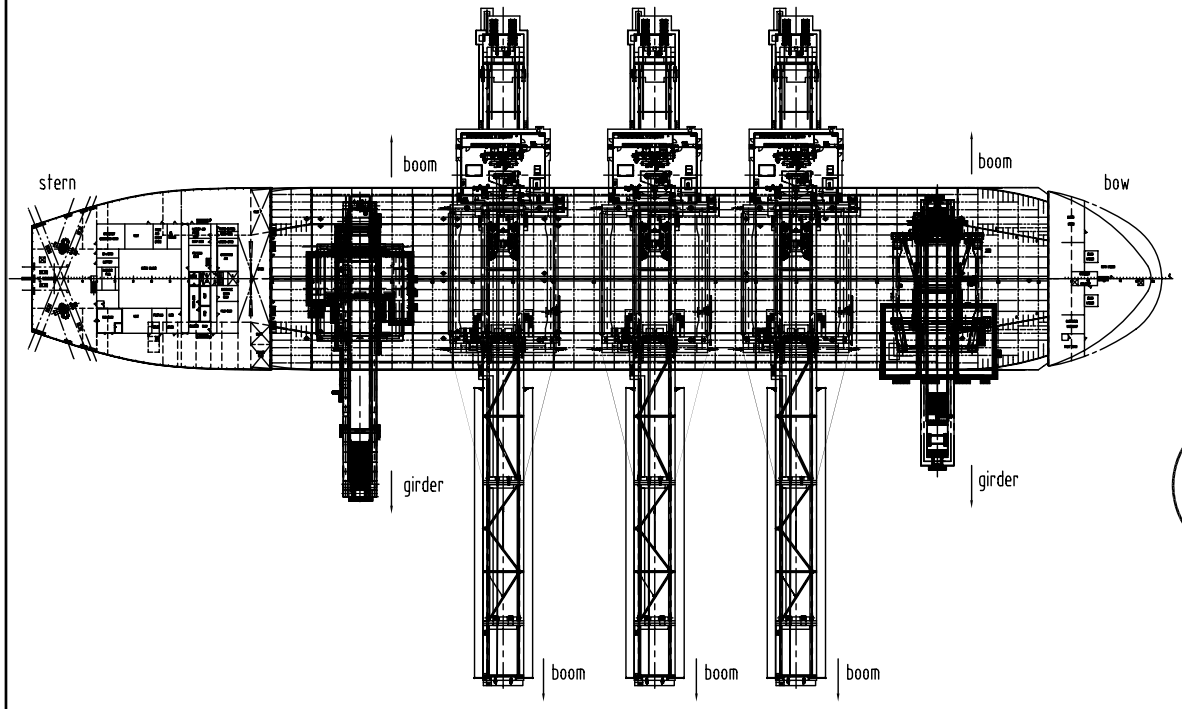
S Crane Delivery

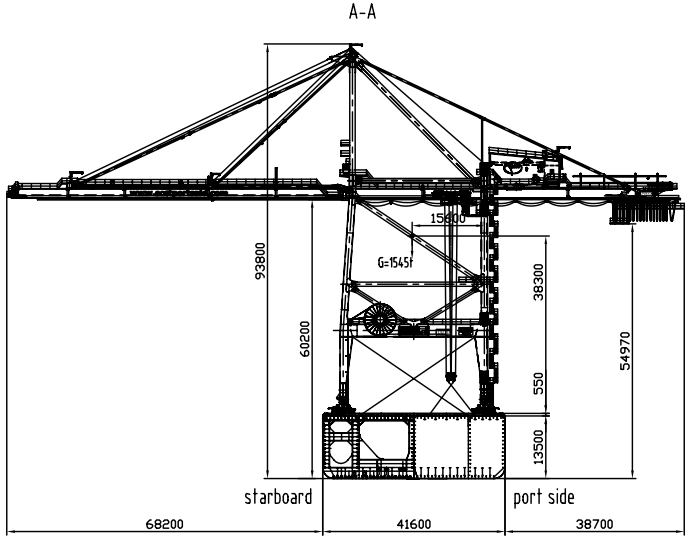
For Reference Only









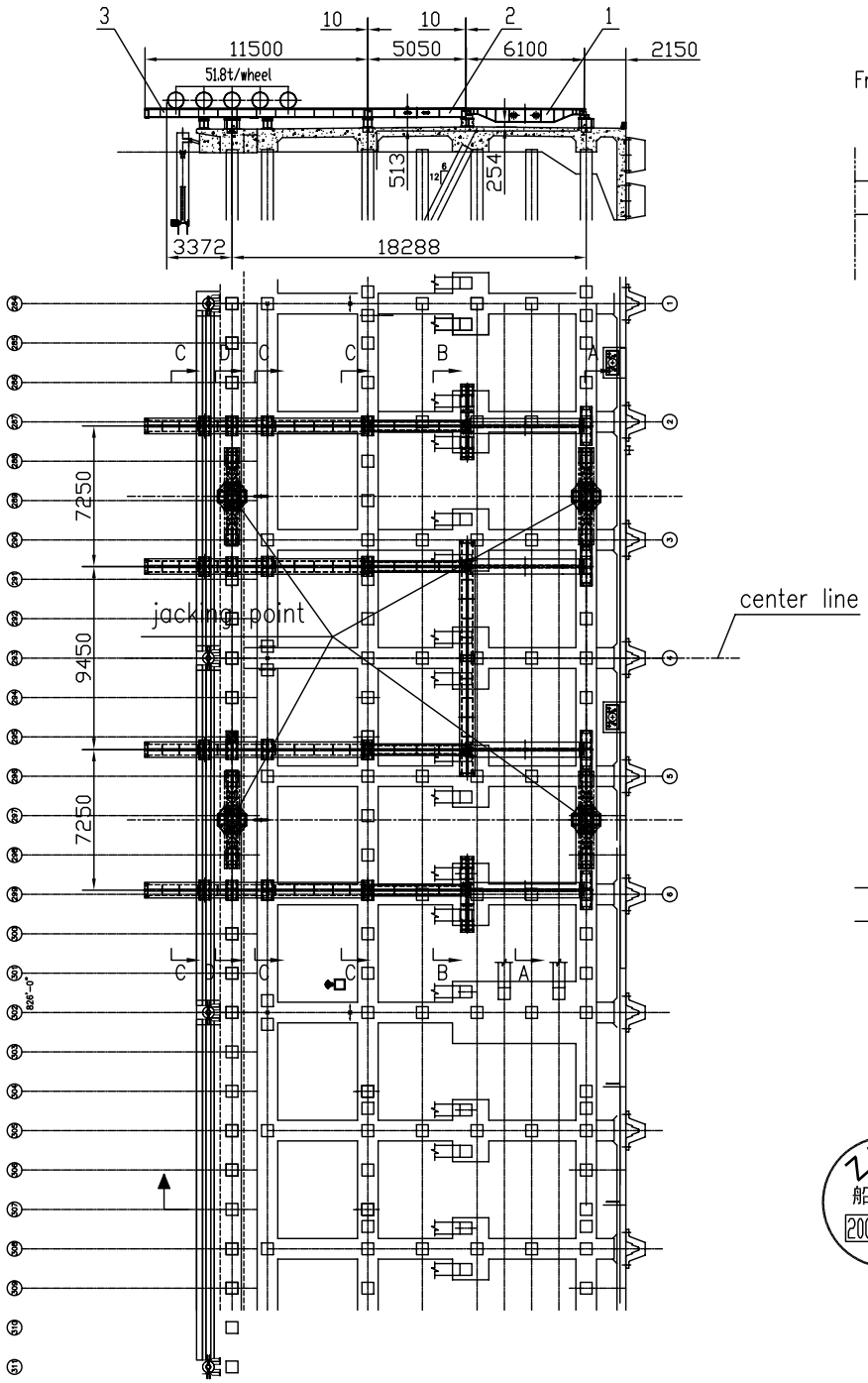


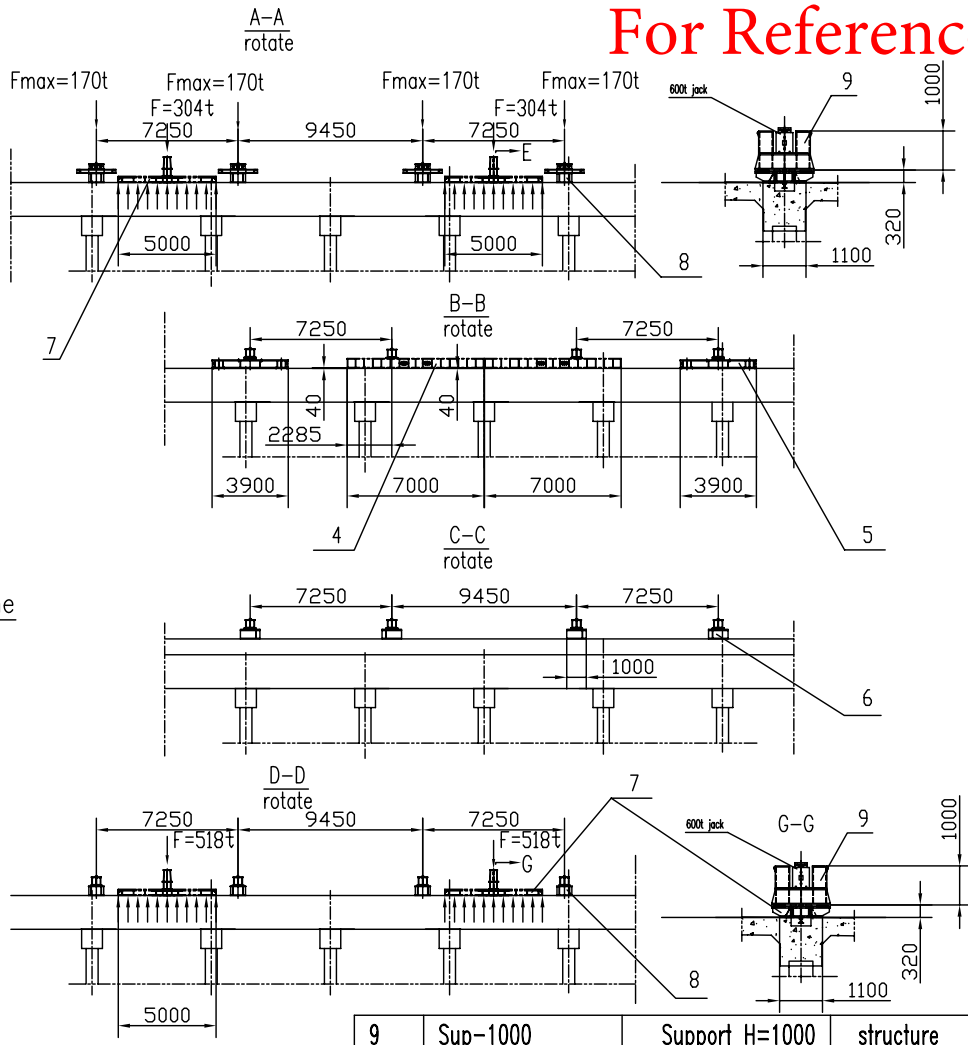
ZPMC 船运部 2006.04.18

NO.	SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	Q'TY/SET	SET/CRANE	SCALE
	UL25/UL35/J169B-F300	Sailing status				

ZPMC	DRAW			TECH.			TRACE		
	CHCK			STDD			CHCK		

For Reference Only



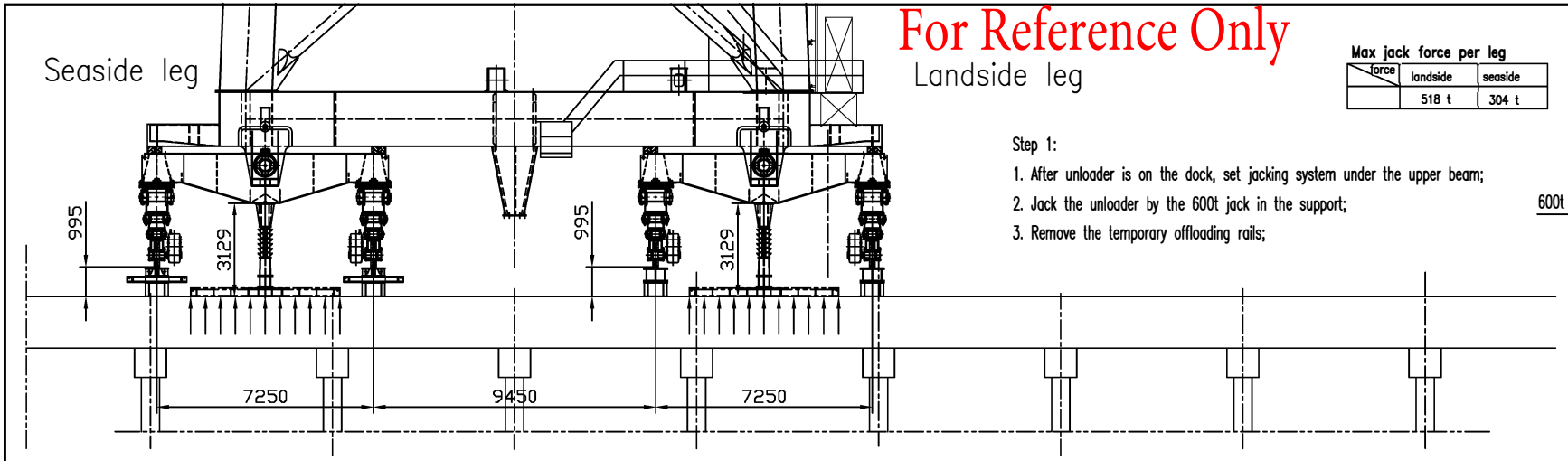


NO.	SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	Q'TY/SET	SET/CRANE	SCALE
9	Sup-1000	Support H=1000	structure	4		
8	Sup-480	Support H=480	structure	8		
7	B-5000	Beam L=5000	structure	4		
6	B-1000	Beam L=1000	structure	12		
5	B-3900	Beam L=3900	structure	2		
4	B-7000	Beam L=7000	structure	2		
3	RL-11500	Rail L=11500	structure	4		
2	RL-5050	Rail L=5050	structure	4		
1	RL-6100	Rail L=6100	structure	4		
	UL25-F401	Rail arrangement on the terminal				

ZPMC	DRAW			TECH.			TRACE		
	CHCK			STDD			CHCK		

ZPMC 船运部 2006.04.18

For Reference Only

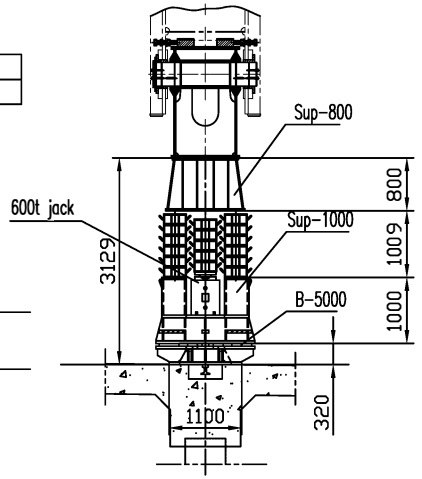


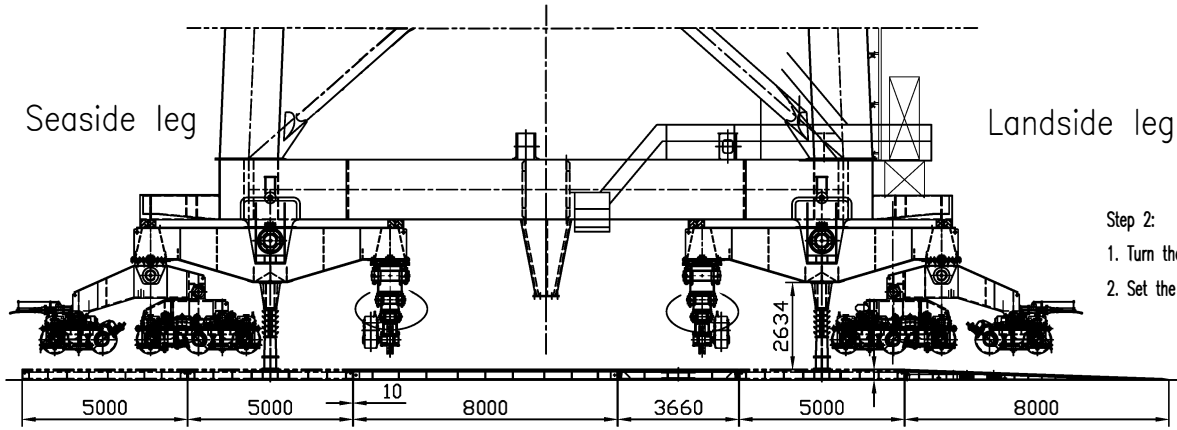
Max jack force per leg

force	landside	seaside
	518 t	304 t

Step 1:

