



LANDFILL – SOLID WASTE COMMITTEE MEETING

MEETING AGENDA

Wednesday, January 8th, 2025

3:00PM

419 Fulton Street – Room 404

Virtual option available:

Microsoft Teams meeting

Microsoft Teams meeting

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LANDFILL COMMISSION AGENDAS AND MINUTES

**ISSUED BY: STEPHEN M. MORRIS,
CHAIRMAN**



CITY OF PEORIA – LANDFILL – SOLID WASTE COMMITTEE

ROLL CALL/ATTENDANCE

ANNOUNCEMENTS, ETC.

CITIZENS' OPPORTUNITY TO ADDRESS THE COMMITTEE

ANYONE WISHING TO MAKE A PUBLIC COMMENT CAN DO SO BY SENDING THOSE COMMENTS TO PUBLIC WORKS, BY **12:00 P.M. ON JAN.6TH, 2025**. PUBLIC COMMENTS CAN BE SENT TO THE PUBLIC WORKS DEPARTMENT, IN WRITING, AT **PUBLICWORKS@PEORIAGOV.ORG** OR VIA FAX AT 309-494-8855. THE EMAIL OR FAX SHOULD BE LABELED "PUBLIC COMMENT FOR JAN.8TH, 2025, PEORIA CITY/COUNTY LANDFILL COMMITTEE MEETING," AND WE ASK THAT YOU INCLUDE YOUR NAME AND ADDRESS.

CITIZENS WISHING TO ADDRESS AN ITEM NOT ON THE AGENDA SHOULD CONTACT A COMMISSION MEMBER PRIOR TO THE MEETING. ALL OTHER PUBLIC INPUT WILL BE HEARD UNDER PUBLIC COMMENT NEAR THE END OF THE COMMITTEE MEETING.

MINUTES

REQUEST FOR APPROVAL OF THE PEORIA CITY/COUNTY LANDFILL
November 13th, 2024 Regular Landfill Meeting Minutes

AGENDA ITEMS

ITEM NO. 1 REPORT FROM FOTH INFRASTRUCTURE & ENVIRONMENT, LLC

- A. Monthly Update
- B. Signature Approvals
- C. Waste Profile Approval

ITEM NO. 2 REPORT FROM PUBLIC WORKS ADMINISTRATION

- A. Landfill Monthly Financial Report
- B. 2025 Budget

ITEM NO. 3 REPORT FROM WASTE MANAGEMENT-Ian Johnson

- A. Monthly Activity Reports
- B. Signature Approvals

ITEM NO 4. REPORT FROM GFL

- A.Monthly Activity Reports
- B.Signature Approvals

ITEM NO 5. CHAIRMAN MORRIS

- A. Approve amended and restated Landfill Agreement

UNFINISHED BUSINESS

OPEN FOR DISCUSSION.

NEW BUSINESS

OPEN FOR DISCUSSION.

EXECUTIVE SESSION

If applicable.

ADJOURNMENT

NEXT MEETING

(TBA 2025)

CITIZENS WISHING TO ADDRESS AN ITEM NOT ON THE AGENDA SHOULD CONTACT A COMMISSION MEMBER PRIOR TO THE MEETING. ALL OTHER PUBLIC INPUT WILL BE HEARD UNDER PUBLIC COMMENT NEAR THE END OF THE COMMITTEE MEETING.
NOTE: THE ORDER IN WHICH AGENDA ITEMS ARE CONSIDERED MAY BE MOVED FORWARD OR DELAYED BY AT LEAST 2/3 VOTE

OFFICIAL PROCEEDINGS

FOR THE CITY OF PEORIA – SOLID WASTE COMMITTEE MEETING

November 13th 2024

Members Present: Chairman Stephen Morris, Vice-Chair Rick Fox, Sharon Williams, Stephen Van Winkle, Robert Culp – 5

Non-Voting Members: Sharese Kirchgessner, Josh Gabehart (Foth) Jennie Boswell, Shaun Schoonover, David Bryant.

Attendees: City of Peoria Corporation Counsel – County Administrator – Patrick Ulrich – City Manager, Scott Sorrell, Tara Van Hoof (Foth), Joyce Blumenshine (Citizen), Tim Curry & Janaki Nair (GFL).

Rebecca Cottrell (Peoria County), Brian Meginnes (GFL Legal Representation)

ANNOUNCEMENTS, ETC.

None.

CITIZENS' OPPORTUNITY TO ADDRESS THE COMMITTEE

None.

Motion to approve October 9th minutes

Fox motioned to approve the minutes with one correction to a date mentioned June in the previous minutes, seconded by Van Winkle and approved with a unanimous verbal vote.

ITEM NO. 1 REPORT FROM FOTH INFRASTRUCTURE & ENVIRONMENT, LLC

Monthly Update

Tara with Foth begins by discussing the budget spreadsheet provided in the packet. Through October 31, the total amount billed was \$352,011, and the total spend was 81.9% of the January through December 31, 2024, contract, which is over the planned budget spend of 76.8%. As mentioned at previous meetings Phase 6, the unplanned GCCS repairs and emergency phase is over budget with several repairs. In October, additional resources were required to acquire and install Apollo pumps in wells S-6 and B-7. Additionally, Phase 2 Groundwater Support and Data Review is over budget due to preparation of more assessment submittals than were anticipated. (One will be discussed in the signature approval section, but it's a significant modification to a permit application that we had not expected).

Work continues on the GMD 2 assessment (October 9, 2024, Committee meeting) that was not part of the original scope of work. With the increased scope, we are over the initial budget for the GMD assessment task. Though these tasks are over budget, we are confident that we can stay within the overall budget for the year. There have been no shutdowns since the last meeting requiring 405 – CAAPP forms. Since the previous meeting, 9,500 gallons were transported off-site to GPSD. Methane content was within the expected range at 35 points 2%, but we're significantly lower in waste receipts.

Landfill 3 updates

On November 6, 2024, Foth was onsite with GFL and IDNR to check the accessibility of proposed boring locations for the next phase of the investigation into possible underground mines near what would be the sidewall slope of some areas of Landfill No. 3. The mine investigation looked like they were all be accessible, so all the locations would be accessible once they cleared that out.

Tara- I haven't heard anything; I assume that has been cleared?

Josh- Yes, the clearing was ongoing and they're looking for the drilling operations to happen sometime in January, February, and March.

November 13th Tara attended a meeting with Hanson on the dam and the dam reclamation movement. There were some questions on who the applicant for the permits would be and who would be maintaining that property and do they still want to keep plans, the viewing platforms, the trail, the bathrooms, the parking lot, etc. So, it was brought to discuss with the committee if the landfill isn't operating, getting in and out, do you want the public to have access to landfill property?

Chairman Morris- Is there any sense that GPSD might ever stop taking early changes? And if so what's plan B?

Josh- I have not heard any change in that direction yet. We do not have a backup for that at this time, but we can investigate that.

Rick- Related to the meeting today related to the dam, so that is the work that the IDNR is taking that was a part of the wetland's mitigation for Landfill 3. Is that effectively what that is?

Josh- That's' correct. When that was designed by PC it took care of the wetland issue, the wetland disturbance at Landfill 3 as well as taking care of the Entrance Road dam, and updating the permit.

Rick- So with the delay those might feel free that work will still we're confident that that work that they're going to do and soon it will be accounted for, and we won't have to revisit that.

Josh- That is my understanding currently.

Van Winkle- Is there some issue as far as them taking our leachate?

Morris- No. but there is an issue with a lot of sanitary districts taking the chain.

Signature approval

There's an investigation into an increased dissolved or a concentration at well G07S that includes a summary report and then a proposed course of action, which could be that there's no action needed, no further investigation, or that there would be further investigation.

Fox motioned to approve, seconded by Williams, and approved with a unanimous verbal vote.

Waste Profiles Request

2 pre-approved

- 405-CAAPP Form for Two Flare Shutdowns that Exceeded the One-Hour Duration
- Significant Modification Permit Application Summarizing the Investigation of Methane Exceedances at Gas Monitoring Device (GMD) 2.

Van Winkle motioned to approve anything else that may come up before the next meeting, seconded by Fox and approved with a unanimous verbal vote.

Ameresco presentation

Dawn Fisher presented a package provided to the committee going over all the following:

- Introductions
- Brief overview of Ameresco
- Proposal Review
- Next steps working with Ameresco and benefits.

Questions

Van Winkle- With the change of the administration, does the federal level have an impact on what you do in the REC program?

Fisher- The one thing that could change, but we're not concerned about it is there under the IRA, there are the investment tax credits associated with solar, but everyone's questioning whether they'll be an issue, but we don't believe so. So, the tax credits help also with the economics of solar. there's a 6% base, but if you do apprentice apprenticeship and prevailing wage, which we do, then you're bumped up to a 30% tax credit. And for Brownsville, if it meets certain criteria, you get another 10% on top of that.

Morris- Josh, how involved will FOTH be in this process moving forward?

Josh- We are helping to facilitate and get information is where we are currently at right now, we have the lease option agreement that we looked at we had a couple of comments. We've got Jenny here very recently and we're hoping to have it in the next couple of meetings, just depends on our schedule.

Fox- So the next steps are getting that agreement signed so they can begin work and coming back for our approval at a future meeting?

Josh- We'll try to have them by the next meeting for the committee and then the interconnect and go and then get into the queue for that.

ITEM NO. 2 REPORT FROM PUBLIC WORKS ADMINISTRATION

Landfill Monthly Budget Report

Shaun Schoonover reviewed the monthly financials and other projections for this year following up with a first draft of the budget and somewhat a long-term plan.

Starting with the financials for October, revenue was \$23.8K. Expenses were 59.6K. Foth sort of reviewed the expenses and some of them came in a little bit over budget for the month. We had a loss of 35K for the month which brings our ending fund balance for October just under \$72K. The packet presented (last column, second line) shows a one-time payment from GFL. After the contract is finished, we're anticipating the \$300k which will be received by the city and put into our account. So, we're projecting our revenue for 2024 to finish \$646K. Expenses We are projecting \$534K, As Foth mentioned it looks like their expenditures (which are the main expenditures) are going to come in close to budget. We did get the invoice from the county and the city audit fees were posted in October, so with the \$300K, our excess revenues over expenditures for 2024 are anticipated to be \$111K, which would put our ending fund balance at just under \$336K.

Budget document- FOTH and I put together the budget document for 2025, but also included a snapshot of the next four years after that to give a layout of what it looks like with the changes and everything that has materialized.

Shaun discussed item lines and explained what budgets and numbers meant on document provided in the packet. The document is just for discussion and to get an idea of what it's going to look like.

Questions---

Van Winkle- So the big difference between the 2025 proposed and 2026 is the solar lease. Is that what gave us the big bump?

That's correct! I just made a note based on Ameresco's presentation that we're not quite sure if that will start in 2026 or when it will start in 2026.

ITEM NO. 3 REPORT FROM WASTE MANAGEMENT

Monthly Activity Reports

Ian- The attached report shows the tonnages for October. All weekly random load checks were completed and documented with no issues to report. Tonnages were down about 7500 tons. We're still anticipating ceasing waste exceptions around April 2025. We have a groundwater quality evaluation report that's due November 30th for R117 at nitrate. Mark from Foth already reviewed the application and found it to be sufficient, So I will be submitting some permit forms to Chairman Morris for signature upon approval by the committee. Also, I have another permit application due January 19th for nitrate at 1:15. The nitrate is due to natural conditions in the aquifer and not the landfill. I will submit that application to Foth for review before asking for Chairman Morris's signature. The final increment of the gas collection system is currently being installed and should be completed in November 2024. A permit application requesting to operate the new gas wells will be submitted to the IEPA in December 2024. We are requesting Chairman Morris' signature on the application forms after review and approval of the application by Foth.

Ian asked to allow sufficient time to respond to short-term submittal requirements that may arise before the next Landfill Committee meeting, we respectfully request authorization for the Committee chairperson to sign such documents, subject to review and approval in advance by Foth.

Fox- So there are going to be requests coming for three known permanent modifications and then the 4th item is the "if needed".

Ian- That's correct. I have 3 permit applications that are going to one that's going out in a couple of weeks and then two more probably going out before Christmas.

Signature Approvals

Van Winkle motioned to approve signature request seconded by Fox; approved with a unanimous verbal vote.

ITEM NO. 4 REPORT FROM GFL

Monthly Activity Reports

Our project labor agreement for the transfer station project is signed. We are a month ahead of schedule on the transfer station. We've met with the county to plan out the household hazardous waste events. We had a meeting with our contractor in July or August, the 1st event, depending on if the landfill closes end of April probably will be at Expo

Gardens and they'll handle everything traffic Etc. So, our next step we just get the restated agreement signed when you guys have time.

Signature Approvals

GFL doesn't have anything specific right now and doesn't anticipate it would be anything before the next meeting.

Fox motioned to approve for signatures of any unanticipated subject to approval. Second by Van Winkle; approved with a unanimous verbal vote.

Unfinished / New Business

Morris- I would just say that Jenny has been working diligently on the agreement. A couple of points haven't resolved just yet, but we're close. But that's the updating from us for the committee.

Adjournment- 4:04 PM



REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members

From: Mark Williams and Joshua Gabehart, P.E., Foth Infrastructure and Environment, LLC

AGENDA DATE REQUESTED: JANUARY 08, 2025

ACTION REQUESTED: Receive and File Monthly Report

BACKGROUND: The following report details engineering items occurring since the last scheduled Committee Meeting.

Financial Information

The attached spreadsheet shows Foth engineering services provided through November 30, 2024. Through November 30, the total amount billed was \$378,183, and the total spend was 88.0% of the January through December 31, 2024 contract, which is slightly over the planned budget spend of 86.8%. As mentioned during previous meetings, the Phase 2 Groundwater Support and Data Review and Phase 6 Unplanned GCCS Repairs/Emergency tasks are over budget; however, based on the planned budget for December, we will stay well within the overall budget for the year.

Updates Regarding Compliance Activities, Measures, and Progress

- There have been no shutdowns since the last meeting requiring 405 – CAAPP forms.
- Gas methane content at the flare was 33.5% and 33.6% for the month of November and December, respectively, which are within the expected range.
- Monthly tonnages through December are attached. Through December, general MSW was less than the 2023 receipts by almost 82,000 tons, and total tonnage received was over 87,000 tons less than the 2023 waste receipts. There are no recommended changes to plan at this time.

Landfill 3 Updates

Correspondence on entrance dam, no plans have been seen at this time.

Solar Development

Ameresco is awaiting signature of the Option Agreement for leasing the property for solar development.

Other

- Lease agreements will be updated in January/February 2025.
- On December 9, 2024, Foth and GFL had a meeting to discuss tasks that Foth performs for Landfill No. 1, on behalf of the Committee, for which GFL will need to take over after Landfill No. 2 closes. GFL expressed interest in Foth continuing to perform these tasks in 2025; logistics and payment terms will need to be discussed with the Committee. The proposed 2025 budget will be split between GFL and Committee tasks. Prior to finalizing the budget, the task list will be circulated to GFL for review and then presented to the

Committee. Foth anticipates that the City will present the proposed 2025 budget at the February 2025 Committee meeting.

- 2025 Committee meeting schedule discussion – monthly or every 6 weeks

FINANCIAL IMPACT: The \$15,000 budget for Phase 6 Unplanned GCCS Repairs/Emergency and \$38,750 budget for Phase 2 Groundwater Support and Data Review have been exhausted and are over budget, but we are managing to the overall budget for the year.

				January		February		March		April		May		June	
Phase/ Task	Description	Beginning Estimate	Current Budget Estimate	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Phase 1 - 0100230	General Compliance and Guidance	\$ 133,250	\$ 113,250	\$ 20,958	\$ 19,850	\$ 7,208	\$ 5,915	\$ 10,208	\$ 8,563	\$ 12,208	\$ 12,337	\$ 5,500	\$ 5,284	\$ 7,250	\$ 6,516
Phase 2 - 0200231	Groundwater Support and Data Review	\$ 38,750	\$ 38,750	\$ 8,958	\$ 8,576	\$ 3,267	\$ 3,464	\$ 2,951	\$ 2,191	\$ 6,167	\$ 6,301	\$ 2,000	\$ 1,826	\$ 2,750	\$ 2,354
Phase 3 - 0300232	Gas System and Leachate Management Operations	\$ 151,950	\$ 156,700	\$ 18,396	\$ 19,333	\$ 12,746	\$ 14,173	\$ 11,596	\$ 13,833	\$ 8,896	\$ 8,229	\$ 7,002	\$ 6,951	\$ 12,750	\$ 11,834
Phase 4 - 0400200	Solar Development	\$ 25,500	\$ 25,500	\$ 2,125	\$ 435	\$ 800	\$ 730	\$ 600	\$ 514	\$ 500	\$ 484	\$ 3,500	\$ 3,207	\$ 500	\$ 53
Phase 5 - 0500201	Landfill No. 2 and No. 3 Expansion/Transition	\$ 65,500	\$ 65,500	\$ 5,458	\$ 4,345	\$ 2,500	\$ 1,667	\$ 2,500	\$ 2,045	\$ 7,000	\$ 6,443	\$ 6,000	\$ 6,027	\$ 3,213	\$ 3,007
Phase 6 - 0600220	Unplanned GCCS Repairs/Emergency	\$ 15,000	\$ 30,000	\$ 4,500	\$ 4,347	\$ 3,400	\$ 3,353	\$ 7,000	\$ 7,323	\$ 100	\$ 144	\$ -	\$ -	\$ -	\$ 3,126
	Total	\$429,950	\$429,700	\$60,396	\$56,886	\$29,921	\$29,301	\$34,855	\$34,470	\$34,871	\$33,936	\$24,002	\$23,295	\$26,463	\$26,891
	% Contract Months Complete			8.3%		16.7%		25.0%		33.3%		41.7%		50.0%	
	% Budget Spent			13.2%		20.1%		28.1%		36.0%		41.4%		47.7%	
	% Planned Budget Spend			14.1%		21.0%		29.1%		37.2%		42.8%		49.0%	

Operational Notes:

January - Phase 1: Project planning and set-up. Committee meeting preparation and attendance. Waste profile review. Semiannual CAAPP and NSPS reporting. Phase 2: Annual Corrective Action Report. Phase 3: Leachate pumping. Leachate data management. Leachate tank sampling. Flare re-lit several times after going down. Gas data management. Monthly gas monitoring. Phase 4: Revisions to solar development RFP. Phase 5: IDNR and IEPA meetings regarding mine investigation. Phase 6: Emergency seep repairs (Foth labor for oversight). Flare troubleshooting and repairs due to extreme cold and high winds.

February - Phase 1: Monthly meetings. Project management/administration. Airspace analysis. Waste profile review. Dam inspection report. Phase 2: Submit Annual Corrective Action Report. Groundwater assessments. Phase 3: Leachate pumping several days. Flare re-lit several times after going down. Gas data management. Monthly gas monitoring. Leachate haul. GMD3 assessment report. Phase 4: Revisions to solar development RFP. Meeting with City procurement. Phase 5: Meetings/discussions regarding mine investigation. Phase 6: Flare troubleshooting modem/communication issues.

March - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Post-closure letter to the City auditor. Post-closure costs update. Dam inspection. Permit waiver extentions. Green house gas calculation. Phase 2: Annual groundwater report. Groundwater assessments. Phase 3: Leachate pumping several days. Flare re-lit several times after going down. Gas data management. Monthly gas monitoring. Leachate haul. GMD5 assessment report. Phase 4: Solar development RFP coordination/communications. Phase 5: LF#3 meeting and communications. Mine investigation report review. Dam project correspondence. Phase 6: Continued to troubleshoot flare modem/communication issues. Flare down several times, needed to be relit. Power outage. L303 pump issues. Compressor and pump repairs.

April - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Post-closure costs update. Permit waiver extentions. Green house gas calculation. Phase 2: Annual groundwater report. Groundwater assessments. Phase 3: Leachate pumping several days. Flare re-lit several times after going down. Gas data management. Monthly gas monitoring. Leachate haul. Phase 4: Solar development RFP coordination/communications. Phase 5: LF#3 meeting and communications. Options analysis meetings/coordination. Phase 6: Compressor and pump repairs.

May - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Post-closure costs update and draft denial response. EPA inspection. Phase 2: Groundwater assessment for acetone. Phase 3: Leachate pumping several days. Re-lit flare. Gas data management. Monthly gas monitoring. Leachate haul. Phase 4: Solar development RFP coordination/communications/meetings. Phase 5: LF#3 meetings and communications. Permit mod review. Dam rehab meeting with IDNR. Phase 6: NA

June - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Permit reviews. IEPA waiver extensions. Phase 2: Prepared draft denial responses. Prepared GW maps. Reviewed lab data. Phase 3: Leachate pumping several days. Gas data management. Monthly gas monitoring, perimeter probes. GPSD reporting. Leachate haul. Phase 4: Solar development RFP coordination/communications. Phase 5: LF#3 meetings and communications. Review permit mod and response to GFL. Review GFL proposal. GFL open session. Phase 6: Compressor repairs. Power failure and flare down. Repair leaking well to restore proper balance to flare. Repair leak at B-9.

July - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Permit reviews. IEPA waiver extensions. Semiannual air permit reporting. Phase 2: Reviewed lab data. Dealt with lab issues. Collected split samples. Groundwater assessments. Phase 3: Leachate pumping several days. Prepared DTL gas well maps. Gas well depth to liquid. Ran compressors. Gas data management. Monthly gas monitoring. Quarterly gas well headspace monitoring. Well balancing. Performed SEM monitoring. Processing SEM data. Flare data management. Leachate haul and sampling. GPSD semiannual reporting. Phase 4: Solar development communications with Ameresco. Phase 5: LF#3 meetings and communications. County Board presentation. Phase 6: Install new pumps in T-5 and S-6, diagnostics, troubleshooting, Compressor repairs. C5 air leak and L303 sensor error troubleshooting.

August - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Permit reviews. IEPA waiver extensions. 405 CAAPP forms. Phase 2: Reviewed Groundwater data. Groundwater assessments and observed increases. Phase 3: Leachate pumping several days. Ran compressors and performed repairs while leachate pumping. Gas data management. Monthly gas monitoring. Flare data management. Leachate haul and sampling. GMD 3 and GMD5 reporting. Phase 4: Solar development communications with Ameresco. Phase 5: LF#3 meetings and communications. Phase 6: S-6 pump installation, diagnostics, troubleshooting. GCCS work to improve/diagnose GMD 5 methane concentrations vs nearby well vacuum values and associated data processing.

September - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Permit reviews. IEPA responses. 405 CAAPP forms. Gate audit. Phase 2: Reviewed Groundwater data. Groundwater assessments. Phase 3: Leachate pumping. Site repairs - L303 and S-6. Gas data management. Monthly gas monitoring. Flare data management. Flare and SCADA issues. BEA onsite to troubleshoot. GMD 2, GMD 3, and GMD5 reporting/responses. Phase 4: Solar development kick-off meeting with Ameresco. Phase 5: LF#3 meetings and communications. Siting research. Proposal review. GFL resolution review and discussions.

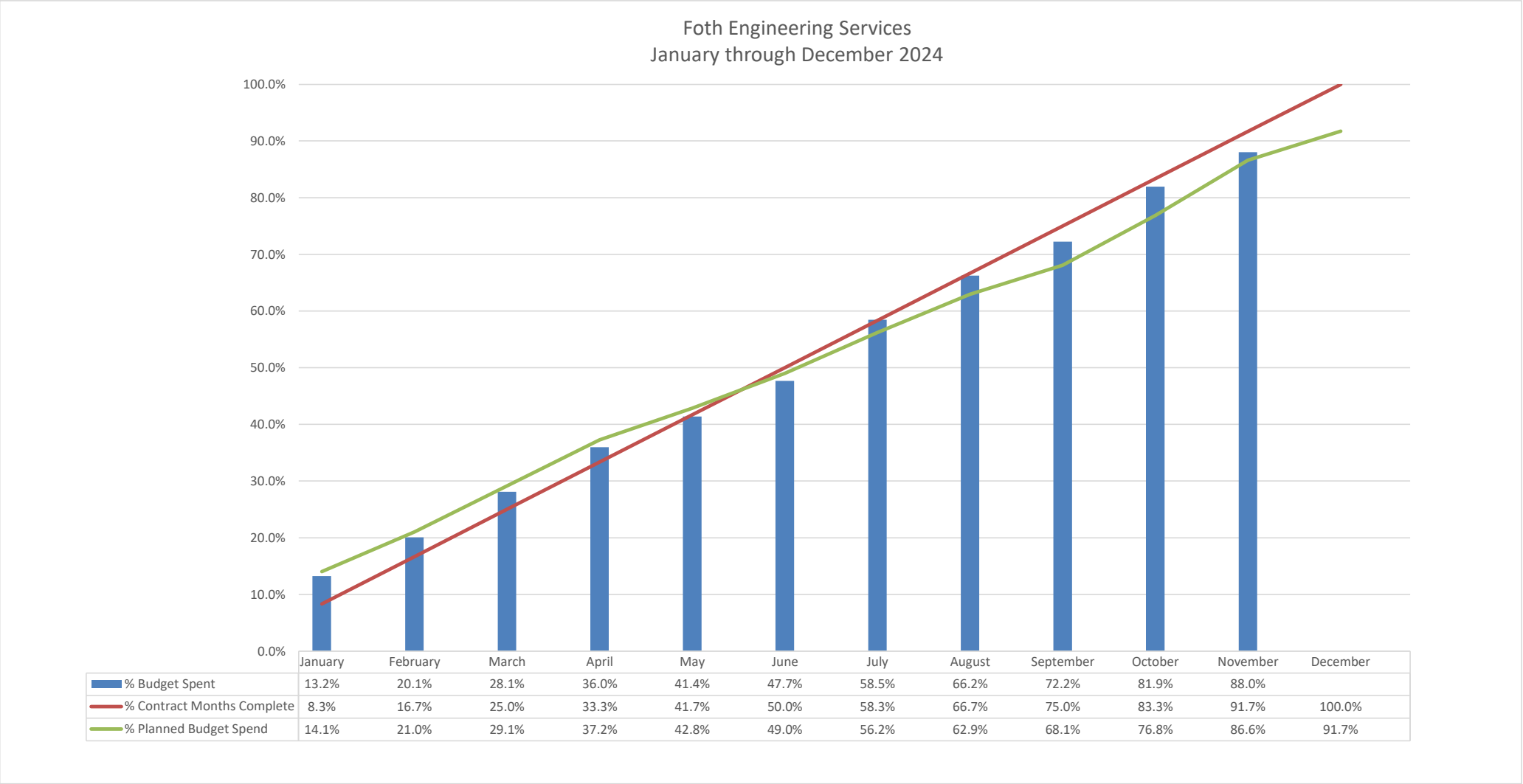
October - Phase 1: Monthly meetings. Committee meeting agenda prep. Project management/administration. Waste profile review. Permit reviews. IEPA responses. 405 CAAPP forms. 2025 budget planning. Green house gas sampling. Phase 2: Reviewed Groundwater data. Groundwater assessments. Phase 3: Leachate pumping. L303 diagnostics. Gas data management. Monthly gas monitoring. Flare data management. GMD 2 reporting. Purchase of Apollo pump heads. Phase 4: Solar coordination and action items. Phase 5: LF#3 communications. Siting research. Phase 6: Acquisition and installation of Apollo pumps.

November - Phase 1: Monthly meetings. Committee meeting agenda items prep. Travel to committee meeting. Project management/administration. Waste profile review. Permit reviews. IEPA responses. Dam inspection. Phase 2: Lab issues. Permit review. Reviewed Groundwater data. Groundwater assessments. Intrawell assessment/calculations. Phase 3: Leachate pumping. Gas data management. Monthly gas monitoring. Flare data management. Yearly gas probe readings. AirTech lab invoice. Phase 4: Ameresco draft option agreement review. Phase 5: LF#3 communications. LF agreement/contract review. IDNR meeting regarding additional site investigation. Phase 6: NA

December - Phase 1: Phase 2: Phase 3: Phase 4: Phase 5: Phase 6:

Foth Infrastructure & Environment, LLC
24P300.00 - Engineering Services January - December 2024
Joint City and County of Peoria Landfill Committee

		July		August		September		October		November		December		YTD TOTAL		
Phase/ Task	Description	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	% Complete
Phase 1 - 0100230	General Compliance and Guidance	\$ 10,941	\$ 10,283	\$ 6,279	\$ 5,970	\$ 5,398	\$ 5,400	\$ 10,796	\$ 10,515	\$ 14,125	\$ 11,900	\$ 7,982	\$ -	\$ 113,250	\$ 102,533	91%
Phase 2 - 0200231	Groundwater Support and Data Review	\$ 2,100	\$ 2,014	\$ 3,450	\$ 3,532	\$ 2,200	\$ 2,163	\$ 1,892	\$ 7,688	\$ 2,750	\$ 2,749	\$ 2,500	\$ -	\$ 38,750	\$ 42,860	111%
Phase 3 - 0300232	Gas System and Leachate Management Operations	\$ 14,250	\$ 17,572	\$ 14,876	\$ 14,343	\$ 10,450	\$ 14,650	\$ 14,100	\$ 17,300	\$ 13,184	\$ 8,182	\$ 7,578	\$ -	\$ 156,700	\$ 146,400	93%
Phase 4 - 0400200	Solar Development	\$ 500	\$ 188	\$ 1,000	\$ 53	\$ 700	\$ 587	\$ 300	\$ 271	\$ 500	\$ 211	\$ 1,000	\$ -	\$ 25,500	\$ 6,731	26%
Phase 5 - 0500201	Landfill No. 2 and No. 3 Expansion/Transition	\$ 3,247	\$ 2,843	\$ 3,328	\$ 3,863	\$ 3,195	\$ 2,853	\$ 10,689	\$ 2,130	\$ 11,392	\$ 3,130	\$ 3,000	\$ -	\$ 65,500	\$ 38,351	59%
Phase 6 - 0600220	Unplanned GCCS Repairs/Emergency	\$ -	\$ 13,537	\$ -	\$ 5,687	\$ -	\$ -	\$ -	\$ 3,790	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ 41,308	138%
	Total	\$31,039	\$46,437	\$28,933	\$33,448	\$21,942	\$25,653	\$37,778	\$41,694	\$41,952	\$26,172	\$22,060	\$0	\$ 429,700	\$ 378,183	88%
	% Contract Months Complete	58.3%		66.7%		75.0%		83.3%		91.7%		100.0%				
	% Budget Spent	58.5%		66.2%		72.2%		81.9%		88.0%		88.0%				
	% Planned Budget Spend	56.2%		62.9%		68.1%		76.8%		86.6%		91.7%				

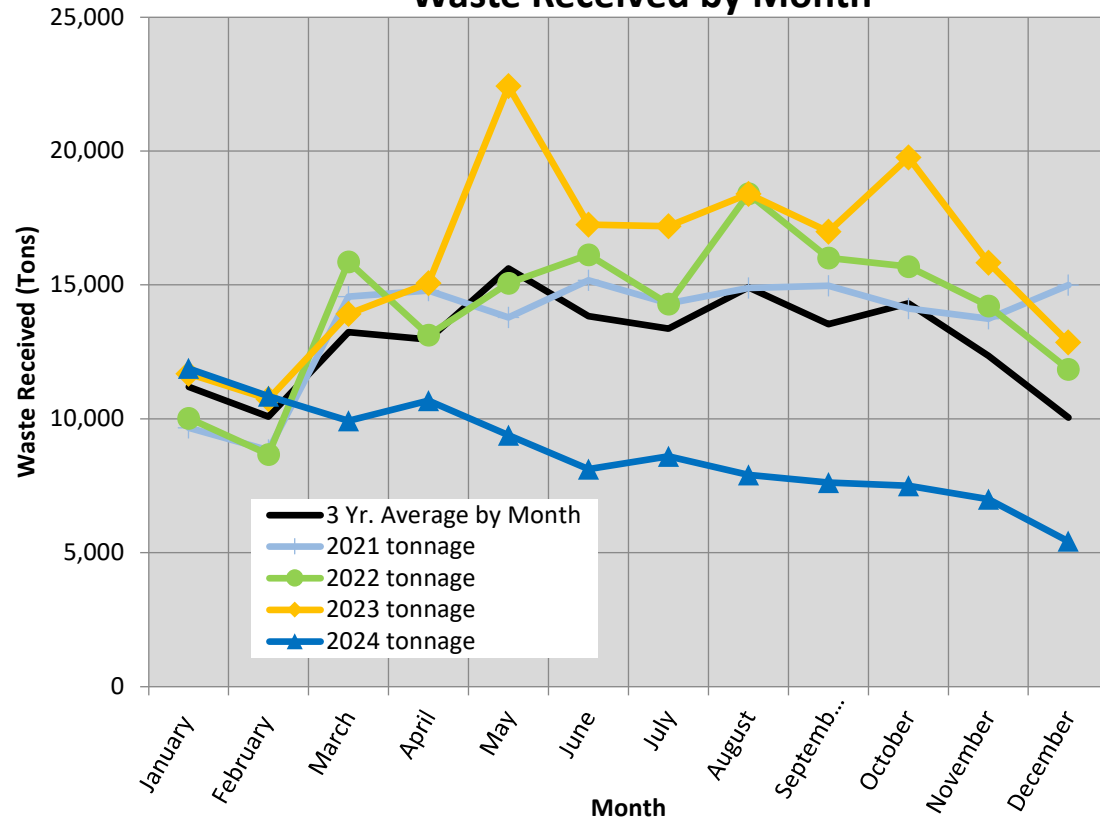


Waste Received by Month PCCL Landfill No 2

Month	2018 Tonnage	2019 Tonnage	2020 tonnage	2021 tonnage	2022 tonnage	2023 tonnage	2024 tonnage	5 Yr. Average by Month	3 Yr. Average by Month	2 Yr. Average by Month
January	11,730.59	12,199.76	13,168.18	9,667.53	10,021.13	11,682.50	11,881.22	11,284.1	11,195.0	11,781.9
February	12,244.04	9,746.12	10,070.59	8,832.31	8,670.38	10,740.68	10,845.83	9,832.0	10,085.6	10,793.3
March	14,516.49	12,533.33	12,128.74	14,559.55	15,860.15	13,919.72	9,921.13	13,277.9	13,233.7	11,920.4
April	14,573.51	15,014.76	13,541.53	14,791.33	13,123.26	15,055.70	10,681.21	13,438.6	12,953.4	12,868.5
May	17,568.27	16,560.81	14,209.21	13,779.53	15,056.74	22,416.18	9,387.51	14,969.8	15,620.1	15,901.8
June	16,896.60	15,267.88	15,037.75	15,171.04	16,120.02	17,242.79	8,123.37	14,339.0	13,828.7	12,683.1
July	16,116.44	15,569.30	17,000.88	14,309.57	14,284.38	17,192.91	8,600.23	14,277.6	13,359.2	12,896.6
August	16,445.70	16,690.04	15,963.12	14,881.66	18,405.77	18,390.25	7,907.74	15,109.7	14,901.3	13,149.0
September	14,809.20	13,953.48	16,095.09	14,965.24	16,009.40	16,979.15	7,618.62	14,333.5	13,535.7	12,298.9
October	16,235.75	19,289.83	15,531.79	14,112.35	15,684.03	19,761.08	7,497.94	14,517.4	14,314.4	13,629.5
November	13,895.01	18,263.39	14,222.22	13,741.19	14,207.94	15,826.20	6,999.20	12,999.4	12,344.4	11,412.7
December	12,208.30	14,534.79	12,708.54	14,983.92	11,853.62	12,847.87	5,430.80	11,565.0	10,044.1	9,139.3
Total	177,239.90	179,623.49	169,677.64	163,795.22	169,296.82	192,055.03	104,894.80	159,943.90	155,415.55	148,474.92
General MSW	173,804.02	161,919.10	161,970.42	159,145.96	160,305.60	176,208.39	94,257.61			
Profiled Waste Tons	3,435.88	17,704.39	7,707.22	4,649.26	8,991.22	15,846.64	10,637.19			

5-yr, 3-yr, and 2-yr averages include 2024 tonnage where data is available.

Waste Received by Month





REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Joshua Gabehart, P.E.; Foth Infrastructure and Environment, LLC

AGENDA DATE REQUESTED: January 8, 2025

ACTION REQUESTED: Approval for Chairman Morris' Signature

- PCC LF1 – Evaluation of Corrective Action Measures for the Landfill Gas/Groundwater Issues at Groundwater Wells G04S and R10S (Corrective Action Update Report) due to IEPA January 15, 2025.
- PCC LF1 – Semi-Annual Pretreatment Report Due (January 20, 2025)
- PCC LF1 – CAAPP Semi-Annual New Source Performance Standards (NSPS) Report due (January 31, 2025)
- PCC LF1 – CAAPP Semi-Annual Air Monitoring Report due (January 31, 2025)

BACKGROUND:

The Corrective Action Update Report is required to be submitted to the Illinois Environmental Protection Agency (IEPA) on an annual basis as stated in condition VIII.(2) of the facility's permit. This condition requires the following:

- A thorough discussion of groundwater concentration results at wells G04S and R10S;
- A thorough discussion on the landfill gas headspace monitoring results for wells G03S, G04S, G05S, R10S, G25S, and G26S;
- A thorough discussion on the operation of the flare;
- A thorough discussion on the ongoing repairs, maintenance, and upgrades of the Gas Collection and Control System (GCCS); and;
- If statistically significant upward trends or parameters of concern indicate diminished groundwater quality, or if new contaminants of concern are noted, additional corrective action or the addition of new parameters of concern could be proposed.

The Semi-Annual Pretreatment Report to the Greater Peoria Sanitary District is required as part of the permit to discharge leachate at the Darst Street Facility. This report includes flow and analytical results for parameters as required by the permit for the time period of June 2024 through December 2024. The semi-annual pretreatment report is due January 20, 2025.

