



Standard Agenda Item Cover Sheet

Agenda Item N^o. _____

Meeting Date: February 10, 2026

Consent Section Regular Section Public Hearing

Requires Chair Signature? Yes No Includes a Technology Component? Yes No

Subject: Mosaic’s Hopewell Mine 2024/2025 Annual Report			
Department Name: Environmental Services Division			
Contact Person: Kim Cruz		Contact Phone: (813) 276-8370	
Sign-Off Approvals:			
<i>George B. Cassady</i>	1/22/2026	<i>Kevin Moran</i>	1/15/2026
<small>Assistant County Administrator</small>	<small>Date</small>	<small>Department Director</small>	<small>Date</small>
N/A		<i>Nancy Takemori</i>	1/2/2026
<small>Management and Budget – Approved as to Financial Impact Accuracy</small>	<small>Date</small>	<small>County Attorney – Approved as to Legal Sufficiency</small>	<small>Date</small>

Staff’s Recommended Board Motion:
 Acceptance of the Mosaic’s Hopewell Mine 2024/2025 Annual Report for informational purposes. This phosphate mining and reclamation report provides a general review of mining operations, reclamation during the preceding reporting year and identifying expected activity for the subsequent reporting year.

Financial Impact Statement:
 No County funds are required for this item.

Background:
 Pursuant to Land Development Code (LDC) Section 8.02.09 of the Hillsborough County Land Development Code, a phosphate mining permittee is required to submit an Annual Report of Operations containing a general review of mining operations and reclamation during the preceding reporting year and identifying expected activity for the subsequent reporting year.

- List Attachments:
- Hillsborough County Staff Review Report
 - Attachment 1: Agency Comments
 - Attachment 2: Mosaic’s Hopewell Mine 2024/2025 Annual Report
 - Attachment 3: Mosaic’s Hopewell Mine 2024/2025 Annual Report Correction



**Hillsborough
County Florida**

**A Report Presented to the
Board of County Commissioners
on February 10, 2026 from
Public Utilities Department
Environmental Services Division
regarding
Hopewell Mine 2024/2025 Annual Report
Application No.: PMAR 25-1063
Phosphate Reference No.: 625.01P**

Staff Review of the Hopewell Mine 2024/2025 Annual Report

Annual Review of Development Order Compliance Assessment

The Hopewell Mine Operating Permit 82-1 was approved by the Hillsborough County Board of County Commissioners on June 23, 1982. The development encompasses 4,083 acres and is located in southeast Hillsborough County. The project is approved for Phosphate Mining and the project's buildout date was 2018.

Pursuant to Land Development Code (LDC) Section 8.02.09 of the Hillsborough County Land Development Code, a phosphate mining permittee is required to submit an Annual Report of Operations containing a general review of mining operations and reclamation during the preceding reporting year and identifying expected activity for the subsequent reporting year.

Agency Review

The Annual Report of Operations (Attachments 2 and 3) submitted for the Hopewell Mine project has been reviewed by the County and other applicable agencies for compliance with the terms and conditions of the Development Order, Operating Permit, and approved plans. The review generated no adverse comments or recommendations (Attachment 1). Approval by the Administrator and/or the Board of County Commissioners does not relieve the applicant from the responsibility to comply with any applicable federal, state, and other local laws, regulations, and ordinances.

During the reporting year from July 1, 2024, through June 30, 2025, the following development was reported for informational purposes:

Project Status

The developer of record continues to be Mosaic Fertilizer LLC, (Mosaic). The authorized agent is Russell T. Schweiss. The Operating Permit was amended six times and was valid through June 23, 2018, under Resolution Number R06-249, which allows for no more than 3,050 acres to be mined. Phosphate mining was concluded at the Hopewell Mine on January 16, 2011, resulting in a cumulative acreage mined at 2,526 acres. The Plant site demolition was completed as of December 2011, and all product removal from the plant stockpile was completed as of April 2012. The plant site and stockpile areas have been contoured and grassed as of June 2012.

Mining Operations

Mosaic reports that final mining of Hopewell mine was completed on January 16, 2011; therefore, there has been no additional acres mined since that time, and no product has been shipped from the mine during the reporting period. All mine cut contouring and re-vegetation for the Hopewell Mine has been completed. According to the annual report, the area mined has not exceeded 3,050 acres as set forth in approved Resolution Number R06-249. Additionally, for the life of the Hopewell Mine the cumulative average of area mined was approximately 95 acres per year. All yearly totals were under or met the 125-acre annual mining limitation. No setback waivers were applied for during the 2024/2025 reporting year.

Consumptive use of water during the reporting period was reported at 0 gallons of water per day and did not exceed the SWFWMD Water Use Permit withdrawal annual average and daily maximum limits.

Clay Storage

Mosaic reports that Clay Settling Areas (CSA) HL-1, HL-2, HL-3, and HL-4 have a total area of approximately 1,215 acres out of the 1,600 acres allowable and a total effective flooded area of 1,060 acres out of the 1,360 acres allowable. Additionally, the annual report indicates that reclamation activities for the HL-1, HL-2 and HL-4 clay settling areas are complete and have received FDEP release. Reclamation of HL-3 was completed in April 2016, and abandonment was obtained from the FDEP Industrial Wastewater Group. Reclamation release for HL-3 has not yet been obtained from FDEP.

Reclamation

Since 1982, Mosaic Fertilizer, LLC and its predecessors, Mosaic Phosphates Company and IMC Phosphates Company have requested and obtained written releases from the Florida Department of Environmental Protection (FDEP) for certain FDEP Reclamation and Restoration Program Units in the Hopewell Mine.

Mosaic may request reclamation releases outside of the annual report twice a year in the Spring and the Fall to Hillsborough County. Per the 2024/2025 Annual Report no reclamation requests were submitted to Hillsborough County and did not any reclamation releases from FDEP during the 2024/2025 reporting year.

No supplemental wetland reclamation plantings occurred during the 2024/2025 reporting period.

Hillsborough County and Mosaic are working to clarify the locations and amount of acreage identified in the 2024/2025 annual report as released by Hillsborough County

and will continue outside of the 2024/2025 annual report staff review. Future annual reports shall be updated to account for the areas verified.

Significant Upland Wildlife Habitat

Hopewell Mining Unit 9 was approved by the Hillsborough County Board of County Commissioners on August 26, 2003 (application number 202.01P). Condition number 2 of the approval references reclamation of Significant Upland Wildlife Habitat (SUWH) to be constructed within MU 8A. On behalf of Mosaic, Kleinfelder reports that the SUWH met the total vegetative cover greater than 40%, identified more than four tree species within the canopy, and less than 10% cover of nuisance species. However, the SUWH did not meet success criteria for required 75% species diversity, 20% relative bare ground/leaf litter cover, nor 80% relative cover of desirable herbaceous species.

To maintain the nuisance/exotic cover, Mosaic will schedule an herbicide event as needed. Mosaic will evaluate the need for supplemental planting to target the diversity requirements of the permit.

Annual Financial Responsibility

The 2024/2025 comprehensive (Hillsborough Consolidated Mines, Big Four Mine, and Hopewell Mine) Financial Responsibility Agreement was reviewed and negotiated with the Office of Management and Budget, Hillsborough County Financial and Debt Analysis Department and was approved by the Board of County Commissioners on February 11, 2025.

The proposed 2025/2026 comprehensive Financial Responsibility Agreement includes the following: (1) a Reclamation Surety Bond equal or greater than \$93,198,078 (2) an Environmental Liability Insurance Policy in the minimum amount of \$43,000,000, and (3) a Corporate Guarantee from the Mosaic Company of Delaware in the amount of \$13,214,644 to cover EPC wetland mitigation constructed but not yet released at \$7,460 per acre. The total amount of \$149,412,722 reported is based on the current level of the Reclamation Bond and Corporate Guarantee, plus the Environmental Liability Insurance Policy. The current Environmental Insurance Policy is valid through 10/22/2025 and is renewed annually.

Projected Development:

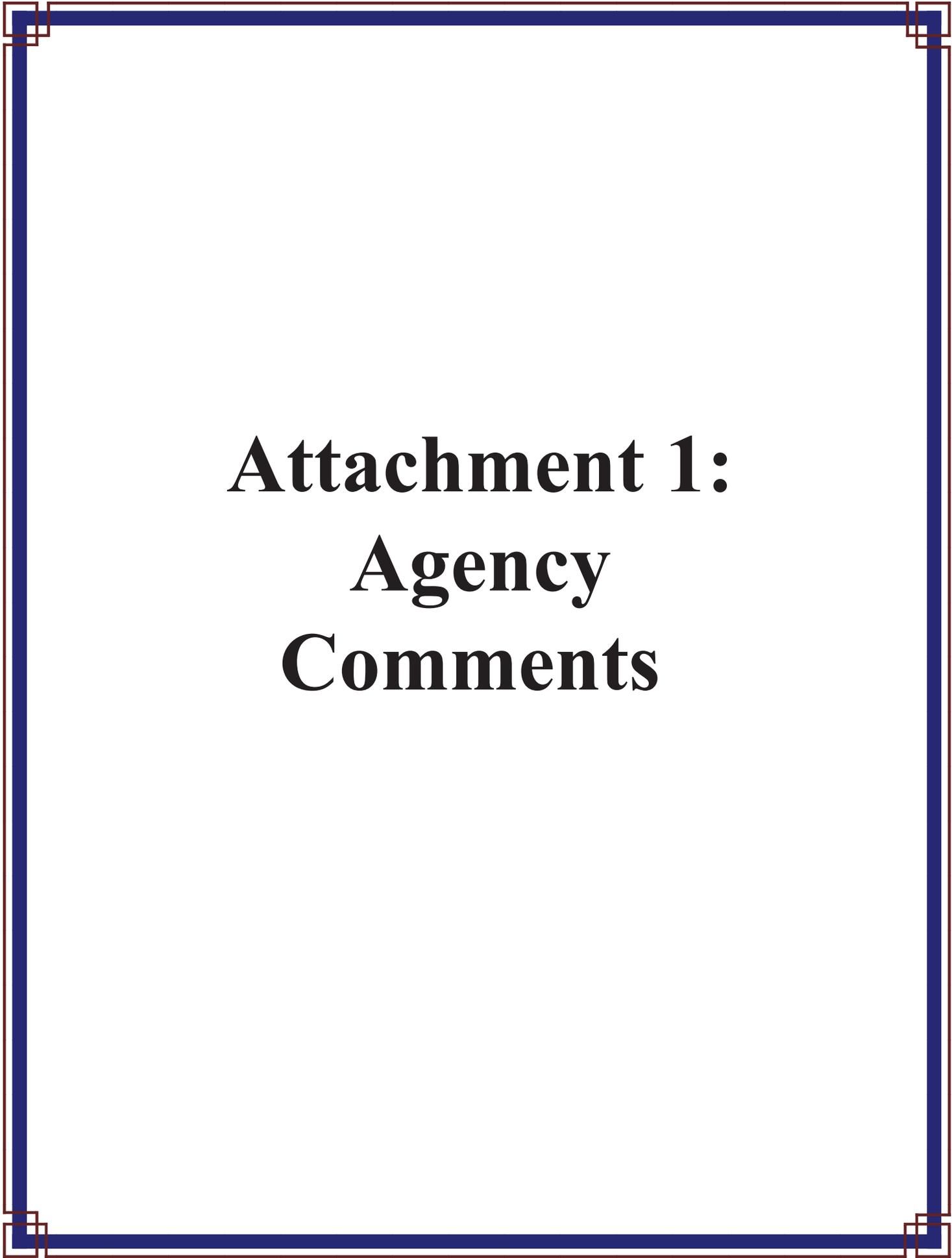
At this time, Mosaic indicated that there is no mining in the Hopewell Mine proposed for 2025-2026. Reclamation activities expected during the reporting year 2025-2026 include routine monitoring, maintenance and supplemental plantings as needed. Additionally, repair of any wetland connection areas as needed. Mosaic indicated that they will be requesting reclamation releases outside the reporting period.

Project History

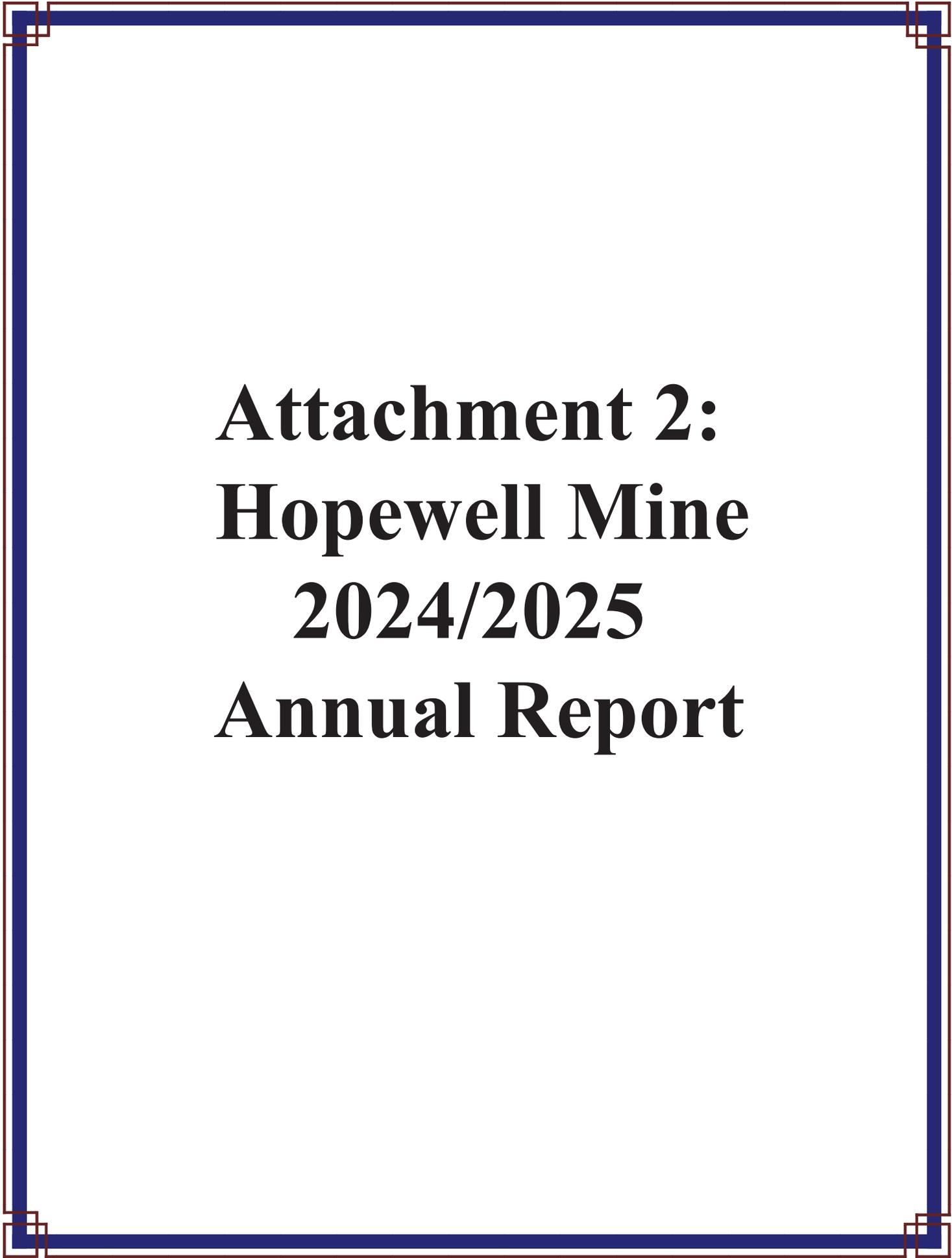
1. On June 23, 1982, the Hillsborough County Board of County Commissioners (BOCC) approved and issued Community Unit Rezoning Resolution No. C-U #82-223, and Mine Operating Permit No. 82-1 for the Hopewell Mine to the Hopewell Land Corporation. The Operating Permit and Zoning approvals authorized mining and mining related activities at the Hopewell Mine.
2. On July 6, 1983, the BOCC adopted Resolution No. R83-0079, amending provision 2 of Operating Permit No. 82-1 to read as follows:

"This Operating Permit shall remain in effect for a period of thirty (30) years from and after the date of its issuance provided that this term may be extended by this Board upon findings of excusable delay in any proposed mining or reclamation."
3. On October 3, 1989, IMC Fertilizer (Mosaic Fertilizer LLC predecessor in interest, hereinafter collectively referred to as "IMC") purchased most of the Hopewell Mine and entered into a lease for the remaining portion of the Hopewell Mine.
4. On October 12, 1989, the BOCC approved the transfer of the Hopewell Mine Operating Permit, as amended, from Hopewell Land Corporation to IMC.
5. On July 10, 1990, the BOCC approved Personal Appearance PRS #90-0102 request to amend the General Site Plan (CU 82-223) to realign the phosphate mining boundary for the Hopewell Mine.
6. On June 13, 1991, the BOCC approved Personal Appearance PRS #90-0168 request to amend the General Site Plan (CU 82-223) to realign the phosphate mining boundary for the Hopewell Mine.
7. On June 10, 1997, the BOCC approved Resolution #R97-125 approving Major Modification MM #97-0070 request to amend the General Site Plan (CU 82-223) to allow development of a portion of the property for residential and commercial uses.
8. On December 12, 1999, the Zoning Administrator approved Minor Change #MC00-0229 request and on April 25, 2000, the BOCC approved an amendment to the Operating Permit #82-1 to add a 40-acre parcel zoned AM, which was not included in the CU zoning for the Hopewell Mine.
9. On March 12, 2002, the BOCC approved Resolution #R02-042 approving Personal Appearance PRS #01-0009 and the Phosphate Mining Application #1000.13P requests to amend the General Site Plan (CU 82-223) and the Operating Permit #82-1 to allow inbound and outbound truck shipments of phosphate product.
10. On October 25, 2004, IMC Phosphates Company merged with Cargill Crop Nutrition and was renamed Mosaic Phosphates Company.

11. On July 29, 2005, Mosaic Phosphates Company was renamed Mosaic Fertilizer, LLC.
12. On October 24, 2006, the BOCC approved Resolution Number R06-249, amending the Operating Permit #82-1, allowing the addition of a 532-acre parcel to the Hopewell Mine, extending the build out date from 2013 to 2018, increasing the allowable acres to be mined to 2,971, and increase the total phosphatic clay production. On October 24, 2006, the BOCC also approved PRS #05-1370, incorporating the changes to the Operating Permit #82-1, including allowing mining of areas formerly designated as mining setback areas.



**Attachment 1:
Agency
Comments**



**Attachment 2:
Hopewell Mine
2024/2025
Annual Report**



Mosaic Fertilizer, LLC
Hopewell Mine

2024-2025 Annual Report

June 30, 2025



Mosaic Fertilizer, LLC
13830 Circa Crossing Drive
Lithia, Florida 33547
www.mosaicco.com

Tel 813-500-6910
Fax 813-571-6925

June 30, 2025

Ms. Kim Cruz
Environmental Supervisor
Hillsborough County Environmental Services
332 N. Falkenburg Road
Tampa, Florida 33619

**Re: *Mosaic Fertilizer, LLC (Mosaic) 2024/2025 Hillsborough County
Hopewell Mine Annual Report***

Dear Ms. Cruz:

Pursuant to Sections 8.02.09 and 8.02.10.B. of the Hillsborough County Land Development Code, Mosaic is electronically filing the 2024/2025 Annual Report of Operations for the Hopewell Mine.

The required annual report filing and review fees will be made payable to Hillsborough County Board of County Commissioners. This total includes Hillsborough County Development Services' (HCDS) Phosphate Annual Review fee for Hopewell and the Environmental Protection Commission of Hillsborough County's (EPCHC) annual review and inspection fees. In addition, the latest available financial statements and information can be downloaded or viewed at www.mosaicco.com under the category of Investors, sub-category Financial Information. Please note that Mosaic completed mining at the Hopewell Mine in January 2011. Initial Reclamation activities and establishment of land types will continue until final release is obtained.

Please contact me at Laney.McGraw@mosaicco.com or 863-267-4585 if you have any questions or require additional information regarding this submittal.

Sincerely,

A handwritten signature in black ink that reads "Laney McGraw". The signature is written in a cursive, flowing style.

Laney McGraw
Mine Permitting Specialist

Cc: Jeff Greenwell – Hillsborough County
Russell Schweiss – Mosaic
Lauren Brooks – Mosaic
Gary Blitch – Mosaic
Shelley Thornton – Mosaic
Jake Dotson – Mosaic
Laura Morris – Mosaic
Keith Hancock – Mosaic
Eric Michel – Mosaic
Sam Upton – Mosaic
Sandy Adams – Mosaic

Hopewell Mine Annual Report of Operations
(For Report Period July 1, 2024 to June 30, 2025)

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SECTION 1
REPORT FORMS

**CERTIFICATE OF ASSISTANT CORPORATE SECRETARY OF MOSAIC FERTILIZER, LLC
AS TO AUTHORIZATION**

The undersigned, Beth A. Paulson, does hereby certify that she is the duly elected Assistant Corporate Secretary of Mosaic Fertilizer, LLC, a Delaware limited liability company (the "Company") and further certifies as follows:

1. Russell T. Schweiss is the Sr. Director, Land and Resource Strategies for the Company.
2. In his capacity as Sr. Director, Land and Resource Strategies, Russell T. Schweiss is authorized to sign any and all documents relating to and including, but not limited to:
 - a) zoning and permit applications, and other related reports and plans that are executed or filed on behalf of the Company with any city, county, regional, state or federal governmental agency or regulatory authority; and
 - b) plans for reclamation, requests for release of reclamation obligations, and other related reports and plans that are executed or filed on behalf of the Company with any city, county, regional, state or federal governmental agency or regulatory authority.
3. The signature appearing below opposite Mr. Schweiss' name is a true and correct specimen of his signature:

NAME	TITLE	SIGNATURE
Russell T. Schweiss	Sr. Director, Land and Resource Strategies	

In witness whereof, the undersigned has executed this document effective on this 30th day of May 2024.


Beth A. Paulson

Subscribed and sworn to before me this 30th day of May 2024.


Notary Public



Combo Phosphate Mining & DRI Annual Report Application



**Hillsborough
County Florida**

Important Instructions to All Applicants:

Please email your completed application to ZoningIntake-DSD@HCFLGov.net. Incomplete applications will not be accepted.

Official Use Only

Application No: _____ Intake Date: _____ Intake Staff Signature: _____
Receipt Number: _____ ZHM Date: _____ BOCC Date: _____
Acreage: _____ Zoning: _____ LU: _____
Location: _____

Property Information

Address: (See Page 4+) City/State/Zip: _____
TWN-RN-SEC: _____ Folio(s): _____ Acreage: _____
Current Use: _____

Property Owner Information

Name: Russell Schweiss Daytime Phone (813) 500-6891
Address: Mosaic Fertilizer, LLC. 13830 Circa Crossing Drive City/State/Zip: Lithia, Florida 33547
Email: Russell.Schweiss@mosaicco.com Fax Number _____

Applicant Information

Name: Mosaic Fertilizer, LLC Daytime Phone (813) 500-6911
Address: 13830 Circa Crossing Drive City/State/Zip: Lithia, Florida 33547
Email: _____ Fax Number _____

Applicant's Representative (if different than above)

Name: Laney McGraw Daytime Phone (813) 500-6934
Address: 13830 Circa Crossing Drive City/State/Zip: Lithia, Florida 33547
Email: Laney.McGraw@mosaicco.com Fax Number _____

DRI Information

List the DRI project name and number: Hopewell Mine
For DRI Annual Report Submittal: Anniversary Date: June 30, 2025 Reporting Period July 1, 2024 to June 30, 2025

I hereby swear or affirm that all the information provided in the submitted application packet is true and accurate, to the best of my knowledge, and authorize the representative listed above to act on my behalf on this application.

Laney C McGraw
Signature of the Applicant
Laney McGraw
Type or print name

I hereby authorize the processing of this application and recognize that the final action taken on this petition shall be binding to the property as well as to the current and any future owners.

Russell Schweiss
Signature of the Owner(s) – (All parties on the deed must sign)
Russell Schweiss
Type or print name

Identification of Sensitive/Protected Information and Acknowledgement of Public Records



Hillsborough County Florida

Pursuant to [Chapter 119 Florida Statutes](#), all information submitted to Development Services is considered public record and open to inspection by the public. Certain information may be considered sensitive or protected information which may be excluded from this provision. Sensitive/protected information may include, but is not limited to, documents such as medical records, income tax returns, death certificates, bank statements, and documents containing social security numbers.

While all efforts will be taken to ensure the security of protected information, certain specified information, such as addresses of exempt parcels, may need to be disclosed as part of the public hearing process for select applications. If your application requires a public hearing and contains sensitive/protected information, please contact [Hillsborough County Development Services](#) to determine what information will need to be disclosed as part of the public hearing process.

Additionally, parcels exempt under [Florida Statutes §119.071\(4\)](#) will need to contact [Hillsborough County Development Services](#) to obtain a release of exempt parcel information.

Are you seeking an exemption from public disclosure of selected information submitted with your application pursuant to Chapter 119 FS? Yes No

I hereby confirm that the material submitted with application Hopewell Mine

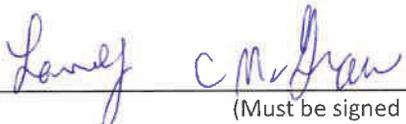
Includes sensitive and/or protected information.

Type of information included and location _____

Does not include sensitive and/or protected information.

Please note: Sensitive/protected information will not be accepted/requested unless it is required for the processing of the application.

If an exemption is being sought, the request will be reviewed to determine if the applicant can be processed with the data being held from public view. Also, by signing this form I acknowledge that any and all information in the submittal will become public information if not required by law to be protected.

Signature: 
(Must be signed by applicant or authorized representative)

Intake Staff Signature: _____ Date: _____



Affidavit to Authorize Agent (If applicant is other than owner)

State of Florida County of Hillsborough

(See Page 4+ to complete statements 1-4)

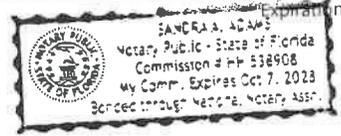
(Name of all property owners), being first duly sworn, depose(s) and say(s):

- 1. That (I am/we are) the owner(s) and record title holder(s) of the following described property, to wit: Address or general location: Folio No(s): (See Page 4+)
2. That this property constitutes the property for which a request for a: Annual Report Review (Nature of request) is being applied to the Board of County Commissioners, Hillsborough County.
3. That the undersigned (has/have) appointed N/A as (his/their) agent(s) to execute any permits or other documents necessary to affect such permit.
4. That this affidavit has been executed to induce Hillsborough County, Florida, to consider and act on the above-described property;
5. That (I/we), the undersigned authority, hereby certify that the foregoing is true and correct.

Signed (Property Owner) Russell Schweiss Type or Print Name

STATE OF FLORIDA COUNTY OF HILLSBOROUGH The foregoing instrument was acknowledged before me by means of [X] physical presence or [] online notarization, this 9th day of June, 2025, by Russell Schweiss (name of person acknowledging) [X] Personally Known OR [] Produced Identification Type of Identification Produced Sandra A. Adams (Signature of Notary taking acknowledgment) Sandra A. Adams Type or Print Name of Notary Public HH538908 10-7-2028 Commission number Expiration date

STATE OF FLORIDA COUNTY OF HILLSBOROUGH The foregoing instrument was acknowledged before me by means of [] physical presence or [] online notarization, this ___ day of ___, by (name of person acknowledging) [] Personally Known OR [] Produced Identification Type of Identification Produced (Signature of Notary taking acknowledgment) Type or Print Name of Notary Public Commission number Expiration date





Property/Project Information Sheet

Official Use Only

Application No: _____

Proposed Project Name (If applicable): Hopewell Mine Related Applications: N/A

Code Enforcement/Building Code violation No. (if applicable): N/A

List each folio within the proposed project along with the corresponding information for each (Use additional sheets if necessary).

Folio Number	Owner(s) Name(s) as listed on the deed	Acreage	Current Zoning	Future Land Use Category	S/T/R**
0928940300	MOSAIC FERTILIZER LLC	76.7	PD	A/M	26/29S/22E
0930170000	SOBER FAMILY PROPERTIES II LLC	40.7	AM;AS-1;PD	A/M;R-1	27/29S/22E
0930170025	SOBER FAMILY PROPERTIES II LLC	71.4	AR;AS-1;PD	R-1;A/M	27/29S/22E
0930170062	GILL FAMILY LLC	21.3	PD	A/M;R-1	27/29S/22E
0930170064	MIRAMAR FARM LLC	32.6	PD	A/M	27/29S/22E
0930170066	VALLEJO NORBERTO	44.7	PD	A/M	27/29S/22E
0930170100	MOSAIC FERTILIZER LLC	153.0	PD	A/M	27/29S/22E
0930350000	S&H MATHIS LLC	14.0	AM;PD	A/M	27/29S/22E
0930370000	SOBER FAMILY PROPERTIES II LLC	171.9	PD	A/M;R-1	28/29S/22E
0930380000	ASTIN STRAWBERRY PROPERTY MANA	57.2	AR;PD	A/R;A/M	28/29S/22E
0930380100	CONRAD RAYMOND E LIFE ESTATE	22.0	AR;PD	A/M;A/R	28/29S/22E
0930390000	ASTIN STRAWBERRY PROPERTY MANA	117.5	PD	A/M	28/29S/22E
0930400000	MOSAIC FERTILIZER LLC	210.7	PD	A/M	28/29S/22E
0930960000	DAVID CRUM FAMILY TRUST	3.1	AM;PD	A/M	31/29S/22E
0931010000	MOSAIC FERTILIZER LLC	194.8	PD	A/M	32/29S/22E
0931020100	CRUM DAVID C TRUSTEE	56.3	AM;PD	A/M	32/29S/22E
0931030000	MOSAIC FERTILIZER LLC	633.2	PD	A/M	33/29S/22E
0931050000	MOSAIC FERTILIZER LLC	644.1	AM;PD	A/M	34/29S/22E
	Total Acreage:	2565.2			

* If Current Zoning is PD, list PD application number as well.