1. After unloader is on the dock, set jacking system under the upper beam;
2. Jack the unloader by the 600t jack in the support;
3. Remove the temporary offloading rails;

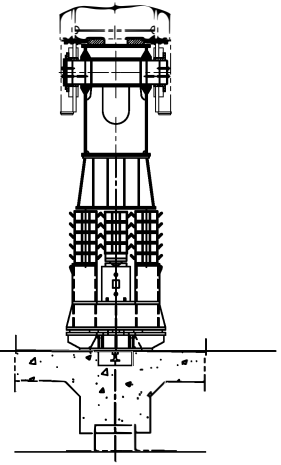


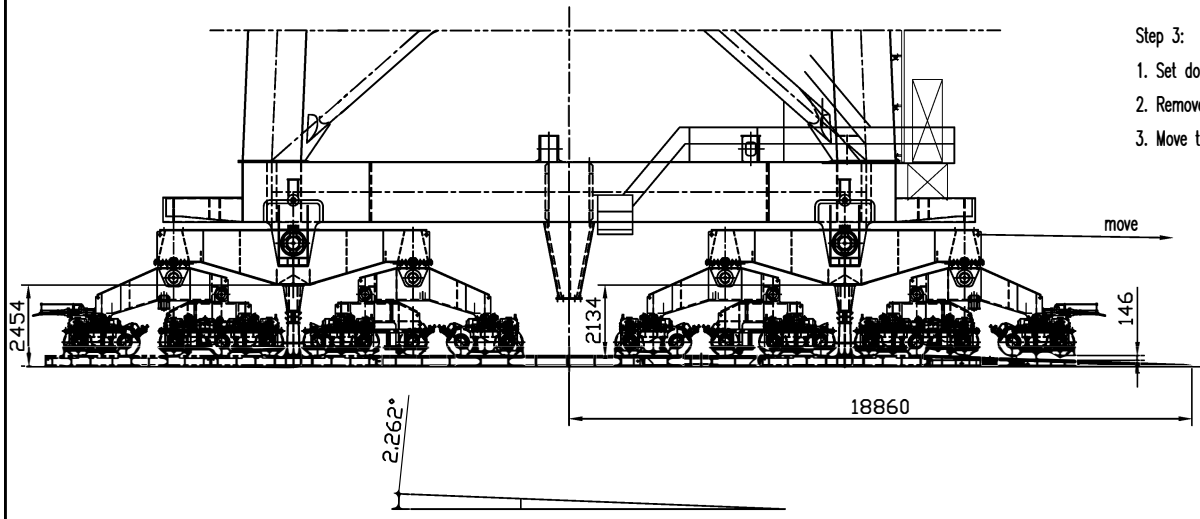


ZPMC 船运部 2006.04.18

Step 2:

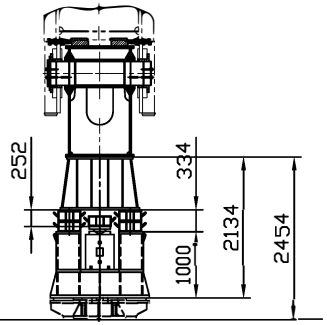
1. Turn the boggies alongside the dock rail;
2. Set the sliding rails;





Step 3:

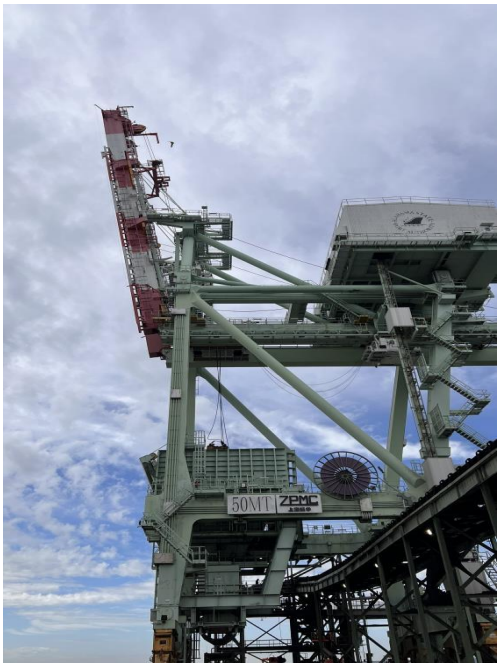
1. Set down the unloader, until the wheels on the sliding rails;
2. Remove the jacking system;
3. Move the unloader alongside the sliding rails by the towing system;



NO.	SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	Q'TY/SET	SET/CRANE	SCALE
	UL25-F403	Jacking the unloader				

ZPMC	DRAW			TECH.			TRACE		
	CHCK			STDD			CHCK		

Pre-Demolition Hazardous Materials Survey
Alabama Port Authority
McDuffie Terminal - S-Crane, M-Crane, and Z-Crane
2001 Ezra Trice Blvd
Mobile, AL 36603



Prepared for:

Alabama Port Authority

250 N Water St
Mobile, AL 36602

Prepared by:

Corporate Environmental Risk Management, LLC
2 South Water Street, Suite 300
Mobile, AL 36602
Project No. 2026-1581A-001A

May 7, 2026

C·E·R·M
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

Table of Contents

May 7, 2026

Ms. Gretchen Barrera, P.E.
Environmental Director
Alabama Port Authority
250 N Water St
Mobile, AL, 36602

Re: **Pre-Demolition Hazardous Materials Survey – Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP)**
Alabama Port Authority
McDuffie Terminal - S-Crane, M-Crane, and Z-Crane
2001 Ezra Trice Blvd
Mobile, Mobile County, AL, 36603
CERM Project No. 2026-1581A-001A

Dear Ms. Barrera,

Corporate Environmental Risk Management, LLC (CERM) was retained by the Alabama Port Authority to conduct a Pre-Demolition Hazardous Materials Survey in support of planned demolition or deconstruction activities associated with three cranes (S-Crane, M-Crane, and Z-Crane) located at the McDuffie Terminal. The purpose of this survey was to identify asbestos-containing materials (ACM) and lead-based paint (LBP) that may be disturbed during planned work, and to provide information necessary for regulatory planning, contractor coordination, and worker protection considerations. The survey was limited to ACM and LBP and did not include evaluation of other hazardous materials except where specifically noted.

Description of Crane Structures
The Pre-Demolition Hazardous Materials Survey included three crane structures located at the Alabama Port Authority – McDuffie Terminal. The cranes vary in age, location, and operational history, which was considered during survey planning and interpretation of results.

- S-Crane is the newest of the three cranes and was manufactured in 2005. It is located at the southernmost portion of the McDuffie Terminal. Due to its age, this crane generally incorporates more modern materials and coating systems.

- M-Crane, manufactured in 1996, is the second oldest crane and is located at the northernmost portion of the terminal. The M-Crane experienced heavy operational use during its service life and has undergone multiple equipment replacements and upgrades, including components located within the cable warehouse, also referred to as the E-House.

- Z-Crane is the oldest crane included in the survey, having been manufactured in 1980, and is located between the S-Crane and M-Crane. Similar to the M-Crane, the Z-Crane was heavily used during its operational life and has undergone several equipment upgrades within the E-House. Placards and component labels observed during inspection indicate that some equipment was installed or replaced as late as 2001, reflecting a mix of original and upgraded materials.

The variation in crane age, usage history, and equipment upgrades was considered during the identification, sampling, and testing of suspect asbestos-containing materials and lead-based paint.

At the time of the survey, terminal operations were ongoing in areas adjacent to the crane structures, and testing was limited to accessible components of the equipment.

The onsite inspection and sampling activities for the crane structures were conducted by qualified CERM personnel on April 21-23, 2026.

1.0 SCOPE OF SERVICES

The scope of services for this project consisted of a Pre-Demolition Hazardous Materials Survey limited to asbestos-containing materials (ACM) and lead-based paint (LBP) that may be disturbed during planned demolition or deconstruction activities. Services included:

1. Identification, sampling, and laboratory analysis of suspect asbestos-containing materials (ACM); and
2. Lead-based paint (LBP) testing using X-ray fluorescence (XRF), supplemented by confirmatory paint chip sampling where appropriate.

The survey was conducted to support demolition planning, regulatory compliance, and contractor awareness. The scope did not include air monitoring, exposure or risk assessment, abatement design, clearance sampling, or development of demolition means and methods.

2.0 REGULATORY AND METHODOLOGICAL FRAMEWORK

This Pre-Demolition Hazardous Materials Survey was conducted to support planned demolition or deconstruction activities and to assist the Alabama Port Authority with regulatory planning, contractor coordination, and worker protection considerations related to asbestos-containing materials (ACM) and lead-based paint (LBP).

The scope of this survey and the methodologies employed were selected based on applicable federal regulatory requirements, industry standards, and commonly accepted professional practices for industrial and infrastructure assets. The survey was limited to suspect ACM and LBP and did not include evaluation of other suspect hazardous materials unless otherwise noted.

Asbestos-Containing Materials (ACM)
The regulatory framework for asbestos is primarily established under the U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) regulations. For demolition activities, ACM are regulated under EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) and OSHA asbestos standards.

Asbestos-containing material is defined as any material containing greater than one percent (>1%) asbestos by weight. Identification of ACM requires physical bulk sampling and laboratory analysis. Consistent with EPA guidance, bulk samples collected as part of this survey were analyzed using Polarized Light Microscopy (PLM) by a National Voluntary Laboratory Accreditation Program (NVLAP-accredited laboratory).

The presence of ACM identified during this survey is intended to inform demolition planning. This survey does not constitute an abatement design, NESHAP notification, or clearance determination. Removal or management of ACM during demolition must be performed by appropriately licensed contractors in accordance with applicable regulations.

Lead-Based Paint (LBP)
Lead-based paint is regulated differently than asbestos and is governed primarily by OSHA lead standards when painted surfaces are disturbed, as well as EPA and Department of Housing and Urban Development (HUD) definitions used to identify lead-containing coatings. Lead-based paint is generally defined as paint or coating containing lead concentrations greater than 0.5 percent by weight.

For large industrial steel structures, such as cranes, lead-based paint identification is commonly performed using non-destructive X-ray fluorescence (XRF) testing. XRF allows for rapid, in-situ evaluation of painted surfaces without extensive surface disturbance. Paint chip sampling is not required for identification of lead-based paint, but may be performed on a selective basis to confirm XRF results, evaluate multiple coating layers, or provide laboratory validation where needed.

The presence of lead-based paint does not require removal prior to demolition; however, disturbance of lead-containing coatings during demolition or deconstruction activities triggers OSHA lead exposure requirements. Identification of lead-based paint as part of this survey is intended to support worker protection planning, waste characterization, and contractor awareness.

Survey Purpose and Limitations
This survey was conducted specifically as a pre-demolition hazardous materials survey. Its purpose is to identify ACM and LBP that may be disturbed by planned demolition or deconstruction activities and to provide information necessary for regulatory compliance and project planning.

The survey does not evaluate occupant exposure, environmental risk, or health risk, nor does it provide abatement specifications, demolition means and methods, or exposure monitoring requirements. Findings should be used in conjunction with contractor-specific work plans and regulatory compliance programs.

3.0 SAMPLING METHODOLOGY

Asbestos-Containing Materials (ACM)

A pre-demolition hazardous materials survey was conducted to identify asbestos-containing materials (ACM) within accessible portions of the crane structures planned for demolition or deconstruction. The survey focused on materials that may be disturbed during planned demolition activities, including mechanical systems, friction components, insulation, gaskets, and selected construction materials.

Suspect ACM were identified through visual inspection and grouped into homogeneous areas based on material type, appearance, texture, and application. Representative bulk samples were collected from each homogeneous suspect material using hand tools such as chisels and hammers, as necessary, while minimizing damage to surrounding materials. Each sample was placed into an individual, sealed container and assigned a unique sample identification number. Sample identification, material description, and location information were recorded on field survey logs.

Bulk samples were submitted under chain of custody to an NVLAP-accredited laboratory for analysis using Polarized Light Microscopy (PLM) with dispersion staining techniques, in accordance with the U.S. Environmental Protection Agency (EPA) “Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116).”

In accordance with regulatory guidance, a suspect material was classified as ACM if analytical results indicated asbestos content greater than one percent (>1%) by weight. If one or more samples from a homogeneous material were found to contain asbestos greater than 1%, the entire homogeneous material was considered asbestos-containing.

Lead-Based Paint (LBP)

A pre-demolition evaluation for suspect lead-based paint (LBP) was conducted on accessible painted surfaces of the crane structures to identify coatings that may be disturbed during demolition. Lead-based paint testing was performed primarily using a calibrated X-ray fluorescence (XRF) analyzer, allowing for non-destructive, in-situ measurement of lead content within paint films across a wide range of crane components.

XRF testing was conducted by trained personnel in accordance with the manufacturer’s operating procedures and applicable EPA and HUD guidance. Daily calibration and performance verification checks were completed to ensure the accuracy and reliability of results. Multiple readings were obtained on representative painted substrates, including structural steel members, machinery housings, platforms, and other accessible painted components, to account for variations in coating thickness, substrate composition, and application history.

Confirmatory paint chip samples were selectively collected from representative locations where multiple coating layers were present, where XRF readings were variable or near applicable decision thresholds, or where laboratory verification was necessary for documentation purposes. Paint chip samples were collected using hand tools, placed in individual containers, and assigned unique sample identification numbers. Sample locations and descriptions were documented on field survey logs.

Paint chip samples were submitted under chain of custody to an accredited laboratory for analysis of total lead content (percent by weight). Lead-based paint is defined as paint or coating containing lead concentrations greater than 0.5 percent by weight.

Paint chip sampling was conducted for confirmation purposes only and was not intended to represent exhaustive removal of all paint layers present on the crane structures.

4.0 LABORATORY RESULTS & FINDINGS

Asbestos-Containing Materials (ACM)

Bulk samples of suspect asbestos-containing materials were analyzed by PLM to determine asbestos content. Materials evaluated included, but were not limited to, brake components, gaskets, insulation materials, and selected construction materials associated with the crane structures.

Asbestos analytical results are summarized in **Table 1 – Asbestos-Containing Materials (ACM) Results**. Asbestos greater than one percent (>1%) by weight was not detected in selected samples. Materials that did not exceed one percent asbestos by weight are classified as non-ACM for the purposes of this survey.

The complete laboratory analytical reports and chain-of-custody documentation are provided in the appendices to this report.

