

**Watson, Rob**

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**From:** Rawe, Kimberly  
**Sent:** Thursday, March 4, 2021 8:35 AM  
**To:** Watson, Rob  
**Subject:** RE: 1770200010-RCRA-B167R2-incompleteness.docx

Rob,

The only other thing I noticed is that the font size is different for deficiency #12.

I did not find any other corrections that need to be made. Please consider this e-mail my "digital signature" for initialing the letter and add a copy of this email to the record under this log number.

Thanks,  
 Kim

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**Kimberly A. Rawe, P.G.**

**Groundwater Unit Manager  
 Bureau of Land, Permit Section  
 217/524-3860**

[kimberly.rawe@illinois.gov](mailto:kimberly.rawe@illinois.gov)




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**From:** Watson, Rob <Rob.Watson@Illinois.gov>  
**Sent:** Wednesday, March 3, 2021 4:14 PM  
**To:** Rawe, Kimberly <Kimberly.Rawe@Illinois.gov>  
**Subject:** FW: 1770200010-RCRA-B167R2-incompleteness.docx

Here ya go – note this letter needs to be revised as it does not include the necessary reference to the dates the application was dated and received.

**Rob Watson, P.E.  
 RCRA Unit Manager  
 Permit Section, Bureau of Land  
 Illinois EPA  
 217.524.3265  
[Rob.Watson@illinois.gov](mailto:Rob.Watson@illinois.gov)**

 Please consider the environment before printing this e-mail

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**From:** Crites, Mark <[Mark.Crites@Illinois.gov](mailto:Mark.Crites@Illinois.gov)>  
**Sent:** Wednesday, March 3, 2021 8:28 AM  
**To:** Watson, Rob <[Rob.Watson@Illinois.gov](mailto:Rob.Watson@Illinois.gov)>; Stine, Paula <[Paula.Stine@Illinois.gov](mailto:Paula.Stine@Illinois.gov)>  
**Subject:** 1770200010-RCRA-B167R2-incompleteness.docx

Corrected per Paula's comment this morning.

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**Watson, Rob**

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**From:** Stine, Paula  
**Sent:** Wednesday, March 3, 2021 8:31 AM  
**To:** Crites, Mark; Watson, Rob  
**Cc:** Rawe, Kimberly  
**Subject:** RE: 1770200010-RCRA-B167R2-incompleteness.docx

Thanks Mark! Please consider this e-mail as my initials.

Paula

---

**From:** Crites, Mark <Mark.Crites@Illinois.gov>  
**Sent:** Wednesday, March 3, 2021 8:28 AM  
**To:** Watson, Rob <Rob.Watson@Illinois.gov>; Stine, Paula <Paula.Stine@Illinois.gov>  
**Subject:** 1770200010-RCRA-B167R2-incompleteness.docx

Corrected per Paula's comment this morning.

---

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY <sup>R003468</sup>

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

March 21, 2024

Re: Modern Plating Corp (Illinois EPA BOL ID# 1770200010)  
RCRA/HW Permit (B-167R2)

To Distribution List:

In accordance with the Illinois EPA's Environmental Justice Policy, the Office of Environmental Justice wants to provide you with information about a potential action. The Illinois EPA is sending this letter to notify you of an application received by the Bureau of Land (BOL).

The Illinois EPA has received an application for a renewal of Resource Conservation and Recovery Act/ Hazardous Waste Permit [B-167R2] for Modern Plating Corp located at 701 S Hancock Avenue in Freeport. The application requests a renewal of post-closure hazardous waste permit.

The application is currently under review by the BOL.

If you would like to sign up to receive notifications by email, please visit the Illinois EPA Environmental Justice webpage: <https://epa.illinois.gov/topics/environmental-justice.html>

If you have questions about the application, please contact Chris Pressnall, Environmental Justice Coordinator at (217) 524-1284, [EPA.OEJ@Illinois.gov](mailto:EPA.OEJ@Illinois.gov).  
Sincerely,

Chris Pressnall, Environmental Justice Coordinator

2125 S. First Street, Champaign, IL 61820 (217) 278-5800  
115 S. LaSalle Street, Suite 2203, Chicago, IL 60603  
1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 (618) 346-5120  
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000

595 S. State Street, Elgin, IL 60123 (847) 608-3131  
2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200  
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022  
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

**Distribution List**

Modern Plating Corp – James R. Stenberg\*  
 State Senator Andrew S. Chesney - State Senate  
 District # 45\*  
 State Representative John M. Cabello - State  
 Representative District # 90\*  
 U.S. Representative Eric Sorensen - U.S.  
 Congressional District # 17\*  
 U.S. Senator Richard J. Durbin\*  
 U.S. Senator Tammy Duckworth\*  
 City of Freeport – Jodi Miller, Mayor\*  
 City of Freeport – City Council – Clerk\*  
 Stephenson County Board\*  
 Illinois NAACP – Gregory Norris\*  
 Illinois NAACP – Teresa Haley\*  
 American Lung Association of Illinois – Angela Tin\*  
 Respiratory Health Association - Brian P.  
 Urbaszewski\*  
 Sierra Club – Jack Darin\*  
 Sierra Club – Christine Nannicelli\*  
 Sierra Club – Mila Marshall\*  
 Faith in Place – Rev. Brian Sauder\*  
 Illinois Environmental Regulatory Group – Kelly  
 Thompson\*  
 Chemical Industry Council of Illinois – Lisa Frede\*

United States EPA – Kathy Triantafillou\*  
 IL Manufacturers' Association - Donovan Griffith\*  
 Shawnee Hills & Hollers – Georgia de la Garza\*  
 Shawnee Hills & Hollers – Sabrina Hardenbergh\*  
 Illinois Environmental Council – Jennifer Walling\*  
 LVEJO – Juliana Pino\*  
 Earthjustice – Jennifer Cassel\*  
 Earthjustice – Debbie Chizewer\*  
 Northwestern Pritzker School of Law – Robert A.  
 Weinstock\*  
 Great Rivers Environmental Law Center – Sarah  
 Rubenstein\*  
 Stericycle – Susan Olavarria\*  
 University of Illinois - Prairie Research Institute –  
 Debra Jacobson\*  
 Illinois Attorney General's Office – Andrew  
 Armstrong\*  
 Council of State Governments – Midwest – Jess  
 Lienhardt\*  
 Exxon Mobil Corporation – Brad Sims\*  
 Taft Law – Ryan Rudich\*  
 Mostardi Platt – Jena DiFiore\*  
 Energy Infrastructure Partners – Matt Kok\*  
 Dynamic Environmental Services – Kyle Webb\*

**\*Receiving E-Notifications**

**From:** Toledo, Erica  
**To:** Fullriede, Aidan S.  
**Subject:** RE: Modern Plating comments  
**Date:** Wednesday, November 6, 2024 12:07:46 PM  
**Attachments:** [image003.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[image011.png](#)

Hi Aidan,

No comments at this time from the field perspective except that the leachate collection system has never pumped any leachate out of the system. I don't see any leachate collection system inspection forms in their submittals.

Thank you,



**Erica Toledo | Environmental Protection Geologist**

Bureau of Land - Field Operations Section

Illinois Environmental Protection Agency

4302 North Main Street  
Rockford, IL 61103

(815) 987-7414

(815) 312-6320

[Erica.Toledo@illinois.gov](mailto:Erica.Toledo@illinois.gov)

<https://epa.illinois.gov/>

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**From:** Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>

**Sent:** Wednesday, November 6, 2024 8:19 AM

**To:** Toledo, Erica <Erica.Toledo@Illinois.gov>

**Subject:** Modern Plating comments

Hi Erica,

This is Aidan Fullriede, the RCRA Permit groundwater reviewer for Modern Plating Corp. I am putting together my review for MPC's in-house Permit renewal application, and wanted to ask you if there are any comments specifically regarding groundwater that I should include from the field office (that wouldn't necessarily show up in the application itself). If you have any comments, please let me know and I will be sure to include them in my memo. Thank you!

All the best,  
Aidan

**Aidan Fullriede**  
Environmental Protection Geologist  
Illinois EPA  
Bureau of Land, Permit Section  
(815) 419-7879  
[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)



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**Sanders, Collier**

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**From:** Fullriede, Aidan S.  
**Sent:** Wednesday, March 5, 2025 2:07 PM  
**To:** Sanders, Collier  
**Subject:** Modern Plating Corp - groundwater technical review memorandums  
**Attachments:** 1770200010-RCRA-B167R2-Cost Estimate Review.docx; 1770200010-RCRA-B167R2-Technical Review.docx

Hi Collier!

I just wanted to send you an electronic copy of these in case you prefer electronic copies (and so you don't have to retype everything). I changed a couple of items that Lina had already added in the letter she was preparing, but it should be easy enough to go through and change that. The physical copies are the ones that will actually go in the package, though, with Amy Butler and I's initials. As always, if you have any groundwater related questions feel free to let me know. Thank you!

All the best,  
Aidan

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**Aidan Fullriede**

Environmental Protection Geologist  
Illinois EPA  
Bureau of Land, Permit Section  
(217) 557-8770  
[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)



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**Sanders, Collier**

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**From:** Pisula, Teresa I.  
**Sent:** Thursday, March 6, 2025 5:02 PM  
**To:** Halteman, Takako; Gibbons, Joyce; Toledo, Erica; Jarvis, Melanie; Cooperider, Jacki  
**Cc:** Butler, Amy; Sanders, Collier; Fullriede, Aidan S.; Rhoades, Joshua  
**Subject:** RE: NIPLA teleconference re: Modern Plating Corp.  
**Attachments:** VN L-2023-00363 (2).pdf

VN and Inspection Report are attached.

Teresa I. Pisula  
 Assistant Counsel  
 Division of Legal Counsel  
 Illinois Environmental Protection Agency  
 (217) 524-3280  
[Teresa.Pisula@illinois.gov](mailto:Teresa.Pisula@illinois.gov)



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**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Thursday, March 6, 2025 4:54 PM  
**To:** Pisula, Teresa I. <Teresa.Pisula@Illinois.gov>; Gibbons, Joyce <Joyce.Gibbons@Illinois.gov>; Toledo, Erica <Erica.Toledo@Illinois.gov>; Jarvis, Melanie <Melanie.Jarvis@Illinois.gov>; Cooperider, Jacki <Jacki.Cooperider@Illinois.gov>  
**Cc:** Butler, Amy <Amy.Butler@Illinois.Gov>; Sanders, Collier <Collier.Sanders@Illinois.gov>; Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>; Rhoades, Joshua <Joshua.Rhoades@Illinois.gov>  
**Subject:** RE: NIPLA teleconference re: Modern Plating Corp.

I am including the permit engineer and geologist, Amy Butler and Josh Rhoades in this email request for a meeting with the facility.

Could someone forward us the VN and Inspection report associated with the VN?

Thank you,  
 Takako

**From:** Pisula, Teresa I. <Teresa.Pisula@Illinois.gov>  
**Sent:** Thursday, March 6, 2025 3:09 PM  
**To:** Gibbons, Joyce <Joyce.Gibbons@Illinois.gov>; Toledo, Erica <Erica.Toledo@Illinois.gov>; Jarvis, Melanie <Melanie.Jarvis@Illinois.gov>; Cooperider, Jacki <Jacki.Cooperider@Illinois.gov>; Halteman, Takako

<Takako.Halteman@Illinois.gov>

Subject: NIPLA teleconference re: Modern Plating Corp.

Good afternoon,

Attorney Larry Falbe on behalf of Modern Plating Corp. has contacted the Agency in response to having received the attached Notice of Intent. Please confirm your availability for a teleconference on either of the following dates:

Wednesday, March 19<sup>th</sup> at 9:00am

Friday, March 21<sup>st</sup> at 9:00am

Thank you,

Teresa

Teresa I. Pisula

Assistant Counsel

Division of Legal Counsel

Illinois Environmental Protection Agency

(217) 524-3280

[Teresa.Pisula@Illinois.gov](mailto:Teresa.Pisula@Illinois.gov)



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**Sanders, Collier**

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**From:** Boes, Maxwell G.  
**Sent:** Thursday, April 17, 2025 12:02 PM  
**To:** Sanders, Collier  
**Subject:** RE: Modern Plating Site Visit

That sounds about right. I'm going to put this into the unified file so I can share it with FOS folks if needed.



**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

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Rockford, IL 61103

(815) 987-4961

 [Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

(815) 391-1294

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---

**From:** Sanders, Collier <Collier.Sanders@Illinois.gov>

**Sent:** Thursday, April 17, 2025 11:59 AM

**To:** Boes, Maxwell G. <Maxwell.Boes@Illinois.gov>; Halteman, Takako <Takako.Halteman@Illinois.gov>

**Cc:** Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>; Nguyen, Thomas M. <Thomas.Nguyen@Illinois.gov>

**Subject:** RE: Modern Plating Site Visit

Here is a link to a onedrive with a copy of the C prints (permit application B167-R2), Appendix Q(B167-R2), and Attachment B (B167R-M12). The files combined are to large to share directly via email.

[Modern Plating](#)

**From:** Boes, Maxwell G. <Maxwell.Boes@Illinois.gov>

**Sent:** Thursday, April 17, 2025 11:42 AM

**To:** Sanders, Collier <Collier.Sanders@Illinois.gov>; Halteman, Takako <Takako.Halteman@Illinois.gov>

**Cc:** Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>; Nguyen, Thomas M. <Thomas.Nguyen@Illinois.gov>

**Subject:** RE: Modern Plating Site Visit

Is that the original permit application? Could you send that over?



**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

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 [Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

(815) 391-1294

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**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Thursday, April 17, 2025 11:38 AM  
**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>  
**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>  
**Subject:** RE: Modern Plating Site Visit

Appendix Q has the construction documentation. Page 137 has installation pictures, 443 has the pump house shelter, 439 has the pump specs, and there are specs for other things like the flow sensors is that what you are referring to? Appendix C also contains prints showing CAMU construction.

**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Sent:** Thursday, April 17, 2025 11:24 AM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>  
**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>  
**Subject:** RE: Modern Plating Site Visit

Do we have any of the engineering diagrams for the CAMU?



### **Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

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<https://epa.illinois.gov/>

**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, April 15, 2025 12:04 PM  
**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>  
**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>  
**Subject:** RE: Modern Plating Site Visit

The O&M is not in the current Permit renewal application. The “tables” section in the application has B-1 & B-2 which are updated versions of the attachment B on page 53 of the current Permit. There is also a B-3 which could help establish the PM work done if they are using it, but it is not in the existing permit, just the application for renewal, so they may not be using it yet.

**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Sent:** Tuesday, April 15, 2025 11:47 AM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>  
**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>  
**Subject:** RE: Modern Plating Site Visit

It would be nice if that was included as an attachment. Is it in the permit application?

### **Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section



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<https://epa.illinois.gov/>

**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>

**Sent:** Tuesday, April 15, 2025 11:42 AM

**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>

**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>

**Subject:** RE: Modern Plating Site Visit

Attached is the current Permit. There are some records I would be interested in. I would like a copy of the Operations and Maintenance (O&M) manual that Attachment B in the permit refers to. The Preventative Maintenance (PM) Checklist that refers to the O&M can be found starting on page 53 of the attached document. I would like to see what has been done as part of the regular PM process.

**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Sent:** Tuesday, April 15, 2025 11:18 AM

**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>; Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>

**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyen, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>

**Subject:** RE: Modern Plating Site Visit

li Collier,

I can confirm that we will be meeting at the modern plating facility this Friday, April 18<sup>th</sup>. I reached out to the facility and told them to expect us around 10:00 A.M. (but to expect a bit of flex with the long drive) because Erica suggested they may want to consultant-up for the inspection. I have no problem with that because I prefer to ask my questions on-site over having them email me the information later. I thought that late morning would work well so Springfield folks wouldn't be coming in or staying too early/late. Looks like it's about 3 hours and 15 minutes of driving 😊. I'd be happy to meet with you after the inspection. We could use the conference room in the Rockford Office.

Erica and I visited the site about a year ago for an O&M inspection, so I have seen the majority of the site before. As I recall, the PPE you listed below should be more than enough to get you on site. Most of the plating-related activity is contained within the building, so I'd say the main safety concern is the fact that the CAMU is sitting on top of a wetland area, so I recommend some muck boots, or at least a backup pair of shoes. I can bring a 4-gas meter so we can check any wells we feel the need to crack open before we inspect them. Last time there was not safety video, and they didn't try to get me to sign a waiver either.

As far as documents are concerned, I'd love to see the RCRA permit. I've been able to find plenty of info on Docuware, but the RCRA permits I don't usually find on there.

Based on what I know at present, I'm most concerned that their pump is functional at the time of the inspection, that leachate head is controlled to whatever depth or elevation is listed within the permit, and that the monitoring point has been surveyed in a way that satisfies their permit. That said, I'm going to be digging into the details tomorrow and Thursday so I can go with a good grip on what has happened. Is there anything specific you would like to see while we're on-site?

The way I see it is if permits folks want to come up, we should take our time so that you can get everything out of the visit that you need to.

Thanks for joining me on this inspection,  
Max Boes



### Maxwell Boes | Environmental Protection Geologist


Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

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 (815) 391-1294

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**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>

**Sent:** Tuesday, April 15, 2025 10:19 AM

**To:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>; Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Cc:** Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>; Nguyễn, Thomas M. <[Thomas.Nguyen@Illinois.gov](mailto:Thomas.Nguyen@Illinois.gov)>

**Subject:** Modern Plating Site Visit

Takako,

As you are aware Friday April 18<sup>th</sup> 2025 we have an on site visit with Modern Plating, located at 701 S. Hancock Ave. Freeport IL. The purpose of this site visit is to join a field inspection to resolve a violation notice (L-2023-00363) this will also benefit the attendees to get a better idea of the site conditions and operations. So far, the Attendees will be you (RCRA unit manager), me (Permit Engineer for the site), Aiden Fullriede (site Geologist), Thomas Nguyen (Permitting, attending for educational benefits), and Max Boes (Field Office Inspector). I believe if we leave at 7AM and return to office by 5PM that will cause the need for some overtime.

Max,  
I would appreciate a confirmation for the time and location, additionally if you have time after the inspection for a meeting with the team it would be appreciated. If you could answer a few questions for me, it would be appreciated. Are there any materials you need from me before our site visit? The personal protective equipment we will be wearing will consist of a high vis vest, steel toed boots, safety glasses, and a hard hat. Is there any additional PPE we need or safety procedures we should familiarize ourselves with before the site visit?

Thank you!



### Collier Sanders (He/Him)

Environmental Protection Engineer I

Bureau of Land

Permits -- RCRA Unit

217-786-0749

[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Sanders, Collier**

**From:** Boes, Maxwell G.  
**Sent:** Monday, April 21, 2025 1:25 PM  
**To:** Sanders, Collier  
**Cc:** Halteman, Takako  
**Subject:** RE: Drawing 11R

Hi Collier,

Please send me the survey data for the 2021 permit renewal when you have the chance. If there's a topo map, that would help me as well.

Thanks,  
 Max

**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

4302 North Main Street  
 Rockford, IL 61103

(815) 987-4961

(815) 391-1294

[Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

<https://epa.illinois.gov/>

**From:** Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Sent:** Monday, April 21, 2025 9:55 AM  
**To:** Boes, Maxwell G. <Maxwell.Boes@Illinois.gov>  
**Cc:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** Drawing 11R

Max,

Drawing 11R has a sheet 2 that I uploaded that shows the depth where the pump is activated. I added the second sheet after realizing it was not uploaded to the drawings I gave you. It shows the pump on at 757 feet and pump off at 755. This would allow 2 feet of leachate but contradicts a permit condition set in section II subsection 6.e (page 11 of the 167R-M12 Permit) that states "The leachate collection and removal system for the CAMU shall be operated and maintained such that the depth of the leachate over the liner in Phase 1 and Phase 2 of the CAMU does not exceed more than 1 foot (30 cm)". subsections 6.f and 6.g use verbiage that agrees with the print. I hope this assists you, and my profuse apologies for not catching the second sheet earlier, but neither sheet is labeled as "1 of 2" or "2 of 2".

**Collier Sanders (He/Him)**

Environmental Protection Engineer I

Bureau of Land

Permits -- RCRA Unit

217-786-0749



| [collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Sanders, Collier**

---

**From:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Sent:** Wednesday, April 30, 2025 5:44 PM  
**To:** Sanders, Collier  
**Cc:** Gerald Reed; Samson, Curtis; Halteman, Takako  
**Subject:** [External] RE: Modern Plating CAMU Information  
**Attachments:** 20250424095158.pdf

Hi Collier, I put the wrong pdf for the pump. I attached the correct one here.

Regards,

**Brandon Smith**  
 President / CEO  
 Modern Plating Corporation  
 701 S. Hancock Ave  
 Freeport, IL 61032

**(815) 235-3111 Phone**

**(815) 235-4571 Fax**

*Visit our new website at [www.modernplating.com](http://www.modernplating.com)*

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**From:** Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Sent:** Wednesday, April 30, 2025 3:38 PM  
**To:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Cc:** Gerald Reed <greed@fehrgraham.com>; Samson, Curtis <Curtis.Samson@Illinois.gov>; Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** RE: Modern Plating CAMU Information

**WARNING:** This email originated from outside of Modern Plating Co. DO NOT click links or open attachments unless you recognize the sender and know the content is safe.

Thank you for the documents, however, it appears no documents are attached for the pump itself. What I need must provide the procedures tables B-1 and B-2 that the current application is referencing. The pump, liquid level sensor, and pressure transducer all refer to their respective O&M manuals. I will need to verify if I can accept the email from the manufacturer as a substitute.

**From:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Sent:** Wednesday, April 30, 2025 10:07 AM  
**To:** Sanders, Collier <Collier.Sanders@Illinois.gov>

---

**INSTALLATION, OPERATION,  
AND MAINTENANCE MANUAL**  
WITH PARTS LIST



**10 SERIES PUMP**

MODEL
<b>11 1/2A20-B</b>

**GORMAN-RUPP PUMPS**

[www.grpumps.com](http://www.grpumps.com)

Register your new  
Gorman-Rupp pump online at  
**[www.grpumps.com](http://www.grpumps.com)**

Valid serial number and e-mail address required.

**RECORD YOUR PUMP MODEL AND SERIAL NUMBER**

Please record your pump model and serial number in the spaces provided below. Your Gorman-Rupp distributor needs this information when you require parts or service.

Pump Model: \_\_\_\_\_

Serial Number: \_\_\_\_\_

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## INTRODUCTION

**Thank You** for purchasing a Gorman-Rupp pump. **Read this manual** carefully to learn how to safely install and operate your pump. Failure to do so could result in personal injury or damage to the pump.

Because pump installations are seldom identical, this manual cannot possibly provide detailed instructions and precautions for every aspect of each specific application. Therefore, it is the responsibility of the owner/installer of the pump to ensure that applications not addressed in this manual are performed **only** after establishing that neither operator safety nor pump integrity are compromised by the installation. Pumps and related equipment **must** be installed and operated according to all national, local and industry standards.

If there are any questions regarding the pump or its application which are not covered in this manual or in other literature accompanying this unit, please contact your Gorman-Rupp distributor, or The Gorman-Rupp Company:

**The Gorman-Rupp Company**  
P.O. Box 1217  
Mansfield, Ohio 44901-1217  
Phone: (419) 755-1011  
or:  
**Gorman-Rupp of Canada Limited**  
70 Burwell Road  
St. Thomas, Ontario N5P 3R7  
Phone: (519) 631-2870

For information or technical assistance on the power source, contact the power source manufacturer's local dealer or representative.

## HAZARD AND INSTRUCTION DEFINITIONS

The following are used to alert maintenance personnel to procedures which require special attention, to those which could damage equipment, and to those which could be dangerous to personnel:



**Immediate hazards which WILL result in severe personal injury or death. These instructions describe the procedure required and the injury which will result from failure to follow the procedure.**



**Hazards or unsafe practices which COULD result in severe personal injury or death. These instructions describe the procedure required and the injury which could result from failure to follow the procedure.**



Hazards or unsafe practices which COULD result in minor personal injury or product or property damage. These instructions describe the requirements and the possible damage which could result from failure to follow the procedure.

### NOTE

*Instructions to aid in installation, operation, and maintenance or which clarify a procedure.*

## SAFETY - SECTION A

This information applies to 10 Series basic pumps. Gorman-Rupp has no control over or particular knowledge of the power source which will be used. Refer to the manual accompanying the power source before attempting to begin operation.

This manual will alert personnel to known procedures which require special attention, to those which could damage equipment, and to those which could be dangerous to personnel. However, this manual cannot possibly anticipate and provide detailed instructions and precautions for every situation that might occur during maintenance of the unit. Therefore, it is the responsibility of the owner/maintenance personnel to ensure that only safe, established maintenance procedures are used, and that any procedures not addressed in this manual are performed only after establishing that neither personal safety nor pump integrity are compromised by such practices.



Before attempting to open or service the pump:

1. Familiarize yourself with this manual.
2. Lock out or disconnect the power source to ensure that the pump will remain inoperative.
3. Allow the pump to completely cool if overheated.
4. Check the temperature before opening any covers, plates, or plugs.

5. Close the suction and discharge valves.
6. Vent the pump slowly and cautiously.
7. Drain the pump.



This pump is designed to handle most non-volatile, non-flammable liquids containing specified entrained solids. Do not attempt to pump liquids which may damage the pump or endanger personnel as a result of pump failure.



Death or serious personal injury and damage to the pump or components can occur if proper lifting procedures are not observed. Make certain that hoists, chains, slings or cables are in good working condition and of sufficient capacity and that they are positioned so that loads will be balanced and the pump or components will not be damaged when lifting. Suction and discharge hoses and piping must be removed from the pump before lifting. Lift the pump or component only as high as necessary and keep personnel away from suspended objects.



After the pump has been installed, make certain that the pump and all piping or hose connections are tight, properly supported and secure before operation.

**WARNING!**

Do not operate the pump without the shields and/or guards in place over the drive shaft, belts, and/or couplings, or other rotating parts. Exposed rotating parts can catch clothing, fingers, or tools, causing severe injury to personnel.

**WARNING!**

Do not operate the pump against a closed discharge valve for long periods of time. If operated against a closed discharge valve, pump components will deteriorate, and the liquid could come to a boil, build pressure, and cause the pump casing to rupture or explode.