** Section / Township / Range



Legend

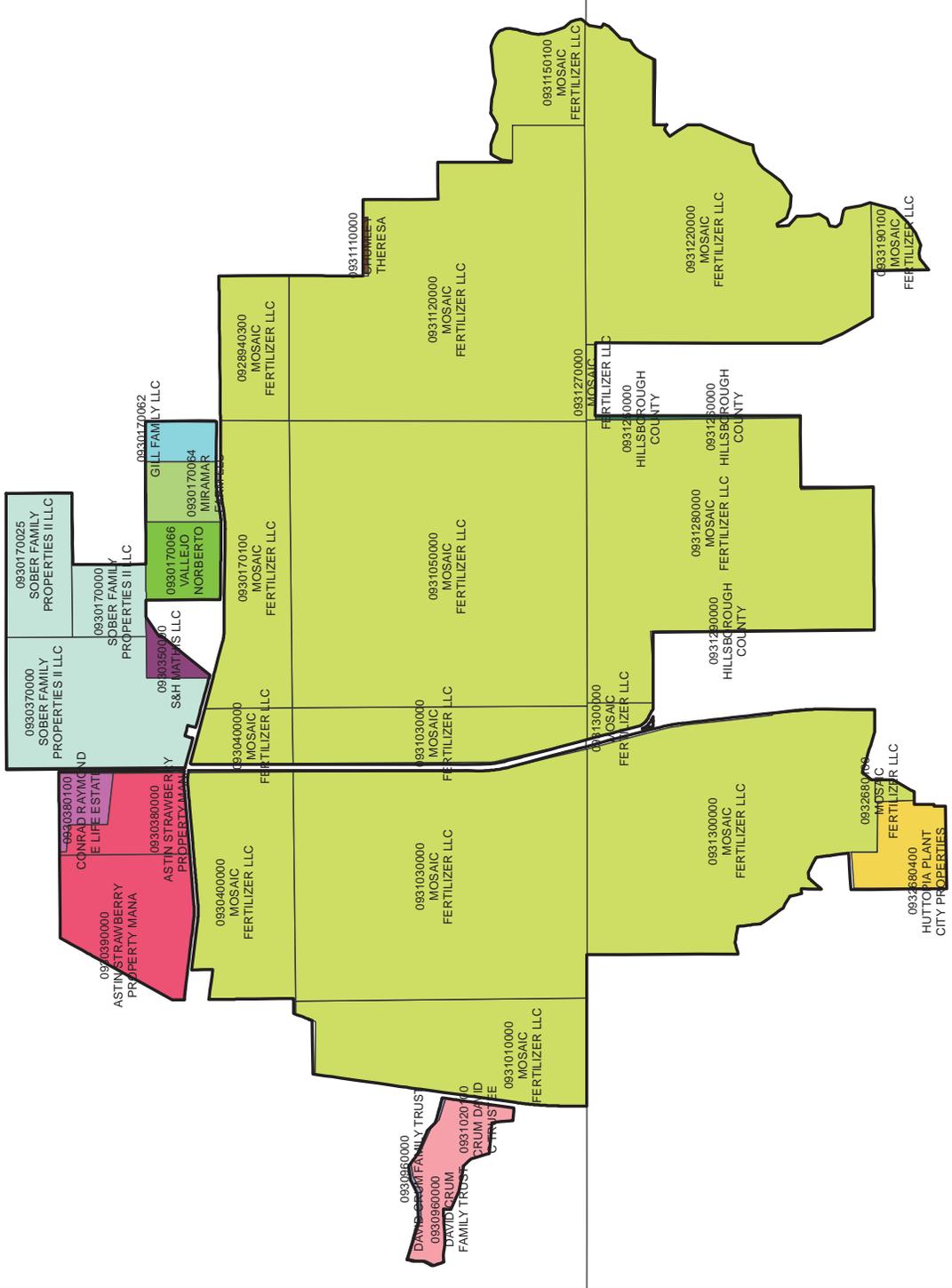
- Boundary
- Township / Range Lines
- Section Lines
- ASTIN STRAWBERRY PROPERTY MANA
- CHUMLEY THERESA
- CONRAD RAYMOND E LIFE ESTATE
- CRUM DAVID C TRUSTEE
- DAVID CRUM FAMILY TRUST
- GILL FAMILY LLC
- HILLSBOROUGH COUNTY
- HUTTOPIA PLANT CITY PROPERTIES
- MIRAMAR FARM LLC
- MOSAIC FERTILIZER LLC
- S&H MATHIS LLC
- SOBER FAMILY PROPERTIES II LLC
- VALLEJO NORBERTO



**HOPEWELL MINE
PROPERTY OWNERS
& FOLIOS**

**2024/2025 HILLSBOROUGH
COUNTY ANNUAL REPORT**

User: kebljib Date: 5/27/2025
Path: G:\projects\2025\2025_0073\maps\Folios_2025.mxd



SECTION 2
REPORT OF OPERATIONS &
FINANCIAL RESPONSIBILITY

MOSAIC FERTILIZER, LLC.
HOPEWELL MINE ANNUAL REPORT
HILLSBOROUGH COUNTY
REPORT OF OPERATIONS TO JUNE 30, 2025

(FOR THE REPORT PERIOD OF JULY 1, 2024 THROUGH JUNE 30, 2025)

Mosaic is submitting the Annual Report for 2024/2025 in accordance with the Hillsborough County Land Development Code (LDC), Section 8.02.09 and 8.02.10B., for review of compliance with mining permit conditions at the Hopewell Mine. This report consists of two sections:

- Summary of mine operations for the report year.
- Summary of 2024/2025 projected mine operations.

Map 1 (attached) shows the areas mined. Map 2 depicts reclamation programs as designated by the FDEP, Map 3 shows waste clay disposal areas, Map 4 is an aerial photograph of the mine site, Map 5 shows reclamation status, and Map 6 show approved Hillsborough County Development Services (HCDS) reclamation releases by LRU and mining unit respectively. The location of the reclaimed Significant Upland Wildlife (SUWH) is shown on Map 7. All maps are provided in Appendix 4.

Table 1 summarizes Mosaic's current financial responsibility as required by the Hillsborough County LDC, Section 8.02.10.

As a result of this report, Mosaic is listing the following MUs (Table 1) and LRUs (Table 2) totaling 2,024.0 acres as formally released by HCDS for this year and previous years as follows:

Table 1

Mining Unit	Total Acres	Released Acres	Unreleased Acres	Final Release Date
*	587	116	471	
HMU 1	240	238	2	
HMU 10	644	25	619	
HMU 2	102	102	0	2016
HMU 3	450	19	431	
HMU 4	68	68	0	Prior to 2006
HMU 5	469	453	16	
HMU 6	104	104	0	2006
HMU 7	153	153	0	6/9/2020
HMU 8	350	351	0	6/9/2020
HMU 9	140	111	29	
HMU8A	643	284	358	
Grand Total	3,950	2,024	1,926	

Fully Released Mining Unit

*Previous Released Areas Outside Mining Units

Table 2

LRU	ACRES	Release Date
IMC-HW-EC(2)	262	Previous Release
IMC-HW-EC(3)	64	Previous Release
IMC-HW-NPA(1)	49	Previous Release
IMC-HW-NPA(6)	107	Previous Release
IMC-HW-NPA(5)	139	Previous Release
IMC-HW-NPA(3)	259	Previous Release
IMC-HW-EC(4)	194	8/13/2019
IMC-HW-EC(7)	517	8/13/2019
IMC-HW-NPA(4)	167	8/13/2019
ND	<0.5	8/13/2019
NOR-H-A	<0.5	8/13/2019
NOR-H-D	4	8/13/2019
IMC-HW-EC(5)	24	6/9/2020
IMC-HW-EC(6)	50	6/9/2020
IMC-HW-NPA(8)	3	6/9/2020
IMC-HW-NPA(7)	175	6/9/2020
IMC-HW-NPA(6)	<0.5	6/9/2020
ND	4	6/9/2020
NOR-H-B	5	6/9/2020
Grand Total	2,024	

Preservation, non-disturbed, and non-mandatory lands are not required to be released by FDEP, however Mosaic requests release of these areas from Hillsborough County if they are located within a Mining Unit (MU). These areas are not a part of FDEP's Logical Reclamation Units (LRU) or Reclamation Parcels (RP); however, sometimes they are located within MUs and adjacent to LRU/RP boundaries and meet the criteria for release from Hillsborough County. A map exhibiting all previous approved reclamation releases to date and areas that are eligible for release this reporting year is included in Appendix 4.

A check will be made payable to Hillsborough County Board of Commissioners in the amount required by the Hillsborough County LDC. This amount will conform to the Hillsborough County fee schedule and include the Environmental Protection Commission fee for annual report review and bi-monthly inspections.

Respectfully submitted,
Mosaic Fertilizer, LLC

SUMMARY OF 2024/2025 MINE OPERATIONS

Final mining for the Hopewell mine was completed on January 16, 2011. As such, there have been no additional acres mined since that time and all mining at Hopewell is complete. The plant site demolition was completed in November/December 2011, and all product removal from the plant stockpile was completed in April 2012. The plant site and stockpile areas have been contoured and grassed as of June 2012.

MONITORING:

Environmental monitoring has proceeded as required by Hopewell Operating Permit and the Hillsborough County LDC, (see Appendix 6).

RECLAMATION:

All initial reclamation activities (initial land contouring, ditch and berm removal, connections to waters of the state, initial planting, etc.) has been completed and all reclamation is in the development stage or has been released. The following ongoing supplemental reclamation activities occurred during this reporting period (Jul 1, 2024-Jun 30, 2025):

SUPPLEMENTAL WETLAND PLANTING PROGRESS

No supplemental plantings took place in the past year.

RECLAMATION OF SIGNIFICANT UPLAND WILDLIFE HABITAT

Hopewell Mining Unit 9 was approved by the Hillsborough County Board of County Commissioners (BOCC) on August 26, 2003 (application number 202.01P). Condition number 2 of the approval references reclamation of significant upland habitat to be constructed within MU 8A (S34 and 35; T29S; R22E), see Map 7.

This 4.0-acre site was constructed by use of direct topsoil relocation in 2005. The site was initially planted in September 2005 and due to the prolonged drought conditions, supplemental planting was performed in September 2008, 2009, and 2010. The nineteenth annual quantitative monitoring report was completed in August 2024 (see Appendix 5). Several of the success criteria have been met within the Hopewell Mine SUWH. Total desirable vegetative cover, not including exotic and nuisance species, is 57.8%, and (6) six tree and shrub species listed in the tree, shrub, and herbaceous tables were observed. Nuisance species cover is at 8.0 % observed, and bare ground and leaf litter accounted for 2.0 % of the total cover. Maintenance will continue to assure that nuisance/exotic species remain below the 10% specified in the permit. The permit criterion requiring a minimum of 80% relative cover by species listed in the tree, shrub, and herbaceous tables is currently at 57.8%. This area was last inspected by the County on May 18, 2018.

To maintain the nuisance/exotic cover, Mosaic will schedule an herbicide event as needed. Mosaic will evaluate the need for a supplemental planting to target the diversity requirements of the permit. Mosaic is requesting a meeting with the Hillsborough County Senior Environmental Scientist to review the site in the field. We look forward to the opportunity to work with the County, as we move forward.

REQUEST FOR MINE UNIT RECLAMATION RELEASE

Hillsborough County and Mosaic are working to clarify the location and amount of acreage identified as released by Hillsborough County identified in this AR. Mosaic will request reclamation releases outside of the annual report period (Spring and Fall).

SUMMARY OF 2025/2026 PROJECTED RECLAMATION OPERATIONS

The following ongoing reclamation activities that are expected to occur during 2025/2026 are routine monitoring and maintenance and supplemental plantings as needed. Repair of wetland connection areas as needed.

SUMMARY OF DEVELOPMENT ORDER CONDITIONS

IV. Specific Conditions

2. This operating permit shall remain in effect for a period of thirty-five (35) years from and after the date of its issuance provided that this term may be extended by the Board upon finding of excusable delay in any proposed mining or reclamation activity.

During this reporting period, the mine operated as approved. As mentioned previously in this report, all mining ceased at the Hopewell Mine on January 16, 2011. Resolution Number R06-249 extended the operating permit by a period of five (5) years, to June 23, 2018. No mining operations are ongoing at this mine site and all initial reclamation activities have been completed.

3. Consumptive use of water shall not exceed a combined average annual withdrawal of 3,082,000 gallons of water per day with a maximum combined withdrawal rate not to exceed 5,624,000 gallons during a single day, in accordance with SWFWMD Water Use Permit.

The average annual withdrawal during this report period was 0 gallons of water per day.

5. Per approved Resolution Number R06-249, the area to be mined shall not exceed three thousand fifty (3,050) acres.

The cumulative acres mined at the end of this reporting period was 2,526 acres. Again, Hopewell mining was completed in January 2011.

6. The cumulative average of the area mined shall not exceed one hundred (100) acres per year and the total acres mined in any one year shall not exceed one hundred twenty-five (125) acres.

During the life of the Hopewell Mine, the cumulative average of area mined was approximately 95 acres per year. All yearly totals were under or met the 125-acre annual mining limitation.

13. The total area of settlement ponds and associated dams shall not exceed one thousand six hundred (1,600) acres and the “effective” pond area (within the centerline of the dam) shall not exceed one thousand three hundred sixty (1,360) acres.

Clay Settling Areas HL-1, HL-2, HL-3, and HL-4 (Map 3) have a total area of approximately 1,215 acres and a total effective flooded area of 1,060 acres. Reclamation activities for the HL-1, HL-2, and HL-4 clay settling areas are complete and have received FDEP release. Reclamation of HL-3 was completed in April 2016, and abandonment was obtained from the FDEP Industrial Wastewater Group. Reclamation release for HL-3 has not yet been obtained from FDEP.

17. As amended by the BOCC on March 12, 2002, Hopewell Mine can ship phosphate product by either rail or truck pursuant to Resolution #R02-042 approving Personal Appearance PRS #01-0009 and the Phosphate Mining Application #1000.13P amending the General Site Plan (CU 82-223) and the Operating Permit #82-1.

Since all mining has now ceased at the Hopewell Mine, there was no product shipped from the mine during this reporting period.