Table 1: Asbestos-Containing Materials (ACM) Results

Sample ID	Suspect Material	Location	Results (%)
S Crane 01	Red Wire Material	Wheel on Platform	ND
S Crane 02	Silicon Glazing	Control Cabin, Right Corner	ND
S Crane 03	Window Gasket	Control Cabin	ND
S Crane 04	Foam Glue	Control Cabon, AC Unit	ND
S Crane 05	Silicon	Control Cabion	ND
S Crane 06	Black Seal	Control Cabin, Door	ND
S Crane 07	Insulation	ZPMC on Platform	ND
S Crane 08	White Caulking	Boom Control Cabin	ND
S Crane 09	Black Rubber Seal	Boom Control Cabin	ND
S Crane 10	Black Window Gasket	Boom Control Cabin	ND
S Crane 11	Window Glazing	Outer Boom Control Cabin	ND
S Crane 12	White Caulking	Mechanical Room Elevator Shaft	ND
S Crane 13	Black Seal	Mechanical Room , Door	ND

Sample ID	Suspect Material	Location	Results (%)
S Crane 14	Pipe Insulation	Mechanical Room, HVAC Drain Pipe	ND
S Crane 15	Black Insulation	Mechanical Room, HVAC	ND
S Crane 16	Black Door Seal	Mechanical Room, Server Room Door	ND
S Crane 17	Black/White Glue	Mechanical Room, HVAC	ND
S Crane 18	Black Pipe Insualtion	AC Unit outside of Mechanical Room	ND
Z Crane 01	White Silicone	Elevator Ceiling	ND
Z Crane 02	Black Seal	Elevator Door	ND
Z Crane 03	White Silicone	Control Cabin, Window	ND
Z Crane 04	Black Glaze	Control Cabin, Inner Window	ND
Z Crane 05	Black Gasket	Control Cabin, Window	ND
Z Crane 06	White Insulation	Control Cabin	ND
Z Crane 07	Insulation	Control Cabin, Behind Walls	ND
Z Crane 08	Black Flex Insulation Cover	Platform	ND
Z Crane 09	Gray Electric Insulation	Platform	ND
Z Crane 10	White Silicone	Boom Control Cabin, Corner Wall	ND
Z Crane 11	Black Gasket	Booom Control Cabin, Window	ND
Z Crane 12	White Gasket	Boom Control Cabin, Window	ND
Z Crane 13	Insulation	Boom Control Cabin, Wall	ND
Z Crane 14	Red Carpet	Boom Control Cabin, Floor	ND
Z Crane 15	Brown Foam Glue	Mechanical Room	ND
Z Crane 16	Red Floor Mat	Mechanical Room, Panel Room	ND
Z Crane 17	Black Rubber Seal	Mechanical Room, Inner Door	ND
Z Crane 18	Brown Silicone	Mechanical Room, Inner Door	ND
Z Crane 19	Black Seal	Mechanical Room, Panel	ND
Z Crane 20	Black Insulation	Mechanical Room, AC Pipe	ND
Z Crane 21	Red Seal	Mechanical Room, Teal Color Machine	ND
Z Crane 22	Clear Seal	Mechanical Room, Yellow Machine	ND
Z Crane 23	Black Insulation	Mechanical Room, AC Unit Outer Pipe	ND

Sample ID	Suspect Material	Location	Results (%)
Z Crane 24	Black Rubber	Conveyor Belt	ND
M Crane 01	White Caulking	Elevator	ND
M Crane 02	Clear Silicone	Elevator, Inner Door	ND
M Crane 03	Black Rubber Seal	Elevator Door	ND
M Crane 04	Flex Rubber Insulation	Main Structure, Floor Level	ND
M Crane 05	Black Rubber Seal	Hatch Door Near Conveyor Belt	ND
M Crane 06	Black Rubber	Conveyor Belt	ND
M Crane 07	Red Silicone	Small Mechanical Room, Machine	ND
M Crane 08	Gray Caulking	Small Mechanical Room, Duct	ND
M Crane 09	Black Gasket	Small Mechanical Room, Machine	ND
M Crane 10	Black Seal	Control Cabin, Door	ND
M Crane 11	Gasket	Control Room, Gasket	ND
M Crane 12	White Caulking	Control Room, Inner Corner Wall	ND
M Crane 13	Insulation	Control Room, Behind Wall	ND
M Crane 14	Silicone	Control Room, Outer Window	ND
M Crane 15	Insulation	Large Mechanical Room, AC Duct in Panel Room	ND
M Crane 16	Gray Glue	Large Mechanical Room, Bottom of AC Vent	ND
M Crane 17	Yellow Spray Foam	Large Mechanical Room	ND
M Crane 18	Blue/Silver Insulation	Large Mechanical Room, Panel Room	ND
M Crane 19	Gray Seal	Large Mechanical Room, Panel Room, Panel Door	ND
M Crane 20	Red Gasket	Large Mechanical Room, Machine	ND
M Crane 21	Black Insulation	Large Mechanical Room, Outer AC Unit	ND
M Crane 22	White Caulking	Large Mechanical Room, Outer Walls	ND

N/A – Not Applicable ND – None Detected

Lead-Based Paint (LBP)

Lead-based paint screening was performed using XRF technology, supplemented by confirmatory laboratory analysis of selected paint chip samples. XRF testing was conducted at multiple representative

locations on painted crane components to characterize the presence and distribution of lead-containing coatings.

Detected XRF measurements indicating the presence of lead were obtained from the yellow painted surfaces on each crane. A confirmatory paint sample (S Crane L1) was collected from the yellow coating at the base of Crane S. Additionally, the area of the outer white paint system (comprised of multiple layers of varying colors) of the Z Crane mechanical room was screened, sampled, and submitted for laboratory analysis (Z Crane L1).

Confirmatory laboratory results from paint chip samples are summarized in **Table 2 – Lead-Based Paint (LBP) Results**. Laboratory analysis detected lead concentrations greater than 0.5 percent by weight in one or more samples, confirming the presence of lead-based paint on selected crane components.

XRF screening results, in conjunction with confirmatory laboratory data, indicate that lead-based paint is present on portions of the crane structures and may be disturbed during planned demolition or deconstruction activities.

The complete laboratory analytical reports and chain-of-custody documentation are included in the appendices to this report.

Table 2: Lead-Based Paint (LBP) Results

Sample ID	Suspect Material	Location	Results (%)
S Crane L1	Lead-Based Paint	Yellow paint located at the base of S Crane.	3.3
Z Crane L1	Lead-Based Paint	White and yellow paint located on the outer Z Crane Mechanical Room.	4.2

NA – Not Applicable BRL – Not Detected at the Reporting Limit

Confirmatory laboratory analysis identified lead concentrations greater than 0.5 percent by weight in two paint film samples collected from the McDuffie Terminal crane structures (S-Crane, M-Crane, and Z-Crane). These results confirm the presence of lead-based paint on select crane components.

Disturbance of lead-containing coatings during demolition or deconstruction activities is regulated under the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard (29 CFR 1926.62), which establishes requirements for worker protection, exposure assessment, and implementation of lead-safe work practices. In addition, demolition debris associated with lead-based paint may be subject to waste characterization requirements, including Toxicity Characteristic Leaching Procedure (TCLP) testing, to determine appropriate disposal in accordance with applicable regulatory requirements.

5.0 RECOMMENDATIONS

Based on the findings of the Pre-Demolition Hazardous Materials Survey, lead-based paint (LBP) was identified on portions of the crane structures evaluated at the McDuffie Terminal. Asbestos-containing materials (ACM) were not identified within the accessible areas evaluated. The following recommendations are provided to support regulatory compliance, demolition planning, and contractor coordination.

Asbestos-Containing Materials (ACM)

Asbestos-containing materials were not identified in association with the three crane structures evaluated (S-Crane, M-Crane, and Z-Crane). Based on the findings of this survey, no asbestos abatement activities are anticipated in advance of demolition or deconstruction.

It is recognized that demolition activities may expose concealed or previously inaccessible materials. Should suspect materials be encountered during demolition that were not evaluated as part of this survey, work in the affected area should be paused and evaluated by qualified personnel prior to disturbance.

Lead-Based Paint (LBP)
Lead-based paint was confirmed on selected components of the S-Crane, M-Crane, and Z-Crane through X-ray fluorescence (XRF) testing and confirmatory laboratory analysis. While lead-based paint does not require removal prior to demolition, disturbance of lead-containing coatings during demolition or deconstruction activities will trigger applicable requirements under the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard (29 CFR 1926.62).

CERM recommends that demolition contractors be informed of the presence of lead-based paint so that appropriate lead-safe work practices, engineering controls, and personal protective equipment can be incorporated into demolition work plans. Exposure monitoring, worker training, and protective measures should be implemented as required under applicable OSHA lead standards.

Waste Characterization and Disposal
Demolition debris associated with materials containing lead-based paint should be evaluated for proper waste classification prior to disposal. Representative waste stream samples may require Toxicity Characteristic Leaching Procedure (TCLP) analysis to determine whether materials must be managed as hazardous waste or may be disposed of at an approved non-hazardous disposal facility, in accordance with applicable regulatory requirements.

Any waste materials generated during demolition should be transported and disposed of at facilities permitted to accept the applicable waste classification.

Additional Hazardous Materials (If Encountered During Demolition)
This survey was limited to asbestos-containing materials (ACM) and lead-based paint (LBP). Due to access limitations, demolition activities may encounter additional regulated materials not identified as part of this pre-demolition survey. If suspect materials such as PCB-containing components, mercury-containing equipment, or other industrial hazardous materials are encountered, work in the affected area should be temporarily halted and evaluated by qualified personnel prior to disturbance.

Use of Survey Findings
The recommendations provided herein are intended to assist the Alabama Port Authority and its contractors with demolition planning, regulatory compliance, and contractor coordination. These recommendations do not constitute abatement design specifications, demolition means-and-methods instructions, or exposure or risk assessments. Final responsibility for compliance with applicable regulations and implementation of worker protection measures rests with the demolition contractor and the party performing the work.

6.0 LIMITATIONS

This report presents the findings of a pre-demolition hazardous materials survey conducted to identify asbestos-containing materials (ACM) and lead-based paint (LBP) within accessible portions of the crane structures evaluated at the time of inspection. The survey was performed in general accordance with the agreed Scope of Services and is based on site conditions and information available at the time of the field investigation.

The survey was limited to visual observations and sampling of accessible materials only. Hidden, concealed, or inaccessible materials may be present and were not evaluated as part of this survey unless

exposed during normal accessible inspection activities. Full demolition or deconstruction may reveal additional materials that were not observed during the survey.

The testing of ACM was based on bulk material sampling and laboratory analysis of representative homogeneous materials. The testing of LBP was based primarily on X-ray fluorescence (XRF) screening, supplemented by confirmatory laboratory analysis of selected paint chip samples. The absence of detected ACM or LBP in sampled or tested materials does not guarantee that such materials are not present in untested or inaccessible areas.

This report does not constitute an exposure assessment, risk assessment, abatement design, demolition specification, or clearance determination. Recommendations provided herein are intended to assist with demolition planning, regulatory compliance, and contractor coordination and should not be interpreted as detailed means-and-methods instructions.

The findings and conclusions in this report are intended solely for use by the Alabama Port Authority in connection with planned demolition or deconstruction activities at the subject site. Conditions may change over time due to maintenance activities, deterioration, renovations, or demolition operations, and this report should not be relied upon to represent future site conditions.

No warranty or guarantee, express or implied, is made regarding the completeness of identified hazardous materials beyond the scope and limitations described herein.

CERM appreciates the opportunity to provide this service to the Alabama Port Authority. Should you have any questions or concerns regarding this project, please contact our offices at (678) 999-0173.

Best regards,

Corporate Environmental Risk Management, LLC

Tricia DeFreitas
Environmental Specialist

Darryl Edler, Jr.
Environmental Project Manager II

PHOTOGRAPHIC LOG

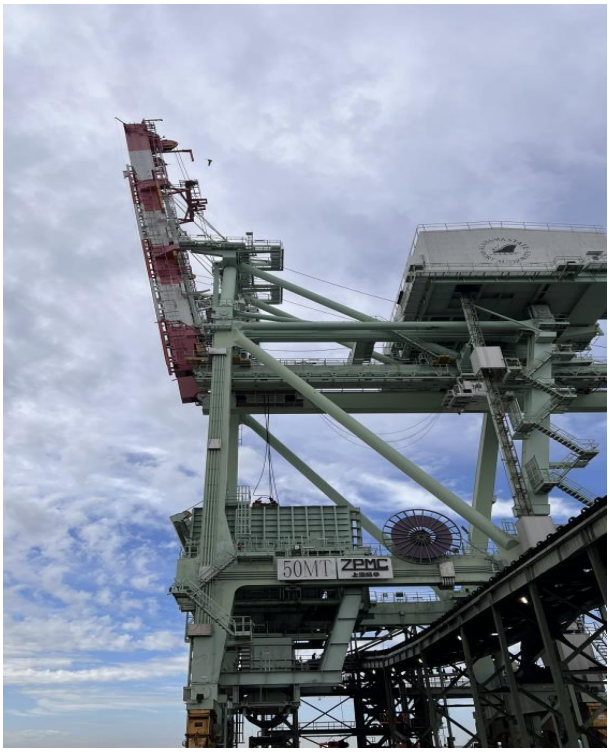


Photo 1
Comments: View of S Crane

Photo 2
Comments: View of the S Crane Cabin Control Room

Photo 3
Comments: Suspect Asbestos Sample Collection - S Crane Control Cabin

Photo 4
Comments: View of the S Crane Mechanical Room

Photo 5
Comments: View of the S Crane Mechanical Room (inner)

Photo 6
Comments: Suspect Asbestos Sample Collection - S Crane Mechanical Room

Photo 7
Comments: Boom Control Cabin - S Crane

Photo 8
Comments: Suspect Asbestos Sample collection - S Crane Boom Control Cabin

Photo 9
Comments: Suspect Asbestos Sample Collection - S Crane

Photo 10
Comments: Lead Paint Inspection with XRF - S Crane

Photo 11
Comments: Paint Chip Sample Collection - S Crane

Photo 12
Comments: View of the Z Crane

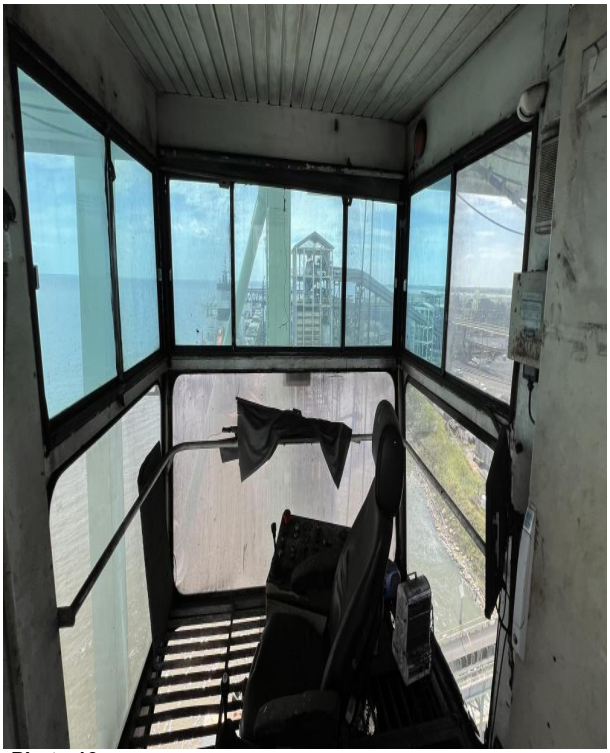


Photo 13
Comments: View of the Z Crane Control Cabin

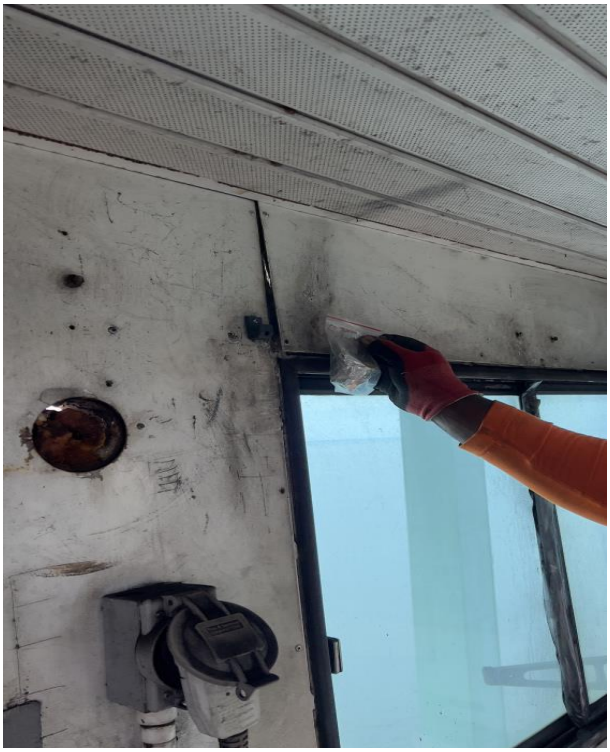


Photo 14
Comments: Suspect Asbestos Sample Collection - Z Crane Control Cabin

Photo 15
Comments: Suspect Asbestos Sampling - Z Crane Control Cabin

Photo 16
Comments: View of the Z Crane Boom Control Cabin

Photo 17
Comments: View of the Z Crane Elevator

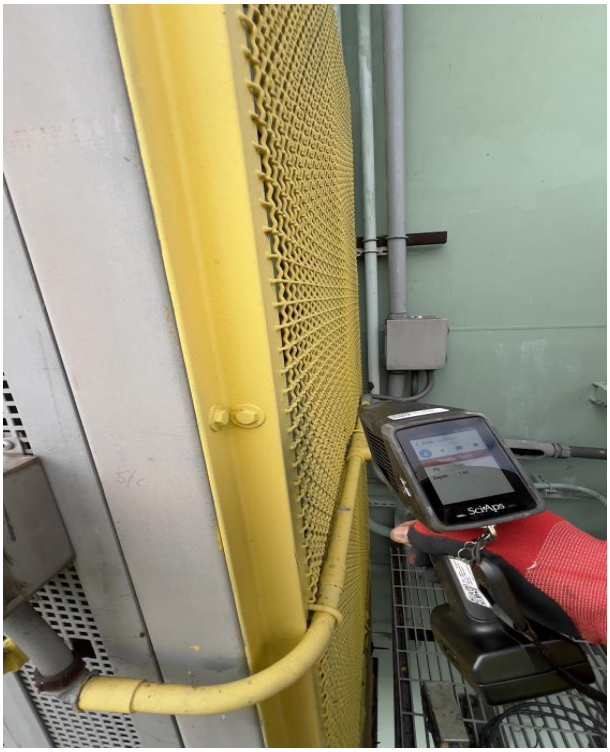


Photo 18
Comments: Lead Paint Inspection Using XRF - Z Crane

Photo 19
Comments: View of the Z Crane Mechanical Room

Photo 20
Comments: View of the Z Crane Mechanical Room (inner)