**WARNING!**

Overheated pumps can cause severe burns and injuries. If overheating of the pump occurs:

1. Stop the pump immediately.
2. Ventilate the area.
3. Allow the pump to completely cool.
4. Check the temperature before opening any covers, plates, gauges, or plugs.
5. Vent the pump slowly and cautiously.
6. Refer to instructions in this manual before restarting the pump.

**WARNING!**

Do not remove plates, covers, gauges, pipe plugs, or fittings from an overheated pump. Vapor pressure within the pump can cause parts being disengaged to be ejected with great force. Allow the pump to completely cool before servicing.

**WARNING!**

Never run this pump backwards. Be certain that rotation is correct before fully engaging the pump.

**CAUTION**

Pumps and related equipment must be installed and operated according to all national, local and industry standards.

## INSTALLATION – SECTION B

### Review all SAFETY information in Section A.

Since pump installations are seldom identical, this section offers only general recommendations and practices required to inspect, position, and arrange the pump and piping.

Most of the information pertains to a standard **static lift** application where the pump is positioned above the free level of liquid to be pumped.

If installed in a **flooded suction application** where the liquid is supplied to the pump under pressure, some of the information such as mounting, line configuration, and priming must be tailored to the

specific application. Since the pressure supplied to the pump is critical to performance and safety, **be sure** to limit the incoming pressure to 50% of the maximum permissible operating pressure as shown on the pump performance curve (see Section E, Page 1).

For further assistance, contact your Gorman-Rupp distributor or the Gorman-Rupp Company.

### Pump Dimensions

See Figure 1 for the approximate physical dimensions of this pump.

### OUTLINE DRAWING

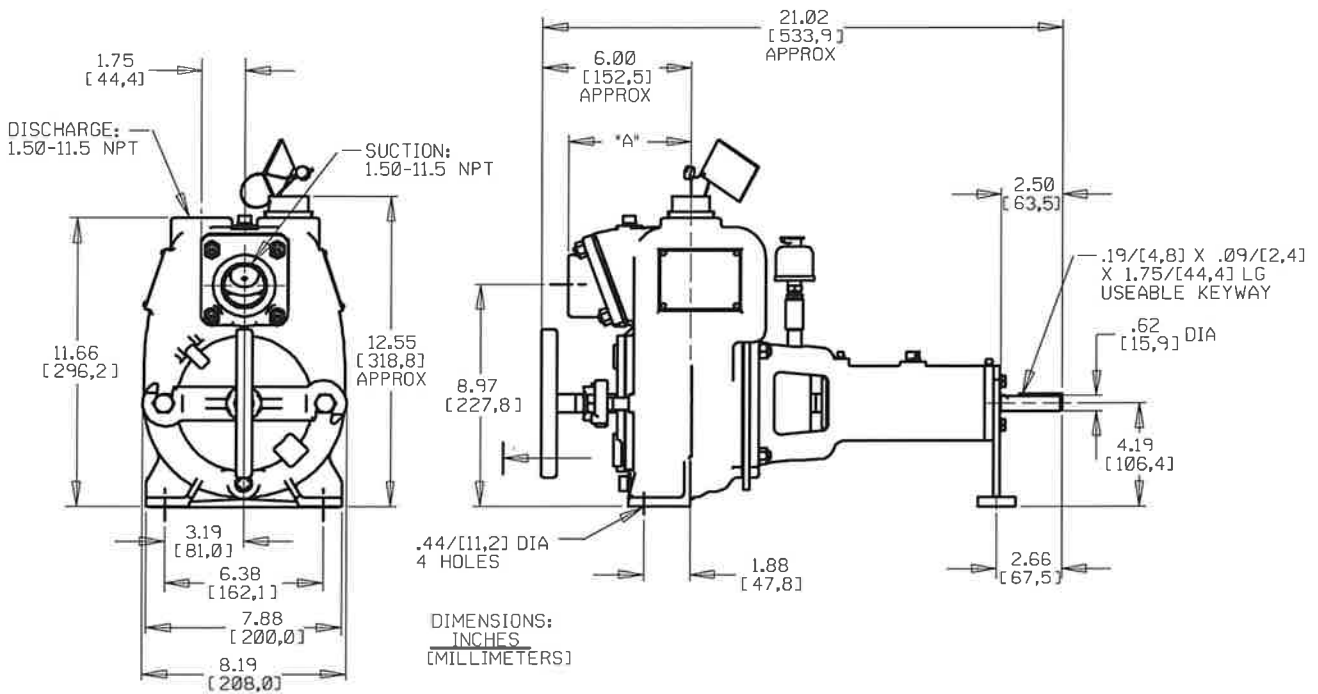


Figure 1. Pump Model 11 1/2A20-B

## PREINSTALLATION INSPECTION

The pump assembly was inspected and tested before shipment from the factory. Before installation, inspect the pump for damage which may have occurred during shipment. Check as follows:

- a. Inspect the pump for cracks, dents, damaged threads, and other obvious damage.
- b. Check for and tighten loose attaching hardware. Since gaskets tend to shrink after drying, check for loose hardware at mating surfaces.
- c. Carefully read all tags, decals, and markings on the pump assembly, and perform all duties indicated.



Only operate this pump in the direction indicated by the arrow on the pump body and on the accompanying decal. Otherwise, the impeller could become loosened from the shaft and seriously damage the pump. Refer to **Rotation** in **OPERATION**, Section C.

- d. Check levels and lubricate as necessary. Refer to **LUBRICATION** in the **MAINTENANCE AND REPAIR** section of this manual and perform duties as instructed.
- e. If the pump has been stored for more than 12 months, some of the components or lubricants may have exceeded their maximum shelf life. These **must be inspected or replaced** to ensure maximum pump service.

If the maximum shelf life has been exceeded, or if anything appears to be abnormal, contact your Gorman-Rupp distributor or the factory to determine the repair or updating policy. **Do not** put the pump into service until appropriate action has been taken.

## POSITIONING PUMP



**Death or serious personal injury and damage to the pump or components can occur if proper lifting procedures are not observed. Make certain that hoists, chains, slings or cables are in good working condition and of sufficient capacity and that they are positioned so that loads will be balanced and the pump or components will not be damaged when lifting. Suction and discharge hoses and piping must be removed from the pump before lifting. Lift the pump or component only as high as necessary and keep personnel away from suspended objects.**

### Lifting

Pump unit weights will vary depending on the mounting and drive provided. Check the shipping tag on the unit packaging for the actual weight, and use lifting equipment with appropriate capacity. Drain the pump and remove all customer-installed equipment such as suction and discharge hoses or piping before attempting to lift existing, installed units.

### Mounting

Locate the pump in an accessible place as close as practical to the liquid being pumped. Level mounting is essential for proper operation.

The pump may have to be supported or shimmed to provide for level operation or to eliminate vibration.

### Clearance

It is recommended that **18 inches (457 mm)** of clearance be provided in front of the back cover to permit removal of the cover and easy access to the pump interior. A **minimum** clearance of **6 inches (152,4 mm)** must be maintained to permit removal of the cover.

## SUCTION AND DISCHARGE PIPING

Pump performance is adversely effected by increased suction lift, discharge elevation, and friction losses. See the performance curve on Page E-1 to be sure your overall application allows pump to operate within the safe operation range.

### Materials

Either pipe or hose maybe used for suction and discharge lines; however, the materials must be compatible with the liquid being pumped. If hose is used in suction lines, it must be the rigid-wall, reinforced type to prevent collapse under suction. Using piping couplings in suction lines is not recommended.

### Line Configuration

Keep suction and discharge lines as straight as possible to minimize friction losses. Make minimum use of elbows and fittings, which substantially increase friction loss. If elbows are necessary, use the long-radius type to minimize friction loss.

### Connections to Pump

Before tightening a connecting flange, align it exactly with the pump port. Never pull a pipe line into place by tightening the flange bolts and/or couplings.

Lines near the pump must be independently supported to avoid strain on the pump which could cause excessive vibration, decreased bearing life, and increased shaft and seal wear. If hose-type lines are used, they should have adequate support to secure them when filled with liquid and under pressure.

### Gauges

Most pumps are drilled and tapped for installing discharge pressure and vacuum suction gauges. If these gauges are desired for pumps that are not tapped, drill and tap the suction and discharge lines not less than 18 inches (457,2 mm) from the suction and discharge ports and install the lines.

Installation closer to the pump may result in erratic readings.

## SUCTION LINES

To avoid air pockets which could affect pump priming, the suction line must be as short and direct as possible. When operation involves a suction lift, the line must always slope upward to the pump from the source of the liquid being pumped; if the line slopes down to the pump at any point along the suction run, air pockets will be created.

### Fittings

Suction lines should be the same size as the pump inlet. If reducers are used in suction lines, they should be the eccentric type, and should be installed with the flat part of the reducers uppermost to avoid creating air pockets. Valves are not normally used in suction lines, but if a valve is used, install it with the stem horizontal to avoid air pockets.

### Strainers

If a strainer is furnished with the pump, be certain to use it; any spherical solids which pass through a strainer furnished with the pump will also pass through the pump itself.

If a strainer is not furnished with the pump, but is installed by the pump user, make certain that the total area of the openings in the strainer is at least three or four times the cross section of the suction line, and that the openings will not permit passage of solids larger than the solids handling capability of the pump.

This pump is designed to handle up to 1 inch (25,4 mm) diameter spherical solids.

### Sealing

Since even a slight leak will affect priming, head, and capacity, especially when operating with a high suction lift, all connections in the suction line should be sealed with pipe dope to ensure an airtight seal. Follow the sealant manufacturer's recommendations when selecting and applying the pipe dope. The pipe dope should be compatible with the liquid being pumped.

**Suction Lines In Sumps**

If a single suction line is installed in a sump, it should be positioned away from the wall of the sump at a distance equal to 1-1/2 times the diameter of the suction line.

If there is a liquid flow from an open pipe into the sump, the flow should be kept away from the suction inlet because the inflow will carry air down into the sump, and air entering the suction line will reduce pump efficiency.

If it is necessary to position inflow close to the suction inlet, install a baffle between the inflow and the suction inlet at a distance 1-1/2 times the diameter of the suction pipe. The baffle will allow entrained air to escape from the liquid before it is drawn into the suction inlet.

If two suction lines are installed in a single sump, the flow paths may interact, reducing the efficiency

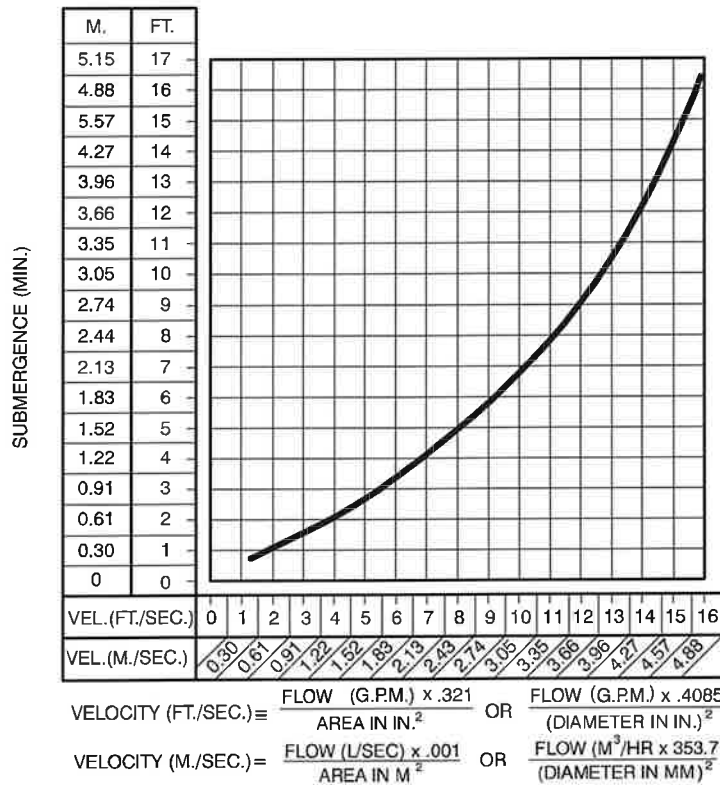
of one or both pumps. To avoid this, position the suction inlets so that they are separated by a distance equal to at least 3 times the diameter of the suction pipe.

**Suction Line Positioning**

The depth of submergence of the suction line is critical to efficient pump operation. Figure 2 shows recommended minimum submergence vs. velocity.

**NOTE**

*The pipe submergence required may be reduced by installing a standard pipe increaser fitting at the end of the suction line. The larger opening size will reduce the inlet velocity. Calculate the required submergence using the following formula based on the increased opening size (area or diameter).*



**Figure 2. Recommended Minimum Suction Line Submergence vs. Velocity**

## DISCHARGE LINES

### Siphoning

Do not terminate the discharge line at a level lower than that of the liquid being pumped unless a siphon breaker is used in the line. Otherwise, a siphoning action causing damage to the pump could result.

### Valves

If a throttling valve is desired in the discharge line, use a valve as large as the largest pipe to minimize friction losses. Never install a throttling valve in a suction line.

A check valve in the discharge line is normally recommended, but it is not necessary in low discharge head applications.

With high discharge heads, it is recommended that a throttling valve and a system check valve be installed in the discharge line to protect the pump from excessive shock pressure and reverse rotation when it is stopped.



If the application involves a high discharge head, gradually close the discharge throttling valve before stopping the pump.

### Bypass Lines

Self-priming pumps are not air compressors. During the priming cycle, air from the suction line must be vented to atmosphere on the discharge side. If the discharge line is open, this air will be vented through the discharge. However, if a check valve has been installed in the discharge line, the discharge side of the pump must be opened to atmospheric pressure through a bypass line installed between the pump discharge and the check valve. A self-priming centrifugal pump **will not prime** if there is sufficient static liquid head to hold the discharge check valve closed.

## NOTE

*The bypass line should be sized so that it does not affect pump discharge capacity; however, the bypass line should be at least 1 inch (25,4 mm) in diameter to minimize the chance of plugging.*

In **low discharge head applications** (less than 30 feet (9,1 m)), it is recommended that the bypass line be run back to the wet well, and located 6 inches below the water level or cut-off point of the low level pump. In some installations, this bypass outline may be terminated with a six-to-eight foot (1,8 to 2,4 m) length of 1-1/4 inch (31,8 mm) I.D. **smooth-bore** hose; air and liquid vented during the priming process will then agitate the hose and break up any solids, grease, or other substances likely to cause clogging.



A bypass line that is returned to a wet well must be secured against being drawn into the pump suction inlet.

It is also recommended that pipe unions be installed at each 90° elbow in a bypass line to ease disassembly and maintenance.

In **high discharge head applications** (more than 30 feet (9,1 m)), an excessive amount of liquid may be bypassed and forced back to the wet well under the full working pressure of the pump; this will reduce overall pumping efficiency. **Therefore, it is recommended that a Gorman-Rupp Automatic Air Release Valve be installed in the bypass line.**

Gorman-Rupp Automatic Air Release Valves are reliable, and require minimum maintenance. See **Automatic Air Release Valves** in this section for installation and theory of operation of the Automatic Air Release Valve. Consult your Gorman-Rupp distributor, or contact the Gorman-Rupp Company for selection of an Automatic Air Release Valve to fit your application.



Except in certain specific applications (to prevent flooding during service of an automatic air release valve in a below-ground lift station), if a manual shut-off valve is installed **anywhere** in a bypass line, it **must** be a full-opening, **ball-type** valve to prevent plugging by solids.



A manual shut-off valve should not be installed in any bypass line. A manual shut-off valve may inadvertently be left closed during operation. A pump which has lost prime may continue to operate without reaching prime, causing dangerous overheating and possible explosive rupture of the pump casing. Personnel could be severely injured.

Allow an over-heated pump to completely cool before servicing. Do not remove plates, covers, gauges, or fittings from an over-heated pump. Liquid within the pump can reach boiling temperatures, and vapor pressure within the pump can cause parts being disengaged to be ejected with great force. Af-

ter the pump completely cools, drain the liquid from the pump by removing the casing drain plug. Use caution when removing the plug to prevent injury to personnel from hot liquid.

### AUTOMATIC AIR RELEASE VALVE

When properly installed, a Gorman-Rupp Automatic Air Release Valve will permit air to escape through the bypass line and then close automatically when the pump is fully primed and pumping at full capacity.

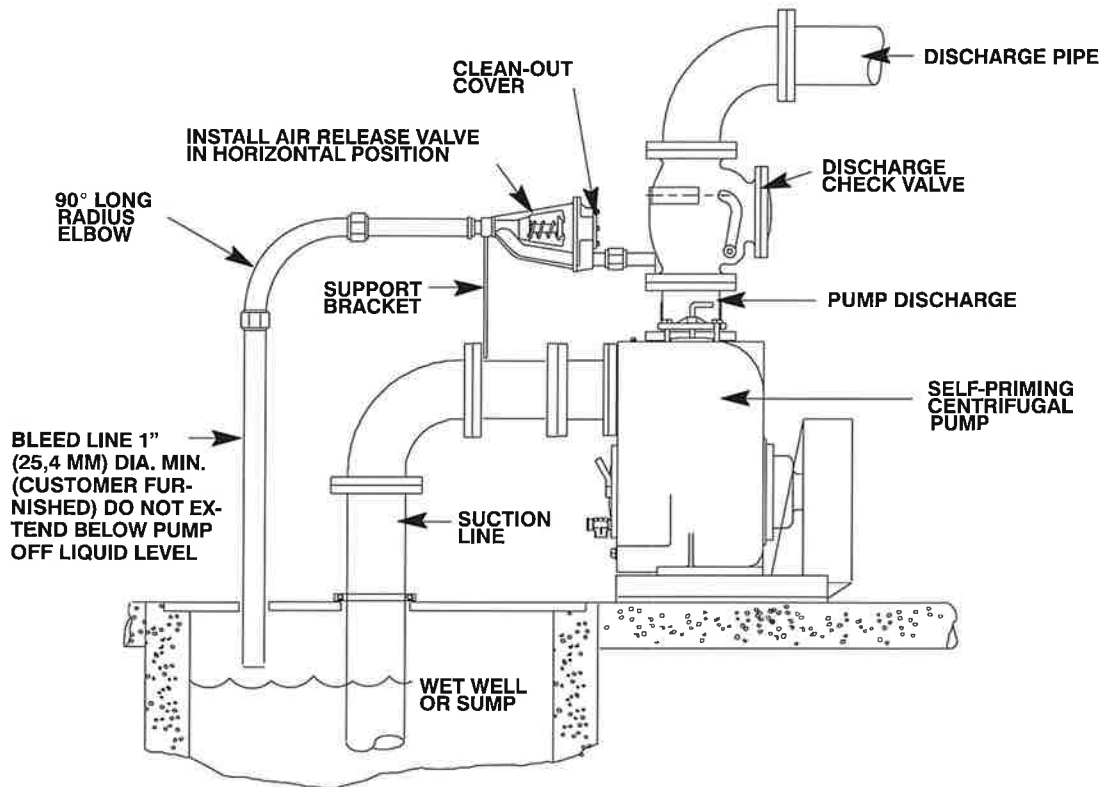


**Some leakage (1 to 5 gallons [3.8 to 19 liters] per minute) will occur when the valve is fully closed. Be sure the bypass line is directed back to the wet well or tank to prevent hazardous spills.**

Consult the manual accompanying the Air Release Valve for additional information on valve installation and performance.

#### Air Release Valve Installation

The Automatic Air Release Valve must be independently mounted in a horizontal position between the pump discharge port and the inlet side of the discharge check valve (see Figure 3). The inlet opening in the Air Release Valve is equipped with standard 1-inch NPT pipe threads.



**Figure 3. Typical Automatic Air Release Valve Installation**

Connect the valve outlet to a bleed line which slopes back to the wet well or sump. The bleed line must be the same size as the outlet opening or larger, depending on which Air Release Valve is being used. If **piping** is used for the bleed line, avoid the use of elbows whenever possible.

#### NOTE

*For multiple pump installations, it is recommended that each Air Release Valve be fitted with an independent bleeder line directed back to the wet well. If multiple Air Release Valves are installed in a system, **do not** direct bleeder lines to a common manifold pipe. Contact your Gorman-Rupp distributor or the Gorman-Rupp Company for information about installation of an Automatic Air Release Valve for your specific application.*

#### ALIGNMENT

The alignment of the pump and its power source is

critical for trouble-free mechanical operation. In either a flexible coupling or V-belt driven system, the driver and pump must be mounted so that their shafts are aligned with and parallel to each other. It is imperative that alignment be checked after the pump and piping are installed, and before operation.

#### NOTE

*Check **Rotation**, Section C, before final alignment of the pump.*

When mounted at the Gorman-Rupp factory, driver and pump are aligned before shipment. Misalignment will occur in transit and handling. Pumps **must** be checked and realigned before operation. Before checking alignment, tighten the foundation bolts. The pump casing feet and/or pedestal feet, and the driver mounting bolts should also be tightly secured.



When checking alignment, disconnect the power source to ensure that the pump will remain inoperative.



Adjusting the alignment in one direction may alter the alignment in another direction. Check each procedure after altering alignment.

**Coupled Drives**

When using couplings, the axis of the power source must be aligned to the axis of the pump shaft in both the horizontal and vertical planes. Most couplings require a specific gap or clearance between the driving and the driven shafts. Refer to the coupling manufacturer's service literature.

Align spider insert type couplings by using calipers to measure the dimensions on the circumference of the outer ends of the coupling hub every 90°. The coupling is in alignment when the hub ends are the same distance apart at all points (see Figure 4A).

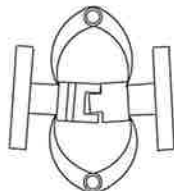


Figure 4A. Aligning Spider Type Couplings

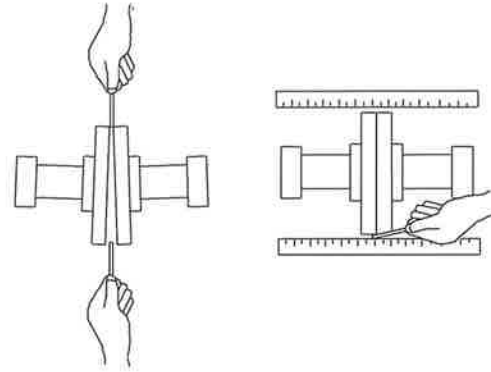


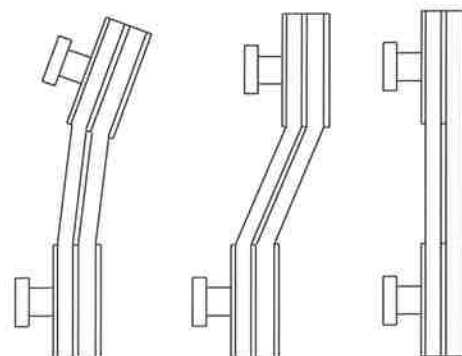
Figure 4B. Aligning Non-Spider Type Couplings

Align non-spider type couplings by using a feeler gauge or taper gauge between the coupling halves every 90°. The coupling is in alignment when the hubs are the same distance apart at all points (see Figure 4B).

Check parallel adjustment by laying a straightedge across both coupling rims at the top, bottom, and side. When the straightedge rests evenly on both halves of the coupling, the coupling is in horizontal parallel alignment. If the coupling is misaligned, use a feeler gauge between the coupling and the straightedge to measure the amount of misalignment.

**V-Belt Drives**

When using V-belt drives, the power source and the pump must be parallel. Use a straightedge along the sides of the pulleys to ensure that the pulleys are properly aligned (see Figure 4C). In drive systems using two or more belts, make certain that the belts are a matched set; unmatched sets will cause accelerated belt wear.



MISALIGNED: SHAFTS NOT PARALLEL      MISALIGNED: SHAFTS NOT IN LINE      ALIGNED: SHAFTS PARALLEL AND SHEAVES IN LINE

Figure 4C. Alignment of V-Belt Driven Pumps

Tighten the belts in accordance with the belt manufacturer's instructions. If the belts are too loose, they will slip; if the belts are too tight, there will be excessive power loss and possible bearing failure. Select pulleys that will match the proper speed ratio; overspeeding the pump may damage both pump and power source.



**Do not operate the pump without the shields and/or guards in place over the drive shaft, belts, and/or couplings, or other rotating parts. Exposed rotating parts can catch clothing, fingers, or tools, causing severe injury to personnel.**

## V-BELT TENSIONING

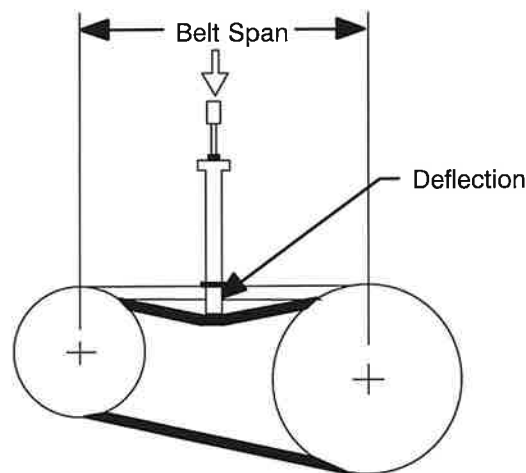
### General Rules of Tensioning

For new V-belts, check the tension after 5, 20 and 50 hours of operation and re-tension as required (see the following procedure for measuring belt tension). Thereafter, check and re-tension if required monthly or at 500 hour intervals, whichever comes first.

Ideal V-belt tension is the **lowest** tension at which the belt will not slip under peak load conditions. Do not over-tension V-belts. Over-tensioning will shorten both V-belt and bearing life. Under-tensioning will cause belt slippage. Always keep belts free from dirt, grease, oil and other foreign material which may cause slippage.

### Tension Measurement

Correct v-belt tension can be achieved using a V-belt tension tester and Table 1 or 2. Use the tables to find the V-belt size (cross-section), the smallest sheave diameter, the belt type for your application. The corresponding deflection force required for new or used belts is shown opposite the RPM range of the pump.



**Figure 5. Belt Tension Measurement**

The ratio of deflection to belt span is 1:64 for both ASA and metric units. Therefore, a belt with a span of 64 inches would require a deflection of 1 inch at the force shown on the Tables for your particular application.

For example, if the span as measured in Figure 5 is 32 inches (813 mm), the V-belt cross-section is C, the smallest sheave diameter is 8 inches, the pump speed is 1250 RPM, and the belts are uncogged Yy-T type, then 11.5 lbs. of force on the tensioner should show 1/2-inch (12,7 mm) of deflection.