**ESTIMATED FINANCIAL RESPONSIBILITY
MOSAIC FERTILIZER, LLC
HOPEWELL MINE
REPORTING PERIOD
JULY 1, 2024 TO JUNE 30, 2025**

A. Estimated Financial Responsibility Prior to July 1, 2025

I. Areas Mined and Reclaimed through Permanent Revegetation:

a. Lands Mined							
				2526.0 ac.			
Lands Mined Released (by FDEP)				(1,928.6) ac.			
Lands Reclaimed through Revegetation - Not Released (b, c and d)				(608.0) ac.			
Settling Areas on Unmined Lands/Pre-1975 Mined Areas(*)				550.0 ac.			
				539.4 ac.			
539.40	x	\$7,460					\$4,023,924
b. Reclamation Complete through Permanent Revegetation (Less EPC Mitigation) and in One-Year Establishment (Mined Only)							
0	x	5% (**) of \$7460 = \$373					0
c. Reclamation Complete Beyond One Year Establishment Period (Mined Only)							
582.4	x	\$0					0
(25.6)			(Less EPC Mitigation)				
d. Financial Responsibility for EPC Wetland Mitigation - Constructed and Not Released (***)							
1.) Constructed and Not Released		25.6	x	\$7,460			\$190,976
2.) Mitigation to be Constructed		0	x	\$7,460			\$0

ESTIMATED TOTAL LIABILITY THROUGH JULY 1, 2025 \$4,214,900

II. Largest Capacity Clay Settling Area is Included in the Hillsborough County Mines Financial Responsibility

B. Estimated Financial Responsibility July 1, 2024 to June 30, 2025 (****)

I. Area to be Mined (Projected Mining):

0	x	\$7,460 (*****)					\$0
---	---	-----------------	--	--	--	--	-----

ESTIMATED TOTAL LIABILITY THROUGH JUNE 30, 2025 \$4,214,900

(*) INCLUDES UNMINED AREAS OR NON-MANDATORY AREAS UNDER CLAY SETTLING AREAS.

(**) 5% AS DESCRIBED IN LDC Sec. 8.02.10.C.1.a

(***) 219.2 ACRES OF EPC MITIGATION WITHIN LANDS MINED

(****) ALL HOPEWELL MINING CEASED ON JANUARY 16, 2011

(*****) \$7,460 PER ACRE AS CALCULATED BY DECEMBER WEEK 1 2024 0.9% COST CONSTRUCTION INDEX PERCENT CHANGE

*2023/2024 COST PER ACRE OF \$7,393

Hopewell Mine
2024/2025 Mining Summary

MINE	MINED (acres)	UNMINED COVERED		TOTAL
		BY CSA (acres)	TOTAL	
HOP	2526.0	550.0	3076.0	
TOTAL	2526.0	550.0	3076.0	

REVEGETATION SUMMARY

Mine	Reclamation Program	FDEP RELEASED				EPC Wetland Mitigation				RECLAMATION	
		Mined (A)	Dist.	Program Released Total	Other Rel.	Total Required	Constructed		Wetlands Released	1 YR EST (A)	COMPLETE BEYOND
							Not Released [C]	Completed			
HOP	IMC-HW-EC(1) - HMU 3	99.5	41.8	141.3		18.9		18.9		317.3	
	IMC-HW-EC(2) - HMU 5	129.3	132.3	261.6		20.0		20.0		-	
	IMC-HW-EC(3) - HMU 5	15.1	49.0	64.1						-	
	IMC-HW-EC(4) - HMU 8A	92.3	32.8	193.8	68.7	24.6		24.6		-	
	IMC-HW-EC(5) - HMU 8A	55.2	11.2	76.4	10.0	40.0		40.0		99.6	
	IMC-HW-EC(6) - MU 8A/9	214.8	42.2	281.0	24.0	75.2	0.7	74.5		147.0	
	IMC-HW-EC(7) - HMU 3/8/8A	337.4	33.7	516.8	145.7	3.0		3.0		-	
	IMC-HW-NPA(1) - HMU 1	47.9	0.1	48.7	0.7					-	
	IMC-HW-NPA(2) - HMU 1/5	11.0	61.1	508.7	436.6					-	
	IMC-HW-NPA(3) - HMU 2/4	212.3	17.0	258.7	29.4					-	
	IMC-HW-NPA(4) - HMU 2/4	85.8	52.1	167.3	29.4					-	
	IMC-HW-NPA(5) - HMU 5	90.5	25.7	138.6	22.4	8.8		8.8		-	
	IMC-HW-NPA(6) - HMU 5/6	63.7	47.1	110.8		8.1		8.1		-	
	IMC-HW-NPA(7) - HMU 7	130.9	44.4	175.3		17.4		17.4		-	
	IMC-HW-NPA(8) - HMU 10	342.9	87.8	452.6	21.9	3.2	2.0	1.2		18.5	
	HOP TOTAL	1,928.60	678.3	3,395.7	788.8	219.2	2.7	216.5	Reclamation	582.4	

EPC MITIGATION SUMMARY

HOP	Mining Unit	Required Mitigation Located in Unit	Mitigation Released	Under Monitoring	To Be Constr.
	MU 5	28.8	28.8	R	
	MU 6	8.1	8.1	R	
	MU 8, 8A, 9	142.8	119.3	23.6	
	MU 10	2.0	2.0	R	
	HOP TOTAL	219.2	193.7	25.6	

(1) Includes Non-Disturbed acres also.

SECTION 3
RECLAMATION RELEASE STATUS



June 30, 2025

Ms. Kim Cruz
 Environmental Supervisor
 Hillsborough County Environmental Services
 332 N. Falkenburg Road
 Tampa, Florida 33619

Re: Mosaic Fertilizer, LLC, Hopewell Mine; Reclamation Release Status

Dear Ms. Cruz,

Mosaic is listing Logical Reclamation Units (LRUs) (also known as Reclamation Parcels (RP)) that have been formally released by Hillsborough County Development Services. These reclamation releases total 2,024.0 acres of previously mined and/or disturbed land at the Hopewell mine. Hillsborough County and Mosaic are working to clarify the location and amount of acreage identified as released by Hillsborough County identified in this AR. All areas that reside within a Mining Unit (MU) boundary, have been released from FDEP, and certificates of completion have been issued by EPC; with the exception of the preservation, non-disturbed (ND), and non-mandatory (NM) areas which are not required to be released by FDEP. Table 1 below lists the MUs and associated acreages that have been agreed upon by Hillsborough County and Mosaic as released. Table 2 reflects the same information listed by LRUs. Map 6 in Appendix 4 depicts the information provided in the table below.

Table 1

Mining Unit	Total Acres	Released Acres	Unreleased Acres	Final Release Date
*	587	116	471	
HMU 1	240	238	2	
HMU 10	644	25	619	
HMU 2	102	102	0	2016
HMU 3	450	19	431	
HMU 4	68	68	0	Prior to 2006
HMU 5	469	453	16	
HMU 6	104	104	0	2006
HMU 7	153	153	0	6/9/2020
HMU 8	350	351	0	6/9/2020
HMU 9	140	111	29	
HMU8A	643	284	358	
Grand Total	3,950	2,024	1,926	

Fully Released Mining Unit

Table 2

LRU	ACRES	Release Date
IMC-HW-EC(2)	262	Previous Release; UPL 11/1996; WET 3/2004
IMC-HW-EC(3)	64	Previous Release; 11/1996
IMC-HW-NPA(1)	49	Previous Release; 1/1992
IMC-HW-NPA(6)	107	Previous Release; UPL 11/1996; WET 11/2003
IMC-HW-NPA(5)	139	Previous Release; 5/2010
IMC-HW-NPA(3)	259	Previous Release; 7/10/2015
IMC-HW-EC(4)	194	8/13/2019
IMC-HW-EC(7)	517	8/13/2019
IMC-HW-NPA(4)	167	8/13/2019
ND	<0.5	8/13/2019
NOR-H-A	<0.5	8/13/2019
NOR-H-D	4	8/13/2019
IMC-HW-EC(5)	24	6/9/2020
IMC-HW-EC(6)	50	6/9/2020
IMC-HW-NPA(8)	3	6/9/2020
IMC-HW-NPA(7)	175	6/9/2020
IMC-HW-NPA(6)	<0.5	6/9/2020
ND	4	6/9/2020
NOR-H-B	5	6/9/2020
Grand Total	2,024	

Mosaic requests reclamation releases outside of the annual report twice a year in the Spring and the Fall. Once approved by the Hillsborough County Board of County Commissioners (BOCC), these release requests will be recorded in the Annual Reports. No LRUs are pending release or were released by Hillsborough County Development Services in Hopewell Mine this reporting year.

Please contact me if you have any questions or need additional information.

Sincerely,



Laney McGraw
 Mine Permitting Specialist

SECTION 4
MAPS



Legend

- Right of Way
- Township/Range Lines
- Section Lines
- LRU Boundaries
- Mining Unit Boundaries
- Approved Mine Boundary
- Mined Areas - 2,526 AC.

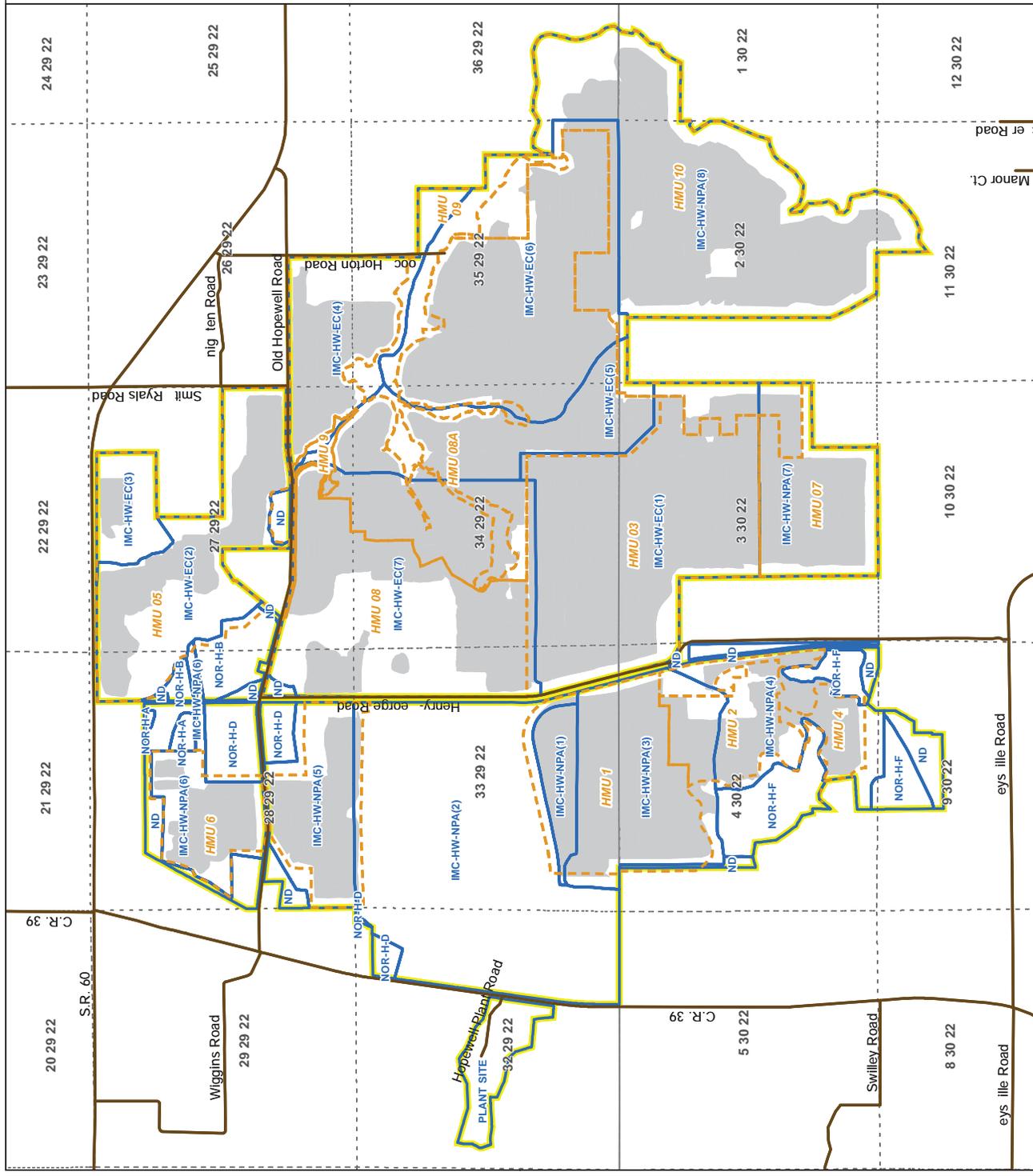
No mining occurred
 July 1 2017 to June 30 2025
 Final mining completed
 January 16 2011



HOPEWELL MINE
MAP 1
PREVIOUS MINING

2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT

Pat User: I:\ate_5/29/2025
 Project: 2025_0072.maps.mapi01_mining.mxd





Legend

- Right of Way
- Township / Range Lines
- Section Lines
- LRU Boundaries
- Mining Unit Boundaries
- Approved Mine Boundary

FDEP Reclamation Programs

- Non-Mandatory
- Reclaimed
- Released
- Uplands Released
- Wetlands Established

IMC-HW-EC(1) and IMC-HW-EC(5)

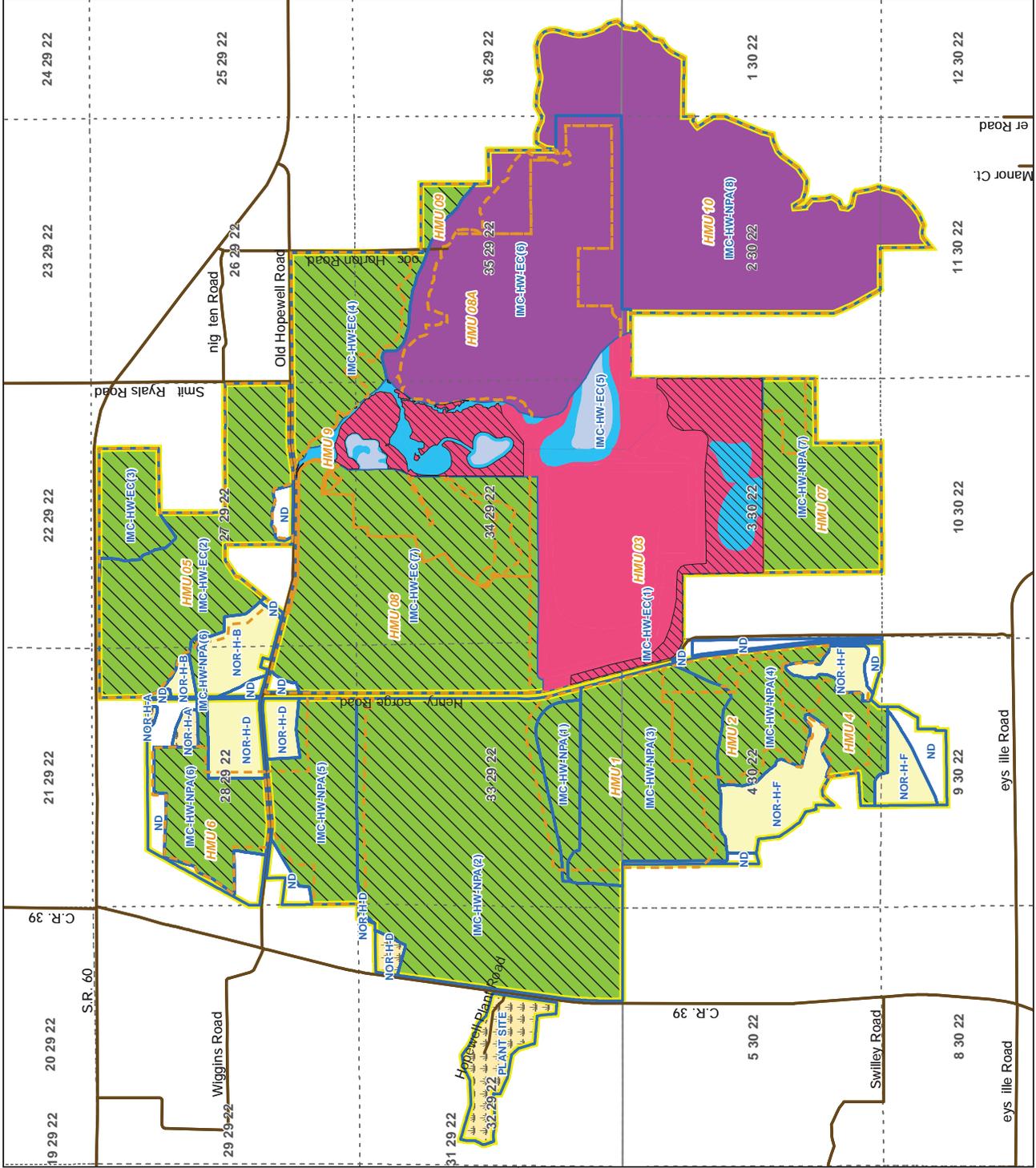
- Wetlands
- Uplands
- Water
- Released



**HOPEWELL MINE
MAP 2
FDEP RECLAMATION
PROGRAMS**

2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT

Patrol Date: 06/18/2025
User: 1
Project: 2025-2025-0073 maps map02_reclamation.mxd