Photo 21
Comments: Lead Paint Inspection - Z Crane Mechanical Room (outer)

Photo 22
Comments: Lead paint Inspection using XRF - Z Crane Mechanical Room

Photo 23
Comments: Suspect Asbestos Sampling - Z Crane Mechanical Room

Photo 24
Comments: View of M Crane

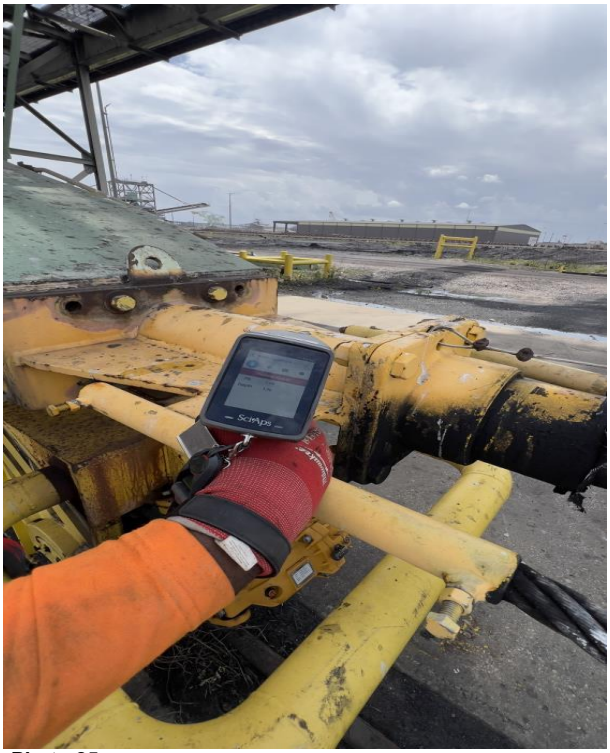


Photo 25
Comments: Lead Paint Inspection Using XRF - M Crane

Photo 26
Comments: Suspect Asbestos Sample Collection - M Crane Conveyor Belt

Photo 27
Comments: View of M Crane Elevator

Photo 28
Comments: Suspect Asbestos Sample Collection - M Crane Elevator

Photo 29
Comments: View of Smaller Mechanical Room - M Crane

Photo 30
Comments: Suspect Asbestos Sample Collection - M Crane Smaller Mechanical Room

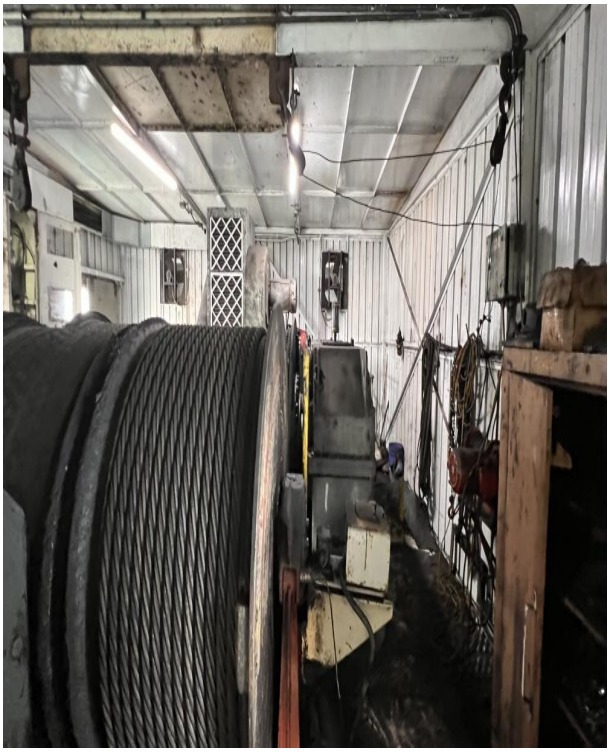


Photo 31
Comments: View of Smaller Mechanical Room (inner)

Photo 32
Comments: View of M Crane Control Cabin

Photo 33
Comments: Suspect Asbestos Sample Collection - M Crane Control Cabin

Photo 34
Comments: View of Larger Mechanical Room (inner)

Photo 35
Comments: View of Panel Room in Larger Mechanical Room - M Crane

Photo 36
Comments: View of AC Duct System in Larger Mechanical Room - M Crane

Photo 37
Comments: Suspect Asbestos Sample Collection - AC Duct, Larger Mechanical Room, M Crane

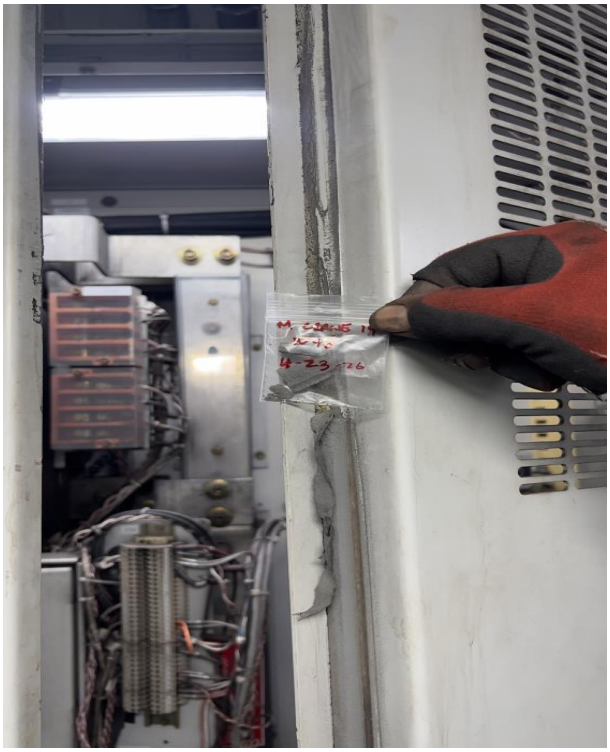


Photo 38
Comments: Suspect Asbestos Sample Collection - Panel Room in Larger Mechancial Room, M Crane

Photo 39
Comments: View of Boom - M Crane

LABORATORY ANALYTICAL RESULTS

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April 28, 2026

Tricia Defreitas
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

CLIENT PROJECT: 2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes
LAB CODE: 745161-1

Dear Tricia,

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on 04/24/26. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA 40 CFR Appendix E to Subpart E of Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% by calibrated visual estimate.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Kamila Reichert

Kamila Reichert,
Laboratory Director

NVLAP 102082-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Corporate Environmental Risk Management, LLC.

CLIENT PROJECT:	2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes
LAB CODE:	745161-1
TEST METHOD:	EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763
REPORT DATE:	04/28/26
TOTAL SAMPLES ANALYZED:	18
# SAMPLES >1% ASBESTOS:	0
TOTAL LAYERS ANALYZED:	25

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Asbestos Report Summary
By: Polarized Light Microscopy

Project:
2026 1581A 001A, AL Port Auth- McDuffie Terminal
Cranes

Lab Code: 745161-1

Client ID	Lab ID	Layer	Sample Description	Asbestos %
S Crane 01	4374125		Red caulk	None Detected
S Crane 02	4374126		White caulk w/ paint	None Detected
S Crane 03	4374127		Black caulk	None Detected
S Crane 04	4374128	Layer A	Yellow adhesive	None Detected
		Layer B	Yellow foam	None Detected
S Crane 05	4374129		Dark-brown caulk	None Detected
S Crane 06	4374130		Black sealant	None Detected
S Crane 07	4374131		Dark-brown woven wrap	None Detected
S Crane 08	4374132		White caulk w/ paint	None Detected
S Crane 09	4374133		Black sealant	None Detected
S Crane 10	4374134		Black caulk	None Detected
S Crane 11	4374135		Gray caulk w/ paint	None Detected
S Crane 12	4374136		Clear/gray caulk	None Detected
S Crane 13	4374137		Black sealant	None Detected
S Crane 14	4374138	Layer A	White coating	None Detected
		Layer B	Gray foam	None Detected
S Crane 15	4374139	Layer A	Yellow adhesive	None Detected
		Layer B	Black foam	None Detected
S Crane 16	4374140	Layer A	Black/gray coating	None Detected
		Layer B	Dark-green foam	None Detected
S Crane 17	4374141	Layer A	White coating	None Detected
		Layer B	Black foam	None Detected
		Layer C	Yellow adhesive	None Detected
		Layer D	Yellow foam	None Detected
S Crane 18	4374142		Black foam	None Detected

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745161-1
Date Received: 04/24/26
Date Analyzed: 04/27/26 - 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		NON-ASBESTOS COMPONENTS Non-Fibrous		ASBESTOS %
S Crane 01 4374125	Caulk	Homogeneous Red Non-Fibrous Tightly Bound	5%	Glass	95%	Caulk	**None Detected**
S Crane 02 4374126	Caulk W/ Paint	Homogeneous White Non-Fibrous Tightly Bound			5% 95%	Paint Caulk	**None Detected**
S Crane 03 4374127	Caulk	Homogeneous Black Non-Fibrous Loosely Bound			100%	Caulk	**None Detected**
S Crane 04 Layer A 4374128	Adhesive	Homogeneous Yellow Non-Fibrous Bound			100%	Mastic	**None Detected**
Layer B 4374128	Foam	Homogeneous Yellow Non-Fibrous Loosely Bound			100%	Foam	**None Detected**
S Crane 05 4374129	Caulk	Homogeneous Dark-brown Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
S Crane 06 4374130	Sealant	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745161-1
Date Received: 04/24/26
Date Analyzed: 04/27/26 - 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S Crane 07 4374131	Woven Wrap	Homogeneous Dark-brown Fibrous Tightly Bound	50%	Glass	50%	Vinyl	**None Detected**
S Crane 08 4374132	Caulk W/ Paint	Homogeneous White Non-Fibrous Tightly Bound			5% 95%	Paint Caulk	**None Detected**
S Crane 09 4374133	Sealant	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**
S Crane 10 4374134	Caulk	Homogeneous Black Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
S Crane 11 4374135	Caulk W/ Paint	Homogeneous Gray Non-Fibrous Tightly Bound			5% 95%	Paint Caulk	**None Detected**
S Crane 12 4374136	Caulk	Homogeneous Clear/gray Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
S Crane 13 4374137	Sealant	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745161-1
Date Received: 04/24/26
Date Analyzed: 04/27/26 - 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S Crane 14 Layer A 4374138	Coating	Homogeneous White Non-Fibrous Tightly Bound			100%	Vinyl	**None Detected**
Layer B 4374138	Foam	Homogeneous Gray Non-Fibrous Loosely Bound			100%	Foam	**None Detected**
S Crane 15 Layer A 4374139	Adhesive	Homogeneous Yellow Non-Fibrous Bound			100%	Mastic	**None Detected**
Layer B 4374139	Foam	Homogeneous Black Non-Fibrous Loosely Bound			100%	Foam	**None Detected**
S Crane 16 Layer A 4374140	Coating	Homogeneous Black/gray Fibrous Tightly Bound	80%	Glass	20%	Vinyl	**None Detected**
Layer B 4374140	Foam	Homogeneous Dark-green Non-Fibrous Loosely Bound			100%	Foam	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745161-1
Date Received: 04/24/26
Date Analyzed: 04/27/26 - 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth- McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
S Crane 17 Layer A 4374141	Coating	Homogeneous White Non-Fibrous Tightly Bound		100%	Vinyl	**None Detected**
Layer B 4374141	Foam	Homogeneous Black Non-Fibrous Loosely Bound		100%	Foam	**None Detected**
Layer C 4374141	Adhesive	Homogeneous Yellow Non-Fibrous Bound		100%	Mastic	**None Detected**
Layer D 4374141	Foam	Homogeneous Yellow Non-Fibrous Loosely Bound		100%	Foam	**None Detected**
S Crane 18 4374142	Foam	Homogeneous Black Non-Fibrous Loosely Bound		100%	Foam	**None Detected**

LEGEND:

Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763

REPORTING LIMIT: 1% by calibrated visual estimation

REGULATORY LIMIT: 1%

Due to the limitations of the EPA 600 / R93 / 116 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

Eurofins Built Environment Testing East, LLC makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins Built Environment Testing East, LLC. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

Penka Topuzova
Analyst

DATA QA: Abbey Arnold
4/28/2026

APPROVED BY: Kamila Reichert,
Laboratory Director

eurofins | Built Environment Testing

RES Job #: 745161

SUBMITTED BY		INVOICE TO		CONTACT INFORMATION		SERIES
Company:	Corporate Environmental Risk Management, LLC.	Company:	Corporate Environmental Risk Management, LLC.	Contact:	Tricia Defreitas	-1 PLM Priority 48
Address:	2800 Century Parkway, Suite 750	Address:	2800 Century Parkway, Suite 750	Phone:	(678) 999-0173	
	Atlanta, GA 30345		Atlanta, GA 30345	Fax:		
				Cell:	(470) 417-4753	
Project Number and/or P.O. #:	2026 1581A 001A	Project Zip Code:		Final Data Deliverable Email Address:		
Project Description/Location:	AL Port Auth- McDuffie Terminal Cranes			tdefreitas@cerm.com (+ 4 ADDNL. CONTACTS)		

ASBESTOS LABORATORY

PLM / PCM / TEM / NYS DTL RUSH PRIORITY STANDARD

CHEMISTRY LABORATORY

Dust RUSH PRIORITY STANDARD

Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT

Organics* SAME DAY RUSH PRIORITY STANDARD

MICROBIOLOGY LABORATORY

Viable Analysis** PRIORITY STANDARD

**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH

Medical Device Analysis RUSH STANDARD

Mold Analysis RUSH PRIORITY STANDARD

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

Special Instructions:

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Food = F
Paint = P	Soil = S
Surface = SU	Swab = SW
Tape = T	Wipe = W
Drinking Water = DW	
Waste Water = WW	
ASTM E1792 approved wipe media only	

LAB NOTES

Laboratory Analysis Instructions

Client Sample ID Number (Sample ID's must be unique)	REQUESTED ANALYSIS: ASBESTOS				CHEMISTRY			MICROBIOLOGY			ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm
	PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD								
1 S Crane 01	X														B			
2 S Crane 02	X														B			
3 S Crane 03	X														B			
4 S Crane 04	X														B			
5 S Crane 05	X														B			
6 S Crane 06	X														B			
7 S Crane 07	X														B			
8 S Crane 08	X														B			
9 S Crane 09	X														B			
10 S Crane 10	X														B			
11 S Crane 11	X														B			
12 S Crane 12	X														B			
13 S Crane 13	X														B			

Eurofins Built Environment Testing East, LLC establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

Eurofins Built Environment Testing East, LLC will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET30. Failure to comply with payment terms may result in a 18% APR finance charge.