A tension tester is available as an option from Gorman-Rupp (P/N 29513-001). Other tension testers are available from your local belt/sheave distributor, and work on a similar principal.

To use the Gorman-Rupp tensioner, measure the belt span as shown in Figure 5. Position the bottom of the large O-ring on the span scale of the tensioner at the measured belt span. Set the small O-ring on the deflection force scale to zero.

Place the tension tester squarely on the belt at the center of the belt span. Apply force on the plunger, perpendicular to the belt span, until the bottom of the large O-ring is even with the top of the next belt, or with the bottom of a straight edge laid across the sheaves.

Read the force applied from the bottom of the small O-ring on the deflection force scale. Compare this force with the value shown in Table 1 or 2 and adjust the tension accordingly. Note that the **tension for new belts is higher than that for used belts** to allow for expected belt stretching. **Do not** over-tension used belts to the higher deflection forces shown for new belts.

**Table 1. Sheave Diameter (Inches)  
Deflection Force (Lbs.)**

Cross Section	Smallest Sheave Diameter Range	R.P.M. Range	Belt Deflection Force			
			Uncogged Hy-T Belts & Uncogged Hy-T Torque Team		Cogged Torque-Flex & Machined Edge torque Team Belts	
			Used Belt	New Belt	Used Belt	New Belt
A,AX	3.0 - 3.6	1000-2500 2501-4000	3.7 2.8	5.5 4.2	4.1 3.4	6.1 5.0
	3.8 - 4.8	1000-2500 2501-4000	4.5 3.8	6.8 5.7	5.0 4.3	7.4 6.4
	5.0 - 7.0	1000-2500 2501-4000	5.4 4.7	8.0 7.0	5.7 5.1	9.4 7.4
B,BX	3.4 - 4.2	860-2500 2501-4000			4.9 4.2	7.2 6.2
	4.4 - 5.6	860-2500 2501-4000	5.3 4.5	7.9 6.7	7.1 7.1	10.5 9.1
	5.8 - 8.6	860-2500 2501-4000	6.3 6.0	9.4 8.9	8.5 7.3	12.6 10.9
C,CX	7.0 - 9.0	500-1740 1741-3000	11.5 9.4	17.0 13.8	14.7 11.9	21.8 17.5
	9.5 - 16.0	500-1740 1741-3000	14.1 12.5	21.0 18.5	15.9 14.6	23.5 21.6
D	12.0 - 16.0	200-850 851-1500	11.5 9.4	17.0 13.8	14.7 11.9	21.8 17.5
	18.0 - 20.0	200-850 851-1500	30.4 25.6	45.2 38.0		
3V, 3VX	2.2 - 2.4	1000-2500 2501-4000			3.3 2.9	4.9 4.3
	2.65 - 3.65	1000-2500 2501-4000	3.6 3.0	5.1 4.4	4.2 3.8	6.2 5.6
	4.12 - 6.90	1000-2500 2501-4000	4.9 4.4	7.3 6.6	5.3 4.9	7.9 7.3
5V, 5VX	4.4 - 6.7	500-1749 1750-3000 3001-4000			10.2 8.8 5.6	15.2 13.2 8.5
	7.1 - 10.9	500-1740 1741-3000	12.7 11.2	18.9 16.7	14.8 13.7	22.1 20.1
	11.8 - 16.0	500-1740 1741-3000	15.5 14.6	23.4 21.8	17.1 16.8	25.5 25.0
8V	12.5 - 17.0	200-850 851-1500	33.0 26.8	49.3 39.9		
	18.0 - 22.4	200-850 851-1500	39.6 35.3	59.2 52.7		

**Table 2. Sheave Diameter (Millimeters)  
Deflection Force (KG.)**

Cross Section	Smallest Sheave Diameter Range	R.P.M. Range	Belt Deflection Force			
			Uncogged Hy-T Belts & Uncogged Hy-T Torque Team		Cogged Torque-Flex & Machined Edge torque Team Belts	
			Used Belt	New Belt	Used Belt	New Belt
A,AX	75 - 90	1000-2500 2501-4000	1.7 1.3	2.5 1.9	1.9 1.5	2.8 2.3
	91 - 120	1000-2500 2501-4000	2.0 1.7	3.1 2.6	2.3 2.0	3.4 2.9
	125 - 175	1000-2500 2501-4000	2.4 2.1	3.6 3.2	2.6 2.3	4.3 3.4
B,BX	85 - 105	860-2500 2501-4000			2.2 1.9	3.3 2.8
	106 - 140	860-2500 2501-4000	2.4 2.0	3.6 3.0	3.2 3.2	4.8 4.1
	141 - 220	860-2500 2501-4000	2.9 2.7	4.3 4.0	3.9 3.3	5.7 4.9
C,CX	175 - 230	500-1740 1741-3000	5.2 4.3	7.7 6.3	6.7 5.4	9.9 7.9
	231 - 400	500-1740 1741-3000	6.4 5.7	9.5 8.4	7.2 6.6	10.7 9.8
D	305 - 400	200-850 851-1500	11.3 9.6	16.8 14.2		
	401 - 510	200-850 851-1500	13.8 11.6	20.5 17.2		
3V, 3VX	55 - 60	1000-2500 2501-4000			1.5 1.3	2.2 2.0
	61 - 90	1000-2500 2501-4000	1.6 1.4	2.3 2.0	1.9 1.7	2.8 2.5
	91 - 175	1000-2500 2501-4000	2.2 2.0	3.3 3.0	2.4 2.2	3.6 3.3
5V, 5VX	110 - 170	500-1749 1750-3000 3001-4000			4.6 4.0 2.5	6.9 6.0 3.9
	171 - 1275	500-1740 1741-3000	5.8 5.1	8.6 7.6	6.7 6.2	10.0 9.1
	276 - 400	500-1740 1741-3000	7.0 6.6	10.6 9.9	7.8 7.6	11.6 11.3
8V	315 - 430	200-850 851-1500	15.0 12.2	22.4 18.1		
	431 - 570	200-850 851-1500	18.0 16.0	26.8 23.9		

## OPERATION – SECTION C

Review all **SAFETY** information in Section A.

Follow the instructions on all tags, labels and decals attached to the pump.



This pump is designed to handle most non-volatile, non-flammable liquids containing specified entrained solids. **Do not attempt to pump liquids which may damage the pump or endanger personnel as a result of pump failure.**



Pump speed and operating condition points must be within the continuous performance range shown on the curve (see Section E, Page 1).

### PRIMING

Install the pump and piping as described in **INSTALLATION**. Make sure that the piping connections are tight, and that the pump is securely mounted. Check that the pump is properly lubricated (see **LUBRICATION** in **MAINTENANCE AND REPAIR**).

This pump is self-priming, but the pump should never be operated unless there is liquid in the pump casing.



Never operate this pump unless there is liquid in the pump casing. The pump will not prime when dry. Extended operation of a dry pump will destroy the seal assembly.

Add liquid to the pump casing when:

1. The pump is being put into service for the first time.
2. The pump has not been used for a considerable length of time.
3. The liquid in the pump casing has evaporated.

Once the pump casing has been filled, the pump will prime and reprime as necessary.



**After filling the pump casing, reinstall and tighten the fill plug. Do not attempt to operate the pump unless all connecting piping is securely installed. Otherwise, liquid in the pump forced out under pressure could cause injury to personnel.**

To fill the pump, remove the pump casing fill cover or fill plug in the top of the casing, and add clean liquid until the casing is filled. Replace the fill cover or fill plug before operating the pump.

### STARTING

Consult the operations manual furnished with the power source.

#### Rotation

The correct direction of pump rotation is counterclockwise when facing the impeller. If the pump is operated in the wrong direction, the impeller could become loosened from the shaft and seriously damage the pump.



Only operate this pump in the direction indicated by the arrow on the pump body and on the accompanying decal. Otherwise, the impeller could become loosened from the shaft and seriously damage the pump.

Consult the operating manual furnished with the power source before attempting to start the power source.

If an electric motor is used to drive the pump, remove V-belts, couplings, or otherwise disconnect the pump from the motor before checking motor rotation. Operate the motor independently while observing the direction of the motor shaft, or cooling fan.

If rotation is incorrect on a three-phase motor, have a qualified electrician interchange any two of the three phase wires to change direction. If rotation is incorrect on a single-phase motor, consult the literature supplied with the motor for specific instructions.

## OPERATION

### Lines With a Bypass

Close the discharge throttling valve (if so equipped) so that the pump will not have to prime against the weight of the liquid in the discharge line. Air from the suction line will be discharged through the bypass line back to the wet well during the priming cycle. When the pump is fully primed and liquid is flowing steadily from the bypass line, open the discharge throttling valve. Liquid will then continue to circulate through the bypass line while the pump is in operation.

### Lines Without a Bypass

Open all valves in the discharge line and start the engine. Priming is indicated by a positive reading on the discharge pressure gauge or by a quieter operation. The pump may not prime immediately because the suction line must first fill with liquid. If the pump fails to prime within five minutes, stop it and check the suction line for leaks.

After the pump has been primed, partially close the discharge line throttling valve in order to fill the line slowly and guard against excessive shock pressure which could damage pipe ends, gaskets, sprinkler heads, and any other fixtures connected to the line. When the discharge line is completely filled, adjust the throttling valve to the required flow rate.

### Leakage

No leakage should be visible at pump mating surfaces, or at pump connections or fittings. Keep all line connections and fittings tight to maintain maximum pump efficiency.

### Liquid Temperature And Overheating

The **maximum** liquid temperature for this pump is 160° F (71° C). Do not apply it at a higher operating temperature.

Overheating can occur if operated with the valves in the suction or discharge lines closed. Operating against closed valves could bring the liquid to a boil, build pressure, and cause the pump to rupture or explode. If overheating occurs, stop the pump and allow it to completely cool before servicing it. Refill the pump casing with cool liquid.



**Do not remove plates, covers, gauges, pipe plugs, or fittings from an overheated pump. Vapor pressure within the pump can cause parts being disengaged to be ejected with great force. Allow the pump to completely cool before servicing.**

### Strainer Check

If a suction strainer has been shipped with the pump or installed by the user, check the strainer regularly, and clean it as necessary. The strainer should also be checked if pump flow rate begins to drop. If a vacuum suction gauge has been installed, monitor and record the readings regularly to detect strainer blockage.

**Never** introduce air or steam pressure into the pump casing or piping to remove a blockage. This could result in personal injury or damage to the equipment. If backflushing is absolutely necessary, **liquid pressure** must be limited to 50% of the maximum permissible operating pressure shown on the pump performance curve (see Section E, Page 1).

### Pump Vacuum Check

With the pump inoperative, install a vacuum gauge in the system, using pipe dope on the threads. Block the suction line and start the pump. At operating speed the pump should pull a vacuum of 20 inches (508,0 mm) or more of mercury. If it does not, check for air leaks in the seal, gasket, or discharge valve.

Open the suction line, and read the vacuum gauge with the pump primed and at operation speed. Shut off the pump. The vacuum gauge reading will immediately drop proportionate to static suction lift, and should then stabilize. If the vacuum reading falls off rapidly after stabilization, an air leak exists. Before checking for the source of the leak, check the point of installation of the vacuum gauge.

### STOPPING

Never halt the flow of liquid suddenly. If the liquid being pumped is stopped abruptly, damaging shock waves can be transmitted to the pump and piping system. Close all connecting valves slowly.



If the application involves a high discharge head, gradually close the discharge throttling valve before stopping the pump.

After stopping the pump, lock out or disconnect the power source to ensure that the pump will remain inoperative.

### BEARING TEMPERATURE CHECK

Bearings normally run at higher than ambient temperatures because of heat generated by friction.

Temperatures up to 160°F (71°C) are considered normal for bearings, and they can operate safely to at least 180°F (82°C).

Checking bearing temperatures by hand is inaccurate. Bearing temperatures can be measured accurately by placing a contact-type thermometer against the housing. Record this temperature for future reference.

A sudden increase in bearing temperatures is a warning that the bearings are at the point of failing to operate properly. Make certain that the bearing lubricant is of the proper viscosity and at the correct level (see **LUBRICATION** in Section E). Bearing overheating can also be caused by shaft misalignment and/or excessive vibration.

When pumps are first started, the bearings may seem to run at temperatures above normal. Continued operation should bring the temperatures down to normal levels.

### Cold Weather Preservation

In below freezing conditions, drain the pump to prevent damage from freezing. Also, clean out any solids by flushing with a hose. Operate the pump for approximately one minute; this will remove any remaining liquid that could freeze the pump rotating parts. If the pump will be idle for more than a few hours, or if it has been pumping liquids containing a large amount of solids, drain the pump, and flush it thoroughly with clean water. To prevent large solids from clogging the drain port and preventing the pump from completely draining, insert a rod or stiff wire in the drain port, and agitate the liquid during the draining process. Clean out any remaining solids by flushing with a hose.

**TROUBLESHOOTING – SECTION D**Review all **SAFETY** information in Section A.

**Before attempting to open or service the pump:**

1. Familiarize yourself with this manual.
2. Disconnect or lock out the power source to ensure that the pump will remain inoperative.
3. Allow the pump to completely cool if overheated.
4. Check the temperature before opening any covers, plates, or plugs.
5. Close the suction and discharge valves.
6. Vent the pump slowly and cautiously.
7. Drain the pump.

TROUBLE	POSSIBLE CAUSE	PROBABLE REMEDY
PUMP FAILS TO PRIME	Not enough liquid in casing. Suction check valve contaminated or damaged. Air leak in suction line. Lining of suction hose collapsed. Leaking or worn seal or pump gasket. Suction lift or discharge head too high. Strainer clogged.	Add liquid to casing. See <b>PRIMING</b> . Clean or replace check valve. Correct leak. Replace suction hose. Check pump vacuum. Replace leaking or worn seal or gasket. Check piping installation and install bypass line if needed. See <b>INSTALLATION</b> . Check strainer and clean if necessary.
PUMP STOPS OR FAILS TO DELIVER RATED FLOW OR PRESSURE	Air leak in suction line. Lining of suction hose collapsed. Leaking or worn seal or pump gasket. Strainer clogged. Suction intake not submerged at proper level or sump too small.	Correct leak. Replace suction hose. Check pump vacuum. Replace leaking or worn seal or gasket. Check strainer and clean if necessary. Check installation and correct submergence as needed.

TROUBLE	POSSIBLE CAUSE	PROBABLE REMEDY
PUMP STOPS OR FAILS TO DELIVER RATED FLOW OR PRESSURE (cont.)	<p>Impeller or other wearing parts worn or damaged.</p> <p>Impeller clogged.</p> <p>Pump speed too slow.</p> <p>Discharge head too high.</p> <p>Suction lift too high.</p>	<p>Replace worn or damaged parts. Check that impeller is properly centered and rotates freely.</p> <p>Free impeller of debris.</p> <p>Check driver output; check belts or couplings for slippage.</p> <p>Install bypass line.</p> <p>Measure lift w/vacuum gauge. Reduce lift and/or friction losses in suction line.</p>
PUMP REQUIRES TOO MUCH POWER	<p>Pump speed too high.</p> <p>Discharge head too low.</p> <p>Liquid solution too thick.</p> <p>Bearing(s) frozen.</p>	<p>Check driver output; check that sheaves or couplings are correctly sized.</p> <p>Adjust discharge valve.</p> <p>Dilute if possible.</p> <p>Disassemble pump and check bearing(s).</p>
PUMP CLOGS FREQUENTLY	<p>Liquid solution too thick.</p> <p>Discharge flow too slow.</p> <p>Suction check valve or foot valve clogged or binding.</p>	<p>Dilute if possible.</p> <p>Open discharge valve fully to increase flow rate, and run power source at maximum governed speed.</p> <p>Clean valve.</p>
EXCESSIVE NOISE	<p>Cavitation in pump.</p> <p>Pumping entrained air.</p> <p>Pump or drive not securely mounted.</p> <p>Impeller clogged or damaged.</p>	<p>Reduce suction lift and/or friction losses in suction line. Record vacuum and pressure gauge readings and consult local representative or factory.</p> <p>Locate and eliminate source of air bubble.</p> <p>Secure mounting hardware.</p> <p>Clean out debris; replace damaged parts.</p>
BEARINGS RUN TOO HOT	<p>Bearing temperature is high, but within limits.</p> <p>Low or incorrect lubricant.</p> <p>Suction and discharge lines not properly supported.</p> <p>Drive misaligned.</p>	<p>Check bearing temperature regularly to monitor any increase.</p> <p>Check for proper type and level of lubricant.</p> <p>Check piping installation for proper support.</p> <p>Align drive properly.</p>

**PREVENTIVE MAINTENANCE**

Since pump applications are seldom identical, and pump wear is directly affected by such things as the abrasive qualities, pressure and temperature of the liquid being pumped, this section is intended only to provide general recommendations and practices for preventive maintenance. Regardless of the application however, following a routine preventive maintenance schedule will help assure trouble-free performance and long life from your Gorman-Rupp pump. For specific questions concerning your application, contact your Gorman-Rupp distributor or the Gorman-Rupp Company.

Record keeping is an essential component of a good preventive maintenance program. Changes in suction and discharge gauge readings (if so

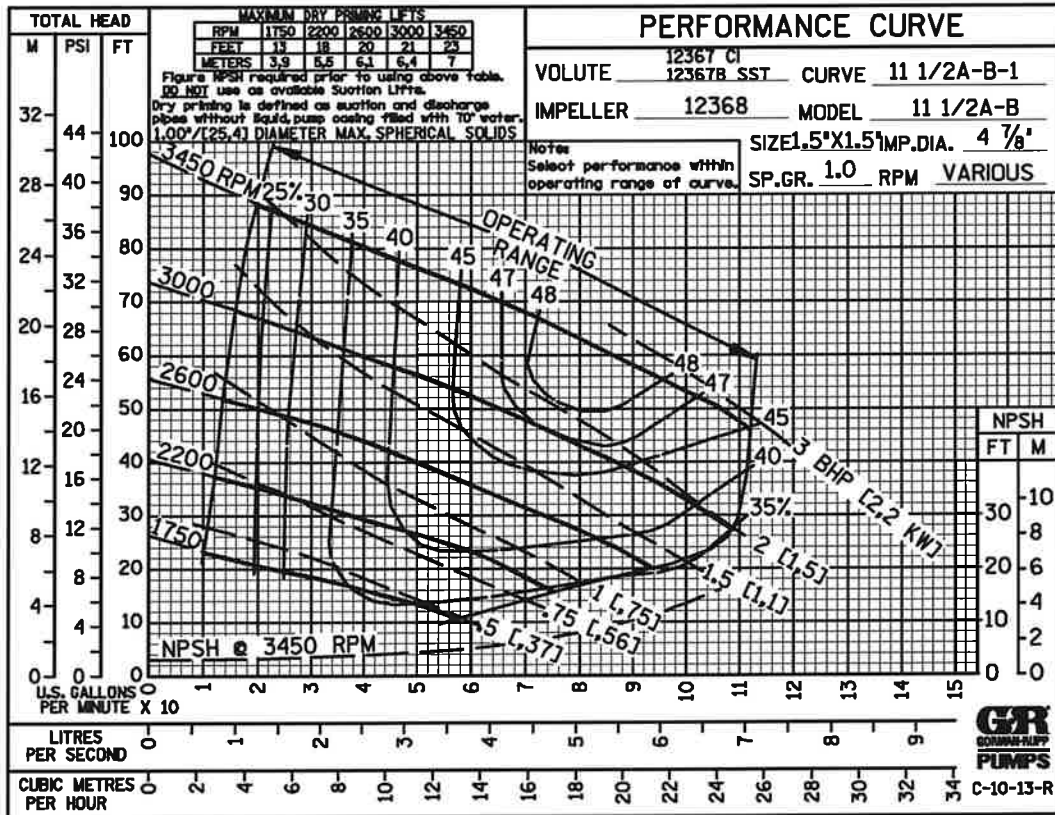
equipped) between regularly scheduled inspections can indicate problems that can be corrected before system damage or catastrophic failure occurs. The appearance of wearing parts should also be documented at each inspection for comparison as well. Also, if records indicate that a certain part (such as the seal) fails at approximately the same duty cycle, the part can be checked and replaced before failure occurs, reducing unscheduled down time.

For new applications, a first inspection of wearing parts at 250 hours will give insight into the wear rate for your particular application. Subsequent inspections should be performed at the intervals shown on the chart below. Critical applications should be inspected more frequently.

<b>Preventive Maintenance Schedule</b>					
Item	Service Interval*				
	Daily	Weekly	Monthly	Semi-Annually	Annually
General Condition (Temperature, Unusual Noises or Vibrations, Cracks, Leaks, Loose Hardware, Etc.)	I				
Pump Performance (Gauges, Speed, Flow)	I				
Bearing Lubrication		I			R
Seal Lubrication (And Packing Adjustment, If So Equipped)		I			R
V-Belts (If So Equipped)			I		
Air Release Valve Plunger Rod (If So Equipped)			I	C	
Front Impeller Clearance (Wear Plate)				I	
Rear Impeller Clearance (Seal Plate)				I	
Check Valve					I
Pressure Relief Valve (If So Equipped)					C
Pump and Driver Alignment					I
Shaft Deflection					I
Bearings					I
Bearing Housing					I
Piping					I
Driver Lubrication – See Mfgr’s Literature					I
Legend: I = Inspect, Clean, Adjust, Repair or Replace as Necessary C = Clean R = Replace * Service interval based on an intermittent duty cycle equal to approximately 4000 hours annually. Adjust schedule as required for lower or higher duty cycles or extreme operating conditions.					

## PUMP MAINTENANCE AND REPAIR - SECTION E

MAINTENANCE AND REPAIR OF THE WEARING PARTS OF THE PUMP WILL MAINTAIN PEAK OPERATING PERFORMANCE.



\* STANDARD PERFORMANCE FOR PUMP MODEL 11 1/2A20-B

\* Based on 70°F (21°C) clear water at sea level with minimum suction lift. Since pump installations are seldom identical, your performance may be different due to such factors as viscosity, specific gravity, elevation, temperature, and impeller trim.

Contact the Gorman-Rupp Company to verify performance or part numbers.



If your pump serial number is followed by an "N", your pump is **NOT** a standard production model.

Pump speed and operating condition points must be within the continuous performance range shown on the curve.

ILLUSTRATION

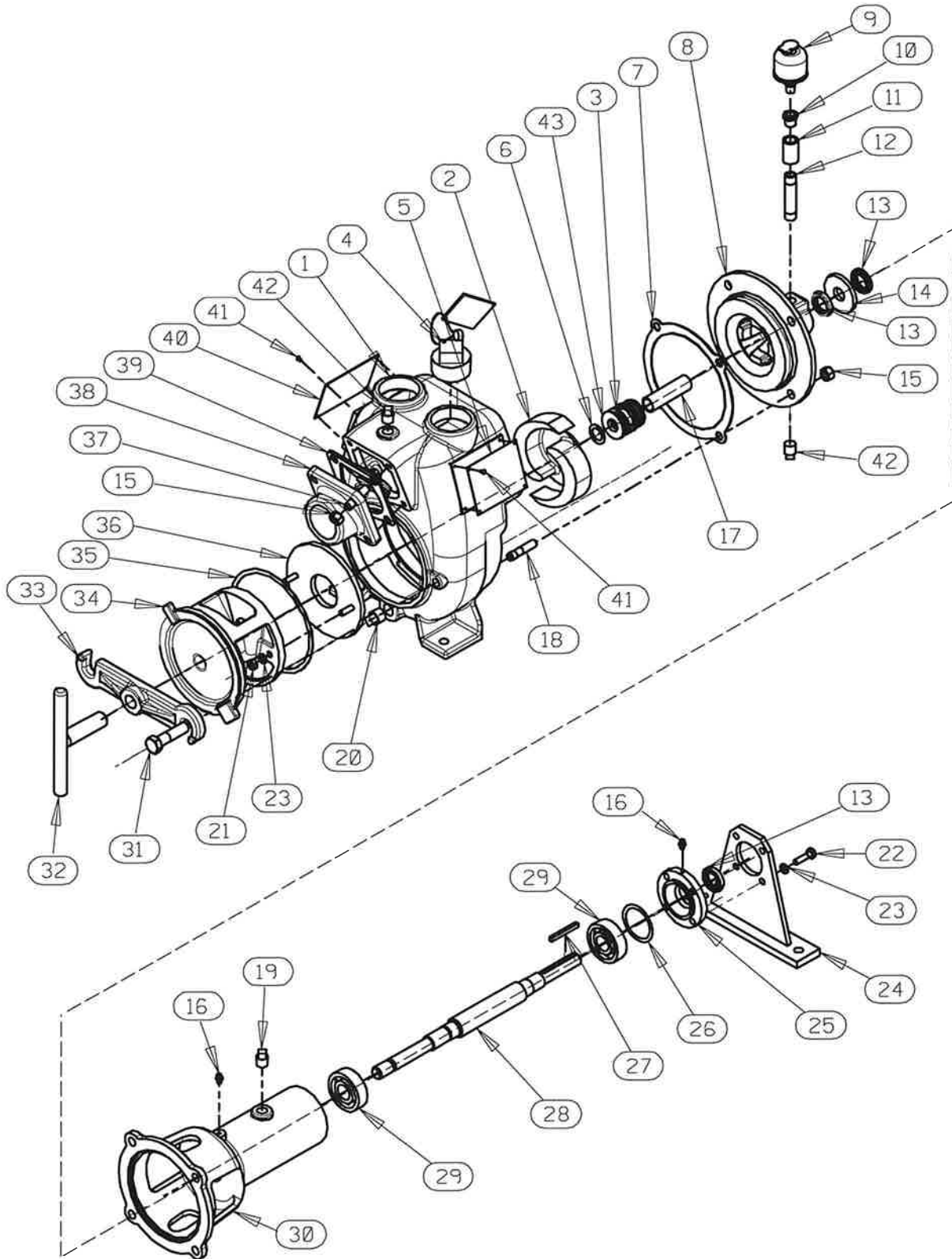


Figure E-1. Pump Model 11 1/2A20-B

**PARTS LIST**  
**Pump Model 11 1/2A20-B**  
(From S/N 519865N Up)

If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify part numbers.