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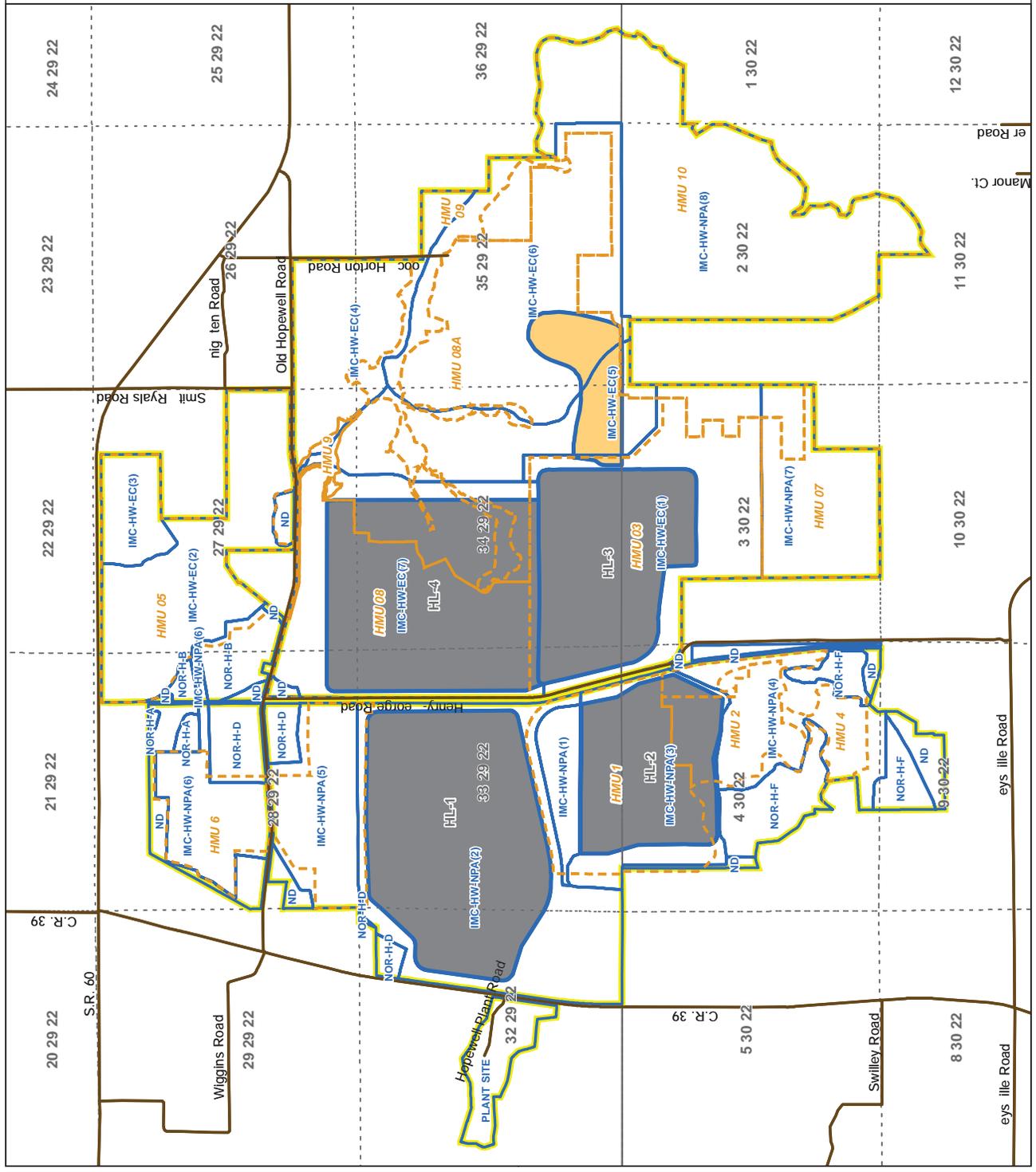
- Right of Way
- Township / Range Lines
- Section Lines
- LRU Boundaries
- Mining Unit Boundaries
- Approved Mine Boundary
- CSA Status**
 - Former stormwater surge pond (reclaimed)
 - Abandoned



HOPEWELL MINE MAP 3 CLAY SETTLEMENT AREAS

2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT

Pat: pro.ecis.2025.2025_0073.maps.map03.csa.m.d
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Legend

- Right of Way
- Township / Range Lines
- Section Lines
- LRU Boundaries
- Mining Unit Boundaries
- Approved Mine Boundary
- Approved Mine Boundary

Aerial Photo Taken: December 2024

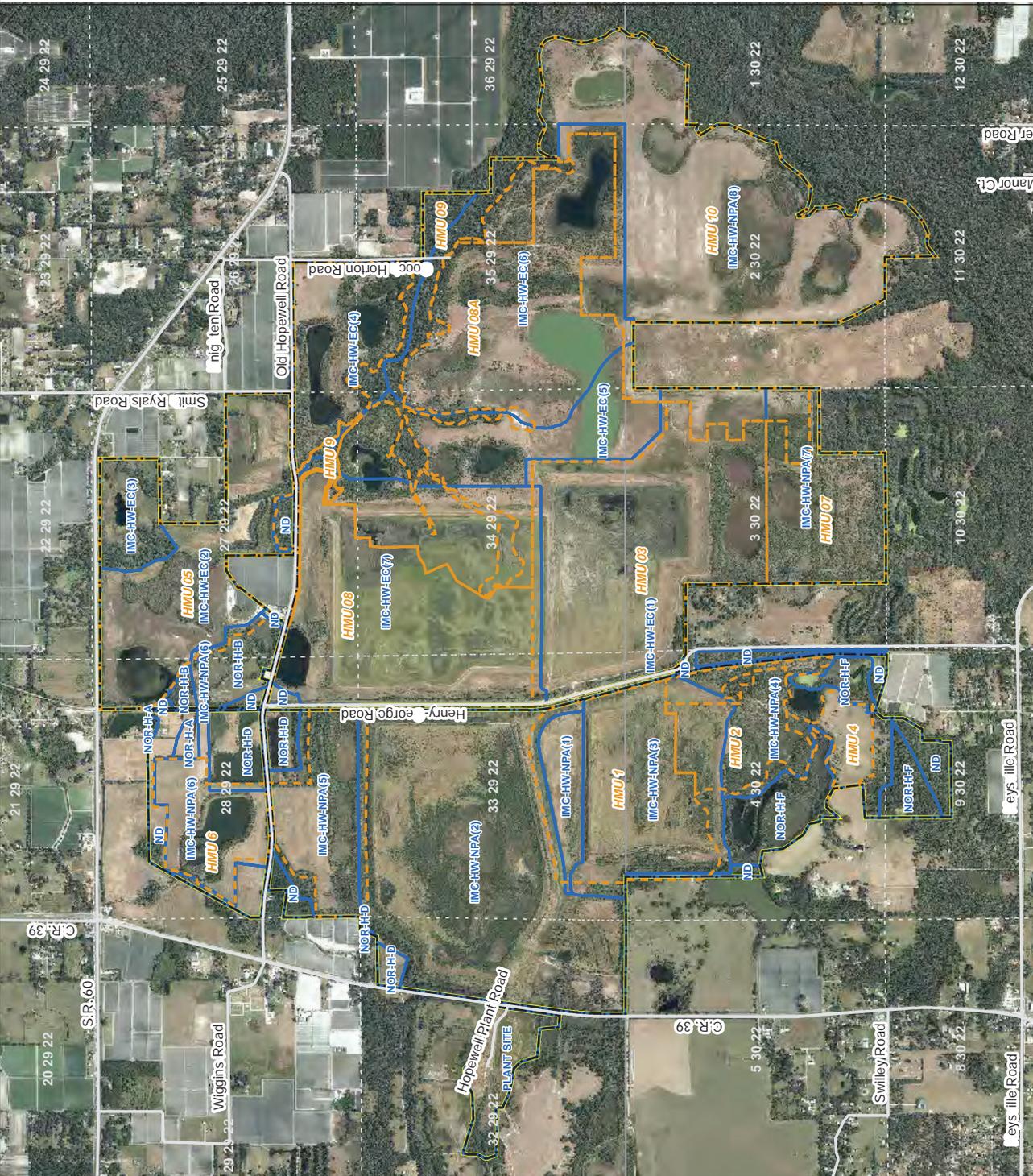


HOPEWELL MINE

**MAP 4
AERIAL PHOTOGRAPH**

2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT

User: I:\ale 5/28/2025
Pat: projects\2025\0073\maps\map04_aerial.mxd





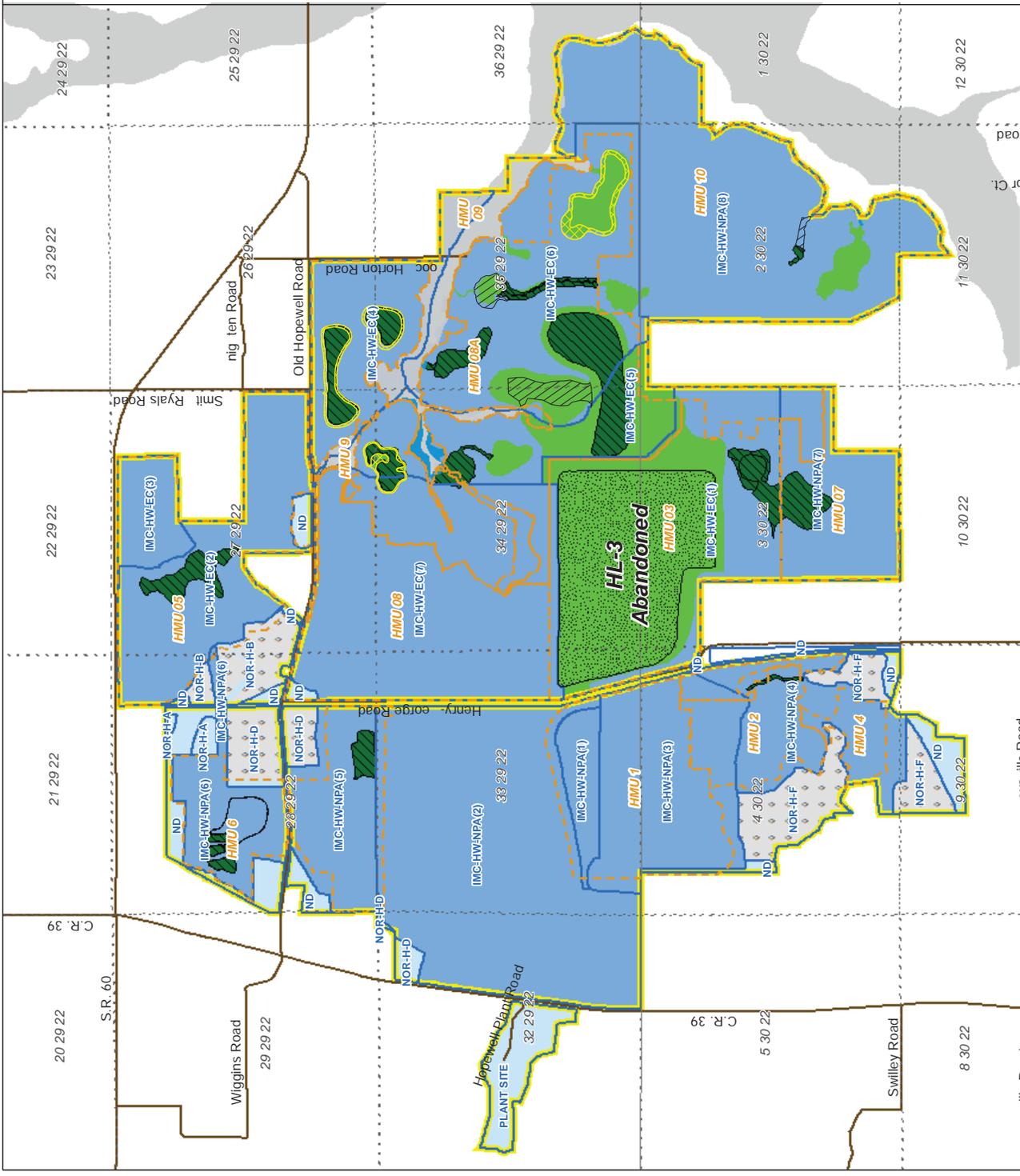
Legend

- EPC Mitigation Not Released
- Future Potential EPC Mitigation (No Release Required)
- HL-3 Settling
- Township / Range Lines
- Section Lines
- Mining Unit Boundaries
- LRU Boundaries
- Right of Way
- Approved Mine Boundary
- Wetlands not disturbed
- EPC Mitigation Constructed Released
- Not Planned or disturbed
- Released by EPC
- Reclamation Complete Beyond One Earliest
- Lands Mined or disturbed Not Reclaimed (Non-Mandatory)
- Hopewell Mine Tract



HOPEWELL MINE
MAP 5
RECLAMATION PROGRESS
2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT

User: 1 Date: 6/18/2025
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HL-3
Abandoned