Relinquished By:		Date/Time: 04/24/2026 15:11:00	Sample Condition: Acceptable
Received By:	Atria Warren	Date/Time: 04/24/2026 15:11:00	Carrier: Hand

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RES Job #: **745161**

Submitted By: **Corporate Environmental Risk Management, LLC.**

	REQUESTED ANALYSIS											VALID MATRIX CODES							LAB NOTES
												Air = A			Bulk = B				
												Dust = D			Food = F				
												Paint = P			Soil = S				
												Surface = SU			Swab = SW				
												Tape = T			Wipe = W				
												Drinking Water = DW							
												Waste Water = WW							
												ASTM E1792 approved wipe media only							
	PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD	ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
Client Sample ID Number (Sample ID's must be unique)	**ASBESTOS**				**CHEMISTRY**			**MICROBIOLOGY**			**ICO**								
14 **S Crane 14**	X														B				
15 **S Crane 15**	X														B				
16 **S Crane 16**	X														B				
17 **S Crane 17**	X														B				
18 **S Crane 18**	X														B				

Corporate Environmental Risk Management, LLC.
Sample Locations

RES #: 745161
Project Number and/or P.O. #: 2026 1581A 001A
Project Description/Location: AL Port Auth- McDuffie Terminal Cranes

Client Sample ID	Sample Location
S Crane 01	Wheel Red Wire Covering
S Crane 02	Control Cabin Right corner Silicone Glazing
S Crane 03	Control Cabin Window Gasket
S Crane 04	Control Cabin Foam Glue @ AC Unit
S Crane 05	Control Cabin Silicone
S Crane 06	Control Cabin Door Seal Black
S Crane 07	ZPMC on Platform Insulation
S Crane 08	Boom Control Cabin White Caulking
S Crane 09	Boom Control Cabin Black Rubber Seal
S Crane 10	Boom Control Cabin Black Window Gasket
S Crane 11	Boom Control Cabin Outer Window Glaze
S Crane 12	Mechanical Room Elevator Shaft White Caulking
S Crane 13	Mechanical Room Door Seal Black
S Crane 14	Mechanical Room HVAC Drain Pipe Insulation
S Crane 15	Mechanical Room Insulation Black from HVAC
S Crane 16	Mechanical Room Server Room Black Door Seal
S Crane 17	Mechanical Room HVAC Black & White Glue
S Crane 18	AC Unit outside Mechanical Room, Black Pipe Insulation

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Eurofins Environment Testing Southeast-Atlanta, LLC
3080 Presidential Drive, Atlanta, GA 30340
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889
www.EurofinsUS.com

Work Order: 745161

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name:	CERM	Project Name:	AL Port Auth - McDuffie Terminal Covers
Address:	2800 Century Pky Ste 750	Project Number:	2026-1581 A-001A
City, State, Zip:	Atlanta, GA 30345	Sampling Date:	4-21-26
Contact:	Trista DeFreitas	Phone #:	470 417 4753
Sampler's Name:	Trista DeFreitas	Invoice To Name(s):	Sharon Douglas
Report To:	Trista DeFreitas	Invoice To Email(s):	Sdouglas@cerm.com
Report to Email:	tdefreitas@cerm.com	PO #:	

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	S CRANE 01	Wheel, Red Wire Carring	PLM	2 DAY	
2	S CRANE 02	Control Cabin, Right Corner, Silicon Glazing			
3	S CRANE 03	" " , Window Gasket			
4	S CRANE 04	" " , Foam Glue @ AC Unit			
5	S CRANE 05	" " , Silicone			
6	S CRANE 06	" " , Door Seal, Black			
7	S CRANE 07	ZPMC on Platform, Insulation			
8	S CRANE 08	Boom Control Cabin, White Caulking			
9	S CRANE 09	" " " , Black Rubber Seal			
10	S CRANE 10	" " " , Black Window Gasket			
11	S CRANE 11	" " " , Outer Window Glaze			
12	S CRANE 12	Mechanical Room, Elevator Shaft White Caulking			
13	S CRANE 13	" " , Door Seal, Black			
14	S CRANE 14	" " , HVAC Drain Pipe Insulation			
15	S CRANE 15	" " , Insulation, Black from HVAC			
16	S CRANE 16	" " , Server Room, Black Door Seal			
17	S CRANE 17	" " , HVAC, Black & White Glue			
18	S CRANE 18	AC Unit outside Mechanical Room, Black	↓	↓	
19		Pipe Insulation			
20					

Relinquished by:	CERM	Date/Time:	4-24-26 / 1453
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Submission of samples to the laboratory constitutes acceptance of EETSE's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, EETSE-Atlanta will proceed with standard TAT.

Asbestos COC2.28.24

FOR LAB USE ONLY

Lab Recipient: MW Date/Time: 4/24/26 2:54pm Method of Shipment:

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April 28, 2026

Tricia Defreitas
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

CLIENT PROJECT: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes
LAB CODE: 745233-1

Dear Tricia,

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on 04/24/26. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA 40 CFR Appendix E to Subpart E of Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% by calibrated visual estimate.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Kamila Reichert

Kamila Reichert,
Laboratory Director

NVLAP 102082-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Corporate Environmental Risk Management, LLC.

CLIENT PROJECT:	2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes
LAB CODE:	745233-1
TEST METHOD:	EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763
REPORT DATE:	04/28/26
TOTAL SAMPLES ANALYZED:	24
# SAMPLES >1% ASBESTOS:	0
TOTAL LAYERS ANALYZED:	28

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Asbestos Report Summary
By: Polarized Light Microscopy

Project:
2026 1581A 001A, AL Port Auth McDuffie Terminal
Cranes

Lab Code: 745233-1

Client ID	Lab ID	Layer	Sample Description	Asbestos %
Z Crane 01	4376209	Layer A	Silver caulk w/ paint	None Detected
		Layer B	Black foam	None Detected
Z Crane 02	4376210		Black resinous material	None Detected
Z Crane 03	4376211		Gray caulk	None Detected
Z Crane 04	4376212		Black caulk	None Detected
Z Crane 05	4376213		Black resinous material	None Detected
Z Crane 06	4376214		Yellow foam	None Detected
Z Crane 07	4376215	Layer A	Brown tape	None Detected
		Layer B	Yellow insulation	None Detected
Z Crane 08	4376216		Black resinous material	None Detected
Z Crane 09	4376217		Gray material	None Detected
Z Crane 10	4376218		Clear caulk	None Detected
Z Crane 11	4376219		Black resinous material	None Detected
Z Crane 12	4376220		Tan/black caulk	None Detected
Z Crane 13	4376221	Layer A	Brown tape	None Detected
		Layer B	Yellow insulation	None Detected
Z Crane 14	4376222		Pink flooring w/ dark-brown adhesive	None Detected
Z Crane 15	4376223		Yellow foam	None Detected
Z Crane 16	4376224		Pink flooring	None Detected
Z Crane 17	4376225		Black resinous material	None Detected
Z Crane 18	4376226	Layer A	Black resinous material	None Detected
		Layer B	Brown caulk	None Detected
Z Crane 19	4376227		Black foam	None Detected
Z Crane 20	4376228		Black foam	None Detected
Z Crane 21	4376229		Red caulk	None Detected
Z Crane 22	4376230		Dark-gray caulk w/ paint	None Detected

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Asbestos Report Summary
By: Polarized Light Microscopy

Project:
2026 1581A 001A, AL Port Auth McDuffie Terminal
Cranes

Lab Code: 745233-1

Client ID	Lab ID	Layer	Sample Description	Asbestos %
Z Crane 23	4376231		Black foam	None Detected
Z Crane 24	4376232		Black resinous material	None Detected

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745233-1
Date Received: 04/24/26
Date Analyzed: 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Z Crane 01	Caulk W/ Paint	Homogeneous			10%	Paint	**None Detected**
Layer A		Silver			90%	Caulk	
4376209		Non-Fibrous					
		Tightly Bound					
Layer B	Foam	Homogeneous			100%	Foam	**None Detected**
4376209		Black					
		Non-Fibrous					
		Bound					
Z Crane 02	Resinous Material	Homogeneous			100%	Vinyl	**None Detected**
4376210		Black					
		Non-Fibrous					
		Tightly Bound					
Z Crane 03	Caulk	Homogeneous			100%	Caulk	**None Detected**
4376211		Gray					
		Non-Fibrous					
		Tightly Bound					
Z Crane 04	Caulk	Homogeneous			100%	Caulk	**None Detected**
4376212		Black					
		Non-Fibrous					
		Tightly Bound					
Z Crane 05	Resinous Material	Homogeneous			100%	Vinyl	**None Detected**
4376213		Black					
		Non-Fibrous					
		Tightly Bound					
Z Crane 06	Foam	Homogeneous	3%	Synthetics	5%	Rust	**None Detected**
4376214		Yellow			2%	Binder	
		Non-Fibrous			90%	Foam	
		Bound					

ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745233-1
Date Received: 04/24/26
Date Analyzed: 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		NON-ASBESTOS COMPONENTS Non-Fibrous		ASBESTOS %
Z Crane 07 Layer A 4376215	Tape	Heterogeneous Brown Fibrous Bound	25% 25%	Cellulose Glass	50%	Foil	**None Detected**
Layer B 4376215	Insulation	Homogeneous Yellow Fibrous Loose	100%	Glass			**None Detected**
Z Crane 08 4376216	Resinous Material	Homogeneous Black Fibrous Tightly Bound	40%	Synthetics	60%	Vinyl	**None Detected**
Z Crane 09 4376217	Material	Homogeneous Gray Non-Fibrous Tightly Bound			100%	Vinyl	**None Detected**
Z Crane 10 4376218	Caulk	Homogeneous Clear Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
Z Crane 11 4376219	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound	2% 1%	Cellulose Synthetics	97%	Vinyl	**None Detected**
Z Crane 12 4376220	Caulk	Homogeneous Tan/black Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745233-1
Date Received: 04/24/26
Date Analyzed: 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Z Crane 13 Layer A 4376221	Tape	Heterogeneous Brown Fibrous Bound	25% 25%	Cellulose Glass	50%	Foil	**None Detected**
Layer B 4376221	Insulation	Homogeneous Yellow Fibrous Loose	100%	Glass			**None Detected**
Z Crane 14 4376222	Flooring W/ Dark-Brown Adhesive	Homogeneous Pink Non-Fibrous Tightly Bound			2% 98%	Mastic Vinyl	**None Detected**
Z Crane 15 4376223	Foam	Homogeneous Yellow Non-Fibrous Bound			100%	Foam	**None Detected**
Z Crane 16 4376224	Flooring	Homogeneous Pink Non-Fibrous Tightly Bound			99% 1%	Vinyl Binder	**None Detected**
Z Crane 17 4376225	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound			100%	Vinyl	**None Detected**

ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745233-1
Date Received: 04/24/26
Date Analyzed: 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
Z Crane 18 Layer A 4376226	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound		100%	Vinyl	**None Detected**
Layer B 4376226	Caulk	Homogeneous Brown Non-Fibrous Tightly Bound		100%	Caulk	**None Detected**
Z Crane 19 4376227	Foam	Homogeneous Black Non-Fibrous Bound		100%	Foam	**None Detected**
Z Crane 20 4376228	Foam	Homogeneous Black Non-Fibrous Bound		100%	Foam	**None Detected**
Z Crane 21 4376229	Caulk	Homogeneous Red Non-Fibrous Tightly Bound		100%	Caulk	**None Detected**
Z Crane 22 4376230	Caulk W/ Paint	Homogeneous Dark-gray Non-Fibrous Tightly Bound		90% 10%	Caulk Paint	**None Detected**
Z Crane 23 4376231	Foam	Homogeneous Black Non-Fibrous Bound		100%	Foam	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745233-1
Date Received: 04/24/26
Date Analyzed: 04/28/26
Date Reported: 04/28/26

Project: 2026 1581A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Z Crane 24 4376232	Resinous Material	Homogeneous Black Fibrous Tightly Bound	40%	Synthetics	60%	Vinyl	**None Detected**

LEGEND:

Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763

REPORTING LIMIT: 1% by calibrated visual estimation

REGULATORY LIMIT: 1%

Due to the limitations of the EPA 600 / R93 / 116 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

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Information provided by customer includes customer sample ID and sample description.

Yelena Khanina
Analyst

DATA QA: Abbey Arnold
4/28/2026

APPROVED BY: Kamila Reichert,
Laboratory Director

eurofins | Built Environment Testing

RES Job #: 745233

SUBMITTED BY		INVOICE TO		CONTACT INFORMATION		SERIES
Company:	Corporate Environmental Risk Management, LLC.	Company:	Corporate Environmental Risk Management, LLC.	Contact:	Tricia Defreitas	-1 PLM Priority 48
Address:	2800 Century Parkway, Suite 750	Address:	2800 Century Parkway, Suite 750	Phone:	(678) 999-0173	
	Atlanta, GA 30345		Atlanta, GA 30345	Fax:		
				Cell:	(470) 417-4753	
Project Number and/or P.O. #:	2026 1581A 001A	Project Zip Code:		Final Data Deliverable Email Address:		
Project Description/Location:	AL Port Auth McDuffie Terminal Cranes			tdefreitas@cerm.com (+ 4 ADDNL. CONTACTS)		

ASBESTOS LABORATORY

PLM / PCM / TEM / NYS DTL RUSH PRIORITY STANDARD

CHEMISTRY LABORATORY

Dust RUSH PRIORITY STANDARD

Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT

Organics* SAME DAY RUSH PRIORITY STANDARD

MICROBIOLOGY LABORATORY

Viable Analysis** PRIORITY STANDARD

**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH

Medical Device Analysis RUSH STANDARD

Mold Analysis RUSH PRIORITY STANDARD

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

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Air = A	Bulk = B
Dust = D	Food = F
Paint = P	Soil = S
Surface = SU	Swab = SW
Tape = T	Wipe = W
Drinking Water = DW	
Waste Water = WW	
ASTM E1792 approved wipe media only	

Client Sample ID Number (Sample ID's must be unique)	REQUESTED ANALYSIS: PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD	ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	LAB NOTES: Laboratory Analysis Instructions
	ASBESTOS				CHEMISTRY			MICROBIOLOGY			ICO								
1 Z Crane 01	X														B				
2 Z Crane 02	X														B				
3 Z Crane 03	X														B				
4 Z Crane 04	X														B				
5 Z Crane 05	X														B				
6 Z Crane 06	X														B				
7 Z Crane 07	X														B				
8 Z Crane 08	X														B				
9 Z Crane 09	X														B				
10 Z Crane 10	X														B				
11 Z Crane 11	X														B				
12 Z Crane 12	X														B				
13 Z Crane 13	X														B				

Eurofins Built Environment Testing East, LLC establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

Eurofins Built Environment Testing East, LLC will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET30. Failure to comply with payment terms may result in a 18% APR finance charge.