The Clean Air Act Permit Program (CAAPP) requires reports to be submitted semi-annually regarding various compliance, monitoring, and operational data for the Peoria City/County Landfill. The following reports are required for information relative for the period of July 1, 2024 through December 31, 2024.

- The NSPS report includes gas system monitoring and downtime data for the second half of 2024.
- The CAAPP Semi-Annual Air Monitoring Report includes surface scan data, flare log, flare down time, gas well data, and cover inspection logs.
- Each of these reports include data provided by Waste Management for Landfill 2 operations and are included in each corresponding report.

Foth does not expect other reports requiring Chairman Morris or Director Powers' signatures. However, we respectfully request approval to obtain Chairman Morris' signature should the need arise prior to the next Committee Meeting. If the need does arise, a report will be brought before the board at the next scheduled meeting.

FINANCIAL IMPACT: These submittals are included in the professional services agreement with Foth Infrastructure & Environment, LLC.



REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Mark Williams and Joshua Gabehart, P.E.; Foth Infrastructure and Environment, LLC

Agenda Date Requested: January 8, 2025

ACTION REQUESTED: Receive and file two pre-approved waste profiles.

BACKGROUND: Please see attached memorandum, which reviews and includes information pertaining to this profile:

1. Profile 940093IL from CCIMW was pre-approved per the Sandblast Grit Policy.
2. Profile WM 010289 from Artco Fleeting Service was pre-approved per the Previously Approved Waste Stream Policy.

Foth has included all the technical data in the packet.

Based on the information provided, Foth has no technical objections for acceptance of the waste profile listed above.

FINANCIAL IMPACT: The waste profiles are expected to generate approximately \$1,015.20 in host fees.

Foth Infrastructure & Environment, LLC
2314 West Altorfer Drive
Peoria, IL 61615
(309) 691-5300 • Fax: (309) 691-1892
www.foth.com

January 8, 2025

TO: Joint City of Peoria - County of Peoria Solid Waste Disposal Facility Board

CC: Rick Powers, City of Peoria
Scott Sorrel, Peoria County

FR: Mark Williams, Foth Infrastructure & Environment, LLC

RE: Certified Non-Special and Special Waste Permit Approvals

Waste Management has presented the following waste streams.

Pre-Approved Waste Streams (No Action is Required. For Information Only)

- CCIMW, Profile 940931IL
 - Sandblast Grit Policy
 - 10 tons, one-time
 - Estimated Host Fee – \$28.20
- Artco Fleeting Service, Profile WM010289
 - Renewal Previously Approved Waste Stream
 - 350 tons, repeat
 - Estimated Host Fee – \$987.00

See attached profile sheets and laboratory reports.

Committee approval does not relieve the Generator or Landfill Operator from complying with all applicable laws and regulations. Committee approval is based on information provided by Generator and Landfill Operator.



Requested Facility: Peoria City - County Landfill ☐ Unsure Profile Number: 940931IL
☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: CCIMW
2. Generator Site Address: 11821 IL-40
(City, State, ZIP) Dunlap IL 61525
3. County: Peoria
4. Contact Name: Charles Vosbrink
5. Email: charlie@ccistl.com
6. Phone: (636) 354-8014 7. Fax: _____
8. Generator EPA ID: _____ ☒ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Sandblast Grit
Describe Process(es) Generating Material: ☐ See Attached

Exterior surface blasting to remove paint/rust from structures. MSDS for sandblast media is attached.

2. Material Composition and Contaminants: ☐ See Attached

1. Sandblast media, solids (paint chips/rust)	100 %
2. _____	
3. _____	
4. _____	
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☒ N/A
4. Color: Various
5. Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: _____ to _____ ☒ N/A
7. pH: _____ to _____ ☒ N/A
8. Strong Odor: ☐ Yes ☒ No Describe: _____
9. Flash Point: ☐ <140°F ☐ 140°-199°F ☐ ≥200° ☒ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☒ Yes
Please identify Lab Report(s) and list specific representative Sample ID#s:

WO# E-0262213

2. Other information attached (such as SDS)? ☐ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to WM prior to providing the material to WM. I am aware that there are significant penalties for knowingly submitting false information.

- ☒ I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.
☐ I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are accurate and complete.

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

B. BILLING INFORMATION☐ SAME AS GENERATOR

1. Billing Name: CCIMW
2. Billing Address: 1810 Scherer Parkway
(City, State, ZIP) Saint Charles MO 63303
3. Contact Name: Charles Vosbrink
4. Email: charlie@ccistl.com
5. Phone: (636) 354-8014 6. Fax: _____
7. P.O. Number: _____
8. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card at Gate

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No
Code: _____
2. State Hazardous Waste? ☐ Yes ☒ No
Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No
5. Does the material contain benzene? ☐ Yes* ☒ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No
8. NRC, State-regulated, NORM or TENORM waste? ☐ Yes* ☒ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No
a. Regulated by 40 CFR 761? ☐ Yes ☐ No
b. Remediation under 40 CFR 761.61? ☐ Yes ☐ No
c. Were PCBs imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No
11. Contains Asbestos? ☐ Yes ☒ No
→ If Yes: ☐ Non-Friable ☐ Non-Friable - Regulated ☐ Friable
12. Contains Dioxins? (If Yes, please attach analysis) ☐ Yes ☒ No

F. SHIPPING AND DOT INFORMATION

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business
2. Estimated Annual Quantity/Unit of Measure: 1
☐ Tons ☐ Yards ☐ Drums ☐ Gallons ☒ Other Dumpster
3. Container Type and Size: _____
4. USDOT Proper Shipping Name ☒ N/A
5. Estimated Start Date _____
6. Transportation Needed? ☐ Yes* ☒ No

Name (Print): Charles Vosbrink
Title: Purchasing Manager
Company: CCIMW
Date: 12/10/2024

Certification Signature

Charles Vosbrink

833F485451...



**Profile Addendum: State of Illinois
GENERATOR'S NON-SPECIAL WASTE CERTIFICATION**

F. Additional Waste Stream Information

Profile Number: 940931IL

Generators Name: CCIMW

Generators SITE Address: 11821 IL-40 Dunlap IL 61525
(The location where the waste is generated)

Waste Name: Sandblast Grit

The Illinois Environmental Protection Act allows a Generator to certify that their pollution control waste or industrial process waste, is not an Illinois Special Waste (Section 3.45). By completing the following questionnaire, you may certify that the waste stream represented by the Waste Management Profile referenced above is not an Illinois Special Waste as defined in the Act.

Is the waste referenced above any of the following:

- | | | |
|--|------------------------------|--|
| 1. A Potentially Infectious Medical Waste (PIMW)? | ☐ Yes | ☒ No |
| 2. A Hazardous Waste as defined in 40 CFR 261 or in 35 IAC 722.111? | ☐ Yes | ☒ No |
| 3. A Liquid Waste (fails the paint filter test as defined in 35 IAC 811.107)? | ☐ Yes | ☒ No |
| 4. A regulated PCB waste as defined in 40 CFR 761? | ☐ Yes | ☒ No |
| 5. A NESHAP regulated asbestos waste other than waste from renovation or demolition? | ☐ Yes | ☒ No |
| 6. A waste resulting from the shredding recyclable metals (auto fluff)? | ☐ Yes | ☒ No |
| 7. A delisted Hazardous Waste or Treated Characteristic Hazardous Waste, subject to LDR requirements under 35 IAC 728.107? | ☐ Yes | ☒ No |

In determining that this waste is not a liquid, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☐ MSDS ☒ Analytical ☐ Other (explain below):

In determining that this waste is not RCRA hazardous, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☐ MSDS ☒ Analytical ☐ Other (explain below):

8. Is the waste represented by this profile sheet exempt from Illinois Solid Waste Management Act fee? ☐ Yes ☒ No

Select option: ☒ Pollution Control Waste ☐ Other

By signing below, I certify my waste is NOT an Illinois Special Waste, and that I understand that a person who knowingly and falsely certifies that a waste is not special waste is subject to the penalties set forth in subdivision (6) of subsection (h) of section 44 of the Illinois Environmental Protection Act.

Name: (Print) Charles Vosbrink Title: Purchasing Manager

Signature: Charles Vosbrink Date: 12/10/2024

Waste Profile 940931 IL - Lab data

CUSTOM COATINGS
1810 Scherer Parkway
St. Charles, MO 63303

December 5, 2024
WO# E-0262213
Page 3 of 3

Attention: Don Woolsey

REPORT OF ANALYSIS

SAMPLE ID: Peoria Exterior, Received 11/26/2024

SUBJECT: TCLP Metals Analysis

METHOD: SW-846 1311/3010/6010

UNITS: mg/L per TCLP

RESULTS:

Analyte	Peoria Exterior	Minimum Quantitative Limit	Maximum Allowable	Analysis Date
Arsenic	< 0.02	0.02	5.0	12/04/2024
Barium	1.52	0.01	100	12/04/2024
Cadmium	< 0.01	0.01	1.0	12/04/2024
Chromium	< 0.02	0.02	5.0	12/04/2024
Lead	0.11	0.02	5.0	12/04/2024
Mercury	< 0.01	0.01	0.2	12/04/2024
Selenium	0.14	0.03	1.0	12/04/2024
Silver	< 0.01	0.01	5.0	12/04/2024

Date of Extraction: 12/03/2024 – 12/04/2024

Final pH of Extraction: 5.00

Fluid #: 1

KSK/km



Kimberly Kostelac, Manager
Environmental Testing

IIA Lab Services – St. Louis, warrants that the testing services provided herein have been performed, findings obtained and reports prepared in accordance with generally accepted testing laboratory principles and practices, subject to generally accepted margins of error for the instruments used in performing the tests. No other warranties are either expressed or implied. No opinions, conclusions or warranties are rendered by IIA Lab Services – St. Louis as to fitness of the sample for any particular purpose other than compliance with the specific code standards to the extent that such code standards are specifically set forth on the front of this report.

These tests were conducted in accordance with the standards and procedures specified. The analysis and/or tests have been made and report prepared, based upon results from specific samples identified and supplied by the client or their representatives. IIA Lab Services – St. Louis assumes no responsibility for, nor makes any warranties for any extrapolation of data from the test results and relating such test results to any batch, lot or material from which IIA Lab Services – St. Louis had no control of sample acquisition.

This report is furnished in strict confidence for the exclusive use of the client or their representative, and no distribution of all or part of the report shall be made to third parties without the prior written approval of the company or individual ordering the work. Official reports will be provided only by IIA Lab Services – St. Louis and will contain a watermark to certify authenticity. Revision or modification of these reports by anyone other than IIA Lab Services – St. Louis is prohibited. A hard copy will be provided on request, for a fee.

If during or after the performance of these tests it is necessary for IIA Lab Services – St. Louis to recreate reports, assemble materials, gather additional information, or perform other work with regard to these test results to assist in the preparation for any investigation, civil proceeding, or criminal action, regardless of who makes such a request or issues a subpoena, client shall reimburse Laboratory for out of pocket expenses incurred in relation to such work. Client further agrees to compensate Laboratory at a rate of \$400.00 per hour for any such work which is required, including any time devoted to testifying in depositions, at hearings, or in court.

Only tests requested by the client are those that are set forth on the front of this report. There may be additional tests which could be performed on the sample but which client has not requested IIA Lab Services – St. Louis perform. Client releases and holds IIA Lab Services – St. Louis harmless for any damages which may have been discovered, avoided, or mitigated as a result of any additional testing not requested by client.

IIA Lab Services – St. Louis will dispose of samples 30 days after issuance of a formal report, unless specifically requested in writing by the client or their representative to return the samples to them. Samples may be stored at IIA Lab Services – St. Louis for an extended period of time, provided a written agreement incorporating monetary considerations is executed.

Requested Facility: **Peoria City - County Landfill**☐ Unsure Profile Number: **WM010289**☐ Multiple Generator Locations (Attach Locations) ☒ Request Certificate of Disposal ☒ Renewal? Original Profile Number: **WM010289****A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

- Generator Name: **Artco Fleeting Service**
- Generator Site Address: **#1 Sanger Street**
(City, State, ZIP) **Peoria IL 61602**
- County: **Peoria**
- Contact Name: **Amanda Brown**
- Email: **amanda.brown@adm.com**
- Phone: **(314) 481-8828** 7. Fax: _____
- Generator EPA ID: _____ ☒ N/A
- State ID: **1430655412** ☐ N/A

C. MATERIAL INFORMATION

- Common Name: **Barge Scrappings**
Describe Process(es) Generating Material: ☐ See Attached
Dry Sweeping of empty Hopper Barges that may have contained dry cargos such as fertilizer, grain, sand, gravel or other miscellaneous debris.
- Material Composition and Contaminants: ☒ See Attached

1. Dry fertilizer products	45 %
2. Corn and soybeans	20 %
3. Gravel	15 %
4. Miscellaneous Debris	10 %
Total comp. must be equal to or greater than 100%	≥100%
- State Waste Codes: _____ ☒ N/A
- Color: **Various**
- Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Other: _____
- Free Liquid Range Percentage: _____ to _____ ☒ N/A
- pH: **4** to **9** ☐ N/A
- Strong Odor: ☒ Yes ☐ No Describe: **ammonia smell**
- Flash Point: ☐ <140°F ☐ 140°-199°F ☒ ≥200° ☐ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- Analytical attached ☒ Yes
Please identify Lab Report(s) and list specific representative Sample ID#s:
Sample: HJ00692-01 - Report Dated 11/6/2024 Sample: HK02826-01 - Report Dated 11/21/2024
- Other information attached (such as SDS)? ☒ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to WM prior to providing the material to WM. I am aware that there are significant penalties for knowingly submitting false information.

- ☐ I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.
- ☒ I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are accurate and complete.

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE**B. BILLING INFORMATION**☒ SAME AS GENERATOR

- Billing Name: **Artco Fleeting Service**
- Billing Address: **#1 Sanger Street**
(City, State, ZIP) **Peoria IL 61602**
- Contact Name: **Amanda Brown**
- Email: **amanda.brown@adm.com**
- Phone: **(314) 481-8828** 6. Fax: _____
- P.O. Number: _____
- Payment Method: ☐ Credit Account ☐ Cash ☐ Credit Card at Gate

D. REGULATORY INFORMATION

- EPA Hazardous Waste? ☐ Yes* ☒ No
Code: _____
- State Hazardous Waste? ☐ Yes ☒ No
Code: _____
- Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No
- Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No
- Does the material contain benzene? ☐ Yes* ☒ No
- Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No
- CERCLA or State-mandated clean-up? ☐ Yes* ☒ No
- NRC, State-regulated, NORM or TENORM waste? ☐ Yes* ☒ No

***If Yes, see Addendum (page 2) for additional questions and space.**

- Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No
 - Regulated by 40 CFR 761? ☐ Yes ☐ No
 - Remediation under 40 CFR 761.61? ☐ Yes ☐ No
 - Were PCBs imported into the US? ☐ Yes ☐ No
- Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No
- Contains Asbestos? ☐ Yes ☒ No
→ If Yes: ☐ Non-Friable ☐ Non-Friable - Regulated ☐ Friable
- Contains Dioxins? (If Yes, please attach analysis) ☐ Yes ☒ No

F. SHIPPING AND DOT INFORMATION

- ☐ One-Time Event ☒ Repeat Event/Ongoing Business
- Estimated Annual Quantity/Unit of Measure: **350**
☒ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other _____
- Container Type and Size: **20- and 30-yard roll offs**
- USDOT Proper Shipping Name ☐ N/A
Barge Scrappings
- Estimated Start Date **11/15/2024**
- Transportation Needed? ☒ Yes* ☐ No

Name (Print): **Amanda Brown**
Title: **Area Enviromental Manager**
Company: **ARTCo**
Date: **11/25/2024**

Certification Signature*Amanda Brown*



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: WM010289

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1):

If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1):

If more space is needed, please attach additional pages.

5. Coal	5 %	
6. Sand	5 %	
7.		
8.		
9.		
Total composition must be equal to or greater than 100%		≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?

☐ Yes ☐ No

c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4.

☐ Yes ☐ No

d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?

☐ Yes ☐ No

→ If Yes, please check one of the following:

☐ Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))

☐ Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

e. Form Code:

f. Source Code:

2. State Hazardous Waste → Please list all state waste codes:

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:

☐ Delisted Hazardous Waste

☐ Excluded Waste under 40 CFR 261.4 → Specify Exclusion:

☐ Treated Hazardous Waste Debris

☐ Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. a. Are you an industry regulated under Benzene NESHAP? (Petroleum refineries, chemical manufacturing plants, coke by-product, and TSDFs.)

☐ Yes ☐ No

b. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.

☐ Yes ☐ No

c. What is the flow weighted average benzene concentration?

_____ ppmw

d. What is your facility's current total annual benzene quantity in Megagrams?

☐ <1 Mg ☐ 1–9.99 Mg ☐ ≥10 Mg

e. Is this waste soil from a remediation?

☐ Yes ☐ No

1. If yes, what is the benzene concentration in remediation waste?

_____ ppmw

f. Does the waste contain >10% water/moisture?

☐ Yes ☐ No

g. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?

☐ Yes ☐ No

h. Is material exempt from controls in accordance with 40 CFR 61.342?

☐ Yes ☐ No

→ If yes, specify exemption:

i. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?

☐ Yes ☐ No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination?

☐ Yes ☐ No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC, State-regulated radioactive, NORM or TENORM? →

a. Please select all that apply:

☐ Nuclear Regulatory Commission (NRC) Radioactive

☐ Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)

☐ State-Regulated Radioactive

☐ Naturally Occurring Radioactive Material

b. Testing, per individual waste stream, for applicable isotopes and/or other supporting information attached?

☐ Yes ☐ No



Additional Profile Information

Profile Number: WM010289

F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	☐ N/A
3.	☐ N/A
4.	☐ N/A
5.	☐ N/A
6.	☐ N/A
7.	☐ N/A
8.	☐ N/A
9.	☐ N/A
10.	☐ N/A
11.	☐ N/A
12.	☐ N/A
13.	☐ N/A
14.	☐ N/A
15.	☐ N/A
16.	☐ N/A
17.	☐ N/A
18.	☐ N/A
19.	☐ N/A
20.	☐ N/A
21.	☐ N/A
22.	☐ N/A
23.	☐ N/A
24.	☐ N/A
25.	☐ N/A
26.	☐ N/A
27.	☐ N/A
28.	☐ N/A
29.	☐ N/A
30.	☐ N/A
31.	☐ N/A
32.	☐ N/A
33.	☐ N/A
34.	☐ N/A
35.	☐ N/A
36.	☐ N/A
37.	☐ N/A
38.	☐ N/A
39.	☐ N/A
40.	☐ N/A

7. Transportation Requested: ☒ WM Hauled ☐ Third Party

8. Contact Name: Tim Archdale

9. Email: Timothy.Archdale@adm.com



**Profile Addendum: State of Illinois
GENERATOR'S NON-SPECIAL WASTE CERTIFICATION**

F. Additional Waste Stream Information

Profile Number: WM010289

Generators Name: Artco Fleeting Service

Generators SITE Address: #1 Sanger Street Peoria IL 61602
(The location where the waste is generated)

Waste Name: Barge Scrappings

The Illinois Environmental Protection Act allows a Generator to certify that their pollution control waste or industrial process waste, is not an Illinois Special Waste (Section 3.45). By completing the following questionnaire, you may certify that the waste stream represented by the Waste Management Profile referenced above is not an Illinois Special Waste as defined in the Act.