ITEM NO.	PART NAME	PART NUMBER	QTY	ITEM NO.	PART NAME	PART NUMBER	QTY
☐ 1	PUMP CASING	SEE NOTE BELOW		34	COVER PLATE	12369 10010	1
2 *	IMPELLER	12368 10010	1	35 *	GASKET	12369G 20000	1
3 *	SEAL ASSEMBLY	46512-035	1	36 *	WEAR PLATE ASSEMBLY	2643 15990	1
☐ 4	FILL PLUG ASSY	48271-066	1	☐ 37	STUD	C0606 15991	4
5	NAME PLATE	38818-021 13990	1	38	SUCTION FLANGE	8599 10010	1
6 *	ADJ SHIM SET	513A 17090	1	39	FLAP VALVE ASSEMBLY	1352	1
7	GASKET SET	504G 18000	1		RD HD MACH SCREW	X0403 17090	1
8	SEAL PLATE	38272-114 10010	1		LOCK WASHER	J04 17090	1
9	BOTTLE OILER	S1933	1		SMALL VLV WEIGHT	1354 15160	1
10	REDUCER PIPE BUSHING	AP0402 15079	1	*	CHECK VLV GASKET	1352G 19070	1
11	PIPE CPLG	AE04 15079	1		LARGE VLV WEIGHT	1353 10010	1
12	PIPE NIPPLE	T0410 15079	1	☐ 40	WARNING PLATE	2613EV 13990	1
13 *	SEAL	S1659	3	☐ 41	DRIVE SCREW	BM#04-03 17000	8
14	SLINGER RING	3228A 19120	1	☐ 42	PIPE PLUG	P04 15079	2
15	HEX NUT	D06 15991	8	43 *	SPRING WASHER	31512-010 17030	1
16	GREASE FITTING	S1404	2	NOT SHOWN:			
17 *	SLEEVE	31411-097 17030	1		ROTATION DECAL	2613M	1
☐ 18	STUD	C0607 15991	4		INSTRUCTION LABEL	2613DK	1
19	VENTED PIPE PLUG	4823 15079	1		SUCTION STICKER	6588AG	1
☐ 20	PIPE PLUG	P06 15079	1		DISCHARGE STICKER	6588BJ	1
21	HEX NUT	D04 15991	2		STICKER	6588AH	1
22	HEX HEAD CAP SCREW	B0404 15991	4		INSTRUCTION TAG	38817-011	1
23	LOCK WASHER	J04 15991	6		INSTRUCTION TAG	38817-010	1
24	PEDESTAL FOOT	8857 24000	1		LUBRICATION DECAL	38816-075	1
25	BEARING CAP	8853A 10010	1		G-R DECAL	GR-03	1
26	BEARING SHIM SET	8540 15990	1	OPTIONAL:			
27 *	KEY	N0307 15990	1	HI TEMP SHUT DOWN KITS:			
28 *	IMPELLER SHAFT	38514-004 15010	1		120°F	48313-257	1
29 *	BALL BEARING	S1403	2		130°F	48313-256	1
30	PEDESTAL	8852B 10010	1		145°F	48313-186	1
☐ 31	HEX HEAD CAP SCREW	B0808 15991	2		HIGH TEMP SHUTDOWN THERMOSTAT KIT:		
32	CLAMP SCREW	8618 24000	1		145°F	48313-172	1
33	CLAMP BAR	12370 11010	1				

\* INDICATES PARTS RECOMMENDED FOR STOCK

☐ INCLUDED WITH REPAIR 46471-513 1  
PUMP CASING ASSY

## PUMP AND SEAL DISASSEMBLY AND REASSEMBLY

Review all SAFETY information in Section A.

Follow the instructions on all tags, label and decals attached to the pump.

This pump requires little service due to its rugged, minimum-maintenance design. However, if it becomes necessary to inspect or replace the wearing parts, follow these instructions which are keyed to the sectional view (see Figure E-1) and the accompanying parts list.

This manual will alert personnel to known procedures which require special attention, to those which could damage equipment, and to those which could be dangerous to personnel. However, this manual cannot possibly anticipate and provide detailed precautions for every situation that might occur during maintenance of the unit. Therefore, it is the responsibility of the owner/maintenance personnel to ensure that **only** safe, established maintenance procedures are used, and that any procedures not addressed in this manual are performed **only** after establishing that neither personal safety nor pump integrity are compromised by such practices.

Before attempting to service the pump, disconnect or lock out the power source to ensure that the pump will remain inoperative. Close all valves in the suction and discharge lines.

For power source disassembly and repair, consult the literature supplied with the power source, or contact your local power source representative.



**Before attempting to open or service the pump:**

1. Familiarize yourself with this manual.
2. Disconnect or lock out the power source to ensure that the pump will remain inoperative.

3. Allow the pump to completely cool if overheated.
4. Check the temperature before opening any covers, plates, or plugs.
5. Close the suction and discharge valves.
6. Vent the pump slowly and cautiously.
7. Drain the pump.

### Suction Check Valve Removal and Disassembly

Before attempting to service the pump, remove the pump casing drain plug (20) and drain the pump. Clean and reinstall the drain plug.

To service the suction check valve assembly (39), remove the suction piping. Remove the nuts (15) securing the suction flange (38) and check valve assembly (39) to the pump casing (1).

Inspect the check valve parts for wear or damage. If replacement is required, remove the attaching hardware and separate the check valve gasket and weights.

If no further disassembly is required, see **Suction Check Valve Installation**.

### Back Cover Removal

The wear plate assembly (36) is easily accessible and may be serviced by removing the back cover assembly (34). Loosen the clamp bar screw (32) and remove the clamp bar (33). Pull the back cover and wear plate from the pump casing. Remove the back cover gasket (35). Clean the mating surfaces of the back cover plate and pump casing.

Inspect the wear plate and replace it if badly scored or worn. To remove the wear plate, disengage the hardware (21 and 23) securing it to the back cover.

If no further disassembly is required, see **Back Cover Installation**.

### Pump Casing Removal



**Death or serious personal injury and damage to the pump or components can occur if proper lifting procedures are not observed. Make certain that hoists, chains, slings or cables are in good working condition and of sufficient capacity and that they are positioned so that loads will be balanced and the pump or components will not be damaged when lifting. Suction and discharge hoses and piping must be removed from the pump before lifting. Lift the pump or component only as high as necessary and keep personnel away from suspended objects.**

To service the impeller or seal assembly, disconnect the discharge piping. Remove the hardware securing the pump to the base. Disconnect the power source. Tie and tag any leveling shims used under the pump mounting feet to ease reassembly.

Remove the nuts (15) and separate the pump casing and gasket set (7) from the seal plate (8) and pedestal (30). Clean the mating surfaces of the seal plate and pump casing. Tie and tag the gaskets, or measure and record their thickness for ease of reassembly.

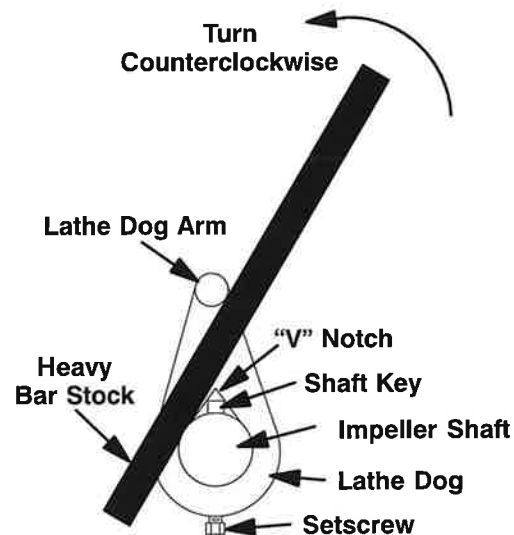
### Impeller Removal

Before removing the impeller, remove the bottle oiler and piping (9, 10, 11 and 12). Remove the seal cavity drain plug (42) and drain the oil from the seal cavity to prevent the oil from escaping when the impeller is removed. Clean and reinstall the drain plug.

Immobilize the impeller (2) by wedging a block of wood between the vanes. If removed, install the shaft key (27). Install a lathe dog on the drive end of the shaft (28) with the "V" notch positioned over the shaft keyway.

With the impeller rotation still blocked, strike the lathe dog sharply in a counterclockwise direction

(when facing the drive end of the shaft). The impeller may also be loosened by using a long piece of heavy bar stock to pry against the arm of the lathe dog in a counterclockwise direction (when facing the drive end of the shaft) as shown in Figure 2. **Use caution** not to damage the shaft or keyway. When the impeller breaks loose, remove the lathe dog and wood block and unscrew the impeller from the shaft.



**Figure 2. Loosening Impeller**

Unscrew the impeller in a counterclockwise direction. Use caution when removing the impeller; tension on the seal spring will be released as the impeller is unscrewed.

Inspect the impeller and replace it if cracked or badly worn. Slide the impeller adjusting shims (6) off the impeller shaft. Tie and tag the shims or measure and record their thickness for ease of reassembly.

### Seal Removal and Disassembly

Remove the spring centering washer (43) and the seal spring. Slide the shaft sleeve (17) and rotating portion of the seal off the shaft as a single unit. Apply oil to the sleeve and work it up under the bellows. Slide the rotating portion of the seal off the shaft.

Slide the seal plate and seal assembly off the shaft as a single unit. Place the seal plate on a flat surface with the impeller side down. Use a suitably sized dowel to press the seal components from the seal plate.

Pry or press the oil seal (3) from the seal plate. Inspect the seal plate and replace it if cracked or badly worn.

If no further disassembly is required, see **Seal Reassembly and Installation**.

### Shaft and Bearing Removal and Disassembly

When the pump is properly operated and maintained, the pedestal should not require disassembly. Disassemble the shaft and bearings **only** when there is evidence of wear or damage.



Shaft and bearing disassembly in the field is not recommended. These operations should be performed only in a properly-equipped shop by qualified personnel.

Remove the slinger ring (14) and shaft key (27).

Disengage the hardware (22 and 23) and remove the pedestal foot (24). Slide the bearing cap (25) and oil seal (13) off the shaft.

### NOTE

*There are no provisions for draining the lubricant from the pedestal. Place a drip pan under the pedestal before disassembly.*

Use an arbor (or hydraulic) press and a dowel to remove the oil seal from the bearing cap.

Slide the bearing shims (26) off the impeller shaft. Tie and tag the shims or measure and record their thickness for ease of reassembly.

Place a block of wood against the impeller end of the shaft and tap the shaft and assembled bearings (29) from the pedestal. **Be careful** not to damage the shaft.

After removing the shaft and bearings, clean and inspect the bearings **in place** as follows.



To prevent damage during removal from

the shaft, it is recommended that bearings be cleaned and inspected **in place**. It is **strongly** recommended that the bearings be replaced **any** time the shaft and bearings are removed.

Clean the pedestal, shaft and all component parts (except the bearings) with a soft cloth soaked in cleaning solvent. Inspect the parts for wear or damage and replace as necessary.



**Most cleaning solvents are toxic and flammable. Use them only in a well ventilated area free from excessive heat, sparks, and flame. Read and follow all precautions printed on solvent containers.**

Clean the bearings thoroughly in **fresh** cleaning solvent. Dry the bearings with filtered compressed air and coat with light oil.



Bearings must be kept free of all dirt and foreign material. Failure to do so will greatly shorten bearing life. **Do not** spin dry bearings. This may scratch the balls or races and cause premature bearing failure.

Rotate the bearings by hand to check for roughness or binding and inspect the bearing balls. If rotation is rough or the bearing balls are discolored, replace the bearings.

The bearing tolerances provide a tight press fit onto the shaft and a snug slip fit into the pedestal. Replace the bearings, shaft, or pedestal if the proper bearing fit is not achieved.

If bearing replacement is required, use a bearing puller to remove the bearings from the shaft.

Press the inboard oil seal (13) from the pedestal bore.

### Shaft and Bearing Reassembly and Installation

Clean and inspect the bearings as indicated in **Shaft and Bearing Removal and Disassembly**.



To prevent damage during removal from the shaft, it is recommended that bearings be cleaned and inspected **in place**. It is **strongly** recommended that the bearings be replaced **any** time the shaft and bearings are removed.

Position the inboard oil seal (13) in the pedestal (30) with the lip positioned as shown in Figure 1. Press the oil seal into the pedestal until the face is **just flush** with the inside diameter of the chamfer on the housing as shown in Figure 1.

The bearings may be heated to ease installation. An induction heater, hot oil bath, electric oven, or hot plate may be used to heat the bearings. Bearings should **never** be heated with a direct flame or directly on a hot plate.

#### NOTE

*If a hot oil bath is used to heat the bearings, both the oil and the container must be **absolutely** clean. If the oil has been previously used, it must be **thoroughly** filtered.*

Heat the bearings to a uniform temperature **no higher than 250°F (120°C)**, and slide the bearings onto the shaft, one at a time, until they are fully seated against the shaft shoulders. This should be done quickly, in one continuous motion, to prevent the bearings from cooling and sticking on the shaft.



**Use caution when handling hot bearings to prevent burns.**

After the bearings have been installed and allowed to cool, check to ensure that they have not moved

out of position in shrinking. If movement has occurred, use a suitably sized sleeve and a press to reposition the bearings.

If heating the bearings is not practical, use a suitably sized sleeve and an arbor (or hydraulic) press to install the bearings on the shaft.



When installing the bearings onto the shaft, **never** press or hit against the outer race, balls, or ball cage. Press **only** on the inner race.

After installation, pack the bearings by hand with No. 0 lithium base grease until fully lubricated.

Slide the shaft and assembled bearings into the pedestal until the inboard bearing seats against the pedestal bore. **Be careful** not to damage the oil seal lip.



When installing the shaft and bearings into the bearing bore, push against the outer race. **Never** hit the balls or ball cage.

Press the outboard oil seal (13) into the bearing cap (25) with the lip positioned as shown in Figure 1. Install the same thickness of bearing adjusting shim (26) as previously removed. Install the bearing cap in the pedestal with the lubrication fitting (16) up. Install the pedestal foot (24) and secure with the hardware (22 and 23). **Be careful** not to damage the oil seal lip on the shaft keyway.

#### NOTE

*Shaft endplay should be between .002 and .010 inch (.05 to .25 mm). Add or remove bearing adjusting shims to achieve the correct endplay.*

Slide the slinger ring (14) onto the shaft.

Lubricate the pedestal as indicated in **LUBRICATION** at the end of this section.

### Seal Reassembly and Installation

Clean the seal cavity and shaft with a cloth soaked in fresh cleaning solvent.



**Most cleaning solvents are toxic and flammable. Use them only in a well ventilated area free from excessive heat, sparks, and flame. Read and follow all precautions printed on solvent containers.**

Inspect the impeller shaft for damage. Small scratches or nicks may be removed with a fine file or emery cloth. If excessive wear exists, the shaft will have to be replaced.

The seal is not normally reused because wear patterns on the finished faces cannot be realigned during reassembly. This could result in premature failure. If necessary to reuse an old seal in an emergency, **carefully** wash all metallic parts in **fresh** cleaning solvent and allow to dry thoroughly.

Handle the seal parts with extreme care to prevent damage. Be careful not to contaminate precision finished faces; even fingerprints on the faces can shorten seal life. If necessary, clean the faces with a non-oil based solvent and a clean, lint-free tissue. Wipe **lightly** in a concentric pattern to avoid scratching the faces.

Inspect the seal components for wear, scoring, grooves, and other damage that might cause leakage. Clean and polish the shaft sleeve (33), or replace it if there are nicks or cuts on either end. If any components are worn, replace the complete seal; **never mix old and new seal parts.**

If a replacement seal is being used, remove it from the container and inspect the precision finished faces to ensure that they are free of any foreign matter.

To ease installation of the seal, lubricate the O-rings and shaft sleeve (17) with water or a very **small** amount of oil, and apply a drop of light lubricating oil on the finished faces. Assemble the seal as follows, (see Figure 3).

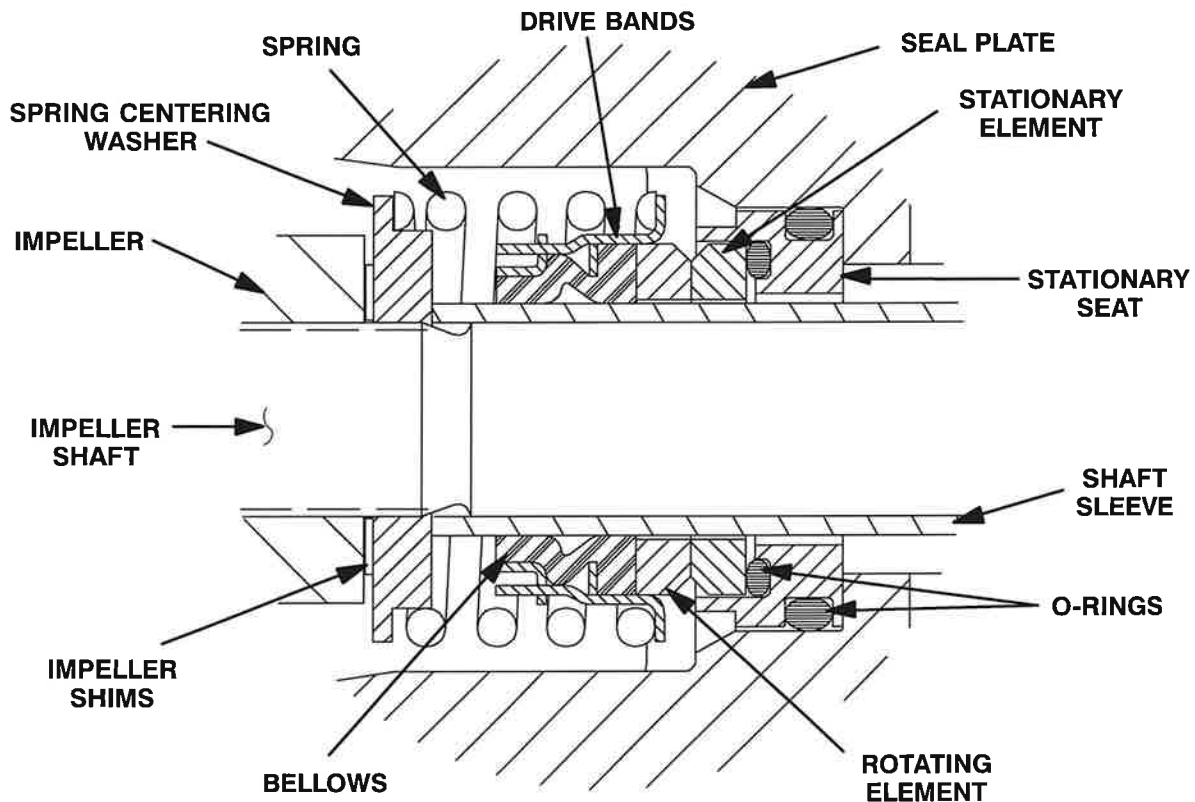


Figure 3. Seal Assembly



This seal is not designed for operation at temperatures above 160°F (71°C). Do not use at higher operating temperatures.

Position the seal plate (8) on a flat surface with the impeller side down. Apply a light coat of oil to the oil seal (13) and press it into the seal plate with the lips positioned as shown in Figure 1.

With the seal plate on a flat surface with the impeller side up, press the stationary subassembly (consisting of the stationary seat, O-rings and stationary element) into the seal plate until the stationary seat bottoms against the seal plate bore. A push tube cut from a length of plastic pipe would aid this installation. The I.D. of the pipe should be approximately the same diameter as the I.D. of the seal spring.

Slide the seal plate over the shaft until fully seated against the pedestal (30). **Be careful** not to damage the oil seal lip on the shaft threads.

Align the threaded seal lubricant hole with the pedestal opening and temporarily secure the seal plate using two capscrews and nuts (3/8-16 UNC X 1 1/2 inch long, not supplied).

Slide the rotating subassembly (consisting of the rotating element retainer and bellows) onto the lubricated shaft sleeve until the rotating element is **just flush** with the chamfered end of the sleeve. Slide the sleeve and rotating subassembly onto the shaft until the seal elements contact. Continue to push the sleeve through the seal until it bottoms against the shaft shoulder. **Be careful** not to damage or roll the lip of the oil seal (13).

Install the seal spring and spring centering washer (43).

Reinstall the bottle oiler and piping (9, 10, 11 and 12), and lubricate the seal assembly as indicated in **LUBRICATION**, after the impeller has been installed.

### Impeller Installation and Adjustment

Inspect the impeller, and replace it if cracked or badly worn. Install the same thickness of impeller shims (6) as previously removed, and screw the impeller onto the shaft until tight.

A clearance of .010 to .012 inch (0,25 to 0,30 mm) between the impeller and the seal plate is necessary for maximum pump efficiency. Measure this clearance and add or remove impeller shims until this clearance is reached.

#### NOTE

*Be sure the seal plate is tight against the pedestal while measuring this clearance.*

### Pump Casing Installation

Remove the hardware temporarily securing the seal plate to the pedestal. Install the same thickness of pump casing gaskets (7) as previously removed, and secure the pump casing (1) to the seal plate (8) and pedestal (30) with the nuts (15). **Do not** fully tighten the nuts at this time.

#### NOTE

*The back cover assembly must be in place to adjust the impeller face clearance.*

A clearance of .008 to .015 inch (0,20 to 0,38 mm) between the impeller and the wear plate (38) is also recommended for maximum pump efficiency. Set this clearance by adding or removing gaskets in the pump casing gasket set (7) until the impeller scrapes against the wear plate when the shaft is turned. After the impeller scrapes, add approximately .008 inch (0,20 mm) of gaskets.

After the face clearance has been set, tighten the nuts (15) securing the pump casing to the pedestal.

### Back Cover Installation

If the wear plate (36) was removed for replacement, secure it to the cover plate (34) using the attaching hardware (21 and 23) at this time. The wear plate must be concentric to prevent binding when the back cover is installed.

Clean any scale or debris from the contacting surfaces on the pump casing that might prevent a good seal with the back cover. Replace the back cover gasket (35) and slide the back cover assembly into the pump casing. Be sure the wear plate does not bind against the impeller.

#### NOTE

*To ease future disassembly, apply a film of grease or 'Never-Seez' on the back cover shoulder, or any surface that contacts the pump casing. This action will reduce rust and scale build-up.*

Secure the back cover assembly by installing the clamp bar (33) and tightening the clamp bar screw (32). **Do not** over-tighten the clamp bar screw; it should be just tight enough to seal the back cover shoulder.

### Suction Check Valve Installation

Inspect the check valve components and replace as required. Subassemble the check valve weights and check valve gasket using the previously removed hardware.

Position the check valve assembly (39) over the studs (37) with the large weight toward the inside of the pump casing. Install the suction flange and secure with the nuts (15). Check the operation of the check valve to ensure proper seating and free movement.

### Final Pump Assembly

Secure the pump to the base with the previously removed hardware. Connect the power source. Be sure to reinstall any leveling shims used under the pump mounting feet.

**Be sure** the pump and power source are securely mounted to the base.

Install the suction and discharge lines and open all valves. Make certain that all piping connections are tight, properly supported and secure. Open all the valves in the suction and discharge lines.

**Be sure** the pump and power source have been properly lubricated, see **LUBRICATION**.

Remove the fill plug assembly (4) and fill the pump casing with clean liquid. Reinstall the fill plug and tighten it.

Refer to **OPERATION**, Section C, before putting the pump back into service.

## LUBRICATION

### Seal Assembly

Fill the bottle oiler (9) with SAE No. 30 non-detergent oil. Check the oil level regularly and keep the bottle oiler full.

### Bearings

The pedestal was fully lubricated when shipped from the factory. Under normal conditions, add one shot of No. 0 lithium base grease from a grease gun through the grease fittings (16) after each 250 hours of operation or once each month, whichever comes first. **Do not** over lubricate. Over lubrication can cause the bearings to over heat, resulting in premature bearing failure.



If grease is forced out around the shaft as new grease is added, the lubrication cavity

is full and no more grease should be added at this time.

There are no provisions in the bearing cavity to drain or flush the lubricant. The pump and pedestal must be disassembled to completely clean and maintain this cavity.

Under normal conditions, change the grease after each 5000 hours of operation, or at 12 month intervals, whichever comes first. Change the grease more frequently if the pump is operated continuously or installed in an environment where variable hot and cold temperatures are common.

When lubricating a dry (overhauled) pedestal, fill the cavities through the lubrication fittings with approximately 2 ounces (57 grams) of grease each.

For cold weather operation, consult the factory or a lubricant supplier for the recommended grade of lubricant.

### Power Source

Consult the literature supplied with the power source, or contact your local power source representative.

**For Warranty Information, Please Visit  
[www.grpumps.com/warranty](http://www.grpumps.com/warranty)  
or call:  
U.S.: 419-755-1280  
Canada: 519-631-2870  
International: +1-419-755-1352**

Cc: Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>  
Subject: [External] RE: Modern Plating CAMU Information

li Collier,

Attached is the manual we got with the system for the level sensor and flow meter. Also the manual that came with a new pump is attached. I believe that hits all the sections that refer to O&M. Please let me know if this satisfies the requirements.

Regards,

**Brandon Smith**  
President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

**(815) 235-3111 Phone**  
**(815) 235-4571 Fax**

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**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, April 29, 2025 8:18 AM  
**To:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>  
**Cc:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>  
**Subject:** RE: Modern Plating CAMU Information

---

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Thank you for the document, but it does not meet the criteria of what I was looking for. The Permit renewal application tables B-1 & B-2 mentions the operations and maintenance (O&M) manual, this would be something provided by the manufacturers of the various systems in the CAMU.

**From:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>  
**Sent:** Monday, April 28, 2025 4:43 PM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Cc:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>  
**Subject:** [External] RE: Modern Plating CAMU Information

Good Afternoon Collier,

I attached the PM that we use for the CAMU. Please make sure it's on the CAMU tab – the rest is for other areas. This is our normal procedure to PM the system. I have copies of the completed forms if you need some. Is this the material you were looking for?

Regards,

**Brandon Smith**  
President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

**(815) 235-3111 Phone**  
**(815) 235-4571 Fax**

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**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Sent:** Friday, April 25, 2025 10:56 AM  
**To:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>  
**Cc:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Subject:** RE: Modern Plating CAMU Information

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Hi Brandon,

That was Collier Sanders, and I've CC'd him for both of your convenience.

Thanks,

Max.