Relinquished By:		Date/Time: 04/24/2026 16:59:41	Sample Condition: Acceptable
Received By:	Atria Warren	Date/Time: 04/24/2026 16:59:41	Carrier: Hand

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RES Job #: **745233**

Submitted By: **Corporate Environmental Risk Management, LLC.**

		REQUESTED ANALYSIS											VALID MATRIX CODES							LAB NOTES
													Air = A			Bulk = B				
													Dust = D			Food = F				
													Paint = P			Soil = S				
													Surface = SU			Swab = SW				
													Tape = T			Wipe = W				
													Drinking Water = DW							
													Waste Water = WW							
													ASTM E1792 approved wipe media only							
		PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD	ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
	Client Sample ID Number (Sample ID's must be unique)	ASBESTOS				CHEMISTRY			MICROBIOLOGY			ICO								
14	Z Crane 14	X														B				
15	Z Crane 15	X														B				
16	Z Crane 16	X														B				
17	Z Crane 17	X														B				
18	Z Crane 18	X														B				
19	Z Crane 19	X														B				
20	Z Crane 20	X														B				
21	Z Crane 21	X														B				
22	Z Crane 22	X														B				
23	Z Crane 23	X														B				
24	Z Crane 24	X														B				

Corporate Environmental Risk Management, LLC.
Sample Locations

RES #: 745233
Project Number and/or P.O. #: 2026 1581A 001A
Project Description/Location: AL Port Auth McDuffie Terminal Cranes

Client Sample ID	Sample Location
Z Crane 01	Elevator Ceiling White Silicone
Z Crane 02	Elevator Door Black Seal
Z Crane 03	Control Cabin Window White Silicone
Z Crane 04	Control Cabin Inner window Glaze Black
Z Crane 05	Control Cabin Window Gasket Black
Z Crane 06	Control Cabin Insulation White
Z Crane 07	Control Cabin Behind Walls Insulation
Z Crane 08	Platform Black Flex Insulation Cover
Z Crane 09	Platform Gray Electric Insulation
Z Crane 10	Boom Control Cabin White Silicone cover wall
Z Crane 11	Boom Control Cabin Black Window Gasket
Z Crane 12	Boom Control Cabin Outer Window Gasket White
Z Crane 13	Boom Control Cabin Wall Insulation
Z Crane 14	Boom Control Cabin Floor Carpet Red
Z Crane 15	Mechanical Room Brown Foam Glue
Z Crane 16	Mechanical Room Panel Room Red Floor Mat
Z Crane 17	Mechanical Room Inner Door Rubber Seal Black
Z Crane 18	Mechanical Room Inner Door Brown Silicone
Z Crane 19	Mechanical Room Panel Black Seal
Z Crane 20	Mechanical Room AC Pipe Black Insulation
Z Crane 21	Mechanical Room Teal Machinery Red Seal
Z Crane 22	Mechanical Room Yellow Machine Clear Seal
Z Crane 23	Mechanical Room AC Unit outer Pipe Insulation Black
Z Crane 24	Convayer Belt Black

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Eurofins Environment Testing Southeast-Atlanta, LLC
3080 Presidential Drive, Atlanta, GA 30340
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889
www.EurofinsUS.com

Work Order: 745233

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: CERM
Address: 2800 Century Pky Ste 750
City, State, Zip: Atlanta GA 30345
Contact: Tricia DeFreitas
Sampler's Name: Tricia DeFreitas
Report To: Tricia DeFreitas
Report to Email: tdefreitas@cerm.com

Project Name: AL Port Auth. McDuffie Terminal Grains
Project Number: 2026-158-A-001A
Sampling Date: 4-22-26
Phone #: 470 417 4753
Invoice To Name(s): Sharon Douglas
Invoice To Email(s): SDouglas@cerm.com
PO #:

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	Z CRANE 01	Elevator Ceiling, White Silicone	PLM	2 DAY	
2	Z CRANE 02	Elevator Door, Black Seal			
3	Z CRANE 03	Control Cabin, Window, White Silicone			
4	Z CRANE 04	" " , Inner Window Glaze, Black			
5	Z CRANE 05	" " , Window Gasket, Black			
6	Z CRANE 06	" " , Insulation, White			
7	Z CRANE 07	" " , Behind Walls, Insulation			
8	Z CRANE 08	Platform, Black Flex Insulation Cover			
9	Z CRANE 09	Platform, Gray Electrical Insulation			
10	Z CRANE 10	Boom Control Cabin, White Silicone, corner wall			
11	Z CRANE 11	" " " , Black Window Gasket			
12	Z CRANE 12	" " " , Outer window Gasket, White			
13	Z CRANE 13	" " " , Wall Insulation			
14	Z CRANE 14	" " " , Floor Carpet, Red			
15	Z CRANE 15	Mechanical Room, Brown Foam Glue			
16	Z CRANE 16	" " , Panel Room, Red Floor Mat			
17	Z CRANE 17	" " , Inner Door, Rubber Seal, Black			
18	Z CRANE 18	" " , Inner Door, Brown Silicone			
19	Z CRANE 19	" " , Panel, Black Seal			
20	Z CRANE 20	" " , AC Pipe, Black Insulation			

Relinquished by: CERM — Date/Time: 4-24-26 / 1453
Received by: — Date/Time:
Relinquished by: — Date/Time:
Received by: — Date/Time:

Submission of samples to the laboratory constitutes acceptance of EETSE's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, EETSE-Atlanta will proceed with standard TAT.

Asbestos COC2.28.24

FOR LAB USE ONLY
Lab Recipient: [signature] Date/Time: 4/24/26 2:54pm Method of Shipment:

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Eurofins Environment Testing Southeast-Atlanta, LLC
3080 Presidential Drive, Atlanta, GA 30340
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889
www.EurofinsUS.com

Work Order: 745233

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: CERM
Address:
City, State, Zip:
Contact: Trisa DeFreitas
Sampler's Name: " "
Report To: " "
Report to Email: tdefreitas@cerm.com

Project Name: AL Port Auth. McDuffie Terminal Cranes
Project Number: 2026-1581A-001A
Sampling Date: 4-22-26
Phone #:
Invoice To Name(s): Sharon Douglas
Invoice To Email(s):
PO #:

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	Z CRANE 21	Mechanical Room, Teal Machinery, Red Seal	PLM	2 DAY	
2	Z CRANE 22	" " , Yellow Machine, Clear Seal	↓	↓	
3	Z CRANE 23	" " , AC Unit, outer, Pipe Insulation Black			
4	Z CRANE 24	Conveyor Belt, Black.			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Relinquished by: CERM — Date/Time: 4-24-26 / 1453
Received by: — Date/Time:
Relinquished by: — Date/Time:
Received by: — Date/Time:

Submission of samples to the laboratory constitutes acceptance of EETSE's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, EETSE-Atlanta will proceed with standard TAT.

Asbestos COC2.28.24

FOR LAB USE ONLY
Lab Recipient: CW — Date/Time: 4/24/26 2:54pm — Method of Shipment:

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April 28, 2026

Tricia Defreitas
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

CLIENT PROJECT: 2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes
LAB CODE: 745168-1

Dear Tricia,

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on 04/24/26. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA 40 CFR Appendix E to Subpart E of Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% by calibrated visual estimate.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Kamila Reichert

Kamila Reichert,
Laboratory Director

NVLAP 102082-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Corporate Environmental Risk Management, LLC.

CLIENT PROJECT:	2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes
LAB CODE:	745168-1
TEST METHOD:	EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763
REPORT DATE:	04/28/26
TOTAL SAMPLES ANALYZED:	22
# SAMPLES >1% ASBESTOS:	0
TOTAL LAYERS ANALYZED:	24

3785 Presidential Parkway Suite 130, • Atlanta, GA 30340 • (770) 368-2171

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Asbestos Report Summary
By: Polarized Light Microscopy

Project:
2026 1581 A 001A, AL Port Auth McDuffie Terminal
Cranes

Lab Code: 745168-1

Client ID	Lab ID	Layer	Sample Description	Asbestos %
M Cranes 01	4374206		Clear/dark-gray caulk	None Detected
M Cranes 02	4374207		Clear/dark-gray caulk	None Detected
M Cranes 03	4374208		Black resinous material	None Detected
M Cranes 04	4374209		Black woven material	None Detected
M Cranes 05	4374210		Black resinous material	None Detected
M Cranes 06	4374211		Black resinous material	None Detected
M Cranes 07	4374212		Red caulk	None Detected
M Cranes 08	4374213		Silver caulk	None Detected
M Cranes 09	4374214		Black caulk	None Detected
M Cranes 10	4374215		Black resinous material	None Detected
M Cranes 11	4374216		Black resinous material	None Detected
M Cranes 12	4374217		Gray caulk w/ paint	None Detected
M Cranes 13	4374218		Beige insulation	None Detected
M Cranes 14	4374219		Clear/gray caulk	None Detected
M Cranes 15	4374220	Layer A	Brown tape w/ foil	None Detected
		Layer B	Yellow insulation	None Detected
M Cranes 16	4374221		Gray mastic w/ foil	None Detected
M Cranes 17	4374222		Yellow foamy insulation	None Detected
M Cranes 18	4374223	Layer A	Gray tape w/ foil	None Detected
		Layer B	Dark-gray insulation	None Detected
M Cranes 19	4374224		Gray foamy insulation	None Detected
M Cranes 20	4374225		Red caulk	None Detected
M Cranes 21	4374226		Black foamy insulation	None Detected
M Cranes 22	4374227		White caulk w/ paint	None Detected

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745168-1
Date Received: 04/24/26
Date Analyzed: 04/27/26
Date Reported: 04/28/26

Project: 2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
M Cranes 01 4374206	Caulk	Homogeneous Clear/dark-gray Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
M Cranes 02 4374207	Caulk	Homogeneous Clear/dark-gray Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
M Cranes 03 4374208	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**
M Cranes 04 4374209	Woven Material	Homogeneous Black Fibrous Bound	80%	Glass	20%	Binder	**None Detected**
M Cranes 05 4374210	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**
M Cranes 06 4374211	Resinous Material	Homogeneous Black Fibrous Tightly Bound	15%	Synthetics	85%	Rubber	**None Detected**
M Cranes 07 4374212	Caulk	Homogeneous Red Non-Fibrous Bound			100%	Caulk	**None Detected**

ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745168-1
Date Received: 04/24/26
Date Analyzed: 04/27/26
Date Reported: 04/28/26

Project: 2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		NON-ASBESTOS COMPONENTS Non-Fibrous		ASBESTOS %
M Cranes 08 4374213	Caulk	Homogeneous Silver Non-Fibrous Bound			100%	Caulk	**None Detected**
M Cranes 09 4374214	Caulk	Homogeneous Black Non-Fibrous Tightly Bound			100%	Caulk	**None Detected**
M Cranes 10 4374215	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**
M Cranes 11 4374216	Resinous Material	Homogeneous Black Non-Fibrous Tightly Bound			100%	Rubber	**None Detected**
M Cranes 12 4374217	Caulk W/ Paint	Homogeneous Gray Non-Fibrous Tightly Bound			90% 10%	Caulk Paint	**None Detected**
M Cranes 13 4374218	Insulation	Homogeneous Beige Fibrous Loose	100%	Glass			**None Detected**
M Cranes 14 4374219	Caulk	Homogeneous Clear/gray Non-Fibrous Bound			100%	Caulk	**None Detected**

ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745168-1
Date Received: 04/24/26
Date Analyzed: 04/27/26
Date Reported: 04/28/26

Project: 2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		NON-ASBESTOS COMPONENTS Non-Fibrous		ASBESTOS %
M Cranes 15 Layer A 4374220	Tape W/ Foil	Heterogeneous Brown Fibrous Bound	70% 15%	Cellulose Glass	15%	Foil	**None Detected**
Layer B 4374220	Insulation	Homogeneous Yellow Fibrous Loose	100%	Glass			**None Detected**
M Cranes 16 4374221	Mastic W/ Foil	Heterogeneous Gray Non-Fibrous Tightly Bound			30% 70%	Foil Mastic	**None Detected**
M Cranes 17 4374222	Foamy Insulation	Homogeneous Yellow Non-Fibrous Loosely Bound			100%	Foam	**None Detected**
M Cranes 18 Layer A 4374223	Tape W/ Foil	Heterogeneous Gray Fibrous Bound	60% 10%	Cellulose Glass	30%	Foil	**None Detected**
Layer B 4374223	Insulation	Homogeneous Dark-gray Fibrous Loose	100%	Glass			**None Detected**
M Cranes 19 4374224	Foamy Insulation	Homogeneous Gray Non-Fibrous Loosely Bound			100%	Foam	**None Detected**

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ASBESTOS BULK ANALYSIS
By: Polarized Light Microscopy

Client:
Corporate Environmental Risk Management, LLC.
2800 Century Parkway, Suite 750
Atlanta, GA 30345

Lab Code: 745168-1
Date Received: 04/24/26
Date Analyzed: 04/27/26
Date Reported: 04/28/26

Project: 2026 1581 A 001A, AL Port Auth McDuffie Terminal Cranes

Method: ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
M Cranes 20 4374225	Caulk	Homogeneous Red Non-Fibrous Bound		100%	Caulk	**None Detected**
M Cranes 21 4374226	Foamy Insulation	Homogeneous Black Non-Fibrous Loosely Bound		100%	Foam	**None Detected**
M Cranes 22 4374227	Caulk W/ Paint	Homogeneous White Non-Fibrous Bound		10% 90%	Paint Caulk	**None Detected**

LEGEND:

Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763

REPORTING LIMIT: 1% by calibrated visual estimation

REGULATORY LIMIT: 1%

Due to the limitations of the EPA 600 / R93 / 116 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

Eurofins Built Environment Testing East, LLC makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins Built Environment Testing East, LLC. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

Svetlana Arkhipov
Analyst

DATA QA: Abbey Arnold
4/28/2026

APPROVED BY: Kamila Reichert,
Laboratory Director

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RES Job #: 745168

SUBMITTED BY		INVOICE TO		CONTACT INFORMATION		SERIES
Company:	Corporate Environmental Risk Management, LLC.	Company:	Corporate Environmental Risk Management, LLC.	Contact:	Sharon Douglas	-1 PLM Priority 48
Address:	2800 Century Parkway, Suite 750	Address:	2800 Century Parkway, Suite 750	Phone:	(678) 999-0173	
	Atlanta, GA 30345		Atlanta, GA 30345	Fax:		
				Cell:	(678) 603-8325	
Project Number and/or P.O. #:	2026 1581 A 001A	Project Zip Code:		Final Data Deliverable Email Address:		
Project Description/Location:	AL Port Auth McDuffie Terminal Cranes			sdouglas@cerm.com (+ 4 ADDNL. CONTACTS)		

ASBESTOS LABORATORY

PLM / PCM / TEM / NYS DTL RUSH PRIORITY STANDARD

CHEMISTRY LABORATORY

Dust RUSH PRIORITY STANDARD

Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT

Organics* SAME DAY RUSH PRIORITY STANDARD

MICROBIOLOGY LABORATORY

Viable Analysis** PRIORITY STANDARD

**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH

Medical Device Analysis RUSH STANDARD

Mold Analysis RUSH PRIORITY STANDARD

****Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.****

Special Instructions:

VALID MATRIX CODES

Air = A	Bulk = B
Dust = D	Food = F
Paint = P	Soil = S
Surface = SU	Swab = SW
Tape = T	Wipe = W
Drinking Water = DW	
Waste Water = WW	
ASTM E1792 approved wipe media only	

Client Sample ID Number (Sample ID's must be unique)	REQUESTED ANALYSIS: PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD	ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
	ASBESTOS				CHEMISTRY			MICROBIOLOGY											
1 M Cranes 01	X														B				
2 M Cranes 02	X														B				
3 M Cranes 03	X														B				
4 M Cranes 04	X														B				
5 M Cranes 05	X														B				
6 M Cranes 06	X														B				
7 M Cranes 07	X														B				
8 M Cranes 08	X														B				
9 M Cranes 09	X														B				
10 M Cranes 10	X														B				
11 M Cranes 11	X														B				
12 M Cranes 12	X														B				
13 M Cranes 13	X														B				

Eurofins Built Environment Testing East, LLC establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

Eurofins Built Environment Testing East, LLC will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET30. Failure to comply with payment terms may result in a 18% APR finance charge.