Is the waste referenced above any of the following:

- | | | |
|--|------------------------------|--|
| 1. A Potentially Infectious Medical Waste (PIMW)? | ☐ Yes | ☒ No |
| 2. A Hazardous Waste as defined in 40 CFR 261 or in 35 IAC 722.111? | ☐ Yes | ☒ No |
| 3. A Liquid Waste (fails the paint filter test as defined in 35 IAC 811.107)? | ☐ Yes | ☒ No |
| 4. A regulated PCB waste as defined in 40 CFR 761? | ☐ Yes | ☒ No |
| 5. A NESHAP regulated asbestos waste other than waste from renovation or demolition? | ☐ Yes | ☒ No |
| 6. A waste resulting from the shredding recyclable metals (auto fluff)? | ☐ Yes | ☒ No |
| 7. A delisted Hazardous Waste or Treated Characteristic Hazardous Waste, subject to LDR requirements under 35 IAC 728.107? | ☐ Yes | ☒ No |

In determining that this waste is not a liquid, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☒ MSDS ☒ Analytical ☐ Other (explain below):

In determining that this waste is not RCRA hazardous, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☒ MSDS ☒ Analytical ☐ Other (explain below):

8. Is the waste represented by this profile sheet exempt from Illinois Solid Waste Management Act fee? ☐ Yes ☒ No

Select option: ☐ Pollution Control Waste ☐ Other

By signing below, I certify my waste is NOT an Illinois Special Waste, and that I understand that a person who knowingly and falsely certifies that a waste is not special waste is subject to the penalties set forth in subdivision (6) of subsection (h) of section 44 of the Illinois Environmental Protection Act.

Name: (Print) Amanda Brown Title: Area Enviromental Manager

Signature: Amanda Brown Date: 11/25/2024

Waste Profile WM010289 - Lab
data and SDSs



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

November 06, 2024

Jeremy Potts
Artco Fleeting Service
534 Wesley Rd
Creve Coeur, IL 61610

RE: Artco Barge Sweepings

Dear Jeremy Potts:

Please find enclosed the analytical results for the **1** sample(s) the laboratory received on **10/2/24 3:30 pm** and logged in under work order **HJ00692**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in cursive script that reads 'Amy Holmes'.

Amy Holmes
Project Manager
(314) 595-7336
amy.holmes@pacelabs.com

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order HJ00692

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: HJ00692-01

Name: Artco Fleeting Barge Sweepings

Matrix: Solid - Composite

Sampled: 10/02/24 12:30

Received: 10/02/24 15:30

PO #: 600929955

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - STL									
Cyanide	< 0.457	mg/kg		10/14/24 13:21	1	0.457	10/15/24 13:59	MAS	SW 9010
Paint Filter	Fail			10/11/24 19:38	1	1.0	10/11/24 19:38	AAG	EPA 9095A
pH	4.09	pH Units		10/07/24 14:18	1		10/07/24 15:58	ALH	EPA 9045D
Flashpoint open	>200	°F		10/15/24 11:45	1	60	10/15/24 16:13	MAS	ASTM D92*
Phenolics	< 5.0	mg/kg wet		10/16/24 19:01	1	5.0	10/17/24 13:09	RSB	EPA 9065
Sulfide	171	mg/kg		10/14/24 13:23	9.71251	97.1	10/15/24 14:12	MAS	EPA 9034*
Herbicides - TCLP - STL									
2,4-D	< 0.0500	mg/L		10/08/24 14:45	1	0.0500	10/10/24 07:36	SCI	SW 8321B
Silvex	< 0.0500	mg/L		10/08/24 14:45	1	0.0500	10/10/24 07:36	SCI	SW 8321B
Pesticides - TCLP - STL									
gamma-BHC (Lindane)	< 5.00E-5	mg/L	U	10/07/24 13:30	1	0.0100	10/08/24 12:30	NHL	EPA 8081A
Chlordane (technical)	< 0.000500	mg/L	U	10/07/24 13:30	1	0.0100	10/08/24 12:30	NHL	EPA 8081A
Endrin	< 5.00E-5	mg/L	U	10/07/24 13:30	1	0.0100	10/08/24 12:30	NHL	EPA 8081A
Heptachlor	< 5.00E-5	mg/L	U	10/07/24 13:30	1	0.00500	10/08/24 12:30	NHL	EPA 8081A
Heptachlor epoxide	< 5.00E-5	mg/L	U	10/07/24 13:30	1	0.00500	10/08/24 12:30	NHL	EPA 8081A
Methoxychlor	< 5.00E-5	mg/L	U	10/07/24 13:30	1	0.0100	10/08/24 12:30	NHL	EPA 8081A
Toxaphene	< 0.000500	mg/L	U	10/07/24 13:30	1	0.0200	10/08/24 12:30	NHL	EPA 8081A
Polychlorinated Biphenyls (PCBs) - STL									
Aroclor 1016	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1221	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1232	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1242	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1248	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1254	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1260	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Aroclor 1262	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082*
Aroclor 1268	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082*
Aroclors - Total	< 0.1	mg/kg wet		10/04/24 11:40	1	0.1	10/08/24 22:05	NHL	EPA 8082
Semivolatile Organics - TCLP - STL									
1,4-Dichlorobenzene	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
2,4-Dinitrotoluene	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C



ANALYTICAL RESULTS

Sample: HJ00692-01

Name: Artco Fleeting Barge Sweepings

Matrix: Solid - Composite

Sampled: 10/02/24 12:30

Received: 10/02/24 15:30

PO #: 600929955

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Hexachlorobenzene	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
Hexachlorobutadiene	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
Hexachloroethane	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
2-Methylphenol	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
3- & 4-Methylphenol	< 0.0400	mg/L		10/07/24 11:45	1	0.0400	10/07/24 23:10	EMR	EPA 8270C
Nitrobenzene	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
Pentachlorophenol	< 0.100	mg/L		10/07/24 11:45	1	0.100	10/07/24 23:10	EMR	EPA 8270C
Pyridine	< 0.100	mg/L		10/07/24 11:45	1	0.100	10/07/24 23:10	EMR	EPA 8270C
2,4,5-Trichlorophenol	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C
2,4,6-Trichlorophenol	< 0.0200	mg/L		10/07/24 11:45	1	0.0200	10/07/24 23:10	EMR	EPA 8270C

TCLP Metals - STL

Mercury	< 0.0002	mg/L		10/04/24 13:16	1	0.0002	10/07/24 11:37	RPB	SW 7470
TCLP 1311 Extraction	0.0			10/03/24 15:30	1		10/04/24 11:17	TWH	SW 1311*
Arsenic	< 0.500	mg/L		10/04/24 11:24	1	0.500	10/04/24 15:10	BCH	EPA 6010B
Barium	< 0.700	mg/L		10/04/24 11:24	1	0.700	10/04/24 15:10	BCH	EPA 6010B
Cadmium	< 0.0500	mg/L		10/04/24 11:24	1	0.0500	10/04/24 15:10	BCH	EPA 6010B
Chromium	< 0.0500	mg/L		10/04/24 11:24	1	0.0500	10/04/24 15:10	BCH	EPA 6010B
Lead	< 0.400	mg/L		10/04/24 11:24	1	0.400	10/04/24 15:10	BCH	EPA 6010B
Selenium	< 0.400	mg/L		10/04/24 11:24	1	0.400	10/04/24 15:10	BCH	EPA 6010B
Silver	< 0.0500	mg/L		10/04/24 11:24	1	0.0500	10/04/24 15:10	BCH	EPA 6010B

Volatile Organics - TCLP - STL

1,1-Dichloroethene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
1,2-Dichloroethane	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
1,4-Dichlorobenzene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
2-Butanone	< 1.0	mg/L		10/07/24 09:00	10	1.0	10/07/24 18:17	CLH	EPA 8260B
Benzene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Carbon tetrachloride	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Chlorobenzene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Chloroform	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Tetrachloroethene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Trichloroethene	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B
Vinyl chloride	< 0.05	mg/L		10/07/24 09:00	10	0.05	10/07/24 18:17	CLH	EPA 8260B

ANALYTICAL RESULTS



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

ANALYTICAL RESULTS

Sample: HJ00692-01

Name: Artco Fleeting Barge Sweepings

Matrix: Solid - Composite

Sampled: 10/02/24 12:30

Received: 10/02/24 15:30

PO #: 600929955

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Precision Petroleum Labs, Inc

Halide-extractable organic
(EOX)

See
Attached
Report

1

Subcontracted



NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

U Parameter was analyzed for, but not detected above the reporting limit.



Certified by: Jennifer L. Solomon For Amy Holmes, Project Manager

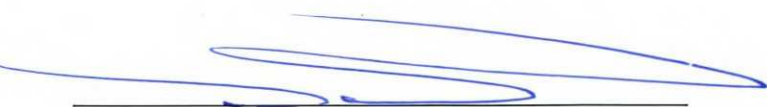
PRECISION PETROLEUM LABS, INC.

CERTIFICATE OF ANALYSIS

LABORATORY ADDRESS 5915 Star Lane, Houston, TX 77057 Ph. 713-680-9425 Fax: 713-680-9564 Website: precisionlabs.org	Client Name: Pace Analytical Services, LLC Street Address: 944 Anglum Road City, State, Zip: Hazelwood, MO 63042
--	---

INVOICE No.:	104545	DATE/TIME COLLECTED:	10/02/2024 @12:30
LAB REFERENCE No.:	2024-10-409	MATRIX TYPE:	Solid
AUTHORIZED BY:	Amy Holmes	SAMPLE TYPE:	Bulk
PRODUCT ID:	HJ00692-01 (Artco Fleeting Barge Sweepings)		
DATE RECEIVED:	10/17/2024		

<u>PARAMETER</u>	<u>TEST METHOD</u>	<u>REPORTING LIMIT</u>	<u>TEST RESULTS</u>
Extractable Organic Halides, PPM	S.W. 9023	1.0	35.0


Daniel Zabihi
QA Manager

Date: 10/22/2024



PRIMARY ACCREDITATION TCEQ, #T104704203-23-17
ARIZONA LICENSE # AZ0630

QUALIFIERS & ABBREVIATIONS: BRL - Below Reporting Limit; SCL - Test performed by an approved subcontract laboratory; B - Analyte was detected in the associated method blank; Matrix spike/matrix spike duplicate (M), Laboratory control sample (L), Calibration criteria (C), and Surrogate (S) recoveries were outside acceptance limits. Test deviation applied to Method 8260 (VOCS). Sample date analyzed for each test is available upon request. *Not on laboratory's field of accreditation.

COMMENTS: This certificate is Confidential Business Information and will only be provided to designated customer point-of-contact(s). Other production of this report requires prior authorization from the customer. There were no quality assurance anomalies associated with these tests.

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT. RESULTS ARE REPORTED ON AN "AS IS" BASIS, UNLESS OTHERWISE NOTED. THE TEST RESULTS RELATE ONLY TO THE SUBMITTED SAMPLE IDENTIFIED ON THIS REPORT. TEST RESULTS MEET ALL REQUIREMENTS OF NELAP FOR TESTS LISTED ON THE LABORATORY'S CURRENT FIELDS OF ACCREDITATION (EPA 1010, 6010, 8082, 8260, and 9075)

SUBCONTRACT ORDER

Transfer Chain of Custody

Pace Analytical Services, LLC

HJ00692

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

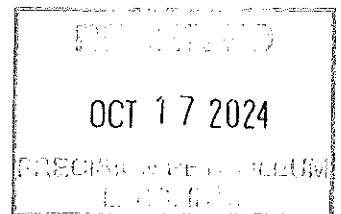
Precision Petroleum Labs, Inc
5915 Star Lane
Houston, TX 77057
(713) 680-9425

Sample: HJ00692-01
Name: Artco Fleeting Barge Sweepings

Sampled: 10/02/24 12:30
Matrix: Solid
Preservative: Cool <6

Analysis	Due	Expires	Comments
01-EOX	10/15/24 16:00	03/31/25 12:30	

bulk
solid
9:03am
JS



Please email results to Amy Holmes at amy.holmes@pacelabs.com

Date Shipped: _____ Total # of Containers: 1 Sample Origin (State): _____ PO #: _____

Turn-Around Time Requested ☐ NORMAL ☐ RUSH

Date Results Needed: _____

Relinquished By

Date/Time

Received By

Date/Time

Sample Temperature Upon Receipt _____ °C

Sample(s) Received on Ice Y or N

Proper Bottles Received in Good Condition Y or N

Bottles Filled with Adequate Volume Y or N

Samples Received Within Hold Time Y or N

Date/Time Taken From Sample Bottle Y or N

Relinquished By

Date/Time

Received By

Date/Time



Page[®] Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

[illegible]

Chain of Custody Instructions

***Pace Location Requested:** City and State of Pace Laboratory testing is to be performed at.

***Company Name:** Client's company name

***Street Address:** Client's mailing address

***City, State, Zip:** Client's city, state and zip code for mailing

***Contact/ Report to:** Person to receive results

***Customer Project # and Project Name:** Client's reference to the project or work involved with these samples.

Site Collection Info/ Facility ID: Client's location of project

Time Zone: Check time zone of sample to ensure proper hold times are met.

Purchase Order #: Client specific number to be listed on project invoice for client billing purposes.

Invoice To: Client contact the project invoice needs to be emailed to.

Invoice Email: Email address that project invoice will need to be emailed to

***Phone #:** Client's contact phone number

E-mail: Client's e-mail for correspondence and final report

Regulatory Program: List the program that is guiding the work to ensure proper regulations are followed: DW, RCRA, etc.

Data Deliverable: Please select or enter required deliverables.

***County/State Origin of Samples:** Enter the county to ensure proper handling of regulated soils. State required to ensure proper reporting.

Field Filtered: Indicate if samples have been filtered in the field. If samples are required to be field filtered and filtering is not indicated, a qualifier will be added to all associated data.

***Customer Sample ID:** The unique sample ID you want to appear on the analytical report

***Collected Date:** Date sample was collected. For composite samples, please fill in both beginning and end date.

***Collected Time:** Time sample was collected. For composite samples, please fill in both beginning and end time.

***Comp/Grab:** Please denote "GRAB" if the sample was collected at one time from one specific location. Please denote "COMP" if the sample is a composite of samples collected at one or more times or locations and combined to make one sample.

***Matrix:** Select from list provided list. If prepopulated chain is provided for you matrix codes may vary.

***Number and Type of Containers:** Total number of containers per container type submitted for the samples

***Container Size:** Specify container size from list.

***Container Preservation Type:** Specify sample preservation from provided list.

***Analysis Requested:** Write the analysis name (or an abbreviation), the name of a group of tests, or the method number you would like us to perform. Examples are BOD, TCLP Metals, PCBs, Method 624, etc. Place a check mark in the small boxes that correspond to the sample(s) on which you want these tests performed.

Sample Comment: List any notes or important information about the individual sample here. Please identify in the sample comment if a sample should be used for MS/MSD.

Customer Remarks/Special Conditions/Possible Hazards: List special instructions about the sample here. If the sample is known or suspected to be hazardous indicate that here and attach SDS if possible. This space can also be used for listing additional analyses, or to request an extra copy of the report to be sent to an alternate person/address, etc.

Rush request: If faster than standard turnaround time results are needed. Circle one of the rush options and note the day the results are requested by. All rush requests require preapproval by the laboratory. Surcharges will apply for non- standard turnaround times. Results will be due by the end of business on the date due based on standard turnaround time unless other arrangements have been made with your Project Manager.

Summarized Sample Acceptance Policy Requirements:

- Proper, full and completed chain-of-custody documentation
- Readable unique sample container identification written in indelible ink
- Appropriate sample container
- Sufficient sample volume to perform requested tests
- Received within required holding time
- Received within temperature preservation requirements
- Sample containers received in good condition (not leaking or broken)
- Any custody seal intact
- Properly preserved
- No headspace in volatile water samples
- **Note:** When sample specific Quality Control is required (e.g. MS/MSD) please ensure necessary sample containers and sample volume is provided.

A data qualifier and/or case narrative will be added to the final test report when the above sample acceptance requirements are not met.

Location Specific Sample Acceptance Policy available from your Project Manager

***Collected By:** Printed name of sample collector

***Collected By Signature:** Signature of sample collector

***Relinquished By/Received By:** This form must be signed each time the sample(s) changes hands. Custody seals are available upon request if needed.

***Required field:** Failure to fill in a required field may result in a sample(s) being put on hold until information can be obtained. This may result in a delay in receiving results.

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
HJ00692

2-22

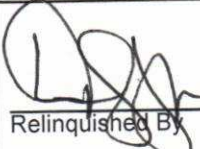
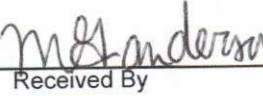
IR Gun # B8 Correction Factor (Deg C) 0.3
Observed Temp (Deg C) 2.3 Corrected Temp (Deg C) 2.6

Delivery Method: FedEx UPS Walk-in USPS other

Please email results to Amy Holmes at amy.holmes@pacelabs.com

Date Shipped: 10/3/24 Total # of Containers: 5 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

	<u>10/3/24</u>	<u>0615</u>		<u>10-3-24</u>	720	Sample Temperature Upon Receipt	_____ °C
Relinquished By	Date/Time		Received By	Date/Time		Sample(s) Received on Ice	Y or N
						Proper Bottles Received in Good Condition	Y or N
					1100	Bottles Filled with Adequate Volume	Y or N
	<u>10-3-24</u>			<u>10-3-24</u>		Samples Received Within Hold Time	Y or N
Relinquished By	Date/Time		Received By	Date/Time		Date/Time Taken From Sample Bottle	Y or N

SUBCONTRACT ORDER**Transfer Chain of Custody****Pace Analytical Services, LLC****HJ00692****SENDING LABORATORY**

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical Services, LLC - Hazelwood
944 Anglum Road
Hazelwood, MO 63042
(314) 432-0550

Sample: HJ00692-01**Name: Artco Fleeting Barge Sweepings****Sampled: 10/02/24 12:30****Matrix: Solid****Preservative: Cool <6**

Analysis	Due	Expires	Comments
02-CN-R as T	10/15/24 16:00	10/16/24 12:30	
02-EOX	10/15/24 16:00	10/30/24 12:30	
02-S2-R AS T	10/15/24 16:00	10/16/24 12:30	
04-Ag 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-As 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-Ba 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-Cd 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-Cr 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-Flashpoint O-C	10/15/24 16:00	10/30/24 12:30	
04-Hg TCLP	10/14/24 16:00	10/30/24 12:30	
04-M8082	10/15/24 16:00	10/16/24 12:30	
04-M8260 TCLP	10/15/24 16:00	10/16/24 12:30	
04-Paint Filt	10/15/24 16:00	03/31/25 12:30	
04-Pb 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-pH	10/15/24 16:00	10/09/24 12:30	
04-Phenols	10/15/24 16:00	10/30/24 12:30	
04-Se 6010 TCLP	10/14/24 16:00	03/31/25 12:30	
04-SW TCLP 1311	10/15/24 16:00	10/30/24 12:30	
04-TCLP_ZHE	10/15/24 16:00	10/16/24 12:30	
06-M8081 TCLP	10/15/24 16:00	10/16/24 12:30	
06-M8270 TCLP	10/15/24 16:00	10/09/24 12:30	
06-M8321 TCLP Herbicides	10/15/24 16:00	10/09/24 12:30	
06-SW 1311 - TCLP Organics	10/15/24 16:00	10/16/24 12:30	
Solids-TS	10/15/24 16:00	10/09/24 12:30	cancel



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

November 21, 2024

Jeremy Potts
Artco Fleeting Service
534 Wesley Rd
Creve Coeur, IL 61610

RE: Artco Barge Sweepings

Dear Jeremy Potts:

Please find enclosed the analytical results for the **1** sample(s) the laboratory received on **11/15/24 9:12 am** and logged in under work order **HK02826**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in cursive script that reads 'Amy Holmes'.