**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section  
Illinois Environmental Protection Agency

4302 North Main Street  
Rockford, IL 61103

(815) 987-4961    [Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)  
(815) 391-1294    <https://epa.Illinois.gov/>

**From:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>  
**Sent:** Friday, April 25, 2025 10:54 AM  
**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Subject:** [External] RE: Modern Plating CAMU Information

Hi Max,

I'm working on getting copies of O&M manuals for your team member that asked about them. Do you have his contact information so I can send it to him directly?

Regards,

**Brandon Smith**  
President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

**(815) 235-3111 Phone**  
**(815) 235-4571 Fax**

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**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Sent:** Friday, April 25, 2025 8:15 AM  
**To:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>  
**Cc:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>; Pete Servatius <[pete.servatius@modernplating.com](mailto:pete.servatius@modernplating.com)>  
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Thanks for the update Gerald,

Looking forward to hearing from you soon.



**Maxwell Boes | Environmental Protection Geologist**

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4302 North Main Street  
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**From:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>

**Sent:** Thursday, April 24, 2025 3:40 PM

**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Cc:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>; brandon.smith <[brandon.smith@modernplating.com](mailto:brandon.smith@modernplating.com)>; Pete Servatius <[pete.servatius@modernplating.com](mailto:pete.servatius@modernplating.com)>

**Subject:** [External] Modern Plating CAMU Information

Good afternoon Max,

We are in the process of gathering up all our surveys from Modern Plating along with emails from Foth and should have you your information early next week.

Just wanted to get you an update, thanks!

Gerald

**Gerald Reed | Senior EHS Technician**  
**Fehr Graham | Engineering & Environmental**

101 West Stephenson Street

Freeport, Illinois 61032

P: 815.235.7643

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**Sanders, Collier**

---

**From:** Boes, Maxwell G.  
**Sent:** Friday, May 2, 2025 1:37 PM  
**To:** Sanders, Collier  
**Subject:** FW: Modern Plating CAMU Information  
**Attachments:** Modern Plating CAMU final grades highlighted.pdf; 2021\_1029\_21-112\_CAMU Contours.pdf

Passing this along in case you are interested in taking a peek.

**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

4302 North Main Street  
 Rockford, IL 61103

(815) 987-4961

(815) 391-1294

[Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

<https://epa.illinois.gov/>

**From:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>

**Sent:** Friday, May 2, 2025 10:38 AM

**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Cc:** brandon.smith <[brandon.smith@modernplating.com](mailto:brandon.smith@modernplating.com)>; Pete Servatius <[pete.servatius@modernplating.com](mailto:pete.servatius@modernplating.com)>; Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>

**Subject:** [External] RE: Modern Plating CAMU Information

Good morning Max,

Please see the attached drawings referencing the CAMU. Fehr Graham did a TOPO of the CAMU when we did the permit renewal back in 2021 while we were shooting all of the monitoring wells, and that is provided as "2021\_1029\_21-112\_CAMU Contours". If we compare that with the "CAMU Final Grades Highlighted" map, we can see that yes, the entire structure has settled approximately one foot since it was completed, but if you look at the contour lines, they are almost an exact duplicate between the original and 2021 layouts, thus proving that there has been no significant subsidence in any one area, just the entire cover.

Let me know if you need any further information, thank you.

Gerald Reed

GERALD REED | Senior Environmental Technician

Fehr Graham | Engineering & Environmental

**From:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Sent:** Friday, April 25, 2025 8:15 AM

**To:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>

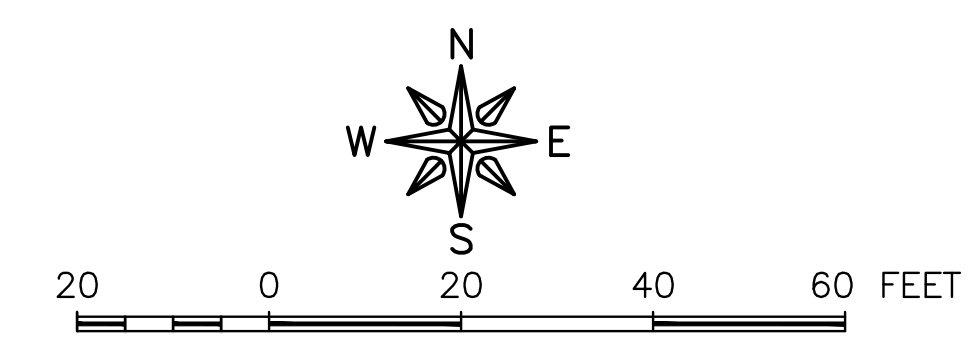
**Cc:** brandon.smith <[brandon.smith@modernplating.com](mailto:brandon.smith@modernplating.com)>; Pete Servatius <[pete.servatius@modernplating.com](mailto:pete.servatius@modernplating.com)>

**Subject:** RE: Modern Plating CAMU Information



### EXHIBIT MODERN PLATING FREEPORT, ILLINOIS CAMU TOPOGRAPHY

BENCHMARK INFORMATION	
BM20	= CUT SQUARE ON WALL N-2049696.41, E-2450605.72, ELEV-779.00
BM21	= 5/8" REBAR W/ ORANGE CAP (CP21) N-2049724.80, E-2450689.74, ELEV-775.27
BM22	= 5/8" REBAR W/ ORANGE CAP (CP22) N-2049763.12, E-2450394.60, ELEV-773.15



10/29/21

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

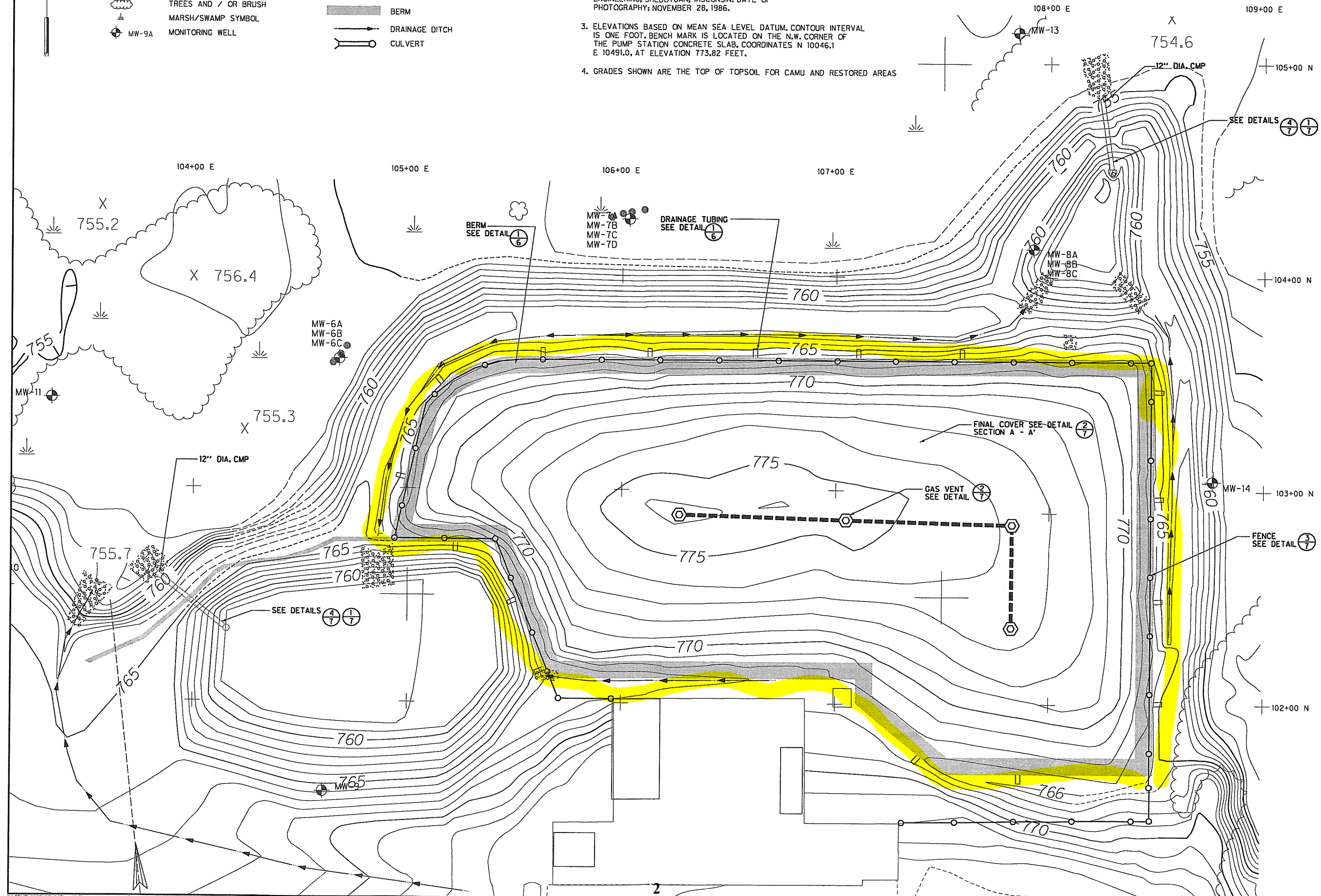
© 2021 FEHR GRAHAM



LEGEND	
	EXISTING BUILDING
X 759.4	EXISTING SPOT ELEVATION
	DEPRESSION
	TREES AND / OR BRUSH
	MARSH/SWAMP SYMBOL
MW-9A	MONITORING WELL
	DESIGN FINAL COVER GRADES
	SECURITY FENCE
	RIP RAP
	BERM
	DRAINAGE DITCH
	CULVERT

**NOTES:**

1. SITE LOCATION: SE 1/4 OF SECTION 32, T27N, R8E, STEPHENSON COUNTY, ILLINOIS.
2. TOPOGRAPHICAL MAP PREPARED BY AERO-METRIC ENGINEERING, SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY: NOVEMBER 28, 1986.
3. ELEVATIONS BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS ONE FOOT. BENCH MARK IS LOCATED ON THE N.W. CORNER OF THE PUMP STATION CONCRETE SLAB, COORDINATES N 10046.1 E 10491.0, AT ELEVATION 773.82 FEET.
4. GRADES SHOWN ARE THE TOP OF TOPSOIL FOR CAMU AND RESTORED AREAS



CADD PROJ CODE: 0M49	DATE: JULY 2001
DRAWN BY: JOW	DATE: N.A.
SURVEYED BY: N.A.	DATE: N.A.
SURVEY DATA:	

REVISIONS / REMARKS	
NO.	DATE
BY	DATE
MUCI	OB/07/01
APPROVED	
REM	OB/07/01
REVIEWED	
BJSI	OB/07/01
DESIGNED	

**Foth & Van Dyke**  
 consultants - engineers - scientists

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RECORD DRAWINGS FOR THE  
 CLOSURE OF THE CORRECTIVE ACTION  
 MANAGEMENT UNIT (CAMU) AND REMEDIATED UNITS  
 MODERN PLATING CORPORATION FACILITY  
 FREEPORT, ILLINOIS

**CAMU FINAL GRADES  
 SHOWING GAS VENTING SYSTEM**

SCALE	0' 20' 40'
SCOPE ID	97M015
DRAWING NO.	5

Thanks for the update Gerald,

Looking forward to hearing from you soon.



**Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

4302 North Main Street  
Rockford, IL 61103

(815) 987-4961

(815) 391-1294

✉ [Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

🖱 <https://epa.illinois.gov/>

**From:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>

**Sent:** Thursday, April 24, 2025 3:40 PM

**To:** Boes, Maxwell G. <[Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)>

**Cc:** Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>; brandon.smith <[brandon.smith@modernplating.com](mailto:brandon.smith@modernplating.com)>; Pete Servatius <[pete.servatius@modernplating.com](mailto:pete.servatius@modernplating.com)>

**Subject:** [External] Modern Plating CAMU Information

Good afternoon Max,

We are in the process of gathering up all our surveys from Modern Plating along with emails from Foth and should have you your information early next week.

Just wanted to get you an update, thanks!

Gerald

**Gerald Reed | Senior EHS Technician**  
**Fehr Graham | Engineering & Environmental**

101 West Stephenson Street  
Freeport, Illinois 61032  
P: 815.235.7643  
C: 815.821.5534  
E: [greed@fehrgraham.com](mailto:greed@fehrgraham.com)  
[fehrgraham.com](http://fehrgraham.com)

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**Sanders, Collier**

---

**From:** Frost, Brad  
**Sent:** Wednesday, May 14, 2025 8:02 AM  
**To:** Guy, Jeff  
**Cc:** Sanders, Collier; Halteman, Takako  
**Subject:** RE: Application CD

Yes, we send the public copy of the application as we receive it. Some things (modelling runs, etc.) do not translate to paper. To the extent that someone would not be able to access something in an application, they can contact us for an alternate format.

**From:** Guy, Jeff <Jeff.Guy@Illinois.gov>  
**Sent:** Tuesday, May 13, 2025 10:26 AM  
**To:** Frost, Brad <Brad.Frost@Illinois.gov>  
**Subject:** FW: Application CD

I am unsure how to respond to this

---

**From:** Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Sent:** Tuesday, May 13, 2025 8:28 AM  
**To:** Guy, Jeff <Jeff.Guy@Illinois.gov>  
**Cc:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** Application CD

Jeff,

I was wondering if a permit application has a CD in it, would it be acceptable for the draft copies that get sent out to local libraries to have a CD copy as well (if the library has a CD reader); or is a physical copy required? Thank you for any guidance on this matter.



**Collier Sanders (He/Him)**

Environmental Protection Engineer I  
 Bureau of Land  
 Permits -- RCRA Unit  
 217-786-0749  
[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Sanders, Collier**

---

**From:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Sent:** Tuesday, May 20, 2025 4:52 PM  
**To:** Sanders, Collier; greed@fehrgraham.com  
**Cc:** Halteman, Takako; Samson, Curtis; Fullriede, Aidan S.  
**Subject:** [External] RE: Modern Plating - Request for Information  
**Attachments:** 2024 Modern Plating Annual Inspection.pdf

Hi Collier,

Attached is the annual fire system inspection report provided by Nelson Fire. The city of Freeport doesn't do inspections anymore. They sub it out to a system called "compliance engine" which Nelson submits their inspection through. Please let me know if you have questions.

Regards,

**Brandon Smith**  
 President / CEO  
 Modern Plating Corporation  
 701 S. Hancock Ave  
 Freeport, IL 61032

**(815) 235-3111 Phone**

**(815) 235-4571 Fax**

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---

**From:** Brandon Smith  
**Sent:** Monday, May 19, 2025 4:16 PM  
**To:** 'Sanders, Collier' <Collier.Sanders@Illinois.gov>; greed@fehrgraham.com  
**Cc:** Halteman, Takako <Takako.Halteman@Illinois.gov>; Samson, Curtis <Curtis.Samson@Illinois.gov>; Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>  
**Subject:** RE: Modern Plating - Request for Information

Thanks Collier,

We will work to get the required materials to you as fast as we can.

Just an FYI – Foth is the company responsible for the permit renewal process since they were the original firm that created the CAMU initially. I've forwarded this them and they will be in touch. I wanted to let you know since you may get emails directly from them. Fehr Graham helps us out locally because Foth is out of Green Bay.

Regards,

**Brandon Smith**

President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

**(815) 235-3111 Phone**

**(815) 235-4571 Fax**

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**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>

**Sent:** Monday, May 19, 2025 3:58 PM

**To:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>; [greed@fehrgraham.com](mailto:greed@fehrgraham.com)

**Cc:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>; Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>; Fullriede, Aidan S. <[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)>

**Subject:** Modern Plating - Request for Information

**WARNING:** This email originated from outside of Modern Plating Co. DO NOT click links or open attachments unless you recognize the sender and know the content is safe.

Brandon/Gerald,

Good news! I have completed my technical review. To avoid having to issue a Notice of Deficiency (NOD) I have a few key items that if handled expediently will allow me to move forward with issuing a draft permit. There will be other additional items still needed to be submitted at a later date for the application, but these critical items are the roadblocks for issuance of a draft permit:

- 1) The facility did not complete "RCRA Subtitle C Site Identification Form" portion of the Part A application. Please submit the complete Part A Form. (item A.1)
- 2) Site Identification: Correct USEPA ID Number must be listed. It should be ILD005172325 instead of ILD0005172325. Existing RCRA Permit should reference Log No. B-167R instead of the Illinois EPA ID number. (attachment 1)
- 3) The facility must provide a statement signed by an independent fire control professional, or the responsible fire department, certifying that the facility has water at adequate volume and pressure to supply water hose streams, foam producing equipment, automatic sprinklers, or water spray systems. The document must include an original signature from the fire control professional or responsible fire department. (item D.2.5)
- 4) Your application referenced 2 figures that were missing in the application we received. They are:  
(1) Drawing 12, referenced in Section D.2.2; and (2) Figure G-1 referenced in Section D.4

Please note, above additional information must also be accompanied by a signed LPC PA-23 form.

If these are submitted to me before June 2nd, I will forgo issuing a NOD and will be able to have your permit completed in a more expedient manner since there will not be a back and forth due to a NOD. To reiterate, there will still be other items addressed as permit conditions at later dates, but these are the items that are absolutely necessary for Illinois EPA issuing the draft permit.

Please let me know if above items can be submitted as an addendum to the permit application by June 2.

I appreciate your assistance with these matters and should you have any questions, please reach out to me via email or at my work phone, both located below.



**Collier Sanders (He/Him)**

Environmental Protection Engineer I

Bureau of Land

Permits -- RCRA Unit

217-786-0749

[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Sanders, Collier**

---

**From:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Sent:** Friday, May 30, 2025 1:44 PM  
**To:** Sanders, Collier  
**Cc:** Hallett, Heather L; Gerald Reed  
**Subject:** [External] Response to request for information  
**Attachments:** Drawing 12.pdf; Figure G-1.pdf; RCRA Subtitle C section of 8700 form for permit renewal 5-30-2025.pdf; 2024 Modern Plating Annual Inspection.pdf

Hi Collier,

We just sent the signed and notarized documents certified mail today. Here is an electronic version for your convenience. Let me know if you have any questions.

Regards,

**Brandon Smith**  
President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

---

**(815) 235-3111 Phone**

**(815) 235-4571 Fax**

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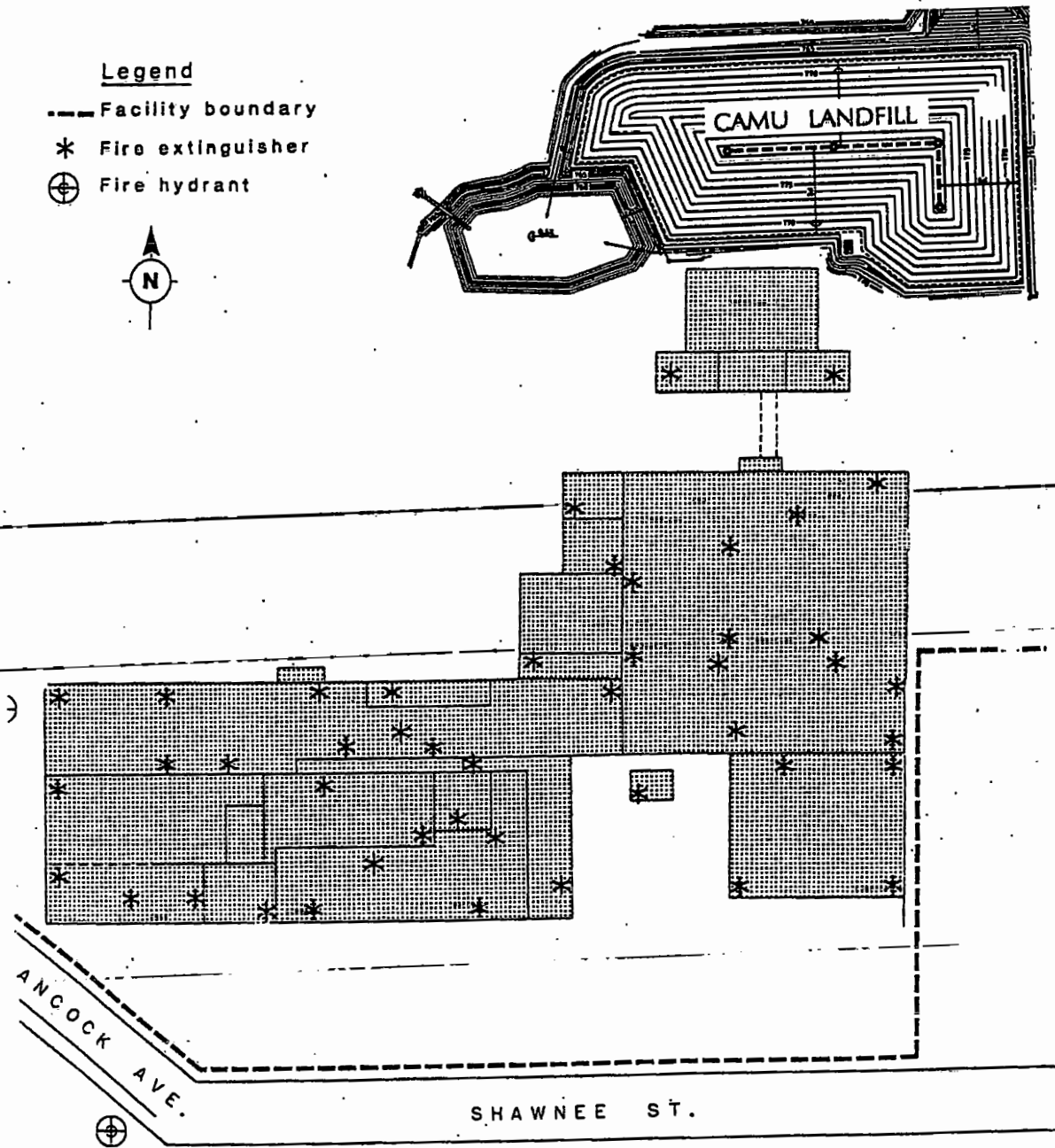


Figure G-1

17a



**NELSON FIRE PROTECTION CO.**

10853 N. 2nd Street  
 Rockford, IL 61115  
 Ph: (815) 877-6004 Fax: (815) 877-6042

**REPORT OF INSPECTION**  
**Compliance Engine**

Annual     X      
 Semiannual       
 Quarterly     

REPORT TO Modern Plating BUILDING LOCATION Same  
 STREET 701 S Hancock INSPECTOR Rob Grismore FSI0346  
 CITY/STATE Freeport, IL 61032 DATE 09.26.2024

1. GENERAL	YES	N.A.+	NO*
a. Is the building occupied according to information furnished by owner or owner's representative?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
b. Is occupancy same as previous inspection according to information furnished by owner or owner's representative?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
c. Are all systems in service?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
d. Are all fire protection systems same as last inspection according to information furnished by owner or owner's representative?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
e. Is building completely sprinklered?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
f. Are all new additions and building changes properly protected according to information furnished by owner or owner's representative?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
g. Is all stock or storage properly below sprinkler piping?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
h. Was property free of fires since last inspection according to information furnished by owner or owner's representative? (Explain any fire on separate sheet).....	<u>    X    </u>	<u>    </u>	<u>    </u>
i. In areas protected by wet system, does the building appear to be properly heated in all areas, including blind attics, perimeter areas and are all exterior openings protected against entrance of cold air?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
j. Are hydraulic placards displayed at riser?.....	<u>    </u>	<u>    </u>	<u>    </u>
2. CONTROL VALVES (See Section 16)			
a. Are all sprinkler system main control valves open?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
b. Are all other valves in proper position?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
c. Are all control valves in good condition and sealed or supervised?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    X    </u>
3. WATER SUPPLIES (See Section 17)	YES	N.A.+	NO*
a. Was a water flow test made and results satisfactory?.....	<u>    X    </u>	<u>    ●●●●●    </u>	<u>    </u>
4. TANKS, PUMPS, FIRE DEPT. CONNECTIONS			
a. Are fire pumps, gravity tanks, reservoirs and pressure tanks in good condition and properly maintained?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
b. Are fire dept. connections in satisfactory condition, couplings free, caps in place and check valves tight?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
5. WET SYSTEMS (See Section 13)			
a. Have anti-freeze systems been tested and left in satisfactory condition?...	<u>    </u>	<u>    </u>	<u>    X    </u>
b. Are alarm valves, water-flow indicators and retards in satisfactory condition?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
6. DRY SYSTEMS (See Section 14)			
a. Is dry valve in service and in good condition?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
b. Is air pressure and priming water level normal?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
c. Is air compressor in good condition?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
d. Were low points drained during fall and winter inspection?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
e. Are quick-opening devices in service?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
f. Have dry valves been trip tested satisfactory as required?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
g. Are dry valves adequately protected from freezing?.....	<u>    X    </u>	<u>    </u>	<u>    </u>
h. Are valve house and heater condition satisfactory?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
7. SPECIAL SYSTEMS (See Section 18)			
a. Were valves tested as required?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
b. Were all heat responsive system tested and results satisfactory?.....	<u>    </u>	<u>    </u>	<u>    X    </u>
c. Were supervisory features tested and results satisfactory?.....	<u>    </u>	<u>    </u>	<u>    X    </u>



**NELSON FIRE PROTECTION CO.**

10853 N. 2nd Street  
 Rockford, IL 61115  
 Ph: (815) 877-6004 Fax: (815) 877-6042

**DRY PIPE VALVE TRIP TEST REPORT**

Compliance Engine

FOR Modern Plating  
 STREET 701 S. Hancock, Freeport, IL  
 DATE OF TRIP TEST 09.26.2024 INSPECTOR Rob Grismore FSI0346

Annual X  
 Semiannual \_\_\_\_\_  
 Quarterly \_\_\_\_\_

**STANDARD FORM OF THE NATIONAL AUTOMATIC SPRINKLER AND FIRE CONTROL ASSOCIATION INC.**

NOTE: BEFORE ANY DRY PIPE VALVE IS TRIP TESTED, THE WATER SUPPLY LINE TO IT SHOULD BE THOROUGHLY FLUSHED. THE TWO INCH DRAIN BELOW THE VALVE SHOULD BE OPENED WIDE, AND WATER AT FULL PRESSURE SHOULD BE DISCHARGED LONG ENOUGH TO CLEAR THE PIPE OF ANY ACCUMULATION OF SCALE OR FOREIGN MATERIAL. IF THERE IS A HYDRANT ON THE SUPPLY LINE, THIS HYDRANT SHOULD BE FLUSHED BEFORE THE TWO INCH DRAIN IS OPENED. THE DRIP VALVE ON THE DRY PIPE VALVE SHOULD BE CHECKED BEFORE TRIPPING THE DRY PIPE VALVE, TO SEE THAT IT IS IN OPERATING CONDITION.