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Legend

- Mining Unit Boundaries
- LRU Boundaries
- Approved Mine Boundary
- Non-Mandatory no Release Required
- Areas Released by Hillsborough County
- Areas Outside of Mining Units no Release Required

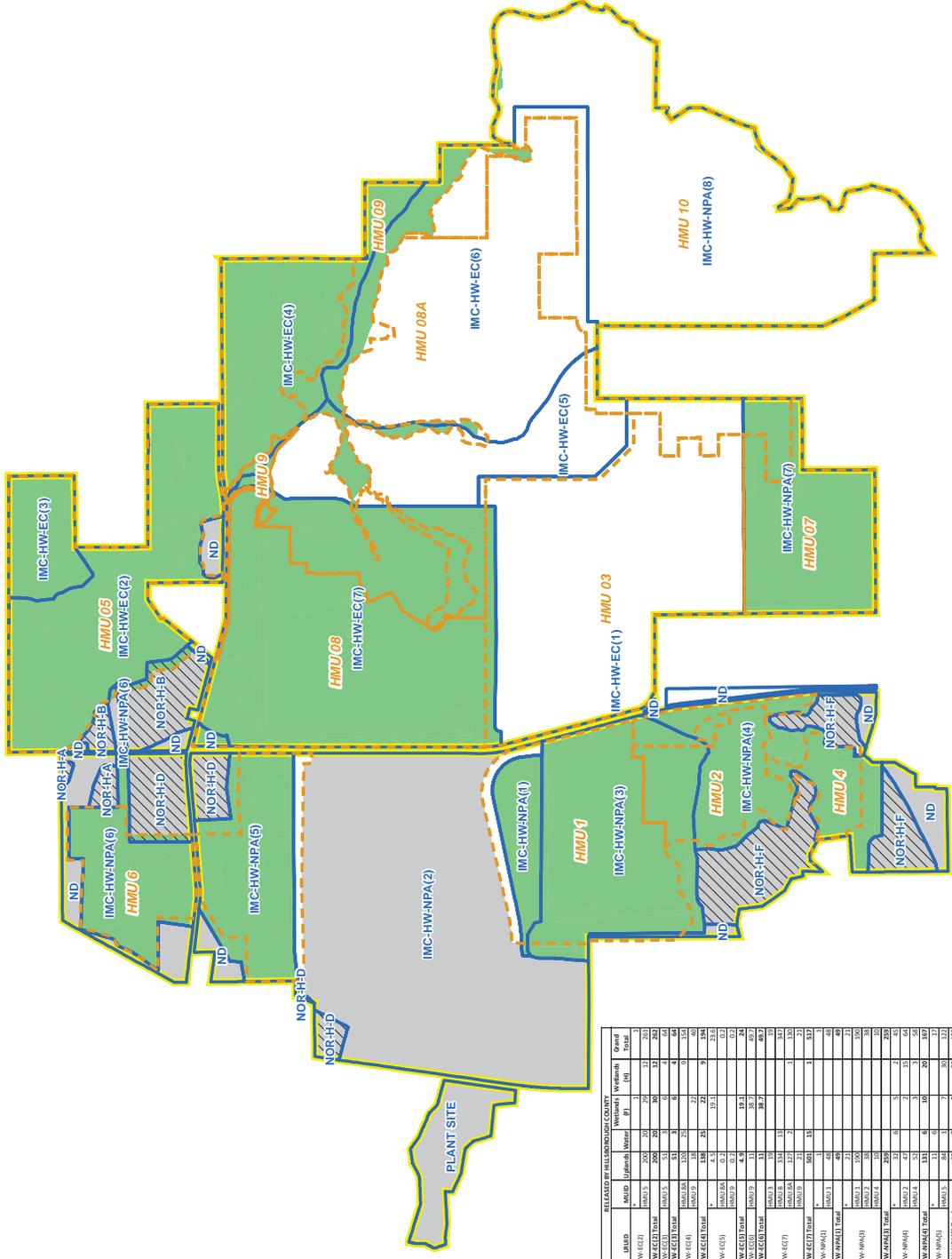


HOPEWELL MINE

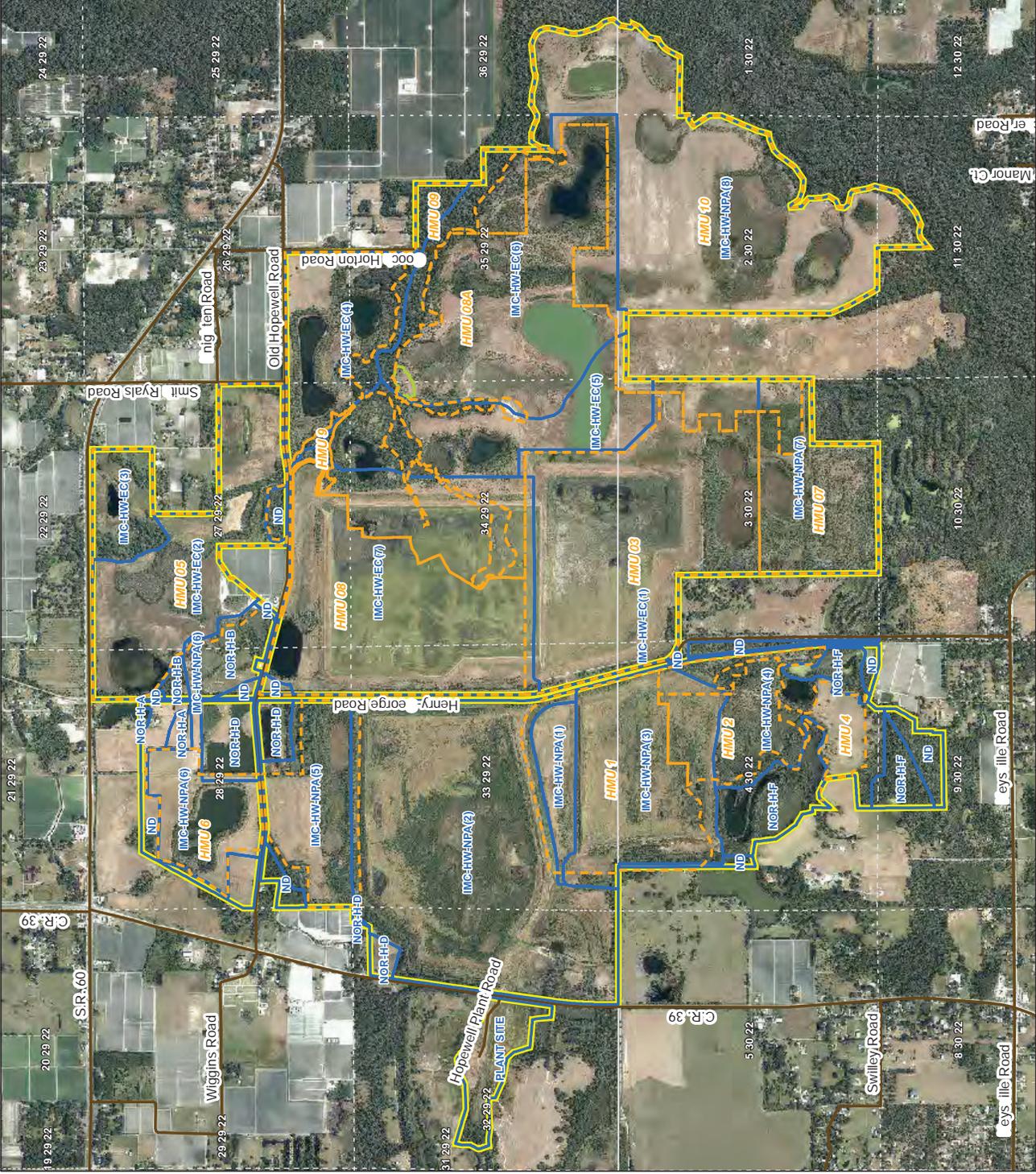
MAP 6

**APPROVED RELEASES
2024/2025 HILLSBOROUGH COUNTY ANNUAL REPORT
LRU PRO RAMS**

User: I:\alle_7/11/2024
 Pat projects_2025_0073 maps map06 releases appro als.mxd



RELEASED BY HILLSBOROUGH COUNTY			
LRU ID	LRU Name	Wentworth	Wentworth
		Released	Not Released
IMC-HW-EC(1)	HMU 01	200	200
IMC-HW-EC(2)	HMU 02	200	200
IMC-HW-EC(3)	HMU 03	200	200
IMC-HW-EC(4)	HMU 04	200	200
IMC-HW-EC(5)	HMU 05	200	200
IMC-HW-EC(6)	HMU 06	200	200
IMC-HW-EC(7)	HMU 07	200	200
IMC-HW-EC(8)	HMU 08	200	200
IMC-HW-EC(9)	HMU 09	200	200
IMC-HW-EC(10)	HMU 10	200	200
IMC-HW-NPA(1)	HMU 01	200	200
IMC-HW-NPA(2)	HMU 02	200	200
IMC-HW-NPA(3)	HMU 03	200	200
IMC-HW-NPA(4)	HMU 04	200	200
IMC-HW-NPA(5)	HMU 05	200	200
IMC-HW-NPA(6)	HMU 06	200	200
IMC-HW-NPA(7)	HMU 07	200	200
IMC-HW-NPA(8)	HMU 08	200	200
IMC-HW-NPA(9)	HMU 09	200	200
IMC-HW-NPA(10)	HMU 10	200	200
NOR-H-F	HMU 01	200	200
NOR-H-F	HMU 02	200	200
NOR-H-F	HMU 03	200	200
NOR-H-F	HMU 04	200	200
NOR-H-F	HMU 05	200	200
NOR-H-F	HMU 06	200	200
NOR-H-F	HMU 07	200	200
NOR-H-F	HMU 08	200	200
NOR-H-F	HMU 09	200	200
NOR-H-F	HMU 10	200	200
ND	HMU 01	200	200
ND	HMU 02	200	200
ND	HMU 03	200	200
ND	HMU 04	200	200
ND	HMU 05	200	200
ND	HMU 06	200	200
ND	HMU 07	200	200
ND	HMU 08	200	200
ND	HMU 09	200	200
ND	HMU 10	200	200
GRAND TOTAL		1864.8	1864.8



Legend

- Right of Way
- Township / Range Lines
- Section Lines
- Mining Unit Boundaries
- LRU Boundaries
- Approved Mine Boundary
- Significant Upland Wildlife Habitat Restoration

for detail see Appendix 5

Aerial Flown: December 2024



**HOPEWELL MINE
MAP 7
SUWH
RESTORATION**

2024/2025 HILLSBORO COUNTY ANNUAL REPORT

SECTION 5
SUWH MONITORING REPORT

HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA

Submitted to:
HILLSBOROUGH COUNTY DEVELOPMENT SERVICES DEPARTMENT

Prepared for:



13830 Circa Crossing Drive
Lithia, FL 33547

Prepared by:



1907 North US Highway 301
Suite 100
Tampa, FL 33619
(KLF #25001597.001A)

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HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA

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HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA

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**HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA**

EXECUTIVE SUMMARY

The nineteenth annual quantitative monitoring event for the Significant Upland Wildlife Habitat (SUWH) was performed on August 6, 2024. Pursuant to The Hillsborough County Development Services Department (HC) permit: PGMD NO. 202.01P, the SUWH reclamation area will be considered successful when the following conditions are met:

<p style="text-align: center;">HC Permit: PGMD NO. 202.01P, PACTS #5924 Success Criteria</p>	<p style="text-align: center;">Current Status of Mitigation Site</p>	<p style="text-align: center;">Success Criteria Demonstrated</p>
<p>The plant species composition of the reclaimed mesic hammock community is similar in species richness and diversity to natural mesic hammocks within the same drainage basin. The diversity of species shall be at least 75% of the total species listed in the tree, shrub, and herbaceous tables (Appendix A). Additionally, there must be at least four species of trees within the canopy (Appendix A).</p>	<p>Percent of Species Listed in Tree, Shrub, and Herbaceous Table: 26/69 = 37.6%</p> <ul style="list-style-type: none"> - Twenty-three of the species listed in Appendix A were located inside the designated transects (including tree, shrub, and herbaceous species). <p>Number of Tree Species: six, all found within the designated transects.</p>	<p style="text-align: center;">No</p> <p style="text-align: center;">Yes (Yr. 14)</p>

**HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA**

EXECUTIVE SUMMARY (Continued)

<p style="text-align: center;">HC Permit: PGMD NO. 202.01P, PACTS #5924 Success Criteria</p>	<p style="text-align: center;">Current Status of Mitigation Site</p>	<p style="text-align: center;">Success Criteria Demonstrated</p>
<p>Vegetative cover is greater than 40% of total cover, bare ground (including leaf litter) is greater than 20%, and at least 80% of the vegetative cover consists of species listed in the tree, shrub, and herbaceous tables (Appendix A).</p>	<p style="text-align: center;">Total Vegetative Cover: 98.0%</p> <p style="text-align: center;">Total Cover of Bare Ground/Leaf Litter: 2.0%</p> <p style="text-align: center;">Relative Percent Cover of Listed Vegetative Species: Combined: 57.8% Herbs: 47.8% Shrubs*: 5.0% Trees*: 5.0%</p>	<p style="text-align: center;">Yes (Yr. 17)</p> <p style="text-align: center;">No</p> <p style="text-align: center;">No</p>
<p>Nuisance species remains below 10% cover, without maintenance, for at least one year.</p>	<p style="text-align: center;">Total Cover of Nuisance Species: 7.9%</p>	<p style="text-align: center;">Yes (Yr. 1)</p>

*Qualitatively estimated during the 2024 monitoring event.

**HOPEWELL MINE
19TH ANNUAL QUANTITATIVE MONITORING REPORT
AUGUST 2024
SIGNIFICANT UPLAND WILDLIFE HABITAT (SUWH)
HC PERMIT: PGMD NO. 202.01P
HILLSBOROUGH COUNTY, FLORIDA**

1.0 INTRODUCTION

This report represents the results for the 2024 quantitative monitoring event for the SUWH, HC Permit: PGMD NO. 202.01P, reclamation project. The Hillsborough County Development Services Department (HC) Permit PGMD No. 202.01P was issued to Mosaic Fertilizer, LLC. The Hopewell Mine SUWH area is located in Section 34 and 35, Township 29 South, Range 22 East, Hillsborough County, Florida (Figure 1).

Significant Upland	Wildlife Habitat	Annual Event	Acreage
SUWH	Mesic Hammock	Nineteenth	4.0
Total			4.0

2.0 CONSTRUCTION SUMMARY

Mining was completed in early 2004. Sand-tailings were pumped into the area for the remainder of 2004 and for part of 2005. Contouring was completed in March of 2005. An approved donor mesic hammock site was selected and the area was burned in preparation for the topsoil removal. The soil and the remaining incinerated organic matter were then transferred to the newly contoured mesic site. A total of 1,200 trees and 3,520 shrubs were planted on September 23, 2005 (Appendix B). A supplemental planting of 7,277 shrubs and herbaceous plants were installed on September 5, 2008. A total of 9,594 herbaceous plants were installed during 2009 and a total of 1,200 trees, 1,600 shrubs, and 1,250 herbaceous plants were installed in 2010. A prescribed burn was conducted May 2015 to help promote native vegetation germination and clear dead leaf litter.