Amy Holmes
Project Manager
(314) 595-7336
amy.holmes@pacelabs.com

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order HK02826

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

ANALYTICAL RESULTS

Sample: HK02826-01

Name: Artco Fleeting Barge Sweepings

Matrix: Solid - Composite

Sampled: 11/15/24 08:30

Received: 11/15/24 09:12

PO #: 600963674

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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General Chemistry - PIA

Paint Filter	Pass			11/21/24 09:42	1	1.0	11/21/24 09:42	TTH	EPA 9095A
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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Jennifer L. Solomon For Amy Holmes, Project Manager

Pace

Company Name: ARTCO Fleetling Services
Street Address:
534 Wesley Road, Creve Coeur, IL 61610

Contact/Report To: Keagan Schmidt
Phone #: (309) 894-5091
E-Mail: keagan.schmidt@adm.com and Alex.Morgan@adm.com
Cc E-Mail: Amanda Brown@adm.com

Invoice to:
Invoice E-mail:
Purchase Order # (if applicable): PO 600963674
Quote #:

Customer Project #:
Project Name:
ARTCo Barge Sweeping
Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET
Data Deliverables:
[X] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Rush (Pre-approval required):
[] 2 Day [] 3 day [] 5 day [] Other
Date Results Requested: 11/15/2024

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (O), Waste (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Chain-of-Custody Analytical Request Document

LAB USE ONLY - Affix Workorder/Label Here

Scan QR Code for Instructions

Specimen Container Size **

Identify Container Preservative Type ***

Analysis Requested

Preservation non-conformance identified for sample

Proj Mgr:

AccNum / Client ID:

Table #:

Profile / Template:

Prelog / Bottle Ord. ID:

Sample Comment

Lab Use Only

IR Gun #

Correction Factor Deg C

Observed Temp Deg C

Corrected Temp Deg C

Delivery Method: FedEx UPS Mail-in UPS Other

Additional Instructions from Pace*

Coolers: Thermometer ID: Correction Factor (°C) Obs. Temp (°C) Corrected Temp (°C)

Tracking Number:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Delivered by: [] In-Person [] Courier
[] FedEx [] UPS [] Other

Page: of

ENV-FRM-CORQ-0019 v01 08/21/23 ©

ENV-FRM-PEOR-0098 v02_Sample Condition Upon Receipt



Client Name:

Work Order #:

Completed by Initials/Date:

Sample Intake Notes:

Custody Seal Present on Package(s)	Yes ☒ No ☒		
If yes, was seal intact	Yes ☒ No ☒		
Samples received within temperature compliance	Yes ☒ No ☒ N/A ☒		
Was Project Manager contacted if samples were received out of temperature compliance	Yes ☒ No ☒		
Chain of Custody Present	Yes ☒ No ☒		
Current PACE CoC Submitted	Yes ☒ No ☒		
Rush Turn Around Time Requested	Yes ☒ No ☒		
CoC is Legible	Yes ☒ No ☒		
Sampler Name Present	Yes ☒ No ☒		
Sampler Signature Present	Yes ☒ No ☒		
USDA Regulated Soil	Yes ☒ N/A ☒		
Country of Origin	Yes ☒ No ☒		
State of Origin			
Unique Sample ID's Present on CoC (If not, Note Container ID's & Contact Project Manager)	Yes ☒ No ☒		
Container(s) Received Intact (If not, Note & Contact Project Manager)	Yes ☒ No ☒		
Containers Received Labeled	Yes ☒ No ☒		
Container Labels are Legible	Yes ☒ No ☒		
Sample Collection Date Present on CoC	Yes ☒ No ☒		
Sample Collection Time Present on CoC	Yes ☒ No ☒		
CoC Relinquished by Client	Yes ☒ No ☒		
CoC and Sample Container Labels Match	Yes ☒ No ☒		
Appropriate Bottles	Yes ☒ No ☒		
Sufficient Sample Volume	Yes ☒ No ☒		
Zero Headspace (<6 mm or no bubbles) present in VOA vials (If headspace is present, note sample ID and # of vials)	Yes ☒ No ☒ N/A ☒		
Trip Blank(s) Received	Yes ☒ No ☒ N/A ☒		
If present, are they Listed on CoC	Yes ☒ No ☒		
All (Non-Field) Analysis Received Within Hold Times	Yes ☒ No ☒		
Short Hold Time Analysis Requested (48 Hours or Less)	Yes ☒ No ☒		
Case Narrative Needed	Yes ☒ No ☒		

Client Notification/Resolution:

If checked, please see attached form for additional comments ☐

Person Contacted:

Date/Time:

Comments/Resolution:

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name	Manganese Sulphate 32% Monohydrate Fert Powder
CHEMICAL FORMULA:	MnSO ₄ · H ₂ O
MOLECULAR WEIGHT:	169.01
CAS NO.:	10034-96-5

Recommended use of the chemical and restrictions on use

Recommended Use	Animal feed additive.
Uses advised against	Not for human consumption

Details of the supplier of the safety data sheet

Supplier	Pestell Nutrition
Address	141 Hamilton Rd New Hamburg, Ontario Canada, N3A 2H1
Phone	519-662-2877
Email	qa@pestell.com
Emergency telephone number (24 hr)	Canada: CANUTEC 1 613-996-6666 US: CHEMTREC 1 703-527-3887

2. HAZARDS IDENTIFICATION

WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects Chronic toxicity

GHS Classification

Specific target organ toxicity - repeated exposure (Category 2)

Signal word WARNING



Hazard Statements

H373 May cause damage to organs through prolonged or repeated exposure.

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

No information available

HMIS Classification

Health hazard: 0

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Substance

Chemical Name	CAS No	Weight-%
Manganese sulfate monohydrate	10034-96-5	96 - 100

4. FIRST AID MEASURES**Description of first aid measures**

General advice	Remove contaminated clothing and shoes. If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact	Wash with soap and water. If skin irritation persists, call a physician.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors
Oxides of sulfur , manganese oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas
Ensure adequate ventilation, especially in confined areas
Use personal protective equipment as required
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid creating dust

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so
Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice
Ensure adequate ventilation, especially in confined areas
Avoid generation of dust
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid contact with skin, eyes or clothing
Wash thoroughly after handling
Use personal protection recommended in Section 8
Take precautionary measures against static discharges
Do not eat, drink or smoke when using this product

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameter

Components	CAS-No.	Value	Control parameters	Basis
Manganese Sulfate Monohydrate	10034-96-5	TWA	0.200000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks				
		TWAEV	5.000000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	0.200000 mg/m ³	Canada. British Columbia OEL

Adverse reproductive effect

Specific engineering controls

Showers
Eyewash stations
Ventilation systems

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid, powder
Color	White to cream
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	700°C
Boiling point / boiling range	850°C
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not determined
Vapor Pressure	Not applicable
Vapor density	Not determined
Density	2.95 g/m ³
Water solubility	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Explosive properties	Not an explosive
Oxidizing properties	No oxidizing properties

Other information

No information available

10. STABILITY AND REACTIVITY**Reactivity**

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

None known based on information supplied

Hazardous Decomposition Products

None under normal use conditions

Thermal decomposition can lead to release of irritating and toxic gases and vapors

Oxides of sulfur

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation	No known effect based on information supplied
Eye contact	Dust contact with the eyes can lead to mechanical irritation
Skin Contact	No known effect based on information supplied
Ingestion	No known effect based on information supplied

Information on toxicological effects**Acute toxicity**

No information available

Skin corrosion/irritation

Non-irritating to the skin

Serious eye damage/eye irritation

No eye irritation

Sensitization

No sensitization responses were observed

Germ cell mutagenicity

No data available.

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified

Potential health effects**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Additional Information

RTECS: OP0893500

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

14. TRANSPORT INFORMATION**TDG (Canada)**

Not Regulated as Dangerous Goods

DOT (US)

Not Regulated as Dangerous Goods

IMDG

Not Regulated as Dangerous Goods

IATA

Not Regulated as Dangerous Goods

15. REGULATORY INFORMATION

International Inventories

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
Manganese sulfate monohydrate 10034-96-5 (98 - 100)	X	-	-	X	X	-	X	-

"-" Not Listed

"X" Listed

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pestell Nutrition and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: 3

Revision date: June 23, 2021



SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION	
Trade Name:	MAP - Monoammonium Phosphate	
Chemical Name:	Monobasic Ammonium Phosphate	
CAS Number:	7722-76-1	
Chemical Family:	Ammonium Phosphates—Inorganic Salt	
Synonyms:	Monobasic Ammonium Phosphate Ammonium Dihydrogen Phosphate Ammonium Phosphate Monobasic Granular MAP (GMAP) Fertilizer Grade Ammonium Phosphate MAP 10 - 50 - 0 MAP 11 - 50 - 0 MAP 11 - 51 - 0 MAP 11 - 52 - 0	
Primary Use:	Crop nutrient	
Company Information:	Corporate Headquarters	The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602
	US Guarantor	Mosaic Global Sales, LLC 13830 Circa Crossing Drive Lithia, FL 33547
	Canada Guarantor	Mosaic Canada Crop Nutrition, LP 1700 – 2010 12th Ave. Regina, SK Canada S4P 0M3
	Contact Info	www.mosaicco.com (800) 918-8270 or (813) 775-4200
Emergency Telephone:	EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: <u>For Chemical Emergencies:</u> Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300 (reference CCN201871) Others: (703) 527-3887 (collect)	

SECTION 2		HAZARD IDENTIFICATION	
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
GHS Classification:	Skin Irritant Category 2 Eye Irritant Category 2B	Hazard Statement H315 Hazard Statement H320	
	Signal Word: WARNING Hazard Statement(s) H315: Causes skin irritation H320: Causes eye irritation		



Label Elements:		
Prevention:	P264: Wash hands thoroughly after handling. P280: Wear protective gloves	
Response:	P302+ P352	IF ON SKIN: Wash with plenty of water.
	P321	Specific Treatment, see supplemental first aid information.
	P332+ P313	If skin irritation occurs: Get medical advice/attention.
	P362+ P364	Take off contaminated clothing and wash it before reused.
	P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+ P317	If eye irritation persists: Get medical help.
Storage:	Not applicable	Not applicable
Disposal:	P501	Disposal of content/containers to be in accordance with local/regional/national regulations.

SECTION 3	COMPOSITION INFORMATION ON INGREDIENTS		
Formula:	$(\text{NH}_4)\text{H}_2\text{PO}_4$		
Composition:	Monobasic Ammonium Phosphate Ammonium Sulfate	CAS 7722-76-1 CAS 7783-20-2	70-90% 5.5-7.5%

SECTION 4	FIRST AID MEASURES	
First Aid Procedures:	Eyes:	Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention.
	Skin:	Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention.
	Inhaled:	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.
	Ingestion:	If large amounts are swallowed, seek emergency medical attention. If possible, do not leave victim unattended and observe closely for adequacy of breathing.
Note to Physician:	If person has been exposed to concentrated decomposition products, treat symptomatically and watch for delayed symptoms of pulmonary edema.	

SECTION 5	FIRE FIGHTING MEASURES
Extinguishing Media:	Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment. Small fires: Water spray, foam, dry chemical or CO ₂ Large fires: Water spray, fog or foam
Protection of Firefighters:	Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials.



SECTION 6	ACCIDENTAL RELEASE MEASURES
Response Techniques:	Stay upwind and away from spill (dust hazard). Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies as may be required (see Section 15). Minimize dust generation. Sweep up and package appropriately for disposal.

SECTION 7	HANDLING AND STORAGE
Handling:	The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use good personal hygiene practices.
Storage:	Use and store this material in dry, well-ventilated areas. Store only in approved containers. Keep container(s) tightly closed. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Material may absorb moisture from the air.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls:	Use process enclosure, general dilution ventilation or local exhaust systems where necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations.	
Personal Protective Equipment (PPE):	Eye/Face:	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended.
	Skin:	The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.
	Respiratory:	A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator.
	Other:	A source of clean water should be available in the work area for flushing eyes and skin.
General Hygiene Considerations:	Wash thoroughly after handling Use adequate ventilation	
Exposure Guidelines:	OSHA Permissible Exposure Limits (PEL):	Particulates Not Otherwise Regulated: 5 mg/m ³ TWA (respirable); 15 mg/m ³ TWA (total) Ammonia: 50 ppm (35 mg/m ³) TWA



	ACGIH Threshold Limit Value (TLV):	Particulates Not Otherwise Specified: 3 mg/m ³ TWA (respirable); 10 mg/m ³ TWA (inhalable) Ammonia: 25 ppm (18 mg/m ³) TWA; 35 ppm (27 mg/m ³) STEL
--	------------------------------------	--

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES		
Note: Unless otherwise stated, values in this section are determined at 20°C (68°F) and 760 mm Hg (1 atm).			
Appearance:	Gray, tan, brown or black granules	Vapor Pressure (mm Hg):	Not applicable
Odor:	Slight ammonia odor	Vapor Density (air=1):	Not applicable
Odor Threshold:	No data available	Specific Gravity or Relative Density:	Not applicable
Physical state:	Solid	Bulk Density:	Loose 54 - 60 lbs/ft ³ (865 - 960 kg/m ³)
pH:	4.2 – 5.2 in a 1% solution	Solubility in Water:	80% - 95%
Melting Point/ Freezing Point:	Not applicable	Partition coefficient:	No data available
Boiling Point:	Not applicable	Auto-Ignition Temperature:	Not applicable
Flash Point:	Not applicable	Decomposition Temperature:	374°F (190°C)
Evaporation Rate:	No data available	Viscosity:	No data available
Flammability:	Not applicable	Volatility:	Not applicable
Upper/Lower Flammability or explosive limits	Not applicable		

SECTION 10	STABILITY AND REACTIVITY
Chemical Stability:	Stable under normal conditions of storage and handling. Decomposes at 374°F (190°C).
Conditions to Avoid:	Extreme temperatures
Incompatible Materials:	Avoid contact with alkaline materials
Hazardous Decomposition Products:	If heated to the point of decomposition, oxides of phosphorus, oxides of nitrogen and ammonia (NH3) may be released.
Corrosiveness:	May be corrosive to iron and mild steels, aluminum, zinc and copper
Hazardous Polymerization:	Will not occur

SECTION 11	TOXICOLOGICAL INFORMATION		
Substance:	Monoammonium Phosphate		
Acute Oral Toxicity:	LD ₅₀ (rat, oral) > 2000 mg/kg		
Acute Inhalation Toxicity:	No data available		
Acute Dermal Toxicity:	LD ₅₀ (rat, dermal) > 5000 mg/kg		
Mutagenesis:	No data available	Target Organ	STOT SE Cat 3; may cause respiratory irritation.



Developmental Toxicity:	No data available	Carcinogenicity	The ingredients of this product are not classified as carcinogenic by NTP (National Toxicology Program), IARC, or OSHA
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SECTION 12	ECOLOGICAL INFORMATION
Ecotoxicology:	May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC ₅₀ , OECD Guidelines 203 (rainbow trout): >86mg/L.

SECTION 13	DISPOSAL CONSIDERATIONS
	Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

SECTION 14	TRANSPORT INFO
Regulatory Status:	Not regulated
Identification Number:	HTS 3105.40.0010
Hazard Class:	Not applicable
Proper Shipping Name	Not applicable
Packing Group	Not applicable
DOT Emergency Response Guide Number:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable
MARPOL Annex V:	Non-HME
IMO/IMDG:	Not applicable

SECTION 15	REGULATORY INFORMATION				
CERCLA:	Not listed				
RCRA 261.33:	Not listed				
SARA Title III: (Exemptions at 40 CFR, Part 370 may apply for agricultural use, or for quantities of less than 10,000 pounds on-site.)	Section 302/304: Not listed		RQ: No		TPQ: No
	Section 311/312:				
	Acute: Yes	Chronic: No	Fire: No	Pressure: No	Reactivity: No
	Section 313: Not listed				



NTP, IARC, OSHA:	This material has not been identified as a carcinogen by NTP, IARC, or OSHA.
Canada DSL and NDSL:	DSL: Yes NDSL: Not listed
TSCA:	Listed on the TSCA Inventory
CA Proposition 65: (Health & Safety Code Section 25249.5)	 WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov
WHMIS:	WHMIS 2015 This SDS has been prepared according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.
REACH Registration:	#01-2119488166-29-0091

SECTION 16	OTHER INFORMATION
Disclaimer:	The information in this document is believed to be correct as of the date issued. HOWEVER, MOSAIC MAKES NO GUARANTEE, REPRESENTATION, OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO THE USE OF THIS PRODUCT. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application and assumes the risk of use thereof. The conditions and use of this product are beyond the control of Mosaic, and Mosaic disclaims any liability for loss or damage incurred in connection with the use or misuse of this product. Each user should review the recommended industrial hygiene and safe handling procedures in the specific context of the intended use and determine whether they are appropriate.
Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.
Revision Date:	November 3, 2022
Sections Revised:	1, 2, 3
SDS Number:	MOS 100024
References:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 th Edition 2011 OSHA Hazard Communication Standard, 2012 MARPOL Annex V; The Fertilizer Institute (TFI), 2003; TOXNET



Other Hazard Classifications:	NFPA HAZARD CLASS		HMIS HAZARD CLASS	
	Health:	1	Health:	1
	Flammability:	0	Flammability:	0
	Instability:	0	Physical Hazard:	0
	Special Hazard:	None	PPE:	Section 8
	WHMIS 2015 (HPR) HAZARD CLASS			
	Signal Word	Warning		
	Symbol			
	Classification	Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3		
	Hazard Statements	H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: May cause respiratory irritation		

Mulch

SECTION 1 – IDENTIFICATION

Product Name: AT Canada Red Mulch 2 cu ft, AT Cedar Bark Mulch 2 cu ft and 1.5 cuft

Recommended Use: Mulch for groundcover or for use as a soil amendment.