DRY PIPE VALVES		SYSTEM NO ( 6 )	SYSTEM NO ( 13 )	SYSTEM NO ( 14 )	SYSTEM NC ( )
Valve Serial No.			N/A		
Manufacturer (Name)					
Valve Model		Tyco	Tyco	Reliable	
Valve Size		6 Inch	6 Inch	4 Inch	Inch
Controlling Sprinkle	(Location)	Loading Dock	Warehouse	Warehouse & Shop	
	(Number)	50 (Approx)	200 (Approx)	250 (Approx)	(Approx)
Date Last Trip Tested?		2024	2024	2024	
Date Last Operated?		2024	2024	2024	
Pressure Before Test	Air	50 LBS	50 LBS	40 LBS	LBS
	Water	80 LBS	80 LBS	80 LBS	LBS
Size and Location of Test Valve		1" Loading Deck	1" I.T.V., Shop	1" by stairs	
Was Gate Valve Below Dry Valve Open Wide At Test? (If not, how many turns?)		Yes	Yes	Yes	
Valve Tripped At	Air Pressure	15 LBS	15 LBS	12 LBS	LBS
	Water Pressure	80 LBS	80 LBS	80 LBS	LBS
	Time	Min 25 Sec	Min 30 Sec	Min 25 Sec	Min Sec
If System Flooded, List Time Water Reached Test Opening		N/A	N/A	N/A	
		Min 30 Sec	Min 45 Sec	Min 45 Sec	Min Sec
PERFORMANCE		Good	Good	OK	
Valve Condition	Interior of Body	Good	Good	OK	
	Moving parts	Good	Good	OK	
	Rubber Facing	Good	Good	OK	
	Seats	Good	Good	OK	
	Reset?	Yes	Yes	Yes	
Did Alarms Operate At Trip Test?		Yes	Yes	NO	
All Low point Drains Blown Out?		N/A	N/A	N/A	
Water Control Valve Left Open & Sealed?		Yes	Yes	Yes	
Alarm Control Valve Left Open & Sealed?		Yes	Yes	Yes	
QUICK OPENING DEVICES		SYSTEM NO ( )	SYSTEM NO ( )	SYSTEM NO ( )	SYSTEM NC ( )
Device Serial Number					
Manufacturer (Name)					
Type and Model					
Air Pressure In Upper Chamber		Lbs		LBS	LBS
Quick Opening Device Tripped At		Sec LBS		Sec LBS	Sec LBS
PERFORMANCE					
Quick Opening Device Left In Service and Control Open and Sealed?					

**BUILDING OWNER RESPONSIBLE FOR DRAINING ALL LOW POINT DRAINS.**

List Any Unsatisfactory Conditions:

Remarks:

Property Owner Nelson Fire Protection Rob Grismore

<b>United States Environmental Protection Agency</b> <b>RCRA SUBTITLE C SITE IDENTIFICATION FORM</b>	
---	---

**1. Reason for Submittal (Select only one.)**

<input type="checkbox"/>	Obtaining or updating an EPA ID number for on-going regulated activities (Items 10-17 below) that will continue for a period of time.
<input type="checkbox"/>	Submitting as a component of the Hazardous Waste Report for _____ (Reporting Year)
<input type="checkbox"/>	Site was a TSD facility, a reverse distributor, and/or generator of $\geq 1,000$ kg of non-acute hazardous waste, $> 1$ kg of acute hazardous waste, or $> 100$ kg of acute hazardous waste spill cleanup in <b>one or more months of the reporting year</b> (or State equivalent LQG regulations)
<input type="checkbox"/>	Notifying that regulated activity is no longer occurring at this Site
<input type="checkbox"/>	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities
<input checked="" type="checkbox"/>	Submitting a new or revised Part A (permit) Form

**2. Site EPA ID Number**

-1-	-L-	-D-	-0-	-0-	-5-	-1-	-7-	-2-	-3-	-2-	-5-
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

**3. Site Name**

<b>Modern Plating Corporation</b>
-----------------------------------

**4. Site Location Address**

Street Address <b>701 South Hancock Avenue, PO Box 838</b>			
City, Town, or Village <b>Freeport</b>		County <b>Stephenson</b>	
State <b>IL</b>	Country <b>USA</b>	Zip Code <b>61032</b>	
Latitude <b>42 17'36.30" N</b>	Longitude <b>89 35'50.95" W</b>	<input type="checkbox"/> Use Lat/Long as Primary Address	

**5. Site Mailing Address**

Same as Location Street Address

Street Address <b>PO Box 838</b>			
City, Town, or Village <b>Freeport</b>			
State <b>IL</b>	Country <b>USA</b>	Zip Code <b>61032-0838</b>	

**6. Site Land Type**

<input checked="" type="checkbox"/> Private	<input type="checkbox"/> County	<input type="checkbox"/> District	<input type="checkbox"/> Federal	<input type="checkbox"/> Tribal	<input type="checkbox"/> Municipal	<input type="checkbox"/> State	<input type="checkbox"/> Other
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**7. North American Industry Classification System (NAICS) Code(s) for the Site (at least 5-digit codes)**

A. (Primary) <b>332813</b>	C.
B.	D.

EPA ID Number

I L D 0 0 5 1 7 2 3 2 5

OMB# 2050-0024; Expires 04/30/2024

## 8. Site Contact Information

 Same as Location Address

First Name	<b>Brandon</b>	MI	Last Name	<b>Smith</b>	
Title	<b>President/CEO</b>				
Street Address	<b>701 South Hancock Avenue, P.O. Box 838</b>				
City, Town, or Village	<b>Freeport</b>				
State	<b>IL</b>	Country	<b>USA</b>	Zip Code	<b>61032-0838</b>
Email	<b>brandon.smith@modernplating.com</b>				
Phone	<b>(815) 235-3111</b>	Ext		Fax	

## 9. Legal Owner and Operator of the Site

## A. Name of Site's Legal Owner

 Same as Location Address

Full Name	<b>David Servatius</b>	Date Became Owner (mm/dd/yyyy)	
Owner Type	<input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
Street Address	<b>701 South Hancock Avenue, P.O. Box 838</b>		
City, Town, or Village	<b>Freeport</b>		
State	<b>IL</b>	Country	<b>USA</b>
Zip Code	<b>61032-0838</b>		
Email	<b>dave.servatius@modernplating.com</b>		
Phone	<b>(815) 235-3111</b>	Ext	
Fax			
Comments			

## B. Name of Site's Legal Operator

 Same as Location Address

Full Name	<b>Brandon Smith</b>	Date Became Operator (mm/dd/yyyy)	<b>7/15/2022</b>
Operator Type	<input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
Street Address	<b>701 South Hancock Avenue, P.O. Box 838</b>		
City, Town, or Village	<b>Freeport</b>		
State	<b>IL</b>	Country	<b>USA</b>
Zip Code	<b>61032-0838</b>		
Email	<b>brandon.smith@modernplating.com</b>		
Phone	<b>(815) 235-3111</b>	Ext	
Fax			
Comments			

**10. Type of Regulated Waste Activity (at your site)**

Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

**A. Hazardous Waste Activities**

<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1. Generator of Hazardous Waste—If "Yes", mark only one of the following—a, b, c	
<input checked="" type="checkbox"/>	a. LQG	-Generates, in any calendar month, 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste (includes quantities imported by importer site); or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
<input type="checkbox"/>	b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
<input type="checkbox"/>	c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2. Short-Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section. <i>Note: If "Yes", you MUST indicate that you are a Generator of Hazardous Waste in Item 10.A.1 above.</i>	
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	3. Treater, Storer, or Disposer of Hazardous Waste—Note: Part B of a hazardous waste permit is required for these activities.	
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	4. Receives Hazardous Waste from Off-site	
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	5. Recycler of Hazardous Waste	
<input type="checkbox"/>	a. Recycler who stores prior to recycling	
<input type="checkbox"/>	b. Recycler who does not store prior to recycling	
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	6. Exempt Boiler and/or Industrial Furnace—If "Yes", mark all that apply.	
<input type="checkbox"/>	a. Small Quantity On-site Burner Exemption	
<input type="checkbox"/>	b. Smelting, Melting, and Refining Furnace Exemption	

**B. Waste Codes for Federally Regulated Hazardous Wastes.** Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

F006	D002	D007				

**C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes.** Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.


**11. Additional Regulated Waste Activities (NOTE: Refer to your State regulations to determine if a separate permit is required.)**

**A. Other Waste Activities**

<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1. Transporter of Hazardous Waste—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Transporter
<input type="checkbox"/>	b. Transfer Facility (at your site)
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2. Underground Injection Control
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	3. United States Importer of Hazardous Waste
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	4. Recognized Trader—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Importer
<input type="checkbox"/>	b. Exporter
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	5. Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Importer
<input type="checkbox"/>	b. Exporter

**B. Universal Waste Activities**

<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If “Yes” mark all that apply. Note: Refer to your State regulations to determine what is regulated.
<input type="checkbox"/>	a. Batteries
<input type="checkbox"/>	b. Pesticides
<input type="checkbox"/>	c. Mercury containing equipment
<input type="checkbox"/>	d. Lamps
<input type="checkbox"/>	e. Aerosol Cans
<input type="checkbox"/>	f. Other (specify) _____
<input type="checkbox"/>	g. Other (specify) _____
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.

**C. Used Oil Activities**

<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1. Used Oil Transporter—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Transporter
<input type="checkbox"/>	b. Transfer Facility (at your site)
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2. Used Oil Processor and/or Re-refiner—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Processor
<input type="checkbox"/>	b. Re-refiner
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	3. Off-Specification Used Oil Burner
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	4. Used Oil Fuel Marketer—If “Yes”, mark all that apply.
<input type="checkbox"/>	a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
<input type="checkbox"/>	b. Marketer Who First Claims the Used Oil Meets the Specifications

EPA ID Number 

I	L	D	0	0	5	1	7	2	3	2	5
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**D. Pharmaceutical Activities**

<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	1. Operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals—if “Yes”, mark only one. Note: See the item-by-item instructions for definitions of healthcare facility and reverse distributor.
		<input type="checkbox"/> a. Healthcare Facility
		<input type="checkbox"/> b. Reverse Distributor
<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	2. Withdrawing from operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals. Note: You may only withdraw if you are a healthcare facility that is a VSQG for all of your hazardous waste, including hazardous waste pharmaceuticals.

**12. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262, Subpart K.**

<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	A. Opting into or currently operating under 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories— If “Yes”, mark all that apply. Note: See the item-by-item instructions for definitions of types of eligible academic entities.
		<input type="checkbox"/> 1. College or University
		<input type="checkbox"/> 2. Teaching Hospital that is owned by or has a formal written affiliation with a college or university
		<input type="checkbox"/> 3. Non-profit Institute that is owned by or has a formal written affiliation with a college or university
<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	B. Withdrawing from 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories.

**13. Episodic Generation**

<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category. If “Yes”, you must fill out the Addendum for Episodic Generator.
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**14. LQG Consolidation of VSQG Hazardous Waste**

<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Are you an LQG notifying of consolidating VSQG Hazardous Waste Under the Control of the Same Person pursuant to 40 CFR 262.17(f)? If “Yes”, you must fill out the Addendum for LQG Consolidation of VSQG hazardous waste.
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**15. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (required)**

<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility.
		A. <input type="checkbox"/> Central Accumulation Area (CAA) or <input type="checkbox"/> Entire Facility
		B. Expected closure date: _____ mm/dd/yyyy
		C. Requesting new closure date: _____ mm/dd/yyyy
		D. Date closed : _____ mm/dd/yyyy
		<input type="checkbox"/> 1. In compliance with the closure performance standards 40 CFR 262.17(a)(8)
		<input type="checkbox"/> 2. Not in compliance with the closure performance standards 40 CFR 262.17(a)(8)

EPA ID Number 

I	L	D	0	0	5	1	7	2	3	2	5
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**16. Notification of Hazardous Secondary Material (HSM) Activity**

<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.
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**17. Electronic Manifest Broker**

<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?
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**18. Comments (include item number for each comment)**

**19. Certification** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11).**

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy) <b>5/30/2025</b>
Printed Name (First, Middle Initial Last) <b>David Servatius</b>	Title <b>Owner</b>
Email <b>dave.servatius@modernplating.com</b>	
Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy) <b>5/30/2025</b>
Printed Name (First, Middle Initial Last) <b>Brandon Smith</b>	Title <b>CEO / Presidet</b>
Email <b>brandon.smith@modernplating.com</b>	

**ADDENDUM TO THE SITE IDENTIFICATION FORM:  
NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY**



**ONLY fill out this form if:**


- You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27) (or state equivalent; See <https://www.epa.gov/hw/where-2018-definition-solid-waste-rule-effect> for a list of eligible states; AND
- You are or will be managing excluded HSM in compliance with 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27) (or state equivalent) or have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section. Note: If your facility was granted a solid waste variance under 40 CFR 260.30 prior to July 13, 2015, your management of HSM under 40 CFR 260.30 is grandfathered under the previous regulations and you are not required to notify for the HSM management activity excluded under 40 CFR 260.30.

**1. Reason for Notification** (Include dates where requested)

- Facility will begin managing excluded HSM as of \_\_\_\_\_ (mm/dd/yyyy).
- Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.
- Facility has stopped managing excluded HSM as of \_\_\_\_\_ (mm/dd/yyyy) and is notifying as required.

**2. Description of Excluded HSM Activity.** Please list the appropriate codes (see Code List section of the instructions) and quantities, in short tons, to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed.

A. Facility Code	B. Waste Code(s) for HSM	C. Estimate Short Tons of excluded HSM to be managed annually	D. Actual Short Tons of excluded HSM that was managed during the most recent odd-numbered year	E. Land-based Unit Code

<p><b>ADDENDUM TO THE SITE IDENTIFICATION FORM:</b></p> <p><b>EPISODIC GENERATOR</b></p>	
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**ONLY fill out this form if:**

- You are an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves the generator to a higher generator category pursuant to 40 CFR 262 Subpart L. Note: Only one planned and one unplanned episodic event are allowed within one year; otherwise, you must follow the requirements of the higher generator category. Use additional pages if more space is needed.

<b>Episodic Event</b>	
<p><b>1. Planned</b></p> <p><input type="checkbox"/> Excess chemical inventory removal</p> <p><input type="checkbox"/> Tank cleanouts</p> <p><input type="checkbox"/> Short-term construction or demolition</p> <p><input type="checkbox"/> Equipment maintenance during plant shutdowns</p> <p><input type="checkbox"/> Other _____</p>	<p><b>2. Unplanned</b></p> <p><input type="checkbox"/> Accidental spills</p> <p><input type="checkbox"/> Production process upsets</p> <p><input type="checkbox"/> Product recalls</p> <p><input type="checkbox"/> "Acts of nature" (Tornado, hurricane, flood, etc.)</p> <p><input type="checkbox"/> Other _____</p>
<b>3. Emergency Contact Phone</b>	<b>4. Emergency Contact Name</b>
<b>5. Beginning Date</b> _____ (mm/dd/yyyy)	<b>6. End Date</b> _____ (mm/dd/yyyy)

**Waste 1**

<b>7. Waste Description</b>	<b>8. Estimated Quantity (in pounds)</b>
<b>9. Federal and/or State Hazardous Waste Codes</b>	

**Waste 2**

<b>7. Waste Description</b>	<b>8. Estimated Quantity (in pounds)</b>
<b>9. Federal and/or State Hazardous Waste Codes</b>	

**Waste 3**

<b>7. Waste Description</b>	<b>8. Estimated Quantity (in pounds)</b>
<b>9. Federal and/or State Hazardous Waste Codes</b>	

**ADDENDUM TO THE SITE IDENTIFICATION FORM:  
LQG CONSOLIDATION OF VSQG HAZARDOUS WASTE**



**ONLY fill out this form if:**

- You are an LQG receiving hazardous waste from VSQGs under the control of the same person. Use additional pages if more space is needed.

<b>VSQG 1</b>		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

<b>VSQG 2</b>		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

<b>VSQG 3</b>		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

**Sanders, Collier**

---

**From:** Guy, Jeff  
**Sent:** Tuesday, July 8, 2025 1:18 PM  
**To:** Sanders, Collier  
**Cc:** Samson, Curtis  
**Subject:** RE: Modern Plating Public Notice  
**Attachments:** modern-plating-public-notice.docx; Draft Radio Ad.docx

Please review the draft public notice and draft radio ad.

*Jeffrey J. Guy*

Illinois Environmental Protection Agency  
Office of Community Relations  
(217) 785-8724  
[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)



**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 11:32 AM  
**To:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Modern Plating Corp. My apologies for not catching that.

**From:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 11:18 AM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Good morning,

Is the site called 'Modern Plating Corp.' or 'Modern Plating Company'? The heading of the fact sheet and first paragraph of the fact sheet differ. I can begin a draft public notice but wanted to double check.

JG

**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 10:50 AM  
**To:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>

Cc: Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>

Subject: RE: Modern Plating Public Notice

Jeff,

Attached is a copy of the initial draft of the facts sheet.

---

**From:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>

**Sent:** Tuesday, July 1, 2025 12:27 PM

**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>

**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>

**Subject:** RE: Modern Plating Public Notice

Good afternoon,

I eventually need a signed draft permit/fact sheet. The tricky part is that the signed draft permit/fact sheet will need dates for when the comment period begins – and the draft permit/fact sheet also references a document repository, which will need to be established. So, we will first need to establish the dates for the comment period – which is contingent on when the draft permit/fact sheet is finalized/singed. I want to ensure your team has enough time to review and send to management for review/signature (Takako informed me that it can take a week or more for your management to review).

Initially, I will prepare for your review a draft public notice that will be eventually ran in a newspaper when the 45-day comment period starts. The notice also gets posted here: <https://epa.illinois.gov/public-notices/bol-permit-public-notice.html>. I will also set up a document repository near the facility (typically a library) and mail the signed draft permit/fact sheet, public notice, permit application, and any other pertinent docs to the repository a few days prior to the start of the public comment period. The public will have the opportunity to review the docs and provide comments, request a hearing (rare), etc. So once the comment period is established, it is important to get me the signed draft permit/fact sheet several days prior to when it needs to be available at the repository for public viewing. I send docs to the repository via FedEx. The public notice also gets sent to a mailing list (physically mailed and also emailed); I will take care of that. The area in which the facility is located will also have an Environmental Justice (EJ) screening to determine if any documents need translated into other languages; I will take care of that also. Most of the time, there is no language translation needed.

I will also create a 30-second radio ad that will run once. I will email you the draft public notice and radio ad for your review prior to finalizing them. I will keep track of any comments received during the comment period and create a 'checklist' (attached) to give you after the end of the comment period. I have a few other RCRA projects similar to yours that I am working on. I suppose the first step is giving me a draft permit/fact sheet (unsigned at this point); the information in these documents is helpful as I begin drafting a public notice. Also, please provide a general idea of when you think the draft permit/fact sheet will be completed, signed, etc. and all pertinent docs delivered to me to go to the repository. Let me know if you have any questions.

Thanks,

**Jeffrey J. Guy**

Illinois Environmental Protection Agency

Office of Community Relations

(217) 785-8724

[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)



**From:** Sanders, Collier <[Collier.Sanders@illinois.gov](mailto:Collier.Sanders@illinois.gov)>  
**Sent:** Tuesday, July 1, 2025 11:33 AM  
**To:** Guy, Jeff <[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@illinois.gov](mailto:Curtis.Samson@illinois.gov)>  
**Subject:** Modern Plating Public Notice

Jeff,

I am needing to get ready for public notice for modern plating, would you be able to provide a checklist of what is needed from me for you? I can then start putting that together and will get it to you ASAP. This is my first time going through this process and if you have any advice it is appreciated. So far, I know you need a facts sheet which I will have an updated version of soon. Thank you!



**Collier Sanders (He/Him)**

Environmental Protection Engineer I  
Bureau of Land  
Permits -- RCRA Unit  
217-786-0749  
[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Halteman, Takako**

---

**From:** Guy, Jeff  
**Sent:** Friday, July 25, 2025 9:02 AM  
**To:** Halteman, Takako; Brubaker, Sarah  
**Subject:** RE: Welcome back Sara & Modern Plating  
**Attachments:** ML modern plating.xlsx

*Jeffrey J. Guy*

Illinois Environmental Protection Agency  
Office of Community Relations  
(217) 785-8724  
[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)



---

**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Thursday, July 24, 2025 7:31 PM  
**To:** Guy, Jeff <Jeff.Guy@Illinois.gov>; Brubaker, Sarah <Sarah.Brubaker@Illinois.gov>  
**Subject:** Welcome back Sara & Modern Plating

Welcome back Sarah!!

Jeff or Sarah-  
Do you have a mailing list for Modern Plating? (1770200010, located in Freeport).  
We may have asked this questions before, so sorry if I am asking again.  
Thanks,  
Takako

Takako Halteman, P.E.  
RCRA Unit Manager  
Permit Section, Bureau of Land, Illinois EPA  
217/524-3274  
[takako.halteman@illinois.gov](mailto:takako.halteman@illinois.gov)

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Agency	Name	Address	City	State	Zip	Phone (If A Email (If Available)
United States Senator	The Honorable Richard Durbin	230 S. Dearborn Street, Suite 3892	Chicago	IL		60604 312-353-4952
United States Senator	The Honorable Tammy Duckworth	230 S. Dearborn Street, Suite 3900	Chicago	IL		60604 312-886-3506
U.S. Representative, District 17	The Honorable Eric Sorenson	https://www.elections.il.gov/ElectionOperations/DistrictLocator/DistrictOfficialE		IL		
Illinois State Senator, District 45	The Honorable Andrew S. Chesney	https://www.elections.il.gov/ElectionOperations/DistrictLocator/DistrictOfficialE		IL		
Illinois State Representative, District 90	The Honorable John M. Cabello	https://www.elections.il.gov/ElectionOperations/DistrictLocator/DistrictOfficialE		IL		
USEPA - Land, Chemicals & Redevelopment Division	Ed Nam, Director	77 West Jackson Blvd., MC: LR-17J	Chicago	IL	60604	ireland.scott@epa.gov
USEPA - Land, Chemicals & Redevelopment Division	Mary Setnicar, Associate Chief	77 West Jackson Blvd., MC: LL-17J	Chicago	IL	60604	Setnicar.Mary@epa.gov
USEPA - Land, Chemicals & Redevelopment Division, RCRA C&D Section	Susan Mooney, Chief	77 West Jackson Blvd., MC: LL-17J	Chicago	IL	60604	mooney.susan@epa.gov
USEPA - Office of the Regional Administrator	Office of Public Affairs	77 West Jackson Blvd., MC: RE-19K	Chicago	IL	60604	gonzalez.norberto@epa.gov
U.S. Army Corps of Engineers	https://regulatory.ops.usace.army.mil/offices/	231 S. LaSalle Street, 15th Floor	Chicago	IL	60604	dodds.jennifer@epa.gov
Office of Illinois Attorney General	Environmental Bureau North/South	69 West Washington Street, Suite 1800 Chicago 60602	500 South Second	IL		60602 800-964-3 ramaly.todd@epa.gov
Illinois Historic Preservation Agency	Preservation Services/Archeology Sect.	One Natural Resources Way	Springfield	IL		62702 217-785-4836
Illinois Department of Natural Resources	Resource Management	One Natural Resources Way	Springfield	IL		62702 217-782-6302
Illinois Department of Natural Resources	Office of Water Resource Management	One Natural Resources Way	Springfield	IL		62702
Illinois Department of Natural Resources	Div. of Natural Resource Review & Coord., Office of Realty/Env. Planning	One Natural Resources Way	Springfield	IL		62702 LRCREGWEB@usace.army.mil (chicago)
Illinois Department of Natural Resources	Office of Mines and Minerals	Class I and VI Injection well only				
Illinois Department of Natural Resources	Division of Oil and Gas	Class VI Injection well only				
Illinois Department of Transportation, Bureau of Design & Environment	Geological Waste and Assessment Unit	2300 S. Dirksen Parkway	Springfield	IL		62764 217-782-7.DNR.DWRM@illinois.gov
Illinois Department of Agriculture	Division of Natural Resources	State Fairgrounds, PO Box 19281	Springfield	IL		62794 217-782-2172
Illinois Department of Commerce and Economic Opportunity	Kristin A. Richards, Acting Director	500 East Monroe Street	Springfield	IL		62701
Illinois State Chamber of Commerce		215 East Adams Street	Springfield	IL		62701 217-522-5512
Illinois Department of Public Health		525-535 West Jefferson Street	Springfield	IL		62761
Illinois Dept. of Public Health - Rockford Regional Office	Attn: Amy Hall	4302 N. Main Street	Rockford	IL		61103
Stephenson County Health Department	Attn: Kerry Whipple	10 W Linden St	Freeport	IL		61032
Waste Management Research Center		1 East Hazelwood Drive	Champaign	IL		61820 217-333-8940
Illinois State Natural History Survey	Eric Schaubert	1816 South Oak Street, MC: 652	Champaign	IL		61820 217-333-6880
Illinois State Geological Survey	Richard Berg, Director	615 East Peabody	Champaign	IL		61820 217-333-4747
Illinois State Water Survey (campus mail code 674)	Director	2204 Griffith Drive	Champaign	IL		61820 217-333-2210
Advisory Council on Historic Preservation		401 F Street NW, Suite 308	Washington	DC		20001
<b>Any affected States (see States tab)</b>						
Freeport Fire Department		1650 S. Walnut Avenue	Freeport	IL	61032	info@isgs.illinois.gov
County State's Attorney	Carl Larson	15 N. Galena Ave.	Freeport	IL	61032	
<b>County Inspection Contact - check if Delegation Agreement</b>						
County Board Chair	Scott Helms	50 N. Mill St.	Cedarville	IL	61013	
County Clerk	Jazmin Wingert	50 West Douglas, Suite 500	Freeport	IL	61032	
Mayor Jodi Miller		314 W Stephenson St., Suite 200	Freeport	IL	61032	
City Clerk Dovie L. Anderson		314 W Stephenson St.	Freeport	IL	61032	
Public Works Director		314 W. Stephenson St	Freeport	IL	61032	
Modern Plating Corporation		701 South Hancock Avenue	Freeport	IL	61032	
Freeport Public Library		100 E Douglas Street	Freeport	IL	61032	
Environ Corporation	Operations Manager	16435 South Center Avenue	Harvey	IL	60426	708-596-7040
Sierra Club	Jack Darin	70 E. Lake Street, Suite 1500	Chicago	IL	60601	312-251-1680
Pollution Control Industries	Tita LaGrimas, Director of Regional Affairs	4343 Kennedy Ave.	East Chicago	IN	46312	219-391-7020
Safety-Kleen Dolton Recycle Center	Operations Manager	633 E. 138th Street	Dolton	IL	60419	708-225-8500
American Lung Association of Illinois	Angela Tin, Director or Environmental Programs	3000 Kelly Lane	Springfield	IL	62711	217-787-5864
American Environmental Corporation - Emergency Services & Public Involvement	Ken Runkle, Environmental Toxicologist/Risk Assessor	4231 Westgate Drive	Springfield	IL	62711	217-585-9517
Deigan & Associates, LLC - Environmental Consultants	Gary J. Deigan	28835 N. Herky Drive, Unit 120	Lake Bluff	IL	60044	847-578-5000
League of Women Voters of Illinois		332 S Michigan Ave, Suite #634	Chicago	IL	60604	kcortez@lwvill.org; issues@lwvill.org
Environmental Organizations in Area	[see other sheets]					618-271-7- *Continues to be returned to sender as Vacant. Trying to find better contact.
info@lung.org						
<b>Internal:</b>						
Illinois EPA- Reg. Off. Manager, Bureau of Land (In Regional Office with Insp)	Thomas Rivera	4302 North Main Street	Rockford	IL	61103	
Illinois EPA- BOL Permit Reviewer, #33	Permit reviewer/writer name	1021 North Grand Avenue, East, PO Box 19276	Springfield	IL	62794	
Illinois EPA- Office of Community Relations, #5		1021 North Grand Avenue, East, PO Box 19276	Springfield	IL	62794	
Illinois EPA- Public Water Supply		Class VI Injection well only	Springfield	IL	62794	
Illinois EPA- Land Pollution Control		1021 North Grand Avenue, East, PO Box 19276	Springfield	IL	62794	
Illinois EPA- EJ	Chris Pressnall	1021 North Grand Avenue, East, PO Box 19276	Springfield	IL	62794	

## LPC / County:

Municipality / Facility Name:

Facility Address:

Repository location:

Radio\* options to consider:

Newspaper\*:

Updated:

This mailing list is modeled after 35 Ill. Adm. Code 705.163(a), to be used whenever a permit application is denied, a draft permit has been prepared, or a hearing has been scheduled.