3.0 SUCCESS CRITERIA

Pursuant to the HC Permit No. PGMD NO. 202.01P, the SUWH site shall be considered successful when the following conditions have been met:

- The plant species composition of the reclaimed mesic hammock community is similar in species richness and diversity to natural mesic hammocks within the same drainage basin. The diversity of species shall be at least 75% of the total species listed in the tree, shrub, and herbaceous tables (Appendix A). Additionally, there must be at least four species of tree within the canopy.

- The vegetative cover is greater than 40% of total cover, bare ground (including leaf litter) is greater than 20%, and at least 80% of the vegetative cover consists of the species listed in the tree, shrub, and herbaceous tables (Appendix A).
- Nuisance species remains below 10% cover, without maintenance, for at least one year.

4.0 METHODOLOGY

Vegetative sampling was conducted along two permanent transects within the SUWH site (Figure 2). Transect lengths were 265 and 300 feet. Transect beginning points, intermediate points every 100 feet, and end points were marked with three-meter PVC poles. The data were entered directly into a pocket PC and downloaded onto a computer for analysis.

Taxonomy and nomenclature of species followed Wunderlin and Hansen (2011). Wetland indicator status was assigned pursuant to Section 62-340, Florida Administrative Code (F.A.C.). Species were classified as *nuisance* according to both the Florida Invasive Species Council’s List- Category I and II (FISC, 2023) and the Noxious Weed List per Chapter 5B-57.007, (F.A.C.). Species were classified as *exotic* according to those listed as non-native by The Atlas of Florida Vascular Plants (Wunderlin and Hansen, 2024).

4.1 Photographic Documentation

Photographs were taken at the beginning and end of each transect facing into the site to document the overall appearance of the area. The ID, transect number, and compass bearing were recorded for each photograph.

4.2 Tree/Shrub Sampling

Belt transects were utilized to calculate tree density and consisted of double PVC poles along the length of each transect designating the belt width of approximately 32.8 feet (10 meters). Sub-meter GPS units were utilized to calculate transect length and sample acreage.

Transect ID	Transect Length (ft.)	Acreage (ac)
1	265	0.41
2	300	
Total	565	

Trees and shrubs located within each belt transect were painted with tree paint for identification and monitored to calculate density and condition. Canopy layer species included all planted trees and shrubs greater than 18 inches tall. Trees under 18 inches tall were also noted but were not included in tree density calculations.

Additional tree and shrub species observed outside the designated transects were identified and recorded if rooted within the boundaries of the SUWH site, but they were not included in density calculations.

4.3 Herbaceous Sampling

To facilitate an intensive, accurate, and repeatable sampling program, the “line strip” elongated quadrat technique was utilized (Bonham, 1989). A series of 10.76 ft² (1m²) quadrats were established every 50 feet on each transect, with the number of quadrats being dependent on transect length.

Ground stratum is defined as all herbaceous species and those woody species that are shorter than 18 inches. Ground stratum was sampled by recording the estimated percent cover of each species. Creeping and matting vegetation was included if the shoots were rooted within the reclaimed area. Data for all quadrats were combined to determine dominant (most abundant) and subdominant (total cover ≥ 5%) species.

Herbaceous cover of each species was determined with the following formula:

$$\text{Average Percent Cover} = \frac{\text{Total Cover of Species } A}{\text{Total \# of Quadrats in Sample Area}}$$

Total percent cover of all herbaceous species was determined with the following formula:

$$\text{Total Percent Cover} = \sum \text{Average Percent Cover of All Species}$$

The percent of total species listed in the tables of desirable species was determined with the following formula:

$$\text{Percent of Species} = \frac{\text{Number of Listed Species in Transects}}{\text{Number of Species Listed in Tables A-C}} \times 100$$

Additional herbaceous species observed outside of the designated sampling quadrats were identified and recorded as additional species if rooted within the boundaries of the SUWH site.

4.4 Wildlife Utilization

Wildlife species observed during the monitoring event were identified. Evidence of wildlife, including tracks, calls, and scat were also recorded.

5.0 RESULTS AND DISCUSSION

Quantitative monitoring at the SUWH site was conducted on August 6, 2024, by Kleinfelder ecologists Lauren Leach and Tyler Nevins. Weather conditions were partially cloudy with temperatures in the low 90s (° Fahrenheit).

5.1 Photographic Documentation

Photographs were taken at the beginning and end of each transect and are presented in Appendix C.

5.2 Trees and Shrubs

Five tree species and three shrub species were recorded within the belt transects (Table 1) for a total of 38 individual trees and shrubs. The dominant species was saw palmetto (*Serenoa repens*), which made up 47.4% of the total trees and shrubs observed within the two transects. All species recorded are found in the Desirable Tree, Shrub, and Herbaceous Species Tables in Appendix A.

5.3 Herbaceous Vegetation

Twenty-nine herbaceous species were recorded within the sampling area in the SUWH (Table 2). Total herbaceous species cover was 98.0%. Of the 43 herbaceous species listed in the Desirable Tree, Shrub, and Herbaceous Species Tables (Appendix A – Table C), fifteen were observed within the SUWH sample quadrats. These fifteen species accounted for 46.9% of the total cover and 47.8% of the relative cover.

The most abundant species was watergrass (*Bulbostylis barbata*) with 22.7% cover. The dominant desirable species that were listed in the Desirable Tree, Shrub, and Herbaceous Species Table were broomsedge (*Andropogon virginicus*) with 10.4% cover and southern crabgrass (*Digitaria ciliaris*) with 7.9% cover. The subdominant species were pinebarren flatsedge (*Cyperus ovatus*; 6.3%), natal grass (*Melinis repens*; 6.3%) and purple lovegrass (*Eragrostis spectabilis*; 5.0) (Table 3). Nine desirable herbaceous species that were listed in the Desirable Tree, Shrub, and Herbaceous Species Table were recorded or observed reproducing naturally within the wetland (Tables 3 and 4).

Eight native herbaceous species were recorded that were not listed in the Desirable Tree, Shrub, and Herbaceous Species Tables. These species accounted for 17.1% of the total cover. The dominant species was poor joe (*Diodia teres*) with 4.8% total cover (Table 3).

Three exotic species were recorded within the sampling quadrats and accounted for 26.1% of the total cover. The most abundant exotic species was watergrass with 22.7% total cover (Table 3).

Three nuisance species were recorded within the sampling quadrats accounting for 7.9% of the total cover. The most abundant nuisance species was natal grass (*Melinis repens*) with 6.3% total cover (Table 3).

Bare ground and leaf litter accounted for 2.1% of the total cover.

5.4 Additional Species

Thirteen additional species were observed within the SUWH (Table 4), including three species found in the Desirable Tree, Shrub, and Herbaceous Species Tables (Appendix A – Table C), eight species not listed in the Desirable Tree, Shrub, and Herbaceous Species Tables, and two exotic species.

5.5 Wildlife Utilization

Twenty-nine wildlife species have been observed at the Hopewell Mine SUWH since the baseline survey. Three wildlife species were observed during the current monitoring event, including one reptile and two bird species that had been previously observed (Table 5).

6.0 PROBLEM AREAS

The SUWH did not meet success criteria for the required 75% species diversity, 20% relative bare ground cover, nor 80% relative cover of desirable herbaceous species.

A qualitative survey was conducted concurrently with the quantitative monitoring event and appeared consistent overall with the quantitative data.

REFERENCE LITERATURE

- Bonham, Charles D. 1989. Measurements for Terrestrial Vegetation. John Wiley & Sons, Inc. U.S.A. 338 pp.
- FISC. 2023. List of Invasive Plant Species. Florida Invasive Species Council. (http://bugwoodcloud.org/CDN/FISC/plantlists/2019/2019_Plant_List_ABSOLUTE_FINAL.pdf).
- FWC - Florida Fish and Wildlife Conservation Commission; Official Lists of Florida's Endangered Species, Threatened Species, and Species of Special Concern (Ch. 68A-27 F.A.C.; updated 05/2023).
- FWS - U.S. Fish and Wildlife Service status, Official lists of Threatened and Endangered species updated through the FWS web site - last updated on 08/05/2024.
- Wunderlin, Richard P and Bruce F. Hansen. 2011. Guide to the Vascular Plants of Central Florida. University Presses of Florida. Gainesville, Florida. 783 pp.
- Wunderlin, R. P., and B. F. Hansen. 2024. *Atlas of Florida Vascular Plants* (<http://www.plantatlas.usf.edu>). [S. M. Landry and K. N. Campbell (application development), Florida Center for Community Design and Research.] Institute for Systematic Botany, University of South Florida, Tampa.

FIGURES

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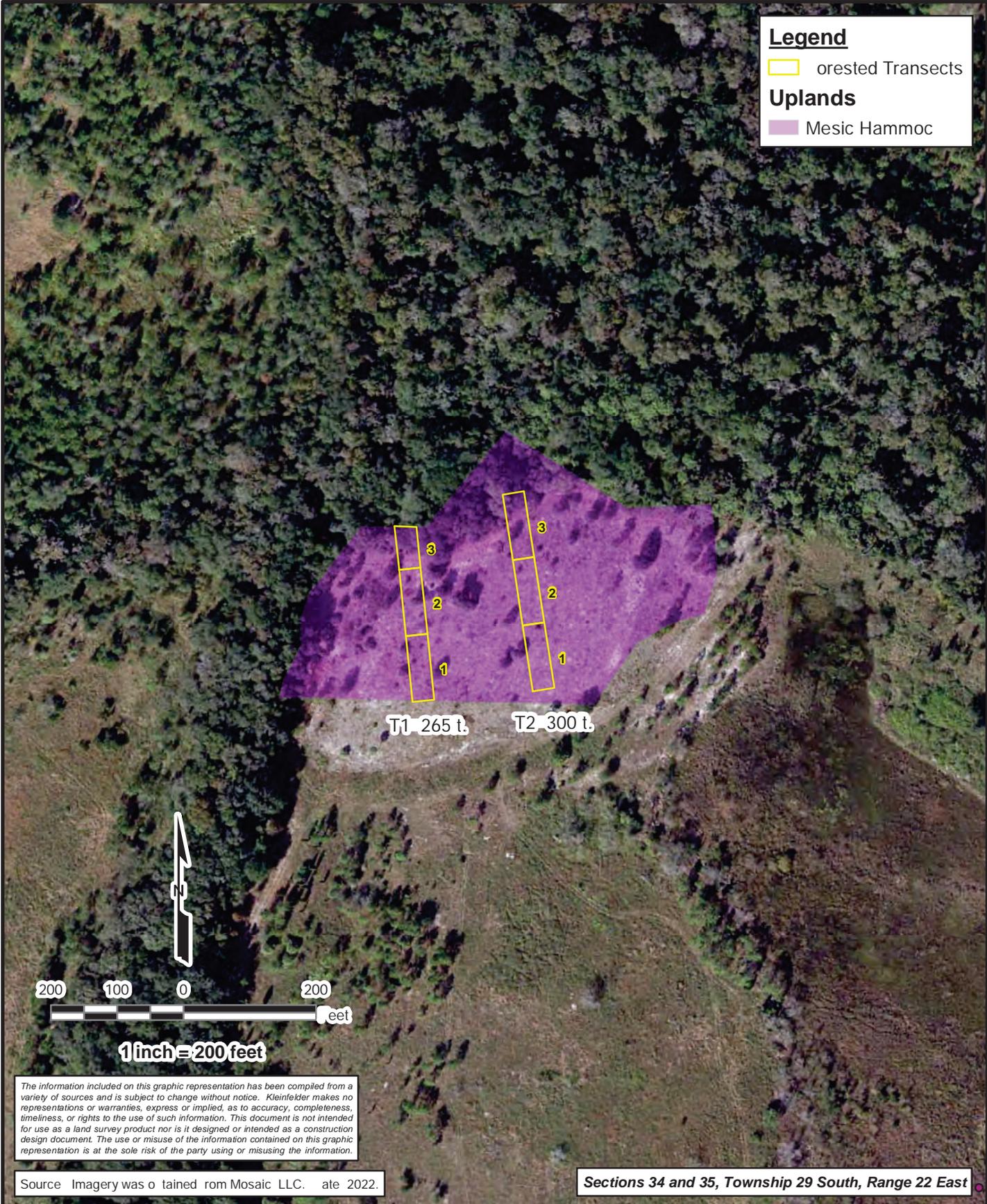


<p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO.	20221026.004A	<p>Project Location Map</p>	<p>FIGURE</p> <p>1</p>
	RAWN	9/7/2021		
	RAWN B	SCL	<p>Mosaic Fertilizer, LLC. Hopewell Mine Significant Upland Wildlife Habitat (SUWH) EPCHC Permit #202.01P Hillsborough County, Florida</p>	
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Legend

- orested Transects
- Uplands**
- Mesic Hammoc



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Source Imagery was obtained from Mosaic LLC. Date 2022.