Supplier Information: All Treat Farms Limited
7963 Wellington Rd. 109
Arthur, ON. N0G 1A0

TEL: 519-848-3145

SECTION 2 – HAZARD IDENTIFICATION

Hazard Classification: Based on available information, this material is not classified as hazardous according to Canadian Hazardous Products Regulations or GHS Hazard Classification and Labelling System.

Labeling:

Pictograms: None.

Signal Word: None.

Hazard Statements: None.

Precautionary Statements: Read carefully and follow all instructions.

Other Hazards:

Particulates may cause eye irritation by mechanical abrasion.

Contact with composted wood bark may cause an allergy in sensitive individuals.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Mulch is created from either hardwood or softwood bark and/or wood and is used within the horticultural industry for ground cover or for use as a soil amendment.

Not classified as a hazardous substance according to the Canadian Hazardous Products Regulations or GHS Hazard Classification and Labelling System.



SECTION 4 – FIRST-AID MEASURES

Inhalation:	Remove person to fresh air. Seek medical attention if breathing difficulty develops or persists.
Skin Contact:	Wash with warm soapy water. If irritation persists, consult a physician
Ingestion:	Rinse mouth with copious amounts of water. Do not induce vomiting.
Eye Contact:	Flush with running water for 15 minutes. If irritation persists, consult a physician.

SECTION 5 – FIRE-FIGHTING MEASURES

Specific Hazards:	Product is non-combustible.
Suitable Extinguishing Media:	Water, water spray, foam, carbon dioxide, dry powder.
Unsuitable Extinguishing Media:	None known.
Protective Equipment and Precautions for Fire-Fighters:	None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	No special precautions required.
Environmental Precautions:	Avoid deposition in waterways. Carefully clean up spilled material and place the material into suitable containers and hold for reuse or disposal.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid skin and eye contact and inhalation of dust.
Conditions for Safe Storage:	Store material in a dry area at ambient temperatures.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	Use approved dust masks or respirator suitable for particulates if mix becomes very dry.
Skin Protection:	Long-sleeved shirts and long trousers are recommended if skin irritation occurs.
Eye Protection:	Dust resistant goggles or safety glasses should be worn if there is a risk of dust.
Engineering Controls:	Work in an open or well-ventilated area. All work with these products should be carried out in such a way as to avoid skin and eye contact and minimize exposure to dust.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black, brown, greyish brown, or red blend of natural organic and mineral materials.
Odour:	Earthy, woody/pine and soil-like.
Odour Threshold:	Not available.
pH:	3.5 – 7.5
Melting Point/freezing point:	Not applicable.
Initial Boiling Point and Boiling Range:	Not applicable.
Flashpoint:	Not applicable.
Vapour Pressure:	Not applicable.
Evaporation Rate:	Not applicable.
Vapour Density:	Not applicable.
Relative Density:	Not available.
Solubility:	Insoluble.
Partition Coefficient (n-octanol/water):	Not available.
Auto-ignition Temperature:	Not applicable.
Decomposition Temperature:	Not available.
Viscosity:	Not applicable.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	Not reactive.
Stability:	Material is stable at room temperature under normal storage and handling conditions
Conditions to Avoid:	Avoid flames or high heat and dry compost.
Materials with Which Substance is Incompatible:	None known.
Hazardous Polymerization:	It does not polymerize.
Products of Decomposition:	CO ₂ and H ₂ O.

SECTION 11 – TOXICOLOGICAL INFORMATION

Mulch is a commonly used product in the horticultural industry and is not considered to be carcinogenic or toxic.

Repeated inhalation may cause irritation, inflammation or sensitization of the respiratory system. The elderly, those with pre-existing respiratory diseases and the immune-compromised are at particular risk from illnesses ranging from hay fever to pneumonia. Skin and eye contact may result in irritation, abrasions, redness and permanent eye damage. Ingestion of large amounts of material may cause gastrointestinal irritation, choking and gastrointestinal blockage.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicity effects are expected. Avoid contaminating waterways.
Persistence and Degradability:	Inherently bio-degradable.
Bioaccumulative Potential:	Not applicable.
Mobility in Soil:	Data not available.

SECTION 13 – DISPOSAL CONDITIONS

Disposal Methods and Containers:	Normally suitable for disposal at approved land fill site. Dispose of waste product according to Local, Provincial, or Federal government regulation.
Special Precautions:	Not applicable.

SECTION 14 – TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods (TDG) Regulations: Not regulated.

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

WHMIS 2015 Classification:	Not classified in any WHMIS hazard class.
NSNR status:	All ingredients are listed on the DSL or are not required to be listed.

SECTION 16 – OTHER INFORMATION

The information contained herein is considered accurate and offered only as a guide to the handling of this specific material. This information, does not relate to its use with any other material or product or in any process. No warranty, expressed or implied is made regarding the accuracy of the data or the performance of the material by All Treat Farms Limited. This Safety Data Sheet is valid for three years from Issue Date.

SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pig Iron (Basic, Foundry, Nodular)
Chemical Family: Alloy
CAS #: NA
Importer: Primetrade, Inc.
11301 Carmel Commons Blvd, Suite 115
Charlotte, NC 28226
Phone: (704) 541-4082
Fax: (704) 541-5367
e-mail: iron@primetradeusa.com

SECTION 2. HAZARD IDENTIFICATION

This material, in its original form, is not classified as hazardous under any standards, regulations or directives issued by OSHA (in USA), WHMIS (in Canada), ABNT (in Brazil), and EEC (in Europe). No classification as hazardous was found in standards, regulations or directives issued by any other organization or authority in any other countries.

Physical state: Solid.

Emergency overview: No specific hazard established.

Potential acute health effects: NO EXPOSURE WHEN USED IN ITS ORIGINAL FORM. Processing of product, e.g. melting, grinding, welding, cutting, may produce dust and fumes. Routes of entry: Dermal contact; eye contact; inhalation. Overexposure to such dust and fumes may affect:

Eyes: May cause eye irritation

Skin: May cause mild irritation

Inhalation: May cause respiratory tract irritation

Potential chronic health effects: NO EXPOSURE WHEN USED IN ITS ORIGINAL FORM. Processing of product, e.g. melting, grinding, welding, cutting, may produce dust and fumes. Prolonged overexposure to iron dust or fumes may cause a chronic health condition of pneumoconiosis (i.e. siderosis).

Medical conditions aggravated by overexposure: NO EXPOSURE WHEN USED IN ITS ORIGINAL FORM.

Processing of product, e.g. melting, grinding, welding, cutting, may produce dust and fumes. Repeated inhalation of iron dust or fumes may cause various degrees of respiratory tract irritation or a chronic health condition of pneumoconiosis (i.e. siderosis).

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Typical % by weight
Iron	7439-89-6	>93
Carbon	7440-44-0	3.5 – 4.5
Manganese	7439-96-5	<1
Phosphorus	7723-14-0	<0.15
Silicon	7440-21-3	<3.5
Sulfur	7704-34-9	<0.015

SECTION 4. FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. Flush with large amounts of clean and cold water. Get medical attention if irritation occurs.

Skin Contact: Wash the contaminated skin with soap or mild detergent and water. Get medical attention if irritation occurs. Remove contaminated clothing and launder before reuse.

Inhalation: If acute overexposure to fumes occurs, remove exposed person from the adverse environment to fresh air. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated and seek medical attention promptly.

Ingestion: Not a probable route of entry in an industrial environment. However, in such case do not induce vomiting and seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

Flammability Classification: Non-flammable, non-combustible.

Fire-fighting media and instructions: Molten metal may react violently with water. Use an extinguishing agent suitable for the surrounding fire.

Unusual fire or explosion hazards: Avoid contact of cold or wet ingots with molten metal to prevent EXPLOSION hazard.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill or leakage: Not applicable to product in its original form.

Disposal: Product can be recycled for future use or otherwise disposed by any methods permitted by applicable local regulations.

SECTION 7. HANDLING AND STORAGE

Storage: Store away from incompatible materials.

Handling: The use in processes with potential generation of airborne particulates or fumes shall be evaluated and controlled as necessary. Personnel shall use suitable protective equipment. Remove moisture from ingots surface before dropping into molten metal.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use controls, e.g. process enclosures or local exhaust ventilation, to keep airborne levels below recommended exposure limits and to minimize exposure to metal fumes and dusts and heat during use or handling operations.

Personal protection:

Eyes: Safety eyewear complying with an approved standard should be used and selected based on the task being performed and the risks involved. Where there is a risk of exposure to high velocity particles safety glasses or face shield complying with an approved standard should be used to protect against impact. Where there is a risk of exposure to dusts, goggles should be used and use of contact lenses is not recommended.

Respiratory: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Seek professional advice prior to respirator selection and use.

Hands: Recommended: Leather gloves.

Skin/Body: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Recommended: Overall.

Consult local authorities for acceptable exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid (ingots).
Appearance: Metallic.
Color: Gray.
Odor: Odorless.
Melting Point: 1150 – 1200 °C (2102 – 2192 °F)
Specific Gravity: Approx. 7 (water = 1)
Dispersibility: Not dispersible in cold or hot water.
Solubility: Insoluble in cold or hot water.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage, handling and use.
Incompatibility: Reactive with oxidizing agents and reducing materials. Contact with acids may liberate flammable gas.
Hazardous Decomposition Products: NA.
Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenic effects: Not classified or listed.
Mutagenic effects: NA.
Teratogenic effects: NA.

SECTION 12. ECOLOGICAL INFORMATION

No information found for the product as a whole on ecotoxicity or environmental fate.
Products of degradation: Some metallic oxides.

SECTION 13. DISPOSAL CONSIDERATIONS

This product is recyclable. The generation of waste should be avoided or minimized wherever possible. Disposal: This product is considered to be a solid waste, not a hazardous waste. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

SECTION 14. TRANSPORT INFORMATION

No classification or labeling is applicable, as product is not considered hazardous in its original form.

SECTION 15. REGULATORY INFORMATION

This product, in its original form, is not listed on major international regulations. Consult your local or regional authorities.

SECTION 16. OTHER INFORMATION

Date of preparation: May 26, 2015

The metal itself does not present a health hazard unless it is melted, welded, ground, or cut. During these procedures, it is possible that excessive amounts of fumes or dust may be generated. It is advised that your particular operation be evaluated by a competent health professional to determine whether a hazard exists.

Disclaimer: This information is taken from sources or based upon data believed to be reliable, and is provided to cooperate for the protection of health and safety of personnel dealing with the material. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries or associates assumes no liability whatsoever for the accuracy, correctness, completeness, or sufficiency of the information contained herein. Final determination of suitability of any material is of the sole responsibility of the user. All materials may present unknown hazard and should be used with caution. Although certain hazardous are described herein, the supplier cannot guarantee that these are the only hazards that exist, or that any additional measures may be not required under particular conditions. THE ABOVE NAMED SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING OR TRADE.

SAFETY DATA SHEET

Creation Date 12-May-2011

Revision Date 29-Mar-2024

Revision Number 5

1. Identification

Product Name Potassium carbonate anhydrous

Cat No. : A16625

CAS No 584-08-7
Synonyms Potash; Pearl ash; Dipotassium salt of carbonic acid

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99
CHEMTREC Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word

Warning

Hazard Statements

Causes skin irritation
Causes serious eye irritation

May cause respiratory irritation

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Potassium carbonate	584-08-7	>95

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. If symptoms arise, call a physician. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention if symptoms occur.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Potassium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health
2

Flammability
0

Instability
1

Physical hazards
N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

Environmental Precautions Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Strong oxidizing agents. Halogens.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	11.5-12 50 g/l aq.sol
Melting Point/Range	891 °C / 1635.8 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	1120 g/L water (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C K2 O3
Molecular Weight	138.21

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Hygroscopic.
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moisture.
Incompatible Materials	Acids, Strong oxidizing agents, Halogens
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Potassium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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Potassium carbonate	> 2000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	LC50 > 4.96 mg/L (Rat) 4.5 h
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Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium carbonate	584-08-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium carbonate	Not listed	LC50 <510 mg/L/96h (Pimephales promelas)	Not listed	LC50: = 630 mg/L, 48h (Ceriodaphnia dubia)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Potassium carbonate	584-08-7	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

- - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Potassium carbonate	584-08-7	X	-	209-529-3	X	X	X	X	X	KE-29083

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Potassium carbonate	584-08-7	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Potassium carbonate	584-08-7	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Potassium carbonate	584-08-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Health, Safety and Environmental Department
Email: chem.techinfo@thermofisher.com
www.thermofisher.com

Creation Date 12-May-2011
Revision Date 29-Mar-2024
Print Date 29-Mar-2024
Revision Summary New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 22-June-2009

Revision Date 26-March-2024

Revision Number 6

1. Identification

Product Name Sodium chloride, ACS

Cat No. : 12314

CAS-No 7647-14-5

Synonyms Halite; Common salt; Rock salt

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor

Fisher Scientific
112 Colonnade Road,
Ottawa, ON K2E 7L6,
Canada
Tel: 1-800-234-7437

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99

CHEMTREC Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Not a dangerous substance or mixture according to the
Globally Harmonized System (GHS)

Label Elements

None required

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium chloride	7647-14-5	>95

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Get medical attention if symptoms occur. Clean mouth with water and drink afterwards plenty of water.
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Hydrogen chloride gas. Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health
1

Flammability
0

Instability
1

Physical hazards
N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions	Should not be released into the environment.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
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Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality. Store under an inert atmosphere. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Metals. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Hand Protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particle filter

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	5.0-8.0 @ 20°C; 5% aq.sol
Melting Point/Range	801 °C / 1473.8 °F
Boiling Point/Range	1461 °C / 2661.8 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable

Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 865 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cl Na
Molecular Weight	58.44

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Metals, Strong acids
Hazardous Decomposition Products	Hydrogen chloride gas, Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	See actual entry in RTECS for complete information.
Component Information	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h

Toxicologically Synergistic Products	No information available
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	Not mutagenic in AMES Test
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Reproductive Effects	No information available.
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Developmental Effects	No information available.
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Teratogenicity	No information available.
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STOT - single exposure	None known
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STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	Not listed	EC50: 1000 mg/L/48h

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Sodium chloride	7647-14-5	X	-	X	ACTIVE	231-598-3	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Sodium chloride	7647-14-5	X	KE-31387	X	X	X	X	X	X

Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

Authorisation/Restrictions according to EU REACH Not applicable

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium chloride	7647-14-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Product Safety Department
Email: chem.techinfo@thermofisher.com
www.thermofisher.com

Creation Date 22-June-2009
Revision Date 26-March-2024
Print Date 26-March-2024
Revision Summary New emergency telephone response service provider.

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End of SDS

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Silica Sand

Intended Use of the Product

Glass sand; traction sand; filtration sand; foundry sand; golf course and recreation sand; roofing sand; industrial filler sand; and equestrian sand. **NOTE: This product is NOT to be used for sand blasting.**

Name, Address, and Telephone of the Responsible Party

Lane Mountain Company
3119 Highway 231
Valley, WA 99181
(509) 937-2221 | www.lanemt.com

Emergency Telephone Number

(509) 937-2221

SECTION 2: HAZARDS IDENTIFICATION

GHS-US/Canadian Classifications

Skin Irritant (Category 2)

Eye Irritant (Category 2A)

Lung Carcinogen (Category 1A)

Specific Target Organ Toxicity (STOT), Single Exposure – transitory respiratory tract irritation (Category 3)

STOT, Repeated Exposure – lungs (silicosis and other lung conditions), kidneys, immune system (Category 1)

Label Elements

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

DANGER

Hazard Statements (GHS-US/CA)

Exposure to respirable crystalline silica may cause:

- Lung cancer if inhaled.
- Damage to the lungs (silicosis, other possible effects) or other organs (kidneys, immune system) through prolonged or repeated inhalation exposure.

Exposure to sand, if not handled in a way that releases airborne respirable dust, may cause:

- Mechanical irritation if it gets in the eyes or on the skin.
- Respiratory irritation if inhaled.

Precautionary Statements (GHS-US/CA)

Take precautions to prevent release of and exposure to fine dust/respirable crystalline silica.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust. Use only outdoors or in a well-ventilated area. Use an appropriate respirator if overexposure to respirable crystalline silica may occur. Provide additional ventilation if method of use or handling may break the product down into smaller particle sizes or generate fine airborne dust. **DO NOT use this product for sand blasting!**

Avoid getting in eyes, on skin, or on clothing. Use personal protective equipment (PPE) as required.

If skin irritation occurs, rinse the affected area with water. If in eyes, rinse well with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.

Store in a locked, well-ventilated place. Dispose of contents/container in accordance with local, regional, national, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. It may increase susceptibility to tuberculosis (TB), if exposed to TB. Note that OSHA (Occupational Safety and Health Administration) has issued two new standards for respirable crystalline silica (RCS): 29 CFR 1910.1053 for General Industry/Maritime and 29 CFR 1910.1153 for Construction. This standard establishes additional requirements for employers, including specific exposure assessment and control considerations, training and information, medical surveillance, and recordkeeping. It also requires a written Exposure Control Plan. For more information, employers are referred to "OSHA Safety and Health Topics / Silica, Crystalline" on the OSHA website (www.osha.gov).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Registry Number	Percentage by Weight
Crystalline Silica (as Quartz)	14808-60-7	99-99.9
Aluminum Oxide	7429-90-5	0.33 (approximate)
Iron Oxide	1309-37-1	0.06 (approximate)

SECTION 4: FIRST AID MEASURES**First Aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show this Safety Data Sheet or the label where possible).

Inhalation: When symptoms occur, go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. DO NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects both Acute and Delayed

Acute Symptoms and Effects: Dust may cause mechanical irritation to eyes, skin, and respiratory tract. May be irritating to gastrointestinal tract if swallowed.

Inhalation: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a progressive, disabling and often fatal lung disease.

Skin Contact: Prolonged exposure may cause skin irritation. Prolonged contact with large amounts of dust may cause mechanical irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: This product contains crystalline silica and may cause lung cancer. Repeated or prolonged exposure to airborne respirable crystalline silica dust (by inhalation) may cause silicosis, a disabling, non-reversible and often fatal lung disease. Symptoms of silicosis include progressively more difficult breathing, cough, fever, and weight loss. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Exposure may also aggravate pre-existing lung diseases such as emphysema or asthma. May cause chronic bronchitis and damage to the kidneys and immune system. May increase susceptibility to pulmonary tuberculosis. Smoking aggravates the effects of exposure to respirable crystalline silica.

Indication of Any Immediate Medical Attention and Special Treatment Needed

This product is not expected to pose an immediate medical hazard, except through irritation of skin, eyes, or respiratory system. If exposed or concerned, take the first aid steps listed in this section. Get medical advice and attention if irritation persists. If medical advice is needed, have product container, label, or Safety Data Sheet at hand. For the symptoms of chronic exposure – see above – obtain medical advice and attention. See also Section 11, Toxicological Information.