\* 35 Ill. Adm. Code 705.163(b)

**Halteman, Takako**

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**From:** Guy, Jeff  
**Sent:** Wednesday, July 30, 2025 9:40 AM  
**To:** Sanders, Collier; Samson, Curtis  
**Cc:** Halteman, Takako; Brubaker, Sarah  
**Subject:** RE: Modern Plating Public Notice  
**Attachments:** modern-plating-public-notice.docx; Draft Radio Ad.docx

Good morning,

I never got a response to the email below. Regardless, attached are draft documents with proposed date. Please review.

**Proposed comment period: 8/7/2025 - 9/22/2025**

If next Thurs. 8/7 works for the start of the comment period, we would need hard copies of the signed draft permit/fact sheet, permit application, etc. by Monday August 4 to prepare to send to the repository in Freeport please. We would also need a pdf of the signed draft permit/fact sheet by 8/7 for posting to IEPA BOL public notice webpage please..Is that possible?

Thanks,

Jeff

**From:** Guy, Jeff  
**Sent:** Tuesday, July 8, 2025 1:18 PM  
**To:** Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Cc:** Samson, Curtis <Curtis.Samson@illinois.gov>  
**Subject:** RE: Modern Plating Public Notice

Please review the draft public notice and draft radio ad.

**Jeffrey J. Guy**  
Illinois Environmental Protection Agency  
Office of Community Relations  
(217) 785-8724  
[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)



**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 11:32 AM  
**To:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Modern Plating Corp. My apologies for not catching that.

**From:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 11:18 AM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Good morning,

Is the site called 'Modern Plating Corp.' or 'Modern Plating Company'? The heading of the fact sheet and first paragraph of the fact sheet differ. I can begin a draft public notice but wanted to double check.

JG

**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Tuesday, July 8, 2025 10:50 AM  
**To:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Jeff,

Attached is a copy of the initial draft of the facts sheet.

**From:** Guy, Jeff <[Jeff.Guy@Illinois.gov](mailto:Jeff.Guy@Illinois.gov)>  
**Sent:** Tuesday, July 1, 2025 12:27 PM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Cc:** Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** RE: Modern Plating Public Notice

Good afternoon,

I eventually need a signed draft permit/fact sheet. The tricky part is that the signed draft permit/fact sheet will need dates for when the comment period begins – and the draft permit/fact sheet also references a document repository, which will need to be established. So, we will first need to establish the dates for the comment period – which is contingent on when the draft permit/fact sheet is finalized/singed. I want to ensure your team has enough time to review and send to management for review/signature (Takako informed me that it can take a week or more for your management to review).

Initially, I will prepare for your review a draft public notice that will be eventually ran in a newspaper when the 45-day comment period starts. The notice also gets posted here: <https://epa.illinois.gov/public-notices/bol->

[permit-public-notice.html](#). I will also set up a document repository near the facility (typically a library) and mail the signed draft permit/fact sheet, public notice, permit application, and any other pertinent docs to the repository a few days prior to the start of the public comment period. The public will have the opportunity to review the docs and provide comments, request a hearing (rare), etc. So once the comment period is established, it is important to get me the signed draft permit/fact sheet several days prior to when it needs to be available at the repository for public viewing. I send docs to the repository via FedEx. The public notice also gets sent to a mailing list (physically mailed and also emailed); I will take care of that. The area in which the facility is located will also have an Environmental Justice (EJ) screening to determine if any documents need translated into other languages; I will take care of that also. Most of the time, there is no language translation needed.

I will also create a 30-second radio ad that will run once. I will email you the draft public notice and radio ad for your review prior to finalizing them. I will keep track of any comments received during the comment period and create a 'checklist' (attached) to give you after the end of the comment period. I have a few other RCRA projects similar to yours that I am working on. I suppose the first step is giving me a draft permit/fact sheet (unsigned at this point); the information in these documents is helpful as I begin drafting a public notice. Also, please provide a general idea of when you think the draft permit/fact sheet will be completed, signed, etc. and all pertinent docs delivered to me to go to the repository. Let me know if you have any questions.

Thanks,

*Jeffrey J. Guy*

Illinois Environmental Protection Agency

Office of Community Relations

(217) 785-8724

[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)



**From:** Sanders, Collier <[Collier.Sanders@illinois.gov](mailto:Collier.Sanders@illinois.gov)>

**Sent:** Tuesday, July 1, 2025 11:33 AM

**To:** Guy, Jeff <[Jeff.Guy@illinois.gov](mailto:Jeff.Guy@illinois.gov)>

**Cc:** Samson, Curtis <[Curtis.Samson@illinois.gov](mailto:Curtis.Samson@illinois.gov)>

**Subject:** Modern Plating Public Notice

Jeff,

I am needing to get ready for public notice for modern plating, would you be able to provide a checklist of what is needed from me for you? I can then start putting that together and will get it to you ASAP. This is my first time going through this process and if you have any advice it is appreciated. So far, I know you need a facts sheet which I will have an updated version of soon. Thank you!

**Collier Sanders (He/Him)**

Environmental Protection Engineer I

Bureau of Land

Permits -- RCRA Unit

217-786-0749

[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Illinois Environmental Protection Agency**  
**PUBLIC NOTICE OF HAZARDOUS WASTE PERMIT RENEWAL**  
**Modern Plating Corporation in Freeport**

The Illinois Environmental Protection Agency (Illinois EPA) hereby gives notice of its intent to approve a renewed Resource Conservation and Recovery Act (RCRA) permit to allow Modern Plating Corporation (MPC) to continue to provide post-closure care for a Corrective Action Management Unit (CAMU). MCP is a chrome plating facility located at 701 South Hancock Avenue in Freeport (Stephenson County), Illinois 61032-0838. Remediation waste generated from the closure and corrective action activities were placed in the CAMU. Closure activities were completed and certified on August 6, 2001, which is also the date that the 30-year post-closure period began for the CAMU.

The interested public is invited to review copies of the renewal permit application, draft renewal permit, and facility fact sheet at the Freeport Public Library, 100 East Douglas Street, Freeport, Illinois 61032.

**Written comments on the draft post-closure renewal permit may be submitted during the 45-day comment period. Send comments to the Illinois EPA contact listed below postmarked by 11: 59 PM, September 22, 2025.** In response to public requests or at the discretion of the Illinois EPA, a public hearing may be held to clarify technical issues concerning the draft post-closure renewal permit. A public hearing request must be made in writing, express opposition to the draft post-closure renewal permit and state the nature of the issue(s) to be raised during the hearing. Written hearing requests should be sent to the Illinois EPA contact listed below by the end of the comment period. If applicable, public notice of a public hearing will be given at least 30 days in advance of a hearing.

Sarah Brubaker, Office of Community Relations (#5)  
Illinois Environmental Protection Agency  
2520 West Iles Avenue, P.O. Box 19276  
Springfield, Illinois 62794-9276

Email: [Sarah.Brubaker@illinois.gov](mailto:Sarah.Brubaker@illinois.gov)  
Phone: (217) 786-0790  
TDD phone number (866) 273-5488

All comments received will become part of the Administrative Record (AR) and will be evaluated by the Illinois EPA in making the final post-closure renewal permit decision. The Illinois EPA will respond to comments on the draft post-closure renewal permit and indicate whether additional documents have been included in the AR. Commenters will be notified of the final post-closure renewal permit decision and the permit decision appeal process.

The AR, including the renewal permit application, draft renewal permit, related information and all data submitted by the applicant, is now available for public inspection. Please call the Illinois EPA contact above for an appointment to view the documents at Illinois EPA office in Springfield. Copies of the draft permit and fact sheet are available at <https://epa.illinois.gov/public-notices/bol-permit-public-notice.html>.

The facility is located in an area of Environmental Justice concern. More information concerning Environmental Justice may be found at <https://epa.illinois.gov/topics/environmental-justice.html>.

For further RCRA information, please visit <https://www.epa.gov/rcra>.

30-second ad to air once on 92.1 FM (WFPS) radio station on or soon after August 7, 2025.  
Announcer--please repeat phone # of agency contact if time allows.

**PAID RADIO ANNOUNCEMENT**  
Modern Plating Corporation

Illinois EPA gives notice of its intent to approve a renewed Resource Conservation and Recovery Act Hazardous Waste Management permit for Modern Plating Corporation in Freeport that allows the facility to continue to provide post-closure care for a Corrective Action Management Unit. The draft permit, renewal application, and fact sheet are available for review at the Freeport Public Library. The Illinois EPA seeks written public comments by September 22, 2025. For further information, call (217) 786-0790.

---

**Sanders, Collier**

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**From:** Hallett, Heather L <Heather.Hallett@foth.com>  
**Sent:** Wednesday, July 2, 2025 5:55 PM  
**To:** Sanders, Collier  
**Cc:** Gerald Reed; Brandon Smith  
**Subject:** RE: [External] FW: Table of Contents

Collier,  
Please include the fire protection inspection referred to in Section D.2.5 in Appendix I (Emergency Equipment).  
Thank you,

*Heather*

Heather Hallett, PG, CPG  
(she/her/hers)  
Lead Hydrogeologist  
Licensed in WI, IL and PA



**Foth Infrastructure & Environment, LLC**  
8121 Innovation Court, Suite 100  
P.O. Box 5095  
De Pere, WI 54115-5095  
Ph: (920) 497-2500  
Direct: (920) 496-6912 / Cell (505) 205-3353  
[www.foth.com](http://www.foth.com)

**From:** Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Sent:** Wednesday, July 2, 2025 9:14 AM  
**To:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Subject:** Table of Contents

WARNING: This email originated from outside of Modern Plating Co. DO NOT click links or open attachments unless you recognize the sender and know the content is safe.

Brandon,

I just left a voicemail but wanted to reach out regarding item D.2.5. This item is a new document sent to me for the application. I received all the requested documents but since D.2.5 is a new document, and not an addition or replacement to an existing document, I need a revised table of contents for attachment two of the application, showing where it should be placed. If you could get that to me it would be appreciated. Thank you!



**Collier Sanders (He/Him)**

Environmental Protection Engineer I  
Bureau of Land  
Permits -- RCRA Unit  
217-786-0749  
[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

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**Sanders, Collier**

---

**From:** Halteman, Takako  
**Sent:** Saturday, July 26, 2025 12:13 PM  
**To:** Boes, Maxwell G.  
**Cc:** Gibbons, Joyce; Moon, Nolin; Sanders, Collier; Huser, Kelly; Samson, Curtis; Fullriede, Aidan S.; Butler, Amy; Rhoades, Joshua  
**Subject:** RE: Modern Plating

Hi Max, thank you very much for your response.

We are making an effort to issue a renewed permit out for this site as this is a high priority for our section and USEPA.

We were planning to include conditions to re-assess the leachate collection system and submit us a plan to meet the conditions of maintaining the leachate level to 30 com (1foot) or less, as they are only pumping when it reaches 2.5' (an alarm does not go off until it is 3.5').

The information you provided below would provide us with some additional thoughts to reform this requirement appropriately.

We are also requiring the surveying of the entire CAMU within 90-days of the effective date of the permit. We will formulate the condition in a way that they would have to evaluate the settlement of the CAMU (either entire unit settlement of just the waste due to liquid consolidation in the last 20+ years or some of both).

Hoping these requirements will help us collect current conditions data, assess the issues, and take necessary actions to properly manage the CAMU.

We can share these specific conditions with you once we finalize the draft if you wish. Should you need to meet with us and DLC, please let me know.

Thank you,  
 Takako

**From:** Boes, Maxwell G. <Maxwell.Boes@Illinois.gov>  
**Sent:** Friday, July 25, 2025 8:12 AM  
**To:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Cc:** Gibbons, Joyce <Joyce.Gibbons@Illinois.gov>; Moon, Nolin <Nolin.Moon@Illinois.gov>; Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Subject:** RE: Modern Plating

Hi Takako,

Based on the response I received from Fehr Graham on behalf of Modern Plating, some violations are apparently resolved, others not, and new violations are also apparent. I will attach the current violation table from my inspection report to fill you in on its status, **but be advised, this is still pending lead worker and managerial review, so I would consider the table to be preliminary and subject to change before the issuance of the report and/or any potential additional VNs.**

In short, the most recent survey showed that the cap of the landfill has subsided approximately 1-2 feet. They interpret this as the settlement of the entire unit rather than any one portion of the landfill. In my opinion this interpretation implies that the leachate system has subsided below the water table. This possibility is called out

specifically in 35 IAC 724.401(c) which dictates the owner/operator must demonstrate their CAMU is not adversely affected by being submerged in groundwater.

The other main point I address is the piping we observed that was attached to the side of the house with roofing tar. I reviewed the engineering diagram Collier sent over, which references a hard plastic pipe of a particular wall thickness that does not match the flexible hosing we observed in the field. As the leachate in the unit was above the 1 foot of head it was designed to maintain, I believe the pumps were unable to prime correctly due to the piping not holding pressure. It's like trying to drink through a straw with a hole in the side. 35 IAC 724.401(a) states that the material of the leachate system must be of sufficient strength and thickness to prevent collapse. We don't have evidence that the materials have collapsed within the landfill, but I believe that the inability of the pumps to prime is compelling to the argument that the pipe is not sufficiently strong.

Joyce and I have discussed the need for a meeting between FOS, permits, and legal folks before we finalize the report to ensure we're all asking for roughly the same things from the facility. This is on my backburner for the time being as I have been working through several RCRA O&M inspections over the summer which have a firm due date of end of the fiscal year. Once I have these inspections out the door, I will return my attention to pushing the modern plating project along.

Based on my previous conversations with Nolin, I anticipate he will find Michael McGee's assistance necessary, as he has a professional geologist license and is sufficiently qualified to review my analysis of work that has been sealed by a PG or PE.

Please let me know if you have any questions or need anything else,



### **Maxwell Boes | Environmental Protection Geologist**

Bureau of Land – Field Operations Section

Illinois Environmental Protection Agency

4302 North Main Street  
Rockford, IL 61103

(815) 987-4961



[Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)

(815) 391-1294



<https://epa.illinois.gov/>

**From:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>

**Sent:** Thursday, July 24, 2025 5:14 PM

**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>

**Subject:** Modern Plating

Hi Max-  
How are you?

Do you happen to know of the VN for Modern Plating has been resolved?  
We are about to issue a draft renewal permit for the site. Do you have any comments for the site?

Thank you,  
Takako

Takako Halteman, P.E.  
RCRA Unit Manager  
Permit Section, Bureau of Land, Illinois EPA

217/524-3274

[takako.haltzman@illinois.gov](mailto:takako.haltzman@illinois.gov)

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**Halteman, Takako**

---

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**Sent:** Saturday, July 26, 2025 12:13 PM  
**To:** Boes, Maxwell G.  
**Cc:** Gibbons, Joyce; Moon, Nolin; Sanders, Collier; Huser, Kelly; Samson, Curtis; Fullriede, Aidan S.; Butler, Amy; Rhoades, Joshua  
**Subject:** RE: Modern Plating

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We were planning to include conditions to re-assess the leachate collection system and submit us a plan to meet the conditions of maintaining the leachate level to 30 com (1foot) or less, as they are only pumping when it reaches 2.5' (an alarm does not go off until it is 3.5').

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We are also requiring the surveying of the entire CAMU within 90-days of the effective date of the permit. We will formulate the condition in a way that they would have to evaluate the settlement of the CAMU (either entire unit settlement of just the waste due to liquid consolidation in the last 20+ years or some of both).

Hoping these requirements will help us collect current conditions data, assess the issues, and take necessary actions to properly manage the CAMU.

We can share these specific conditions with you once we finalize the draft if you wish. Should you need to meet with us and DLC, please let me know.

Thank you,  
 Takako

**From:** Boes, Maxwell G. <Maxwell.Boes@Illinois.gov>  
**Sent:** Friday, July 25, 2025 8:12 AM  
**To:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Cc:** Gibbons, Joyce <Joyce.Gibbons@Illinois.gov>; Moon, Nolin <Nolin.Moon@Illinois.gov>; Sanders, Collier <Collier.Sanders@Illinois.gov>  
**Subject:** RE: Modern Plating

Hi Takako,

Based on the response I received from Fehr Graham on behalf of Modern Plating, some violations are apparently resolved, others not, and new violations are also apparent. I will attach the current violation table from my inspection report to fill you in on its status, **but be advised, this is still pending lead worker and managerial review, so I would consider the table to be preliminary and subject to change before the issuance of the report and/or any potential additional VNs.**

In short, the most recent survey showed that the cap of the landfill has subsided approximately 1-2 feet. They interpret this as the settlement of the entire unit rather than any one portion of the landfill. In my opinion this interpretation implies that the leachate system has subsided below the water table. This possibility is called out

specifically in 35 IAC 724.401(c) which dictates the owner/operator must demonstrate their CAMU is not adversely affected by being submerged in groundwater.

The other main point I address is the piping we observed that was attached to the side of the house with roofing tar. I reviewed the engineering diagram Collier sent over, which references a hard plastic pipe of a particular wall thickness that does not match the flexible hosing we observed in the field. As the leachate in the unit was above the 1 foot of head it was designed to maintain, I believe the pumps were unable to prime correctly due to the piping not holding pressure. It's like trying to drink through a straw with a hole in the side. 35 IAC 724.401(a) states that the material of the leachate system must be of sufficient strength and thickness to prevent collapse. We don't have evidence that the materials have collapsed within the landfill, but I believe that the inability of the pumps to prime is compelling to the argument that the pipe is not sufficiently strong.

Joyce and I have discussed the need for a meeting between FOS, permits, and legal folks before we finalize the report to ensure we're all asking for roughly the same things from the facility. This is on my backburner for the time being as I have been working through several RCRA O&M inspections over the summer which have a firm due date of end of the fiscal year. Once I have these inspections out the door, I will return my attention to pushing the modern plating project along.

Based on my previous conversations with Nolin, I anticipate he will find Michael McGee's assistance necessary, as he has a professional geologist license and is sufficiently qualified to review my analysis of work that has been sealed by a PG or PE.

Please let me know if you have any questions or need anything else,



**Maxwell Boes | Environmental Protection Geologist**  
 Bureau of Land – Field Operations Section  
 Illinois Environmental Protection Agency  
 4302 North Main Street  
 Rockford, IL 61103  
 (815) 987-4961    ✉ [Maxwell.Boes@illinois.gov](mailto:Maxwell.Boes@illinois.gov)  
 (815) 391-1294    🖱 <https://epa.illinois.gov/>

**From:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>  
**Sent:** Thursday, July 24, 2025 5:14 PM  
**To:** Boes, Maxwell G. <[Maxwell.Boes@Illinois.gov](mailto:Maxwell.Boes@Illinois.gov)>  
**Subject:** Modern Plating

Hi Max-  
 How are you?

Do you happen to know of the VN for Modern Plating has been resolved?  
 We are about to issue a draft renewal permit for the site. Do you have any comments for the site?

Thank you,  
 Takako

Takako Halteman, P.E.  
 RCRA Unit Manager  
 Permit Section, Bureau of Land, Illinois EPA

**Halteman, Takako**

**From:** Britton, Daniel  
**Sent:** Monday, July 28, 2025 8:21 AM  
**To:** Halteman, Takako  
**Subject:** RE: Inflation from 202 to 2025?

My apologies, forgot to paste.

	2019	1.018 2020 Dollars	\$ 28,840.00
28,840.00	2020	1.012 2021 Dollars	\$ 29,186.08
29,186.08	2021	1.041 2022 Dollars	\$ 30,382.71
30,382.71	2022	1.07 2023 Dollars	\$ 32,509.50
32,509.50	2023	1.036 2024 Dollars	\$ 33,679.84
33,679.84	2024	1.024 2025 Dollars	\$ 34,488.16

Thanks,  
Daniel

**Daniel Britton | Accountant**

Bureau of Land – Materials Management & Compliance Section

Illinois Environmental Protection Agency | Mail Code #24

2520 West Iles Avenue, P.O. Box 19276

Springfield, IL 62794-9276

(217) 524-3497

[Daniel.Britton@illinois.gov](mailto:Daniel.Britton@illinois.gov)

[www.epa.illinois.gov](http://www.epa.illinois.gov)



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**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Monday, July 28, 2025 8:21 AM  
**To:** Britton, Daniel <Daniel.Britton@Illinois.gov>  
**Subject:** RE: Inflation from 202 to 2025?

Attachment?

**From:** Britton, Daniel <Daniel.Britton@Illinois.gov>  
**Sent:** Monday, July 28, 2025 8:20 AM  
**To:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** RE: Inflation from 202 to 2025?

Good morning,

Here is the inflation requested. Let me know if you need anything else.

Thanks,  
Daniel



**Daniel Britton | Accountant**

Bureau of Land – Materials Management & Compliance Section

Illinois Environmental Protection Agency | Mail Code #24

2520 West Iles Avenue, P.O. Box 19276  
Springfield, IL 62794-9276

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 [Daniel.Britton@Illinois.gov](mailto:Daniel.Britton@Illinois.gov)

 [www.epa.illinois.gov](http://www.epa.illinois.gov)

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**From:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>

**Sent:** Saturday, July 26, 2025 3:27 PM

**To:** Britton, Daniel <[Daniel.Britton@Illinois.gov](mailto:Daniel.Britton@Illinois.gov)>

**Subject:** Inflation from 202 to 2025?

Hello Daniel-

Anyway you can inflate \$28,840 in 2020 \$ to equivalent value n 2025\$?

Permit condition evaluation... thanks very much!!

Takako

P.S If you have an updated cheat sheet for inflation factors, please feel free to share (so we bug you less). :-)

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**Halteman, Takako**

---

**From:** Huser, Kelly  
**Sent:** Monday, July 28, 2025 8:34 AM  
**To:** Halteman, Takako  
**Subject:** FW: Modern Plating

fyi

*Kelly D. Huser*  
Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



---

**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 8:28 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

I did for all the other sites. The previous accountant did not do that for this site like he did for all the other RCRA sites, so I did the same thing. I cannot find why he did not calculate inflation for this site, but he also labeled the site as "untouched since 2020" on our excel and I only have three permits from this site, all dated 2019. One of those permits has a cost estimate of \$327,228. If he had been calculating for inflation, the amount would be inflated to \$414,447.53 today, but he never once calculated for inflation like he did on every other RCRA site, so I did not either.

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 7:35 AM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** RE: Modern Plating

I thought we add inflation each year.

*Kelly D. Huser*  
Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Friday, July 25, 2025 7:06 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

Hello, the previous accountant before I took this position labeled this site as untouched since 2020 and had not calculated for inflation for any previous years. So, I followed his steps and also did not calculate this site for inflation this year like I did for the other RCRA sites.  
Ethan

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Thursday, July 24, 2025 2:45 PM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** Modern Plating

Hello, can you tell me for modern plating (ILD005172325), their financial assurance is \$339,960 and it is dated 1/22/25. Is this considered 2025 dollars or 2024 dollars since inflation factors for 2025 do not come out until end of March 2025.

*Kelly D. Huser*  
Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



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**Halteman, Takako**

---

**From:** Halteman, Takako  
**Sent:** Monday, July 28, 2025 9:04 AM  
**To:** Brockhouse, Ethan  
**Subject:** RE: Modern Plating

Ethan,

Please go ahead and do what FA unit needs to do to inflate the current cost estimate amount and have them bring up to the current standards.

We will plan to require the facility to maintain what they are currently approved for until they submit a revised cost estimate for our review and approval as required in the renewed permit, which will take some time before they can be ready to adjust FA.

So if the facility appeals the new permit, then we at least have a inflated amount of FA for the currently approved cost estimate.

Please let me know if you have any questions.