Relinquished By:		Date/Time: 04/24/2026 15:24:25	Sample Condition: Acceptable
Received By:	Atria Warren	Date/Time: 04/24/2026 15:24:25	Carrier: Hand

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RES Job #: **745168**

Submitted By: **Corporate Environmental Risk Management, LLC.**

	REQUESTED ANALYSIS											VALID MATRIX CODES							LAB NOTES
												Air = A			Bulk = B				
												Dust = D			Food = F				
												Paint = P			Soil = S				
												Surface = SU			Swab = SW				
												Tape = T			Wipe = W				
												Drinking Water = DW							
												Waste Water = WW							
												ASTM E1792 approved wipe media only							
	PLM - PLM Short Report (EPA/600/R-93/116)	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD	ICO	Sample Volume (L) / Area	Sample Temperature (°C)	Length(or Aliquots) x Width(or Area/Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
Client Sample ID Number (Sample ID's must be unique)	**ASBESTOS**				**CHEMISTRY**			**MICROBIOLOGY**			**ICO**								
14 M Cranes 14	X														B				
15 M Cranes 15	X														B				
16 M Cranes 16	X														B				
17 M Cranes 17	X														B				
18 M Cranes 18	X														B				
19 M Cranes 19	X														B				
20 M Cranes 20	X														B				
21 M Cranes 21	X														B				
22 M Cranes 22	X														B				

Corporate Environmental Risk Management, LLC.
Sample Locations

RES #: 745168
Project Number and/or P.O. #: 2026 1581 A 001A
Project Description/Location: AL Port Auth McDuffie Terminal Cranes

Client Sample ID	Sample Location
M Cranes 01	Elevator White Caulk
M Cranes 02	Elevator Inner Door Clear Silicone
M Cranes 03	Elevator Door Rubber Seal Black
M Cranes 04	Floor Level Flex Rubber Insulation Cover
M Cranes 05	Near Conwayer Belt Hatch Door Rubber Black Seal
M Cranes 06	Conwayer Belt Black
M Cranes 07	Small Mechanical Room Machine Red Silicone
M Cranes 08	Small Mechanical Duct Caulking Gray
M Cranes 09	Small Mechanical Machine Black Gasket
M Cranes 10	Control Cabin Door Black Seal
M Cranes 11	Control Cabin Window Gasket
M Cranes 12	Control Cabin Inner Corner Wall, White Caulking
M Cranes 13	Control Cabin Behind Wall Insulation
M Cranes 14	Control Cabin Outer Window Silicone
M Cranes 15	Large Mechanical Room AC Duct in Panel room Insulation
M Cranes 16	Large Mechanical Bottom of AC Vent Duct Glue Gray
M Cranes 17	Large Mechanical Spray Foam Yellow
M Cranes 18	Large Mechanical Blue/ Silver Insulation
M Cranes 19	Large Mechanical Panel Door Gray Seal
M Cranes 20	Large Mechanical Gasket from Machines Red
M Cranes 21	Large Mechanical Rm Outer AC Unit Insulation Black
M Cranes 22	Large Mechanical Rm Outer Walls White Caulking

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Eurofins Environment Testing Southeast-Atlanta, LLC
3080 Presidential Drive, Atlanta, GA 30340
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889
www.EurofinsUS.com

Work Order: 745168

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name:	CERM	Project Name:	AL Port Auth. Mobile Terminal Cranes
Address:	2800 Century Pky Ste 750	Project Number:	2026 - 1581 A - 001A
City, State, Zip:	ATL GA 30345	Sampling Date:	4-22-26 & 4-23-26
Contact:	Tricia DeFreitas	Phone #:	470 417 4753
Sampler's Name:	Tricia DeFreitas	Invoice To Name(s):	Sharon Douglas
Report To:	" "	Invoice To Email(s):	Sdouglas@cerm.com
Report to Email:	tdefreitas@cerm.com	PO #:	

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	M CRANE 01	Elevator, White Caulking	PLM	2 DAY	
2	M CRANE 02	" , Inner Door Clear Silicone			4-22-26
3	M CRANE 03	" , Door, Rubber Seal Black			
4	M CRANE 04	Floor level, Flex Rubber Insulation Cover,			
5	M CRANE 05	Near Conveyor Belt, Hatch Door Rubber Seal (thick)			
6	M CRANE 06	Conveyor Belt, Black			
7	M CRANE 07	Small Mechanical Room, Machine, Red Silicone			4-23-26
8	M CRANE 08	" " " , Duct Caulking Gray			
9	M CRANE 09	" " " , Machine, Black Gasket			
10	M CRANE 10	Control Cabin, Door, Black Seal			
11	M CRANE 11	" " , Window Gasket			
12	M CRANE 12	" " , Inner Corner wall, White Caulking			
13	M CRANE 13	" " , Behind Wall, Insulation			
14	M CRANE 14	" " , Outer Window Silicone			
15	M CRANE 15	Large Mechanical Room, AC DUCT IN PANEL Room, Insulation			
16	M CRANE 16	" " " , Bottom of AC Vent, Duct Glue, Gray			
17	M CRANE 17	" " " , Spray Foam, Yellow			
18	M CRANE 18	" " " , Blue/Silver Insulation			
19	M CRANE 19	" " " , Panel Door, Gray Seal			
20	M CRANE 20	" " " , Gasket from Machines, Red	↓	↓	↓

Relinquished by:	CERM	Date/Time:	4-24-26 / 1453
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Submission of samples to the laboratory constitutes acceptance of EETSE's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, EETSE-Atlanta will proceed with standard TAT.

Asbestos COC2.28.24

FOR LAB USE ONLY

Lab Recipient: [signature] Date/Time: 4/24/26 2:54 pm Method of Shipment:

eurofins | Environment Testing

Eurofins Environment Testing Southeast-Atlanta, LLC
3080 Presidential Drive, Atlanta, GA 30340
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889
www.EurofinsUS.com

Work Order: 745168

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: CERM
Address:
City, State, Zip:
Contact:
Sampler's Name: Tricia DeFrates
Report To: " "
Report to Email:

Project Name: AL Port Auth. McDuffie Terminal Cranes
Project Number: 2026 - FB 1581A - 001A
Sampling Date: 4-22-26 & 4-23-26
Phone #: 470 417 4753
Invoice To Name(s): Shavon Douglas
Invoice To Email(s):
PO #:

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	M CRANE 21	Large Mechanical Rm, Outer AC Unit, Insulation, Black	PLM	2 DAY	4-23-26
2	M CRANE 22	" " ", Outer Walls, White Caulking	PLM	2 DAY	"
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Relinquished by: CERM — Date/Time: 4-24-26 / 1453
Received by: — Date/Time:
Relinquished by: — Date/Time:
Received by: — Date/Time:

Submission of samples to the laboratory constitutes acceptance of EETSE's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, EETSE-Atlanta will proceed with standard TAT.

Asbestos COC2.28.24

FOR LAB USE ONLY
Lab Recipient: [illegible] Date/Time: 4/24/26 2:54PM Method of Shipment:

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tricia Defreitas
CERM
1990 Lakeside Pkwy
Suite 300
Tucker, Georgia (St) 30084

Generated 4/28/2026 2:22:01 PM

JOB DESCRIPTION

Al Port Authority

JOB NUMBER

705-64822-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Mirzeta Kararic

Generated
4/28/2026 2:22:01 PM

Authorized for release by
Mirzeta Kararic, Project Manager
mirzeta.kararic@et.eurofinsus.com
(770)457-8177

Table of Contents

Job Narrative
705-64822-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 4/24/2026 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

IH - Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
705-64822-1	2 Crane L1	Solid	04/22/26 11:20	04/24/26 14:48	Georgia (St)
705-64822-2	S Crane L1	Solid	04/21/26 15:50	04/24/26 14:48	Georgia (St)

Detection Summary

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

Client Sample ID: 2 Crane L1 — Lab Sample ID: 705-64822-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	4.2		0.0096		% by Wt	1		7082	Total/NA

Client Sample ID: S Crane L1 — Lab Sample ID: 705-64822-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	3.3		0.0096		% by Wt	1		7082	Total/NA

This Detection Summary does not include radiochemical test results.

Definitions/Glossary

Client: CERM
Job ID: 705-64822-1
Project/Site: AI Port Authority

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

Client Sample ID: 2 Crane L1

Lab Sample ID: 705-64822-1
Matrix: Solid
Date Collected: 04/22/26 11:20
Date Received: 04/24/26 14:48

Method: NIOSH 7082 - NIOSH Method 7082 (Modified)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2		0.0096		% by Wt		04/27/26 08:15	04/27/26 12:35	1

Client Sample ID: S Crane L1

Lab Sample ID: 705-64822-2
Matrix: Solid
Date Collected: 04/21/26 15:50
Date Received: 04/24/26 14:48

Method: NIOSH 7082 - NIOSH Method 7082 (Modified)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.3		0.0096		% by Wt		04/27/26 08:15	04/27/26 12:38	1

Method: 7082 - NIOSH Method 7082 (Modified)

Lab Sample ID: MB 705-131022/1-A
Matrix: Solid
Analysis Batch: 131172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131022

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010		% by Wt		04/27/26 08:15	04/27/26 11:41	1

Lab Sample ID: LCS 705-131022/2-A
Matrix: Solid
Analysis Batch: 131172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			0.593	0.634		% by Wt		107	80 - 120		

Lab Sample ID: 705-64763-A-4-B MS
Matrix: Solid
Analysis Batch: 131172

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 131022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead	ND		0.0488	0.0523		% by Wt		98	75 - 125		

Lab Sample ID: 705-64763-A-4-C MSD
Matrix: Solid
Analysis Batch: 131172

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 131022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		0.0483	0.0511		% by Wt		97	75 - 125	2	25

QC Association Summary

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

IH - Metals

Prep Batch: 131022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-64822-1	2 Crane L1	Total/NA	Solid	3050B	
705-64822-2	S Crane L1	Total/NA	Solid	3050B	
MB 705-131022/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 705-131022/2-A	Lab Control Sample	Total/NA	Solid	3050B	
705-64763-A-4-B MS	Matrix Spike	Total/NA	Solid	3050B	
705-64763-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 131172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-64822-1	2 Crane L1	Total/NA	Solid	7082	131022
705-64822-2	S Crane L1	Total/NA	Solid	7082	131022
MB 705-131022/1-A	Method Blank	Total/NA	Solid	7082	131022
LCS 705-131022/2-A	Lab Control Sample	Total/NA	Solid	7082	131022
705-64763-A-4-B MS	Matrix Spike	Total/NA	Solid	7082	131022
705-64763-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7082	131022

Lab Chronicle

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

Client Sample ID: 2 Crane L1

Lab Sample ID: 705-64822-1

Date Collected: 04/22/26 11:20

Matrix: Solid

Date Received: 04/24/26 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			131022	BR	EET ATL	04/27/26 08:15
Total/NA	Analysis	7082		1	131172	DS	EET ATL	04/27/26 12:35

Client Sample ID: S Crane L1

Lab Sample ID: 705-64822-2

Date Collected: 04/21/26 15:50

Matrix: Solid

Date Received: 04/24/26 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			131022	BR	EET ATL	04/27/26 08:15
Total/NA	Analysis	7082		1	131172	DS	EET ATL	04/27/26 12:38

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Method Summary

Client: CERM
Project/Site: Al Port Authority

Job ID: 705-64822-1

Method	Method Description	Protocol	Laboratory
7082	NIOSH Method 7082 (Modified)	NIOSH	EET ATL
3050B	Preparation, Metals	SW846	EET ATL

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: CERM
Job ID: 705-64822-1
Project/Site: Al Port Authority

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA LAP, LLC	Environmental Lead Laboratory Accreditation Program (ELLAP)	LAP-100671	06-01-26

CHAIN OF CUSTODY eurofins | Built Environment Testing

www.eurofinsus.com/Built

East: (866) 871-1984
Central: (800) 651-4802
West: (833) 465-5857

705-64822 COC

CONTACT INFORMATION			
Company:	CERM	Address:	2500 Century Pky, Ste 750 ATL GA
Contact:	Tricia DeFreitas	Special Instructions:	2 DAY RUSH
Phone:	470 417 4753		

PROJECT INFORMATION			
Project ID:	AL Port Authority		
Project Description:	McDuffie Terminal Cranes		
Project Zip Code:	36603	Sampling Date/Time:	
PO Number:		Sampled By:	Tricia DeFreitas

TURN AROUND TIME CODES - (TAT)	
STD - Standard (Default)	Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs. Rush availability is Matrix Dependent.
ND - Next Business Day	
SD - Same Business Day	
WH - Weekend/Holiday/ASAP	

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume (L) /Area (ft2) (as applicable)	NOTES (Flow Rate, Start/End Times, Sampling Time (min) etc.)	Paint by AAS: ASTM D3335-85a, 2009	Wipe/Dust by AAS: SW 846: 3050B: 7000B, 2010	Air by AAS: NIOSH 7082, 1994	Soil by AAS: EPA SW 846 (Soil)	Water by AAS-GF: ASTM D3559-03D, US EPA 200.9	Other Metals (Cd, Zn, Cr) by AAS	Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311	Other
~~S [illegible]~~													
2 CRANE L1	White / Yellow Paint From aster Mechanical Room	P	2DAY ~~ASAP~~	—	1120 / 4-22-26	X							
S CRANE L1	Yellow Paint from Base of Crane	P	2DAY ~~ASAP~~	—	1550 / 4-21-26	X							

SAMPLE TYPE CODES			
P - Paint	W - Water		
W/D - Wipe/Dust	O - Other		
A - Air			
SO - Soil			

RELINQUISHED BY	DATE & TIME
CERM	4-24-26 / 1448

RECEIVED BY	DATE & TIME
[illegible]	4.24.26
	1448

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-cocs-and-forms/

Login Sample Receipt Checklist

Client: CERM

Job Number: 705-64822-1

Login Number: 64822
List Number: 1
Creator: Sims, Christion

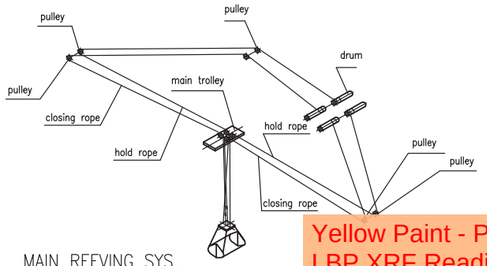
List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

END OF REPORT

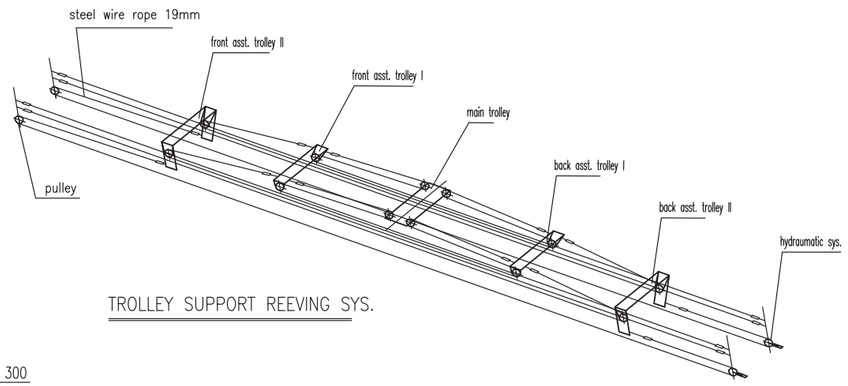
LBP SAMPLE LOCATIONS

revision no.	Sub no.	description	date	sign
01	D00		2005.01.06	song
02	D00		2005.02.23	song

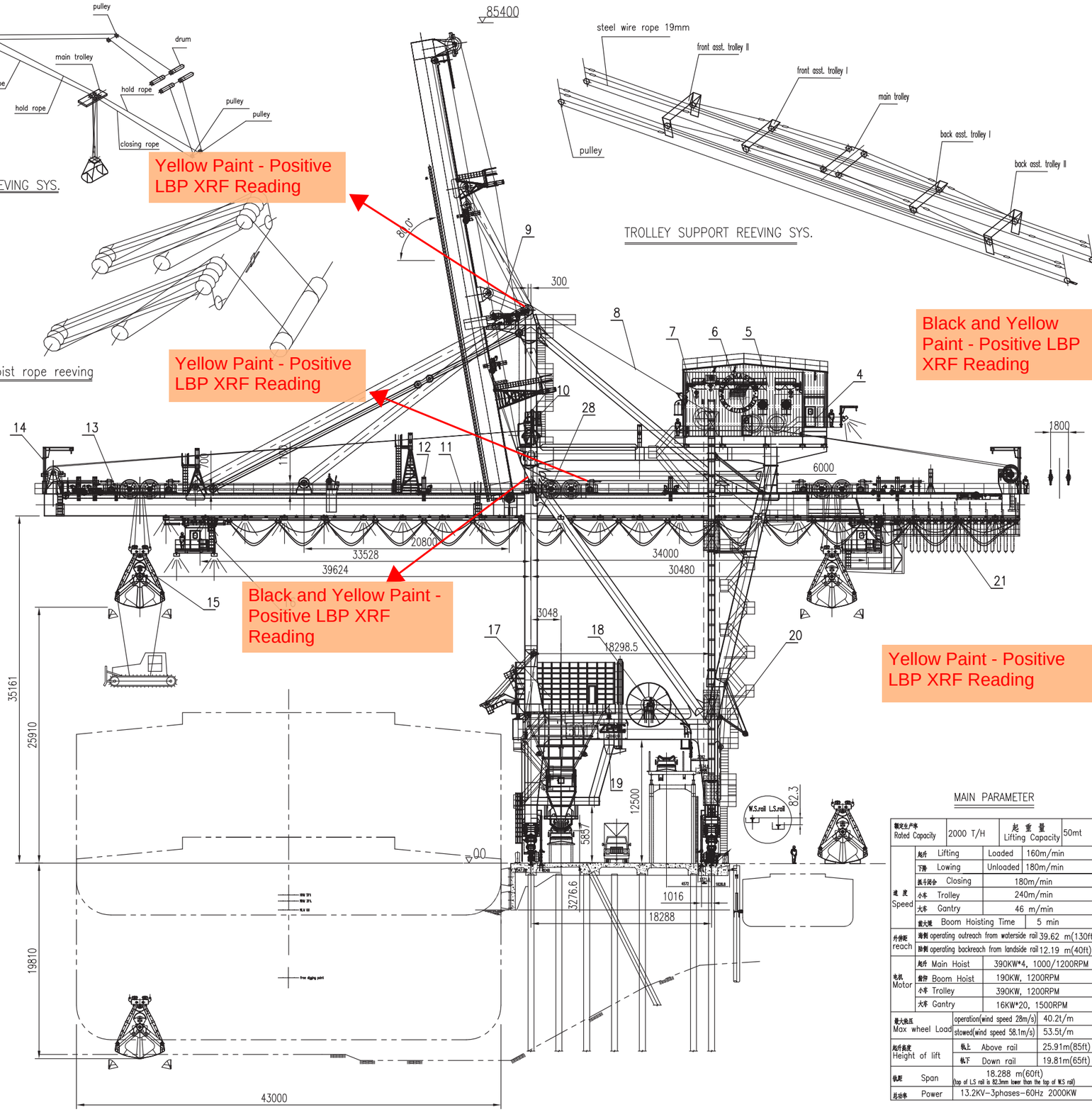


MAIN REEVING SYS.