SECTION 5: FIREFIGHTING MEASURES**Extinguishing Media**

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive and is not known to be an explosive dust.

Reactivity: Hazardous reactions are not expected to occur under normal firefighting conditions.

Advice for Firefighters

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Avoid raising dust.

Hazardous Combustion Products: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use appropriate personal protective equipment (PPE) to prevent contact with and inhalation of dust. Refer to Section 8 for more information on choosing PPE.

Environmental Precautions

Prevent entry into sewers and public waters.

Methods and Materials for Containment and Cleaning Up

Clean up spills immediately and avoid creating dust. Vacuum spilled material using a HEPA-filtered vacuum or wet the material using a dust suppressant prior to sweeping or shoveling. Do not use dry sweeping or compressed air. Transfer spilled material to a suitable container for disposal. Dispose of spilled material appropriately. Refer to Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: If processing results in the generation of airborne dusts, exposure to respirable crystalline silica dust may result. Refer to Section 4 for information on the hazards of exposure to respirable crystalline silica dust.

Precautions for Safe Handling: Specific end uses of this product include glass sand; traction sand; filtration sand; foundry sand; golf course and recreation sand; roofing sand; industrial filler sand; and equestrian sand. **This product is NOT to be used for sand blasting.** Do not handle until all safety precautions have been read and understood. If airborne dust may be generated during use and handling, conduct industrial hygiene air sampling for respirable crystalline silica. If the appropriate permissible exposure limit (PEL) is exceeded, appropriate engineering controls and/or personal protective equipment (PPE) should be worn to prevent overexposure through inhalation, contact with the eyes or skin, and contamination of clothing. Refer to Section 8 for more information on exposure controls, such as PELs, engineering controls, and PPE.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures, as appropriate to the task being performed and the results of industrial hygiene air monitoring.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Comply with applicable regulations. Avoid creating or spreading dust. Keep container closed when not in use. Store in a well-ventilated place. Do not store near eating facilities or locker rooms. Ensure that personnel are protected from any potential engulfment hazard due to unstable or shifting material.

Incompatible Materials: Strong oxidizers. Fluorine. Fluorinated compounds. Acetylene. Ammonia. Hydrogen peroxide. Hydrofluoric acid.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

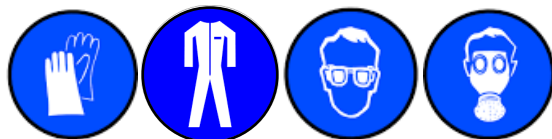
Ingredient	Source of Exposure Limit	Exposure Limit
Respirable Crystalline Silica (14808-60-7) as Quartz	OSHA Permissible Exposure Level (PEL)	50 µg/m ³
	OSHA Action Level (AL)	25 µg/m ³
Aluminum Oxide (7429-90-5)	OSHA PEL (total dust)	15 mg/m ³
	OSHA PEL (respirable fraction)	5 mg/m ³
Iron Oxide (1309-37-1)	OSHA PEL (as a fume)	10 mg/m ³
	OSHA PEL (as a particulate not otherwise regulated, PNOR, total dust)	15 mg/m ³
	OSHA PEL (as a particulate not otherwise regulated, PNOR, respirable fraction)	5 mg/m ³

Note that OSHA PELs and Action Levels can be found in 29 CFR 1910.1053, 29 CFR 1926.1153, and 29 CFR 1910.1000.

Exposure Controls

Appropriate Engineering Controls: Refer to the applicable OSHA standard (29 CFR 1910.1053 for General Industry and 29 CFR 1926.1153 for Construction), or to the appropriate state or provincial standard, for required engineering controls during the handling of this product. In addition, emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Power equipment should be equipped with properly designed dust collection devices. Maintain sufficient mechanical or natural ventilation to ensure that respirable crystalline silica concentrations remain below the PEL. Use local exhaust if necessary. Adequate ventilation is especially important in confined areas. Ensure all national, state, provincial, and local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles or safety glasses. In the case of insufficient ventilation and potential for overexposure to respirable crystalline silica, also wear respiratory protection.



Materials for Protective Clothing: Materials and fabrics impervious to dusts.

Hand Protection: Protective gloves impervious to dusts and otherwise appropriate to the job.

Eye Protection: Chemical goggles or safety glasses.

Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced, approved respiratory protection should be worn. The specific respirator worn should be based on the results of airborne industrial hygiene monitoring for respirable crystalline silica, the requirements of the OSHA standards for respirable crystalline silica (29 CFR 1910.1053 for General Industry, 29 CFR 1926.1153 for Construction), and the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Other Information: When using, do not eat, drink, or smoke. Wash unprotected skin before handling food, drinks, make-up, or before smoking. Wash unprotected work clothes after each use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance	Granular white solid
Odor	Odorless
Odor Threshold	Not applicable
pH	Not applicable
Evaporation Rate	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Boiling Point	≈ 4000 °F (≈ 2204 °C)
Flash Point	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Flammability (solid, gas)	Not applicable
Lower Flammable Limit	Not applicable
Upper Flammable Limit	Not applicable
Vapor Pressure	Not applicable
Relative Vapor Density at 20°C	Not applicable
Relative Density	Not applicable
Specific Gravity	2.65
Solubility	Not applicable
Partition Coefficient: N-Octanol/Water	Not applicable
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see Section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Incompatible Materials: Strong oxidizers including fluorine, fluorides, acetylene, ammonia, hydrogen peroxide, and hydrofluoric acid.

Hazardous Decomposition Products: Silica compounds. Crystalline silica (quartz) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride. Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C, it can change to a form of crystalline silica known as tridymite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for tridymite and cristobalite is the same as for crystalline silica as quartz.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral):

Crystalline Silica LD50 Oral Rat: > 5000 mg/kg

Aluminum Oxide LD50 Oral Rat: > 15900 mg/kg

Acute Toxicity (Dermal):

Not classified

Acute Toxicity (Inhalation):

Crystalline Silica LC50 Inhalation Rat: > 248 mg/m³/6h

Silica Sand

Safety Data Sheet

Lane Mountain Company

Aluminum Oxide LC50 Inhalation Rat: > 2.3 mg/l/4h

Iron Oxide LC50 Inhalation Rat: 50 mg/m³/12h

IDLH Data: 50 mg/m³ for crystalline silica as quartz, 25 mg/m³ for crystalline silica as tridymite or cristobalite

Skin Corrosion/Irritation: May cause temporary irritation through mechanical abrasion

Eye Damage/Irritation: May cause temporary irritation through mechanical abrasion

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity:

International Agency for Research on Cancer (IARC): Group 1, carcinogenic to humans

National Toxicology Program (NTP): Known human carcinogen

OSHA: Identified as a human carcinogen (lungs)

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lungs, kidneys, immune system) through prolonged or repeated exposure

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause respiratory irritation

Aspiration Hazard: Not classified

Symptoms/Injuries after Inhalation: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious progressive, disabling, and often fatal lung disease.

Symptoms/Injuries after Skin Contact: Prolonged exposure may cause skin irritation. Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries after Eye Contact: May cause temporary irritation to eyes

Symptoms/Injuries after Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause lung cancer. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Pre-existing lung diseases such as emphysema or asthma may be aggravated by exposure to dusts. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung, which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not applicable

Persistence and Degradability: Not applicable

Bioaccumulative Potential: Not applicable

Mobility in Soil: Not applicable

Other Adverse Effects: None expected

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations. Do not contaminate waterways or bodies of water with fine particulate.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT: Not regulated for transport

In Accordance with IMDG: Not regulated for transport

In Accordance with IATA: Not regulated for transport

In Accordance with TDG: Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Silica Sand	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Regulated, as respirable crystalline silica (RCS), by OSHA. 29 CFR 1910.1053 for General Industry/Maritime and 29 CFR 1926.1153 for Construction. Refer also to appropriate standards administered by OSHA-approved state programs. To determine if your state has an	

Silica Sand

Safety Data Sheet

Lane Mountain Company

OSHA-approved state plan, go to "Home / State Plans" on the OSHA website (www.osha.gov).

Aluminum Oxide (7429-90-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

Iron Oxide (1309-37-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Crystalline Silica, Airborne Particles of Respirable Size (14808-60-7)

US - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

Quartz (14808-60-7)

US - Massachusetts - Right To Know List

US - New Jersey - Right to Know Hazardous Substance List

US - Pennsylvania - RTK (Right to Know) List

Aluminum Oxide (7429-90-5)

US - Massachusetts - Right To Know List

US - New Jersey - Right to Know Hazardous Substance List

US - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

US - Pennsylvania - RTK (Right to Know) List

Iron Oxide (1309-37-1)

US - Pennsylvania - RTK (Right to Know) List

Canadian Regulations

Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

Aluminum Oxide (7429-90-5)

Listed on the Canadian DSL (Domestic Substances List)

Iron Oxide (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Version

3.0

Revision Date

10/22/2018

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The data in this safety data sheet relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process. It is based on the product only as sold, and does not address additional contaminants of the product that may have arisen from use or processing. The information set forth herein is based on technical data that Lane Mountain Company believes reliable. It is intended for use by persons having appropriate technical skills or access to the necessary technical resources and is used at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Any use of this data and information must be determined by the user to be in accordance with federal, provincial, and/or municipal laws and regulations.

NA GHS SDS 2016

LANDFILL FUND MONTHLY
REVENUE & EXPENSE BUDGET VS ACTUAL
FOR YEARS ENDING DECEMBER 31, 2023 & 2024

DESCRIPTION	JANUARY			FEBRUARY			MARCH			APRIL		
	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual
REVENUES												
Host Fees	\$ 31,130.61	\$ 33,792.00	\$ 34,656.85	\$ 31,542.80	\$ 35,904.00	\$ 32,987.49	\$ 28,823.05	\$ 35,904.00	\$ 29,985.57	\$ 37,309.99	\$ 35,185.92	\$ 27,368.35
GFL One Time Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Leases	\$ 1,062.54	\$ 1,819.75	\$ 3,598.28	\$ -	\$ 1,819.75	\$ 1,083.79	\$ 4,971.56	\$ 1,819.75	\$ 4,191.21	\$ 1,077.32	\$ 1,819.75	\$ -
Interest Earned - On Cash Balance	\$ 1,195.40	\$ 791.67	\$ 1,001.39	\$ 866.07	\$ 791.67	\$ 1,193.47	\$ 599.38	\$ 791.67	\$ 800.53	\$ 630.01	\$ 791.67	\$ 832.09
TOTAL REVENUES	\$ 33,388.55	\$ 36,403.42	\$ 39,256.52	\$ 32,408.87	\$ 38,515.42	\$ 35,264.75	\$ 34,393.99	\$ 38,515.42	\$ 34,977.31	\$ 39,017.32	\$ 37,797.34	\$ 28,200.44
EXPENSES												
Municipal Reimbursements												
City Personnel	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33
County Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
City Audit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consultant Guidance and Operational Costs												
General Guidance & Compliance (Clean Air Act Permit Rpt)	\$ -	\$ 10,916.67	\$ 19,849.61	\$ -	\$ 10,916.67	\$ 5,915.09	\$ 28,058.50	\$ 10,916.67	\$ 8,563.39	\$ 6,377.86	\$ 10,916.67	\$ 12,336.83
Groundwater Support/Reporting	\$ -	\$ 3,166.67	\$ 8,576.19	\$ -	\$ 3,166.67	\$ 3,463.69	\$ 11,875.46	\$ 3,166.67	\$ 2,191.37	\$ 544.13	\$ 3,166.67	\$ 6,300.52
LF#1 Gas System & Leache Management Ops.	\$ -	\$ 12,500.00	\$ 19,333.39	\$ -	\$ 12,500.00	\$ 14,172.80	\$ 18,979.08	\$ 12,500.00	\$ 13,833.33	\$ 10,410.99	\$ 12,500.00	\$ 8,228.56
LF #2 to LF #3 Transition Activities	\$ -	\$ 5,416.67	\$ 4,345.06	\$ -	\$ 5,416.67	\$ 1,667.32	\$ 8,194.27	\$ 5,416.67	\$ 2,044.56	\$ 2,214.81	\$ 5,416.67	\$ 6,442.66
Solar Development	\$ -	\$ 1,666.67	\$ 434.94	\$ -	\$ 1,666.67	\$ 729.76	\$ -	\$ 1,666.67	\$ 513.97	\$ 712.25	\$ 1,666.67	\$ 483.59
Unplanned Services and Repairs - Foth	\$ -	\$ 1,250.00	\$ 4,346.60	\$ -	\$ 1,250.00	\$ 3,352.65	\$ 9,075.16	\$ 1,250.00	\$ 7,323.30	\$ 290.85	\$ 1,250.00	\$ 144.20
Transfer Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Landfill 1 Expansion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Additional On Call Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contracted/Capital Improvements												
Post Closure Care	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
Leachate Extraction Improvements	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
GCCS Improvement Projects	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
Committee's Operational Expenses												
Off-Site Liquids Disposal (Transport & Leachate Treatment)	\$ -	\$ 833.33	\$ 426.58	\$ -	\$ 833.33	\$ 848.30	\$ 867.70	\$ 833.33	\$ 858.00	\$ 1,287.00	\$ 833.33	\$ 853.16
Telephone	\$ -	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.03	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01
Electricity	\$ -	\$ 583.33	\$ 453.50	\$ 655.93	\$ 583.33	\$ 492.70	\$ 533.17	\$ 583.33	\$ 518.27	\$ 623.39	\$ 583.33	\$ 475.41
Unplanned/Contingency												
Unplanned Services and Repairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENSES	\$ 6,333.33	\$ 43,325.00	\$ 64,135.21	\$ 7,025.27	\$ 43,325.00	\$ 37,011.65	\$ 83,952.70	\$ 43,325.00	\$ 42,215.53	\$ 28,830.62	\$ 43,325.00	\$ 41,634.27
EXCESS REVENUES OVER EXPENSES	\$ 27,055.22	\$ (6,921.58)	\$ (24,878.69)	\$ 25,383.60	\$ (4,809.58)	\$ (1,746.90)	\$ (49,558.71)	\$ (4,809.58)	\$ (7,238.22)	\$ 10,186.70	\$ (5,527.66)	\$ (13,433.83)
BEGINNING FUND BALANCE	\$ 180,228.39		\$ 224,594.82	\$ 207,283.61		\$ 199,716.13	\$ 232,667.21		\$ 197,969.23	\$ 183,108.50		\$ 190,731.01
ENDING FUND BALANCE	\$ 207,283.61		\$ 199,716.13	\$ 232,667.21		\$ 197,969.23	\$ 183,108.50		\$ 190,731.01	\$ 193,295.20		\$ 177,297.18

LANDFILL FUND MONTHLY
REVENUE & EXPENSE BUDGET VS ACTUAL
FOR YEARS ENDING DECEMBER 31, 2023 & 2024

DESCRIPTION	MAY			JUNE			JULY			AUGUST		
	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual
REVENUES												
Host Fees	\$ 40,354.88	\$ 35,185.92	\$ 29,431.55	\$ 60,560.45	\$ 35,228.16	\$ 25,448.81	\$ 46,494.83	\$ 35,228.16	\$ 21,989.94	\$ 46,742.66	\$ 35,228.16	\$ 23,399.68
GFL One Time Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Leases	\$ 1,083.79	\$ 1,819.75	\$ 2,189.26	\$ 1,083.79	\$ 1,819.75	\$ 1,105.47	\$ 1,083.79	\$ 1,819.75	\$ -	\$ 3,982.78	\$ 1,819.75	\$ 4,062.21
Interest Earned - On Cash Balance	\$ 833.35	\$ 791.67	\$ 1,000.93	\$ 637.63	\$ 791.67	\$ 726.99	\$ 813.00	\$ 791.67	\$ 985.06	\$ 979.56	\$ 791.67	\$ 657.43
TOTAL REVENUES	\$ 42,272.02	\$ 37,797.34	\$ 32,621.74	\$ 62,281.87	\$ 37,839.58	\$ 27,281.27	\$ 48,391.62	\$ 37,839.58	\$ 22,975.00	\$ 51,705.00	\$ 37,839.58	\$ 28,119.32
EXPENSES												
Municipal Reimbursements												
City Personnel	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33
County Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
City Audit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consultant Guidance and Operational Costs												
General Guidance & Compliance (Clean Air Act Permit Rpt)	\$ 16,224.02	\$ 10,916.67	\$ 5,283.83	\$ -	\$ 10,916.67	\$ 6,516.30	\$ 15,388.33	\$ 10,916.67	\$ 10,283.31	\$ -	\$ 10,916.67	\$ 5,970.12
Groundwater Support/Reporting	\$ 6,034.58	\$ 3,166.67	\$ 1,826.48	\$ -	\$ 3,166.67	\$ 2,354.18	\$ 3,736.24	\$ 3,166.67	\$ 2,014.43	\$ -	\$ 3,166.67	\$ 3,531.98
LF#1 Gas System & Leache Management Ops.	\$ 18,821.05	\$ 12,500.00	\$ 6,951.14	\$ -	\$ 12,500.00	\$ 11,834.29	\$ 35,380.84	\$ 12,500.00	\$ 17,571.61	\$ -	\$ 12,500.00	\$ 14,343.07
LF #2 to LF #3 Transition Activities	\$ 6,415.78	\$ 5,416.67	\$ 6,026.78	\$ -	\$ 5,416.67	\$ 3,007.09	\$ -	\$ 5,416.67	\$ 2,842.80	\$ -	\$ 5,416.67	\$ 3,862.50
Solar Development	\$ 309.32	\$ 1,666.67	\$ 3,206.91	\$ -	\$ 1,666.67	\$ 52.53	\$ 290.46	\$ 1,666.67	\$ 187.98	\$ -	\$ 1,666.67	\$ 52.53
Unplanned Services and Repairs - Foth	\$ 401.70	\$ 1,250.00	\$ -	\$ -	\$ 1,250.00	\$ 3,126.28	\$ 7,682.07	\$ 1,250.00	\$ 13,536.78	\$ -	\$ 1,250.00	\$ 5,687.38
Transfer Station	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -
Landfill 1 Expansion	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -
Additional On Call Services	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	\$ -
Contracted/Capital Improvements												
Post Closure Care	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
Leachate Extraction Improvements	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
GCCS Improvement Projects	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -
Committee's Operational Expenses												
Off-Site Liquids Disposal (Transport & Leachate Treatment)	\$ 853.16	\$ 833.33	\$ 855.58	\$ -	\$ 833.33	\$ 913.56	\$ 1,428.07	\$ 833.33	\$ 481.98	\$ 1,393.49	\$ 833.33	\$ 881.29
Telephone	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01
Electricity	\$ -	\$ 583.33	\$ 539.21	\$ 527.78	\$ 583.33	\$ 752.28	\$ 1,223.34	\$ 583.33	\$ 616.22	\$ 613.01	\$ 583.33	\$ 605.88
Unplanned/Contingency												
Unplanned Services and Repairs	\$ -	\$ -	\$ 8,258.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENSES	\$ 55,428.95	\$ 55,825.00	\$ 39,317.41	\$ 6,897.12	\$ 55,825.00	\$ 34,925.85	\$ 71,498.69	\$ 55,825.00	\$ 53,904.45	\$ 8,375.84	\$ 55,825.00	\$ 41,304.09
EXCESS REVENUES OVER EXPENSES	\$ (13,156.93)	\$ (18,027.66)	\$ (6,695.67)	\$ 55,384.75	\$ (17,985.42)	\$ (7,644.58)	\$ (23,107.07)	\$ (17,985.42)	\$ (30,929.45)	\$ 43,329.16	\$ (17,985.42)	\$ (13,184.77)
BEGINNING FUND BALANCE	\$ 193,295.20		\$ 177,297.18	\$ 180,138.27		\$ 170,601.51	\$ 235,523.02		\$ 162,956.93	\$ 212,415.95		\$ 132,027.48
ENDING FUND BALANCE	\$ 180,138.27		\$ 170,601.51	\$ 235,523.02		\$ 162,956.93	\$ 212,415.95		\$ 132,027.48	\$ 255,745.11		\$ 118,842.71