Thank you!  
 Takako

---

**From:** Brockhouse, Ethan <Ethan.Brockhouse@Illinois.gov>  
**Sent:** Monday, July 28, 2025 8:51 AM  
**To:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** RE: Modern Plating

Okay, I just inflated that site. Should I reach out and ask for an updated mechanism or wait till I get the final permit Kelly is referencing?

**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Monday, July 28, 2025 8:49 AM  
**To:** Huser, Kelly <Kelly.Huser@Illinois.gov>; Brockhouse, Ethan <Ethan.Brockhouse@Illinois.gov>  
**Cc:** Britton, Daniel <Daniel.Britton@Illinois.gov>  
**Subject:** RE: Modern Plating

FYI for Ethan – All RCRA cost estimates were supposed to be inflated every year, and these facilities are required to update their FA for the inflation every year.

Thank you,  
 Takako

**From:** Huser, Kelly <Kelly.Huser@Illinois.gov>  
**Sent:** Monday, July 28, 2025 8:35 AM  
**To:** Brockhouse, Ethan <Ethan.Brockhouse@Illinois.gov>  
**Cc:** Halteman, Takako <Takako.Halteman@Illinois.gov>; Britton, Daniel <Daniel.Britton@Illinois.gov>  
**Subject:** RE: Modern Plating

We should be inflating their approved cost estimate each year. I have copied Takako and Daniel on this email. I am not sure why this had not been done in the past.

*Kelly D. Huser*

Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 8:28 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

\$ 339,960

I did for all the other sites. The previous accountant did not do that for this site like he did for all the other RCRA sites, so I did the same thing. I cannot find why he did not calculate inflation for this site, but he also labeled the site as "untouched since 2020" on our excel and I only have three permits from this site, all dated 2019. One of those permits has a cost estimate of \$327,228. If he had been calculating for inflation, the amount would be inflated to \$414,447.53 today, but he never once calculated for inflation like he did on every other RCRA site, so I did not either.

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 7:35 AM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** RE: Modern Plating

I thought we add inflation each year.

*Kelly D. Huser*

Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Friday, July 25, 2025 7:06 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

Hello, the previous accountant before I took this position labeled this site as untouched since 2020 and had not calculated for inflation for any previous years. So, I followed his steps and also did not calculate this site for inflation this year like I did for the other RCRA sites.

Ethan

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Thursday, July 24, 2025 2:45 PM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** Modern Plating

Hello, can you tell me for modern plating (ILD005172325), their financial assurance is \$339,960 and it is dated 1/22/25. Is this considered 2025 dollars or 2024 dollars since inflation factors for 2025 do not come out until end of March 2025.

*Kelly D. Huser*  
Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



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**Halteman, Takako**

---

**From:** Brockhouse, Ethan  
**Sent:** Tuesday, July 29, 2025 9:15 AM  
**To:** Halteman, Takako  
**Subject:** RE: Modern Plating

Good morning. The amount I got from the inflation calculator was \$413,857.02. I also got in contact with Mike Murray from Modern Plating this morning and he said he would get started on preparing the updated mechanism. Ethan

**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Tuesday, July 29, 2025 9:12 AM  
**To:** Brockhouse, Ethan <Ethan.Brockhouse@Illinois.gov>  
**Cc:** Huser, Kelly <Kelly.Huser@Illinois.gov>  
**Subject:** RE: Modern Plating

Good morning, Ethan, I am just following up on the email below. (Sorry this is an urgent issue this week) Is it \$413,857.92 a correct amount?

Thank you,  
 Takako

**From:** Halteman, Takako  
**Sent:** Monday, July 28, 2025 4:04 PM  
**To:** Brockhouse, Ethan <Ethan.Brockhouse@illinois.gov>  
**Cc:** Huser, Kelly <Kelly.Huser@Illinois.gov>  
**Subject:** RE: Modern Plating

Hi Ethan,

The current permit (B-167-M-12) says \$339,960 in 2019 \$ is the approved amount for FA. They have not revised the cost estimates since then.

## **F. FINANCIAL ASSURANCE**

1. **The permittee shall maintain financial assurance for post-closure care of the CAMU of at least \$339,960 (in 2019 dollars). The annual cost estimate for post-closure care, provided in a document dated July 19, 2019 associated with Permit Log Number B-167R-M-12 is \$28,330 (in 2019 dollars). The amount of the post-closure financial assurance shall be sufficient to meet the requirements at 35 Ill. Adm. Code 724.244 and 724.245.**

Is it **\$413,857.92** if inflated to current \$?

Thank you,  
 Takao

---

**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 8:28 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

I did for all the other sites. The previous accountant did not do that for this site like he did for all the other RCRA sites, so I did the same thing. I cannot find why he did not calculate inflation for this site, but he also labeled the site as "untouched since 2020" on our excel and I only have three permits from this site, all dated 2019. One of those permits has a cost estimate of \$327,228. If he had been calculating for inflation, the amount would be inflated to \$414,447.53 today, but he never once calculated for inflation like he did on every other RCRA site, so I did not either.

---

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Monday, July 28, 2025 7:35 AM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** RE: Modern Plating

I thought we add inflation each year.

*Kelly D. Huser*  
Environmental Protection Engineer  
Bureau of Land/Permits/RCRA  
217-524-3867  
[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)



---

**From:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Sent:** Friday, July 25, 2025 7:06 AM  
**To:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Subject:** RE: Modern Plating

Hello, the previous accountant before I took this position labeled this site as untouched since 2020 and had not calculated for inflation for any previous years. So, I followed his steps and also did not calculate this site for inflation this year like I did for the other RCRA sites.  
Ethan

---

**From:** Huser, Kelly <[Kelly.Huser@Illinois.gov](mailto:Kelly.Huser@Illinois.gov)>  
**Sent:** Thursday, July 24, 2025 2:45 PM  
**To:** Brockhouse, Ethan <[Ethan.Brockhouse@Illinois.gov](mailto:Ethan.Brockhouse@Illinois.gov)>  
**Subject:** Modern Plating

Hello, can you tell me for modern plating (ILD005172325), their financial assurance is \$339,960 and it is dated 1/22/25. Is this considered 2025 dollars or 2024 dollars since inflation factors for 2025 do not come out until end of March 2025.

*Kelly D. Huser*

Environmental Protection Engineer

Bureau of Land/Permits/RCRA

217-524-3867

[Kelly.Huser@illinois.gov](mailto:Kelly.Huser@illinois.gov)



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**Halteman, Takako**

---

**From:** Jason Miller <jmiller@fehrgraham.com>  
**Sent:** Tuesday, July 29, 2025 8:13 AM  
**To:** Halteman, Takako; brandon.smith  
**Cc:** Huser, Kelly; Samson, Curtis  
**Subject:** [External] FW: 39i Form not completed for Brandon Smith  
**Attachments:** 25-112 Modern Plating 2025-07-29 - IEPA 39i Certification Owner and Operator - Signed.pdf

Please find attached the 39i forms. These will also be mailed to the agency.

Thank you,

**JASON MILLER | Environmental Scientist**  
**Fehr Graham | Engineering & Environmental**

101 West Stephenson Street  
Freeport, Illinois 61032  
P: 815.235.7643  
fehrgraham.com

---

---

**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Saturday, July 26, 2025 1:39 PM  
**To:** Brandon Smith <Brandon.Smith@modernplating.com>  
**Cc:** Huser, Kelly <Kelly.Huser@Illinois.gov>; Samson, Curtis <Curtis.Samson@Illinois.gov>  
**Subject:** 39i Form not completed for Brandon Smith

**WARNING: This email originated from outside of Modern Plating Co. DO NOT click links or open attachments unless you recognize the sender and know the content is safe.**

Hi Brandon-

It was brought to my attention that the 39i form included in the Modern Plating permit application did not include your name.

As you are signing off Certification form(s), we need to have this form in our record to ensure that there is no issue with your background (that you can certify yourself as the operator).

Would you be able to fill this out and mail to us at address below as soon as possible?

Atten: Joshua L. Rhoades, P.G., Permit Section Manager  
Illinois Environmental Protection Agency  
Bureau of Land - #33  
Permit Section  
2520 West Iles Avenue  
Post Office Box 19276

We are getting ready to issue the draft permit for the facility and this issue has been discovered.

We very much appreciate your corporation in advance.  
If you have any questions, please email or call at number below.

Best,

Takako

Takako Halteman, P.E.  
RCRA Unit Manager  
Permit Section, Bureau of Land, Illinois EPA  
217/524-3274  
[takako.halteman@illinois.gov](mailto:takako.halteman@illinois.gov)

**From:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Sent:** Friday, May 30, 2025 2:00 PM  
**To:** Halteman, Takako <[Takako.Halteman@Illinois.gov](mailto:Takako.Halteman@Illinois.gov)>; Samson, Curtis <[Curtis.Samson@Illinois.gov](mailto:Curtis.Samson@Illinois.gov)>  
**Subject:** FW: Response to request for information

FYI, since they keep removing you both

**From:** Brandon Smith <[Brandon.Smith@modernplating.com](mailto:Brandon.Smith@modernplating.com)>  
**Sent:** Friday, May 30, 2025 1:44 PM  
**To:** Sanders, Collier <[Collier.Sanders@Illinois.gov](mailto:Collier.Sanders@Illinois.gov)>  
**Cc:** Hallett, Heather L <[Heather.Hallett@foth.com](mailto:Heather.Hallett@foth.com)>; Gerald Reed <[greed@fehrgraham.com](mailto:greed@fehrgraham.com)>  
**Subject:** [External] Response to request for information

Hi Collier,

We just sent the signed and notarized documents certified mail today. Here is an electronic version for your convenience. Let me know if you have any questions.

Regards,

**Brandon Smith**  
President / CEO  
Modern Plating Corporation  
701 S. Hancock Ave  
Freeport, IL 61032

**(815) 235-3111 Phone**  
**(815) 235-4571 Fax**

**Visit our new website at [www.modernplating.com](http://www.modernplating.com)**

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please immediately advise the sender by reply email message to the sender and delete all copies of this message. Thank you.

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# Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

## 39(i) Certification for Operating a Waste Management Facility

Pursuant to 415 ILCS 5/39(i), prior to issuing any RCRA permit, or any permit for a waste storage site, sanitary landfill, waste disposal site, waste transfer station, waste treatment facility, waste incinerator, clean construction or demolition debris fill operation, or used tire storage site, the Illinois EPA must conduct an evaluation of the prospective owner's or operator's prior experience in waste management operations, clean construction or demolition debris fill operations, and tire storage site management. As part of that evaluation please complete and submit this form with your permit application.

This form may be completed online and saved locally before printing, signing and submitting it to the Illinois EPA at the address below. If the form is completed manually, please type or print clearly.

Illinois Environmental Protection Agency  
Division of Land Pollution Control - #33  
39(i) Certification  
2520 West Iles Avenue  
P.O. Box 19276  
Springfield, IL 62794-9276

### I. Applicant Information

Site Name Modern Plating Corporation

IEPA BOL No.: 1770200010

Site Address 701 S Hancock Avenue

City: Freeport

State: IL

Zip Code: 61032

Permit Numbers (if applicable): B-167R-M-12

### Owner

Owner Name: David Servatius

Street Address: 701 S Hancock Avenue

City: Freeport

State: IL

Zip: 61032

### Operator

Operator Name: Modern Plating Corp c/o Brandon Smith

Street Address: 701 S Hancock Avenue

City: Freeport

State: IL

Zip: 61032

Is this 39(i) certification for the owner or the operator?

Owner

Operator

Owner and operator are the same entity

### II. Officers and Employees with Site Responsibility

Unless the owner and operator are the same entity, a separate 39(i) form must be submitted for both the owner and operator. Persons operating under the authority of the owner should be listed on the owner's 39(i) form and persons operating under authority of the operator should be listed on the operator's 39(i) form.

A. Officers: List the name and title of all officers of the owner or operator that will have personal involvement or active participation in the operation or management of the site or facility for which the application is submitted.

Name	Title

B. Employees: List the name and title of each employee of the owner or operator that will have personal involvement or active participation in the overall operation or management of the site or facility for which the application is submitted (e.g. site managers, site engineers, and other persons who direct or control the overall day-to-day management of the operation, but not persons whose duties are exclusively limited to equipment operation, labor, or similar non-managerial functions).

Name	Title

**III. Owner, Operator, Officer, and Employee Information**

**A. Prior Conduct Identification**

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified under Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and include a copy of each final administrative or judicial determination that required an affirmative response. If the information for each owner, operator, officer, and employee has not changed since the applicant's last submission of a 39(i) certification, the applicant can skip to Section III(C), below.

- 1) Has there been a finding that any person named in Section II violated federal, State, or local laws, regulations, standards, or ordinances in the operation of one or more waste management facilities or sites, clean construction or demolition debris fill operation facilities or sites, or tire storage sites?  Yes  
 No
- 2) Has any person named in Section II ever been convicted in this or another State of any crime which is a felony under the laws of this State, or convicted of a felony in a federal court; or convicted in this or another state or federal court of any of the following crimes: forgery, official misconduct, bribery, perjury, or knowingly submitting false information under any environmental law, regulation, or permit term or condition?  Yes  
 No
- 3) Has there been a finding against any person named in Section II of gross carelessness or incompetence in handling, storing, processing, transporting or disposing of waste, clean construction or demolition debris, or used or waste tires, or a finding of gross carelessness or incompetence in using clean construction or demolition debris as fill?  Yes  
 No

**B. Pending Proceedings**

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified in Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and provide information identified in Attachment A regarding the pending proceeding.

- 1. Is there any proceeding currently pending against any person named in Section II that could result in a conviction or finding described in subsection A, above?  Yes  
 No
- 2. Is there any proceeding currently pending against any person named in Section II that could result in the reversal of a conviction or finding described in subsection A, above?  Yes  
 No

**C. Prior Application Information**

If (i) the applicant has previously submitted the Attachments required pursuant to subsections A and B above and (ii) the Attachments previously submitted are still complete, true, and correct, then the applicant does not need to include Attachments with this submission if the following box is checked:

By checking this box, I affirm that the Attachments previously submitted are still complete, true, and correct and wish to incorporate them into this Certification.

If the above box is checked, identify the application that contains the previously submitted Attachments that are complete, true, and correct.

**Authorization for Release of Information**

R003579

This Certification must be signed by an officer of the applicant.

The undersigned authorizes any representative of the Illinois Environmental Protection Agency bearing this release to obtain any information from the Illinois State Police pertaining to the criminal records of the applicant and hereby directs the Illinois State Police to release such information upon request of the bearer. The undersigned authorizes a review of and full disclosure of all records, or any part thereof, concerning the applicant's criminal records by and to a duly authorized agent of the Illinois Environmental Protection Agency, whether the records are of public, private, or confidential nature. The intent of this authorization is to give consent for full and complete disclosure of the applicant's criminal records.

The undersigned fully understands that any information which is developed directly or indirectly, in whole or in part, as a result of this authorization will be considered in determining whether a permit shall be issued by the Illinois Environmental Protection Agency under the Environmental Protection Act [415 ILCS 5]. The undersigned further agrees to release the Illinois State Police and the Illinois Environmental Protection Agency, its agents and designees under this release, from any and all liability which may be incurred as a result of compliance with this authorization for release of information.

**Certification Statements**

I certify under penalty of law that the information submitted, including information on any Attachments submitted as part of or incorporated into this Certification, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

  
\_\_\_\_\_  
Signature of Applicant Officer

7/23/2025  
\_\_\_\_\_  
Date

David Servatius  
\_\_\_\_\_  
Printed Name

Owner  
\_\_\_\_\_  
Title



# Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

## 39(i) Certification for Operating a Waste Management Facility

Pursuant to 415 ILCS 5/39(i), prior to issuing any RCRA permit, or any permit for a waste storage site, sanitary landfill, waste disposal site, waste transfer station, waste treatment facility, waste incinerator, clean construction or demolition debris fill operation, or used tire storage site, the Illinois EPA must conduct an evaluation of the prospective owner's or operator's prior experience in waste management operations, clean construction or demolition debris fill operations, and tire storage site management. As part of that evaluation please complete and submit this form with your permit application.

This form may be completed online and saved locally before printing, signing and submitting it to the Illinois EPA at the address below. If the form is completed manually, please type or print clearly.

Illinois Environmental Protection Agency  
Division of Land Pollution Control - #33  
39(i) Certification  
2520 West Iles Avenue  
P.O. Box 19276  
Springfield, IL 62794-9276

### I. Applicant Information

Site Name Modern Plating Corporation

IEPA BOL No.: 1770200010

Site Address 701 S Hancock Avenue

City: Freeport

State: IL

Zip Code: 61032

Permit Numbers (if applicable): B-167R-M-12

### Owner

Owner Name: David Servatius

Street Address: 701 S Hancock Avenue

City: Freeport State: IL Zip: 61032

### Operator

Operator Name: Modern Plating Corp c/o Brandon Smith

Street Address: 701 S Hancock Avenue

City: Freeport State: IL Zip: 61032

Is this 39(i) certification for the owner or the operator?

Owner

Operator

Owner and operator are the same entity

### II. Officers and Employees with Site Responsibility

Unless the owner and operator are the same entity, a separate 39(i) form must be submitted for both the owner and operator. Persons operating under the authority of the owner should be listed on the owner's 39(i) form and persons operating under authority of the operator should be listed on the operator's 39(i) form.

A. Officers: List the name and title of all officers of the owner or operator that will have personal involvement or active participation in the operation or management of the site or facility for which the application is submitted.

Name	Title
Brandon Smith	President
Dave Servatius	Vice President

B. Employees: List the name and title of each employee of the owner or operator that will have personal involvement or active participation in the overall operation or management of the site or facility for which the application is submitted (e.g. site managers, site engineers, and other persons who direct or control the overall day-to-day management of the operation, but not persons whose duties are exclusively limited to equipment operation, labor, or similar non-managerial functions).

Name	Title

III. Owner, Operator, Officer, and Employee Information

A. Prior Conduct Identification

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified under Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and include a copy of each final administrative or judicial determination that required an affirmative response. If the information for each owner, operator, officer, and employee has not changed since the applicant's last submission of a 39(i) certification, the applicant can skip to Section III(C), below.

- 1) Has there been a finding that any person named in Section II violated federal, State, or local laws, regulations, standards, or ordinances in the operation of one or more waste management facilities or sites, clean construction or demolition debris fill operation facilities or sites, or tire storage sites?  Yes  
 No
- 2) Has any person named in Section II ever been convicted in this or another State of any crime which is a felony under the laws of this State, or convicted of a felony in a federal court; or convicted in this or another state or federal court of any of the following crimes: forgery, official misconduct, bribery, perjury, or knowingly submitting false information under any environmental law, regulation, or permit term or condition?  Yes  
 No
- 3) Has there been a finding against any person named in Section II of gross carelessness or incompetence in handling, storing, processing, transporting or disposing of waste, clean construction or demolition debris, or used or waste tires, or a finding of gross carelessness or incompetence in using clean construction or demolition debris as fill?  Yes  
 No

B. Pending Proceedings

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified in Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and provide information identified in Attachment A regarding the pending proceeding.

- 1. Is there any proceeding currently pending against any person named in Section II that could result in a conviction or finding described in subsection A, above?  Yes  
 No
- 2. Is there any proceeding currently pending against any person named in Section II that could result in the reversal of a conviction or finding described in subsection A, above?  Yes  
 No

C. Prior Application Information

If (i) the applicant has previously submitted the Attachments required pursuant to subsections A and B above and (ii) the Attachments previously submitted are still complete, true, and correct, then the applicant does not need to include Attachments with this submission if the following box is checked:

By checking this box, I affirm that the Attachments previously submitted are still complete, true, and correct and wish to incorporate them into this Certification.

If the above box is checked, identify the application that contains the previously submitted Attachments that are complete, true, and correct.

### Authorization for Release of Information

This Certification must be signed by an officer of the applicant.

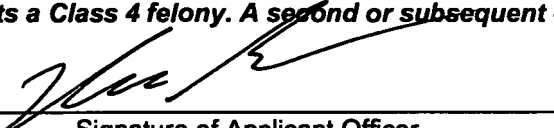
The undersigned authorizes any representative of the Illinois Environmental Protection Agency bearing this release to obtain any information from the Illinois State Police pertaining to the criminal records of the applicant and hereby directs the Illinois State Police to release such information upon request of the bearer. The undersigned authorizes a review of and full disclosure of all records, or any part thereof, concerning the applicant's criminal records by and to a duly authorized agent of the Illinois Environmental Protection Agency, whether the records are of public, private, or confidential nature. The intent of this authorization is to give consent for full and complete disclosure of the applicant's criminal records.

The undersigned fully understands that any information which is developed directly or indirectly, in whole or in part, as a result of this authorization will be considered in determining whether a permit shall be issued by the Illinois Environmental Protection Agency under the Environmental Protection Act [415 ILCS 5]. The undersigned further agrees to release the Illinois State Police and the Illinois Environmental Protection Agency, its agents and designees under this release, from any and all liability which may be incurred as a result of compliance with this authorization for release of information.

### Certification Statements

I certify under penalty of law that the information submitted, including information on any Attachments submitted as part of or incorporated into this Certification, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

  
\_\_\_\_\_  
Signature of Applicant Officer

  
\_\_\_\_\_  
Date

Brandon Smith  
\_\_\_\_\_  
Printed Name

President  
\_\_\_\_\_  
Title

**Halteman, Takako**

---

**From:** Fullriede, Aidan S.  
**Sent:** Wednesday, July 30, 2025 10:54 AM  
**To:** Halteman, Takako  
**Subject:** RE: GW conditions at MPC

Hi Takako,

I'm down in a meeting CCR meeting, sorry about that!

1. Yes, there are just a couple wells that have VOC exceedances adjacent and downgradient of the CAMU, inside of the GMZ.
2. The GMZ runs along the facility boundary, and extends off-site in two places, so we are getting a pretty full picture there.

All the best,  
Aidan

**Aidan Fullriede**  
Environmental Protection Geologist  
Illinois EPA  
Bureau of Land, Permit Section  
(217) 557-8770  
[Aidan.Fullriede@Illinois.gov](mailto:Aidan.Fullriede@Illinois.gov)



**From:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Sent:** Wednesday, July 30, 2025 10:40 AM  
**To:** Fullriede, Aidan S. <Aidan.Fullriede@Illinois.gov>  
**Cc:** Samson, Curtls <Curtls.Samson@Illinois.gov>  
**Subject:** GW conditions at MPC

Hi Aidan,

I have 2 questions on Modern Plating:

1. Any VOCs detected in GW?
2. How wide is GMZ? Does it include the entire facility more or less?

I didn't see you in office so I am emailing.

Thank you,  
Takako

Takako Halteman, P.E.  
RCRA Unit Manager  
Permit Section, Bureau of Land, Illinois EPA  
217/524-3274  
[takako.halteman@illinois.gov](mailto:takako.halteman@illinois.gov)

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**Sanders, Collier**

---

**From:** Sanders, Collier  
**Sent:** Wednesday, July 30, 2025 1:38 PM  
**To:** Halteman, Takako  
**Subject:** Modern Plating Submittals

Takako,

Drawing 12 – this was placed after Drawing 11R sheet 2 in Appendix C “CAMU Construction Drawings”

2024 Modern Plating Annual Inspection was Placed at the end of appendix I “Emergency Equipment Location Figures” per the instructions of Heather Hallett (consultant for the site)

Figure G-1 – this is also located in Appendix I “Emergency Equipment Location Figures”

RCRA Subtitle C section of 8700 form for permit renewal 5-30-2025 - is located in Attachment 3 “RCRA Part A Permit Application”

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LPC-PA23 - The updated signatures for the forms have been substituted in attachment 1 “RCRA Permit Application Form LPC-PA23”



**Collier Sanders (He/Him)**  
Environmental Protection Engineer I  
Bureau of Land  
Permits -- RCRA Unit  
217-786-0749  
[collier.sanders@illinois.gov](mailto:collier.sanders@illinois.gov)

**Halteman, Takako**

**From:** Halteman, Takako  
**Sent:** Tuesday, September 9, 2025 4:38 PM  
**To:** Hallett, Heather L  
**Subject:** RE: Questions on Modern Plating Draft Renewed RCRA Haz Waste Management Post-Closure Permit

Heather – Just following up on 39i -we do have an acceptable 39i. It was the confusion of the blank page at the front as it was thought to be an additional copy. So we will remove Condition V.A.

Thank you for pointing this error out.

Takako



**Takako Halteman, P.E.**  
 RCRA Unit Manager  
 Permit Section, Bureau of Land  
 217/524-3274  
[Takako.halteman@illinois.gov](mailto:Takako.halteman@illinois.gov)

Join our team: [Illinois EPA Employment](#)

**From:** Hallett, Heather L <Heather.Hallett@foth.com>  
**Sent:** Thursday, September 4, 2025 8:29 PM  
**To:** Halteman, Takako <Takako.Halteman@Illinois.gov>  
**Subject:** [External] Questions on Modern Plating Draft Renewed RCRA Haz Waste Management Post-Closure Permit

Takako,

I have some questions about the Draft Renewed RCRA Haz Waste Management Post-Closure Permit received by Modern Plating, dated Aug 5, 2025. I work for Foth, their environmental consultant, we prepared the RCRA renewal application.

My questions are in reference to Section V Special Conditions:

- A. 39i Certification- Brandon Smith, the operator, filled out this form and it was sent to IEPA by mail and emailed to you on July 29, 2025. Was there a problem with the form? Is there more information needed?
- B. 1. Is there a form we need to submit for a Class I permit modification request?
  - B. 1.a. We submitted a revised RCRA Part A application to Collier Sanders on 5/30 by email and mail. Is there a problem with the information we submitted?
  - B.1.b. The RCRA Part B permit renewal application included two drawings showing the location of all of the site features, including the CAMU, monitoring wells, roads, etc. Are there details missing from these drawings? I assume you want us to resubmit these figures with additional details added? Any specific comments you can give us would help us make sure you get what you need.
  - B.1.h. I need some guidance about what all needs to be included in the financial assurance for post-closure care of the CAMU and where the \$413,858 amount came from. The financial assurance is for the period of 2025-2030, correct? Closure date was 2000.

Feel free to call if it's easier to discuss.

*Heather*



**Heather Hallett, PG, CPG**  
**(she/her/hers)**  
Lead Hydrogeologist  
Licensed in WI, IL and PA



**Foth Infrastructure & Environment, LLC**  
2121 Innovation Court, Suite 100  
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De Pere, WI 54115-5095  
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