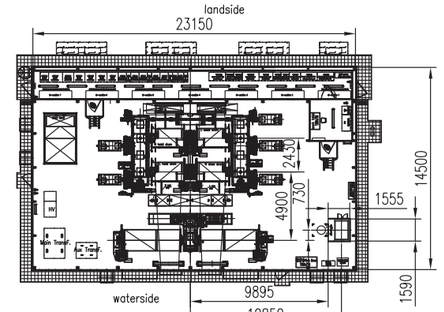
Boom hoist rope reeving

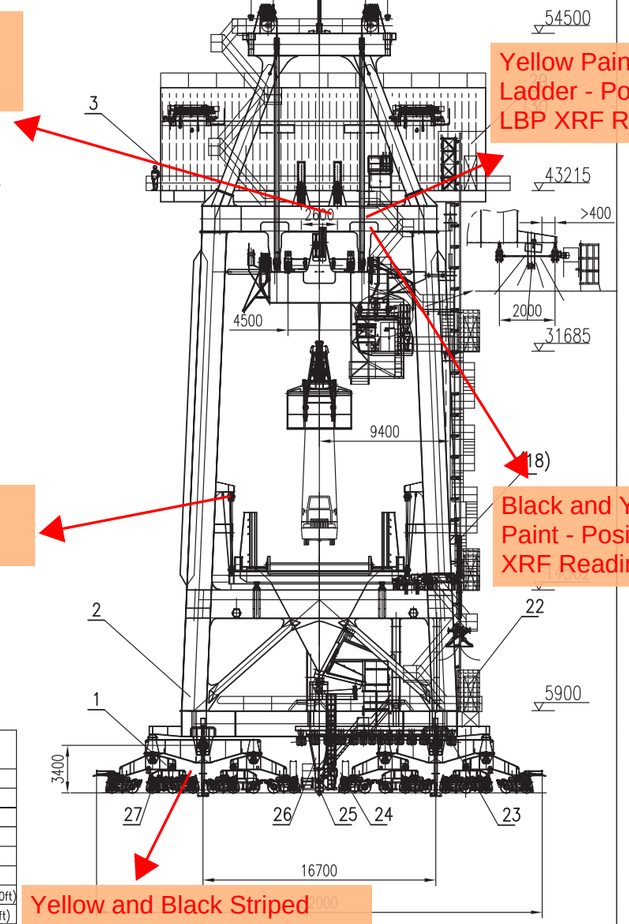


TROLLEY SUPPORT REEVING SYS.



Machinery and ele. house plan





Yellow Paint - Positive LBP XRF Reading

Yellow Paint - Positive LBP XRF Reading

Black and Yellow Paint - Positive LBP XRF Reading

Black and Yellow Paint - Positive LBP XRF Reading

Yellow Painted Ladder - Positive LBP XRF Reading

Yellow Paint - Positive LBP XRF Reading

Yellow and Black Striped Paint at Base of Crane - Positive LBP XRF Reading. Paint Chip Sample **(S Crane L1: 3.3%)**

MAIN PARAMETER

额定生产率 Rated Capacity	2000 T/H	起重量 Lifting Capacity	50mt
速度 Speed	起升 Lifting	Loaded	160m/min
	下降 Lowing	Unloaded	180m/min
	抓斗闭合 Closing	180m/min	
	小车 Trolley	240m/min	
	大车 Gantry	46 m/min	
	臂大提 Boom Hoisting Time	5 min	
外伸距 reach	海侧 operating outreach from waterside rail	39.62 m(130ft)	
	陆侧 operating backreach from landside rail	12.19 m(40ft)	
电机 Motor	起升 Main Hoist	390KW*4, 1000/1200RPM	
	俯仰 Boom Hoist	190KW, 1200RPM	
	小车 Trolley	390KW, 1200RPM	
	大车 Gantry	16KW*20, 1500RPM	
最大轮压 Max wheel Load	operation(wind speed 28m/s)	40.2t/m	
	stowed(wind speed 58.1m/s)	53.5t/m	
起升高度 Height of lift	轨上 Above rail	25.91m(85ft)	
	轨下 Down rail	19.81m(65ft)	
轨距 Span	18.288 m(60ft) (top of L.S rail is 82.3mm lower than the top of W.S rail)		
总功率 Power	13.2KV-3phases-60Hz 2000KW		

SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	QTY/set	each WEIGHT	total	NOTE

PROJECT: Alabama 2000t/h ship unloader

DESIGN STAGE:

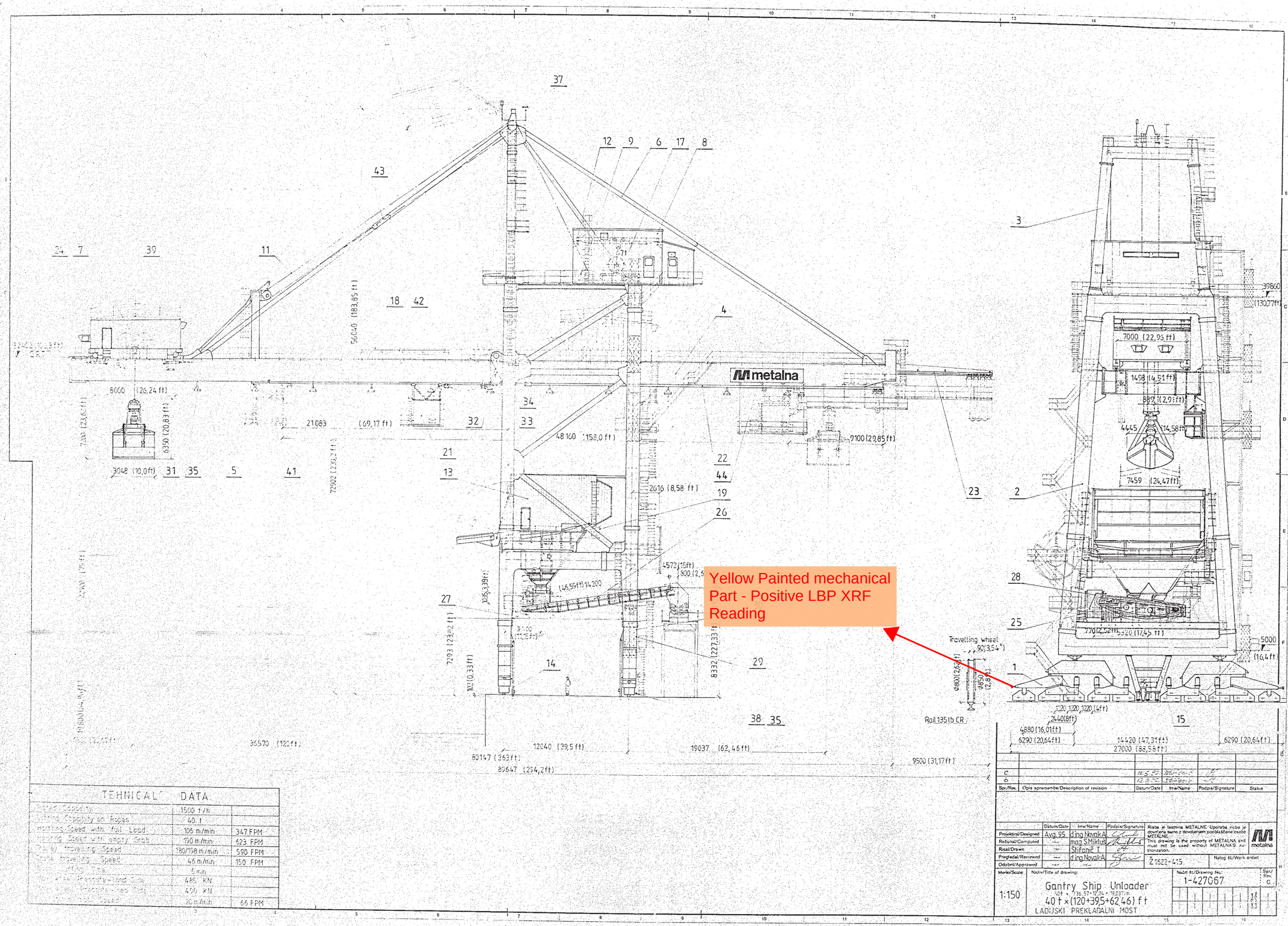
SCALE:

ITEM NAME: GENERAL ARRANGEMENT 总图布置

DRAW NO: UL2500

PROJ.

ZPMC	DSGN		TRACE	APP.	
	DRAW		CHCK	Q'TY/SET	1
	CHCK		VER.	SET/CRANE	~1640t



Yellow Painted mechanical Part - Positive LBP XRF Reading

TEHNICAL DATA		
Hoist capacity	1500 t/h	
Hoist Capacity on hooks	40 t	
Hoisting Speed with full Load	106 m/min	347 FPM
Hoisting Speed with empty Grab	190 m/min	623 FPM
Trolley Travelling Speed	180/198 m/min	590 FPM
Gantry Travelling Speed	46 m/min	150 FPM
Lifting Height above Rail Level	5 min	
Wheel Pressure Load Side	485 kN	
Wheel Pressure Sea Side	495 kN	
Slewing Speed	20 m/min	66 FPM

Sp./Rev.	Opis spremembe/Description of revision	Datum/Date	Ime/Name	Podpis/Signature	Status
C		16.5.95	BF-mm		A
b		12.5.95	BF-mm		A

	Datum/Date	Ime/Name	Podpis/Signature
Projektiral/Designed	Avg. 95	d ing Novak A.	
Računal/Computed	---	mag S Miklus	
Risal/Drawn	---	Stifanić T.	
Pregledal/Reviewed	---	d ing Novak A.	
Odobril/Approved	---	---	

Risbe je lastnina METALNE. Uporaba risbe je dovoljena samo z dovoljenjem podjetja Če ste METALNE.
This drawing is the property of METALNA and must not be used without METALNA'S authorization.

Nalog št./Work order: Z 1622-415

Merilo/Scale: 1:150

Naziv/Title of drawing:
Gantry Ship Unloader
40 t × (120+39,5+62,46) ft
LADIJSKI PREKLADALNI MOST

Načrt št./Drawing No.: 1-427067

Spr./Rev.: a

Mechanical Room Outer White Paint - Positive LBP XRF Reading. Paint Chip Sample **(Z Crane L1: 4.2%)**

Yellow Painted Rails within the Mechanical Room - Positive LBP XRF Reading

Yellow Paint - Positive LBP XRF Reading

Yellow Painted Rail - Positive LBP XRF Reading

Yellow Painted Floor Covers - Positive LBP XRF Reading

Yellow Paint - Positive LBP XRF Reading

Yellow Paint at Elevator - Positive LBP XRF Reading

Yellow Painted Gate - Positive LBP XRF Reading

Yellow Painted Hatch Door - Positive LBP XRF Reading

Yellow and Black Striped Paint at Base of Crane - Positive LBP XRF Reading.

SPEEDS:	CAPACITY AT ROPES FOR BUCKET	40T
	FULL BUCKET&CLOSING	75M/MIN
	EMPETY BUCKET&OPENING	90M/MIN
	TROLLEY BUCKET OPERATION	240M/MIN
	GANTRY TRAVEL	30.48M/MIN
	APRON HOISTING	5M/MIN
	FREE DIGGING RATE (min)	1000T/H
BULK MATERIALS (DENSITY)	COAL	0.9t/m³
	IRON ORE	2.5t/m³
MAXIMUM WHEEL LOAD (KIP) 1KIP=0.453592KG	IN OPERATION: DL+LL+IMPACT FACTOR	60T
	OUT THE OPERAITON WITH WIND 110M/H AND EMPTY HOPPER POSITIONED	60T
SEA-SIDE OUTREACH WITH BUCKET		35m
GANTRY SPAN		12.04m(39.5')
DISTANCE BETWEEN		
TROLLEY MAX. TRAVE		
BUCKET MAX. LEFT		
BUCKET TRAVEL BEL		
HOPPER VOLUME		100m³

Trolley Reeving
Travel Ropes

Hoist Reeving
Bucket Hoist/Close

View A

View B

View A

Luffing Reeving
Luffing Ropes

GANTRY ARRANGEMENT
1:75

List of Attachment

Grab of coal	40 t	2 pcs

NO.	SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	QTY/set	each WEIGHT	total WEIGHT	NOTE
PROJECT: ALABAMA-1000t/h shiploader			DESIGN STAGE:			SCALE: 1:150	
ITEM NAME: General Arrangement			DRAW NO: UL0500				
ZPMC	DSGN		TRACE		APP.		
	DRAW		CHCK		Q'TY/SET		
	CHCK		VER.		SET/CRANE		

ASBESTOS INSPECTOR CERTIFICATION

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

Asbestos Inspector

Tricia Defreitas

Alabama Accreditation Number

AIN03264852D48

Certificate Expiration Date

March 30, 2027

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

Environmental Services Manager

Associate Director for Environmental Programs

LEAD INSPECTOR CERTIFICATION

Alabama Lead-Based Paint Activities Accreditation Program

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of lead-based paint training
and qualifications of the person named below and confers this

Certificate of Accreditation

Lead Based Paint Inspector Re-Accreditation/Re-Registration

Tricia Defreitas

Alabama Accreditation Number

LIN0124852D48

Certificate Expiration Date

January 20, 2027

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program for the Registration and Accreditation of Lead Training Programs and Individuals engaged in Lead-Based Paint Activities. Alabama Administrative Code 822-X-1, July 27, 1998

Environmental Services Manager

Associate Director for Environmental Programs

RADIATION SAFETY TRAINING

FIELD ENVIRONMENTAL INSTRUMENTS, INC.

Congratulations on successfully completing FEI's Radiation Safety Training

Radiation Safety Training | Certificate of Completion

This certifies that

Tricia DeFreitas
CERM

Successfully completed the FEI Innov-X Systems Radiation Safety Tutorial for field portable X-Ray Fluorescence Spectrum Analyzers.

Training Presented by:
Mike Waltman
FEI Radiation Safety Officer

Completion date: 4/13/26