LANDFILL FUND MONTHLY
REVENUE & EXPENSE BUDGET VS ACTUAL
FOR YEARS ENDING DECEMBER 31, 2023 & 2024

DESCRIPTION	SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual	2023 Actual	2024 Budget	2024 Actual
REVENUES												
Host Fees	\$ 49,937.00	\$ 35,185.92	\$ 21,614.45	\$ 45,897.53	\$ 35,185.92	\$ 20,609.18	\$ 53,564.61	\$ 35,185.92	\$ 20,657.57	\$ 42,894.12	\$ 35,185.92	
GFL One Time Payment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Leases	\$ 1,083.79	\$ 1,819.75	\$ -	\$ 1,083.79	\$ 1,819.75	\$ 3,197.78	\$ 1,083.79	\$ 1,819.75	\$ 2,210.94	\$ 1,083.79	\$ 1,819.75	
Interest Earned - On Cash Balance	\$ 835.08	\$ 791.67	\$ 868.97	\$ 755.05	\$ 791.67	\$ 457.73	\$ 1,270.25	\$ 791.67	\$ 369.93	\$ 1,014.79	\$ 791.67	
TOTAL REVENUES	\$ 51,855.87	\$ 37,797.34	\$ 22,483.42	\$ 47,736.37	\$ 37,797.34	\$ 24,264.69	\$ 55,918.65	\$ 37,797.34	\$ 23,238.44	\$ 44,992.70	\$ 37,797.34	\$ -
EXPENSES												
Municipal Reimbursements												
City Personnel	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.33	\$ 6,333.37	\$ 6,333.33	
County Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,500.00	\$ 8,500.00	\$ 8,500.00	\$ -	\$ -	\$ -	
City Audit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00	\$ -	\$ 2,500.00	\$ -	\$ 2,500.00	\$ -	
Consultant Guidance and Operational Costs												
General Guidance & Compliance (Clean Air Act Permit Rpt)	\$ 14,487.04	\$ 10,916.67	\$ 5,399.94	\$ -	\$ 10,916.67	\$ 10,514.72	\$ 8,296.14	\$ 10,916.67	\$ 11,899.88	\$ 24,246.42	\$ 10,916.67	
Groundwater Support/Reporting	\$ 6,017.30	\$ 3,166.67	\$ 2,163.01	\$ -	\$ 3,166.67	\$ 7,688.44	\$ 104.50	\$ 3,166.67	\$ 2,749.35	\$ 2,966.90	\$ 3,166.67	
LF#1 Gas System & Leache Management Ops.	\$ 23,018.70	\$ 12,500.00	\$ 14,649.66	\$ -	\$ 12,500.00	\$ 17,300.08	\$ 14,643.45	\$ 12,500.00	\$ 8,182.11	\$ 17,808.48	\$ 12,500.00	
LF #2 to LF #3 Transition Activities	\$ 23,037.63	\$ 5,416.67	\$ 2,853.10	\$ -	\$ 5,416.67	\$ 2,129.53	\$ 3,250.78	\$ 5,416.67	\$ 3,129.98	\$ 17,111.00	\$ 5,416.67	
Solar Development	\$ 484.10	\$ 1,666.67	\$ 587.10	\$ -	\$ 1,666.67	\$ 270.89	\$ 1,044.32	\$ 1,666.67	\$ 211.15	\$ 6,151.67	\$ 1,666.67	
Unplanned Services and Repairs - Foth	\$ 15,297.99	\$ 1,250.00	\$ -	\$ -	\$ 1,250.00	\$ 3,790.40	\$ 1,528.62	\$ 1,250.00	\$ -	\$ 290.46	\$ 1,250.00	
Transfer Station	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	
Landfill 1 Expansion	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	\$ -	\$ -	\$ 3,125.00	
Additional On Call Services	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	\$ -	\$ -	\$ 6,250.00	
Contracted/Capital Improvements												
Post Closure Care	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	
Leachate Extraction Improvements	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	
GCCS Improvement Projects	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	\$ -	\$ -	\$ 208.33	
Committee's Operational Expenses												
Off-Site Liquids Disposal (Transport & Leachate Treatment)	\$ 879.76	\$ 833.33	\$ 843.46	\$ 441.09	\$ 833.33	\$ 93.47	\$ -	\$ 833.33	\$ 1,029.80	\$ -	\$ 833.33	
Telephone	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01	\$ 36.01	\$ 33.33	\$ 36.01	\$ 72.02	\$ 33.33	
Electricity	\$ -	\$ 583.33	\$ 689.73	\$ -	\$ 583.33	\$ 514.04	\$ 1,745.82	\$ 583.33	\$ 598.81	\$ 1,176.14	\$ 583.33	
Unplanned/Contingency												
Unplanned Services and Repairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,178.00	\$ -	\$ -	\$ 1,934.16	\$ -	
TOTAL EXPENSES	\$ 89,591.86	\$ 55,825.00	\$ 33,555.34	\$ 6,810.43	\$ 55,825.00	\$ 59,670.91	\$ 54,660.97	\$ 66,825.00	\$ 34,170.42	\$ 80,590.62	\$ 55,825.00	\$ -
EXCESS REVENUES OVER EXPENSES	\$ (37,735.99)	\$ (18,027.66)	\$ (11,071.92)	\$ 40,925.94	\$ (18,027.66)	\$ (35,406.22)	\$ 1,257.68	\$ (29,027.66)	\$ (10,931.98)	\$ (35,597.92)	\$ (18,027.66)	\$ -
BEGINNING FUND BALANCE	\$ 255,745.11		\$ 118,842.71	\$ 218,009.12		\$ 107,770.79	\$ 258,935.06		\$ 72,364.57	\$ 260,192.74		\$ 61,432.59
ENDING FUND BALANCE	\$ 218,009.12		\$ 107,770.79	\$ 258,935.06		\$ 72,364.57	\$ 260,192.74		\$ 61,432.59	\$ 224,594.82		\$ 61,432.59

LANDFILL FUND MONTHLY
REVENUE & EXPENSE BUDGET VS ACTUAL
FOR YEARS ENDING DECEMBER 31, 2023 & 2024

DESCRIPTION	FY2023 ACTUAL	FY2024 BUDGET	FY2024 YTD ACTUAL	FY2024 PROJECTED
REVENUES				
Host Fees	\$ 515,252.53	\$ 422,400.00	\$ 288,149.44	\$ 308,000.00
GFL One Time Payment	\$ -	\$ -	\$ -	\$ -
Leases	\$ 18,680.73	\$ 21,837.00	\$ 21,638.94	\$ 22,000.00
Interest Earned - On Cash Balance	\$ 10,429.57	\$ 9,500.00	\$ 8,894.52	\$ 9,200.00
TOTAL REVENUES	\$ 544,362.83	\$ 453,737.00	\$ 318,682.90	\$ 339,200.00
EXPENSES				
Municipal Reimbursements				
City Personnel	\$ 76,000.00	\$ 76,000.00	\$ 69,666.63	\$ 76,000.00
County Personnel	\$ 8,500.00	\$ 8,500.00	\$ 8,500.00	\$ 8,500.00
City Audit	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00
Consultant Guidance and Operational Costs				
General Guidance & Compliance (Clean Air Act Permit Rpt)	\$ 113,078.31	\$ 131,000.00	\$ 102,533.02	\$ 112,000.00
Groundwater Support/Reporting	\$ 31,279.11	\$ 38,000.00	\$ 42,859.64	\$ 48,000.00
LF#1 Gas System & Leache Management Ops.	\$ 139,062.59	\$ 150,000.00	\$ 146,400.04	\$ 160,000.00
LF #2 to LF #3 Transition Activities	\$ 60,224.27	\$ 65,000.00	\$ 38,351.38	\$ 41,000.00
Solar Development	\$ 8,992.12	\$ 20,000.00	\$ 6,731.35	\$ 7,000.00
Unplanned Services and Repairs - Foth	\$ 34,566.85	\$ 15,000.00	\$ 41,307.59	\$ 44,000.00
Transfer Station	\$ -	\$ 25,000.00	\$ -	\$ -
Landfill 1 Expansion	\$ -	\$ 25,000.00	\$ -	\$ -
Additional On Call Services	\$ -	\$ 50,000.00	\$ -	\$ -
Contracted/Capital Improvements				
Post Closure Care	\$ -	\$ 2,500.00	\$ -	\$ -
Leachate Extraction Improvements	\$ -	\$ 2,500.00	\$ -	\$ -
GCCS Improvement Projects	\$ -	\$ 2,500.00	\$ -	\$ -
Committee's Operational Expenses				
Off-Site Liquids Disposal (Transport & Leachate Treatment)	\$ 7,150.27	\$ 10,000.00	\$ 8,085.18	\$ 8,800.00
Telephone	\$ 432.14	\$ 400.00	\$ 396.11	\$ 432.00
Electricity	\$ 7,098.58	\$ 7,000.00	\$ 6,256.05	\$ 6,800.00
Unplanned/Contingency				
Unplanned Services and Repairs	\$ 11,112.16	\$ -	\$ 8,258.14	\$ 8,500.00
TOTAL EXPENSES	\$ 499,996.40	\$ 630,900.00	\$ 481,845.13	\$ 523,532.00
EXCESS REVENUES OVER EXPENSES	\$ 44,366.43	\$ (177,163.00)	\$ (163,162.23)	\$ (184,332.00)
BEGINNING FUND BALANCE	\$ 180,228.39		\$ 224,594.82	\$ 224,594.82
ENDING FUND BALANCE	\$ 224,594.82		\$ 61,432.59	\$ 40,262.82

RESERVES	11/30/2024	PROJECTED 12/31/2024
Operating Expenditures	\$ 61,432.59	\$ 40,262.82
Capital Expenditures	\$ -	\$ -
Self Perpetual Care	\$ 0.00	\$ 0.00

**Peoria City/County Landfill
Cash Flow Statement - Cash Basis
November 2024**

Beginning Balance November 1, 2024		\$124,078.21
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Plus Deposits:

11/15/2024 Lease Fees	\$1,105.47	
11/15/2024 Waste Management - Host Fees	\$20,657.57	
11/27/2024 Lease Fees	\$1,105.47	
11/30/2024 Interest	\$369.93	
		\$23,238.44

Less Electronic Debits & A/P Checks

11/1/2024 GFL	\$843.46	
11/8/2024 Peoria County	\$8,500.00	
11/8/2024 Verizon	\$72.02	
11/14/2024 GPSD	\$93.47	
11/14/2024 Ameren	\$514.04	
11/14/2024 Foth	\$41,694.06	
11/30/2024 City of Peoria Admin Fees	\$6,333.33	
		\$58,050.38

Ending Cash Balance November 30, 2024		<u><u>\$89,266.27</u></u>
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REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members

From: Chris Peters & Ian Johnson, Waste Management

AGENDA DATE REQUESTED: January 8, 2025

ACTION REQUESTED: Receive and File Monthly Reports and **obtain required signatures as outlined below.**

BACKGROUND: Attached is the monthly activity report through December 2024.

1. All weekly random load checks were completed and documented with no issues to report.
2. We are requesting Mr. Morris' signature on the following regulatory submittals, subject to review and approval in advance by Foth:
 - a. **2024 air emission report.** This report summarizes air emissions from the two landfills, two utility flares, traffic on paved and unpaved roads, gasoline tank, and soil stockpiles for both PCC#1 and PCC#2. Foth prepares the emissions for the PCC#1 site and forwards to WM for incorporation into the final report. This report is due May 1st and is required by the site's Title V air permit.
 - b. **2025 closure/post closure cost estimate update for LF#2.** This submittal is required by the PCC#2 IEPA operating permit. This application updates the costs to properly cap and seed the landfill, install the remainder of the gas collection system, complete all miscellaneous surface water work, perform surveys, and make all notifications/filings during final landfill closure. In addition, the costs to take care of the site during the 30-year post-closure term are updated annually for inflation. The application is due June 1st, 2025.
 - c. **2024 Annual IEPA landfill capacity certification for LF#2.** This report summarizes the amount of airspace remaining at the PCC#2 landfill as of January 1, 2025. Calculations for the remaining airspace are based upon 2024 incoming tonnages and waste densities. This report is due March 31st each year.
 - d. **Title V Air permit Renewal for PCC1 and PCC2.** The Title V Air permit renewal application is due to the IEPA by March 31, 2025. Signature for this application will be required from Rick Powers.

3. To allow sufficient time to respond to short-term submittal requirements that may arise prior to the next Landfill Committee meeting, we respectfully request authorization for the Committee chairperson to sign such documents, subject to review and approval in advance by Foth.

FINANCIAL IMPACT: NA

Peoria City/County Landfill No. 2
Waste Management of Illinois, Inc.
Monthly Activity Report
Nov-24

		Current		Landfill #2	Landfill #2
Tonnage:	General Refuse	Month		Year to Date	Year to Date
	Haulers	5,123.21		86,152.65	160,451.72
	County Res. Free Loads	169.45		2,456.91	2,851.01
	County Res. \$5 Loads	46.79		119.30	166.91
	Roadside	0.43		146.91	144.91
	T O T A L	5,339.88		88,875.77	163,614.55
	Special Wastes				
	Industrial (Declassified)	1,659.32		10,588.23	15,592.61
	Industrial (Exempt)	0.00		0.00	0.00
	T O T A L	1,659.32		10,588.23	15,592.61
	TOTAL LANDFILL RECEIPTS	6,999.20		99,464.00	179,207.16
	Yard Waste Receipts				
	City Contract -	0.00		0.00	0.00
	All Other	0.00		0.00	0.00
	T O T A L	0.00		0.00	0.00
Payments:	Payable to City/County Committee				
	General Refuse	Tons 5,123.21			
		Rate \$ 2.82			
		\$14,447.45	\$14,447.45	\$242,950.47	\$441,242.23
	Special Waste - Ind.	Tons 1,659.32			
		Rate \$ 2.82			
		\$4,679.28	\$4,679.28	\$29,858.81	\$42,879.68
	T O T A L	City Total	\$19,126.73	\$272,809.28	\$484,121.91
	Payable to County				
	General Refuse	Tons 5,123.21			
		Rate \$ 1.27			
		\$6,506.48	\$6,506.48	\$109,413.87	\$203,773.68
	Special Waste - Ind.	Tons 1,659.32			
		Rate \$ 1.27			
		\$2,107.34	\$2,107.34	\$13,447.05	\$19,802.61
	T O T A L		\$8,613.81	\$122,860.92	\$223,576.30
	Payable to/Receivable From County				
	\$5 Loads	Loads 1.00			
		Rate \$ 5.00			
		\$5.00	\$5.00	\$35.00	\$90.00
	Less:				
	State Fee on Free and \$5 Loads	Tons 216.24			
		Rate \$ 2.22			
		(\$480.05)	(\$480.05)	(\$5,719.18)	(\$6,699.78)
	T O T A L		(\$475.05)	(\$5,684.18)	(\$6,609.78)
	County Total		\$8,138.76		
Tonnage:	General Refuse & Special Waste				
	In county	6,532.36	93.33%	84,820.91	103,788.08
	Out of county	466.84	6.67%	14,643.09	75,419.08
	Mixed	-	0.00%	-	-
	T O T A L	6,999.20	100.00%	99,464.00	179,207.16

Peoria City/County Landfill No. 2
Waste Management of Illinois, Inc.
Monthly Activity Report
Dec-24

Tonnage:		Current Month		Landfill #2 Year to Date	Landfill #2 Year to Date
				2024	2023
	General Refuse				
	Haulers	5,125.89		91,278.54	172,800.18
	County Res. Free Loads	159.02		2,615.93	3,054.81
	County Res. \$5 Loads	93.29		212.59	166.91
	Roadside	3.64		150.55	186.49
	T O T A L	5,381.84		94,257.61	176,208.39
	Special Wastes				
	Industrial (Declassified)	48.96		10,637.19	15,846.64
	Industrial (Exempt)	0.00		0.00	0.00
	T O T A L	48.96		10,637.19	15,846.64
TOTAL LANDFILL RECEIPTS		5,430.80		104,894.80	192,055.03
	Yard Waste Receipts				
	City Contract -	0.00		0.00	0.00
	All Other	0.00		0.00	0.00
	T O T A L	0.00		0.00	0.00
Payments:	Payable to City/County Committee				
	General Refuse	Tons 5,125.89			
		Rate \$ 2.82			
		\$14,455.01	\$14,455.01	\$257,405.48	\$475,200.50
	Special Waste - Ind.	Tons 48.96			
		Rate \$ 2.82			
		\$138.07	\$138.07	\$29,996.88	\$43,578.26
	T O T A L	City Total	\$14,593.08	\$287,402.36	\$518,778.76
	Payable to County				
	General Refuse	Tons 5,125.89			
		Rate \$ 1.27			
		\$6,509.88	\$6,509.88	\$115,923.75	\$219,456.23
	Special Waste - Ind.	Tons 48.96			
		Rate \$ 1.27			
		\$62.18	\$62.18	\$13,509.23	\$20,125.23
	T O T A L		\$6,572.06	\$129,432.98	\$239,581.46
	Payable to/Receivable From County				
	\$5 Loads	Loads 0.00			
		Rate \$ 5.00			
		\$0.00	\$0.00	\$35.00	\$90.00
	Less:				
	State Fee on Free and \$5 Loads	Tons 252.31			
		Rate \$ 2.22			
		(\$560.13)	(\$560.13)	(\$6,279.31)	(\$7,152.22)
	T O T A L		(\$560.13)	(\$6,244.31)	(\$7,062.22)
	County Total		\$6,011.93		
Tonnage:	General Refuse & Special Waste				
	In county	5,033.31	92.68%	89,854.22	111,309.14
	Out of county	397.49	7.32%	15,040.58	80,745.89
	Mixed	-	0.00%	-	-
	T O T A L	5,430.80	100.00%	104,894.80	192,055.03