Sections 34 and 35, Township 29 South, Range 22 East

 <p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO. 20221026.004A	Transect Location Map	I D NUMBER 2
	RAWN 10/7/2022		
	RAWN B R	Mosaic Fertilizer, LLC. Hopewell Mine Significant Upland Wildlife Habitat (SUWH) EPCHC Permit #202.01P Hillsborough County, Florida	
	CHECKED BY EM		
FILE NAME HOP SUWH fig1 EPCHC.mxd			

TABLES

**TABLE 1: TREE AND SHRUB DATA BY SPECIES
 19TH ANNUAL QUANTITATIVE MONITORING SURVEY
 SIGNIFICANT UPLAND WILDLIFE HABITAT
 AUGUST 2024**

SCIENTIFIC NAME	COMMON NAME	EPCHC STATUS	TOTAL TREES AND SHRUBS
Tree and Shrub Species Listed in Tables¹			
<i>Serenoa repens</i>	Saw palmetto	UPL	18
<i>Sabal palmetto</i>	Cabbage palm	FAC	8
<i>Quercus virginiana</i>	Live oak	UPL	4
<i>Myrica cerifera</i>	Wax myrtle	FAC	3
<i>Quercus nigra</i>	Water oak	FACW	2
<i>Pinus palustris</i>	Longleaf pine	UPL	1
<i>Pinus elliottii</i>	Slash pine	UPL	1
<i>Callicarpa americana</i>	American beauty-berry	UPL	1
Total Trees and Shrubs Listed in Tables			38
TOTAL TREES AND SHRUBS			38

¹Appendix A - Desirable Tree, Shrub, and Herbaceous Species Tables

**TABLE 2: SUMMARY OF HERBACEOUS SPECIES COVER
 19TH ANNUAL QUANTITATIVE MONITORING SURVEY
 SIGNIFICANT UPLAND WILDLIFE HABITAT
 AUGUST 2024**

SPECIES CLASSIFICATION	NUMBER OF SPECIES	TOTAL PERCENT COVER	RELATIVE PERCENT COVER
Total Herbaceous Cover	29	98.0	100.0
Desirable Herbaceous Species Listed in Tables ¹	15	46.9	47.8
Other Native Species not Listed in Tables ¹	8	17.1	17.6
Exotic Species	3	26.1	26.6
Nuisance Species	3	7.9	8.0
Total Bare Ground/Dead Litter	-	2	-

¹Appendix A - Desirable Tree, Shrub, and Herbaceous Species Tables

TABLE 3: HERBACEOUS COVER BY SPECIES
19TH ANNUAL QUANTITATIVE MONITORING SURVEY
SIGNIFICANT UPLAND WILDLIFE HABITAT
AUGUST 2024

SCIENTIFIC NAME	COMMON NAME	EPCHC STATUS	FRUIT OR FLOWER	TOTAL PERCENT COVER	RELATIVE PERCENT COVER
Desirable Herbaceous Species Listed in Tables¹					
<i>Andropogon virginicus</i>	Broomsedge	FAC		10.4	10.7
<i>Digitaria ciliaris</i>	Southern crabgrass	UPL	‡	7.9	8.1
<i>Cyperus ovatus</i>	Pinebarren flatsedge	FAC	‡	6.3	6.4
<i>Eragrostis spectabilis</i>	Purple lovegrass	FAC		5.0	5.1
<i>Paspalum setaceum</i>	Thin paspalum	FAC	‡	3.5	3.7
<i>Bidens alba (synonym B. pilosa)</i>	White beggar-ticks	FAC		2.1	2.1
<i>Eustachys petraea</i>	Rock fingergrass	FAC	‡	2.1	2.1
<i>Galactia elliotii</i>	Milkpea	UPL		2.1	2.1
<i>Vitis rotundifolia</i>	Muscadine grape	-		2.1	2.1
<i>Polypremum procumbens</i>	Rustweed	FAC	‡	1.8	1.8
<i>Crocianthemum corymbosum</i>	Pinebarren frostweed	UPL		1.3	1.3
<i>Dichantherium portoricense</i>	Hemlock witchgrass	UPL	‡	0.8	0.8
<i>Euphorbia graminea</i>	Grassleaf spurge	UPL		0.8	0.8
<i>Opuntia humifusa</i>	Pricklypear	UPL		0.4	0.4
<i>Chamaecrista nictitans</i>	Wild sensitive plant	UPL		0.3	0.3
Total Cover of Desirable Herbaceous Species Listed in Tables			(6)	46.9	47.8
Other Native Species Not Listed in Tables¹					
<i>Diodia teres</i>	Poor joe	UPL	‡	4.6	4.8
<i>Conyza canadensis</i>	Dwarf horseweed	UPL		4.1	4.2
<i>Croton michauxii</i>	Rushfoil	UPL	‡	2.9	3.0
<i>Smilax bona-nox</i>	Saw greenbrier	-		2.8	2.9
<i>Croton glandulosus</i>	Vente conmigo	UPL	‡	1.2	1.2
<i>Cenchrus spinifex</i>	Coastal sandbur	UPL		0.8	0.8
<i>Gelsemium sempervirens</i>	Yellow jessamine	-		0.4	0.4
<i>Commelina diffusa</i>	Dayflower	FACW	‡	0.3	0.3
Total Cover of Other Native Species Not Listed in Tables¹			(4)	17.1	17.6
Exotic Species					
<i>Bulbostylis barbata</i>	Watergrass	UPL	‡	22.7	23.2
<i>Hyptis verticillata</i>	John Charles	UPL	‡	1.7	1.7
<i>Richardia brasiliensis</i>	Richardia	UPL	‡	1.7	1.7
Total Cover of Exotic Species			(3)	26.1	26.6
Nuisance Species					
<i>Melinis repens</i>	Natalgrass	UPL	‡	6.3	6.4
<i>Praxelis clematidea</i>	Praxelis	UPL	‡	0.8	0.8
<i>Urena lobata</i>	Caesarweed	UPL		0.8	0.8
Total Cover of Nuisance Species			(2)	7.9	8.0
Total Tree, Shrub, and Herbaceous Cover			15	98.0	100.0
Total Bare Ground/Dead Litter				2	-

¹Appendix A - Desirable Tree, Shrub, and Herbaceous Species Tables

**TABLE 4: ADDITIONAL SPECIES
19TH ANNUAL QUANTITATIVE MONITORING SURVEY
SIGNIFICANT UPLAND WILDLIFE HABITAT
AUGUST 2024**

SCIENTIFIC NAME	COMMON NAME	FRUIT OR FLOWER	EPCHC STATUS
Desirable Species Listed in Tables¹			
<i>Coreopsis leavenworthii</i>	Leavenworth's tickseed	‡	FACW
<i>Panicum hemitomon</i>	Maidencane	‡	OBL
<i>Scoparia dulcis</i>	Licorice weed	‡	FAC
Other Native Species Not Listed in Tables¹			
<i>Abutilon theophrasti</i>	Velvetleaf	‡	UPL
<i>Ambrosia artemisiifolia</i>	Common ragweed		UPL
<i>Eupatorium capillifolium</i>	Dogfennel		FAC
<i>Heterotheca subaxillaris</i>	Camphorweed	‡	UPL
<i>Indigofera hirsuta</i>	Hairy indigo		UPL
<i>Portulaca pilosa</i>	Pink purslane	‡	UPL
<i>Sida rhombifolia</i>	Indian hemp		UPL
<i>Sporobolus indicus</i>	Smutgrass	‡	UPL
Exotic Species			
<i>Lygodium japonicum</i>	Japanese climbing fern		-
<i>Spermacoce verticillata</i>	Shrubby false buttonweed	‡	UPL
Total Additional Species		8	13
Total Additional Desirable Species Listed in Tables		3	3
Total Additional Desirable Species Not Listed in Tables		4	8
Total Additional Exotic Species		1	2

¹Appendix A - Desirable Tree, Shrub, and Herbaceous Species Tables

**TABLE 5: WILDLIFE UTILIZATION
19TH ANNUAL QUANTITATIVE MONITORING SURVEY
SIGNIFICANT UPLAND WILDLIFE HABITAT
AUGUST 2024**

SCIENTIFIC NAME	COMMON NAME	FWC STATUS ¹	FWS STATUS ²	OBSERVANCE
AVIAN				
<i>Ardea alba</i>	Great egret	-	-	
<i>Baeolophus bicolor</i>	Tufted titmouse	-	-	
<i>Buteo lineatus</i>	Red-shouldered hawk	-	-	**
<i>Cardinalis cardinalis</i>	Northern cardinal	-	-	
<i>Cathartes aura</i>	Turkey vulture	-	-	**
<i>Charadrius vociferus</i>	Killdeer	-	-	
<i>Colinus virginianus</i>	Northern bobwhite	-	-	
<i>Columbina passerina</i>	Common ground dove	-	-	
<i>Coragyps atratus</i>	Black vulture	-	-	
<i>Cyanocitta cristata</i>	Blue jay	-	-	
<i>Eudocimus albus</i>	White ibis	-	-	
<i>Falco sparverius</i>	American kestrel	-	-	
<i>Melanerpes carolinus</i>	Red-bellied woodpecker	-	-	
<i>Mimus polyglottos</i>	Northern mockingbird	-	-	
<i>Setophaga palmarum</i>	Palm warbler	-	-	
<i>Strix varia</i>	Barred owl	-	-	
<i>Sturnella magna</i>	Eastern meadowlark	-	-	
<i>Tachycineta bicolor</i>	Tree swallow	-	-	
<i>Zenaida macroura</i>	Mourning dove	-	-	
REPTILE				
<i>Anolis carolinensis</i>	Green anole	-	-	
<i>Anolis sagrei</i>	Brown anole	-	-	
<i>Aspidoscelis sexlineata</i>	Six-line race runner	-	-	**
<i>Coluber constrictor</i>	Black racer	-	-	
<i>Gopherus polyphemus</i>	Gopher tortoise	ST	-	
AMPHIBIAN				
<i>Hyla cinerea</i>	Green tree frog	-	-	
MAMMAL				
<i>Dasyopus novemcinctus</i>	Nine-banded armadillo	-	-	
<i>Odocoileus virginianus</i>	White-tailed deer	-	-	
<i>Procyon lotor</i>	Raccoon	-	-	
<i>Sus scrofa</i>	Wild pig	-	-	

* Species observed for the first time

** Species observed during the current monitoring survey

¹FWC - Florida Fish and Wildlife Conservation Commission; Official Lists of Florida's Endangered Species, Threatened Species, and Species of Special Concern (Ch. 68A-27 F.A.C.; updated 05/2023) [ranking: ST - State-designated Threatened, SSC - State Species of Special Concern, FE - Federally-designated Endangered, FT - Federally-designated Threatened, FT(S/A) - Federally-designated Threatened by Similarity of Appearance]

²FWS - U.S. Fish and Wildlife Service status, Official lists of Threatened and Endangered species updated through the FWS web site - last updated on 08/23/2023. [ranking E - Endangered, T - Threatened, T(S/A) - Threatened by Similarity of Appearance]

APPENDICES

**APPENDIX A:
DESIRABLE TREE, SHRUB, AND HERBACEOUS SPECIES TABLES**

Table A: Tree Species Composition -- Minimum of four (4) species

Scientific Name	Common Name
<i>Carya glabra</i>	Pignut Hickory
<i>Diospyros virginiana</i>	Persimon
<i>Ilex cassine</i>	Dahoon Holly
<i>Liquidambar styraciflua</i>	Sweetgum
<i>Persea borbonia</i>	Red Bay
<i>Pinus elliotti</i>	Slash Pine
<i>Pinus palustris</i>	Longleaf Pine
<i>Quercus laurifolia</i>	Laurel Oak
<i>Quercus nigra</i>	Water Oak
<i>Quercus virginiana</i>	Live Oak
<i>Sabal palmetto</i>	Cabbage Palm

Table B: Shrub Species Composition – Minimum of six (6) species

Scientific Name	Common Name
<i>Asimina reticulata</i>	Flatwoods pawpaw
<i>Baccharis spp.</i>	Salt Bush
<i>Callicarpa americana</i>	Beautyberry
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry
<i>Ilex glabra</i>	Gallberry
<i>Lyonia fruticosa</i>	Shiny Lyonia
<i>Lyonia lucida</i>	Fetterbush
<i>Myrica cerifera</i>	Wax myrtle
<i>Rhus copallinum</i>	Winged sumac
<i>Serenoa repens</i>	Saw palmetto
<i>Styrax americana</i>	Snowbells
<i>Vaccinium myrsinites</i>	Shiny Blueberry
<i>Vaccinium stamineum</i>	Deerberry
<i>Viburnum obovatum</i>	Walter viburnum
<i>Ximenia americana</i>	Hogplum

Table C: Herbaceous Species Composition – Minimum of Fifteen (15) Species

Scientific Name	Common Name
<i>Andropogon spp.</i>	Broomsedge
<i>Aristida spp.</i>	Wire Grass
<i>Aster tortifolius</i>	White-topped aster
<i>Bidens spp.</i>	Beggarticks
<i>Carphephorus spp.</i>	Deer-tongue
<i>Chamaecrista nictitans</i>	Sensitive pea
<i>Chrysopsis spp.</i>	Goldenaster
<i>Commelina erecta</i>	Dayflower
<i>Coreopsis spp.</i>	Tickseed
<i>Crocanthemum spp.</i>	Frostweed
<i>Cyperus spp.</i>	Sedge
<i>Dalea spp.</i>	Summer farewell
<i>Dicanthelium spp.</i>	Panic grass
<i>Digitaria spp.</i>	Crabgrass
<i>Eleocharis baldwinii</i>	Spikerush
<i>Eragrostis elliottii</i>	Elliot's lovegrass
<i>Euphorbia spp.</i>	Spurge
<i>Eustachys petraea</i>	Rock fingergrass
<i>Euthamia caroliniana</i>	Slender goldenrod
<i>Galactia spp.</i>	Galactia
<i>Hedyotis procumbens</i>	Fairy footprints
<i>Hypericum spp.</i>	St. John's Wort
<i>Juncus spp.</i>	Rush
<i>Lachnocaulon anceps</i>	Bog-buttons
<i>Lechea toreyi</i>	Lechea
<i>Liatris spp.</i>	Blazing Star
<i>Opuntia humifusa</i>	Prickly pear cactus
<i>Osmunda cinnamomea</i>	Cinnamon fern
<i>Panicum anceps</i>	Beaked panic grass
<i>Panicum hemitomom</i>	Maidencane
<i>Paspalum setaceum</i>	Thin paspalum
<i>Pityopsis graminifolia</i>	Shinners (golden aster)
<i>Polypremum procumbens</i>	Rustweed
<i>Sabatia brevifolia</i>	Narrow-leaved sabatia
<i>Scoparia dulcis</i>	Licorice weed
<i>Smilax auriculata</i>	Smilax
<i>Solidago odora</i>	Sweet goldenrod
<i>Sophronanthe hispida</i>	Scrub-hedge hyssop
<i>Stillingia sylvatica</i>	Queen's delight
<i>Stipulicida setacea</i>	Wire plant
<i>Tephrosia hispidula</i>	Tephrosea
<i>Trichostema dichotomum</i>	Forked bluecurls
<i>Vitis rotundifolia</i>	Muscadine grape

APPENDIX B: PLANTING LISTS

Trees		Number Planted
Species	Common Name	9/23/05
<i>Carya glabra</i>	Pignut Hickory	60
<i>Diospyros virginiana</i>	Persimmon	60
<i>Persea borbonia</i>	Red Bay	60
<i>Pinus elliottii</i>	Slash Pine	120
<i>Pinus palustris</i>	Long Leaf Pine	120
<i>Quercus laurifolia</i>	Laurel Oak	240
<i>Quercus nigra</i>	Water Oak	240
<i>Quercus virginiana</i>	Live Oak	240
<i>Sabal palmetto</i>	Cabbage Palm	60
Total		1200

Shrubs		Number Planted
Species	Common Name	9/23/05
<i>Callicarpa americana</i>	Beautyberry	176
<i>Ilex glabra</i>	Gallberry	704
<i>Lyonia fruticosa</i>	Shiny Lyonia	704
<i>Lyonia lucida</i>	Fetterbush	704
<i>Rhus copallina</i>	Winged Sumac	176
<i>Serenoa repens</i>	Saw Palmetto	704
<i>Vaccinium myrsinites</i>	Shiny Blueberry	176
<i>Vaccinium stamineum</i>	Deerberry	176
Total		3520

Shrubs/Herbaceous		Number Planted
Species	Common Name	9/5/2008
<i>Ilex glabra</i>	Gallberry	1,200
<i>Viburnum obovatum</i>	Walter's viburnum	1,000
<i>Aristida beyrichiana</i>	Beyrich threeawn	1,300
<i>Andropogon brachystachus</i>	Shortspike bluestem	3,777
Total		7,277

APPENDIX B: PLANTING LISTS

Herbaceous		Number Planted	
Species	Common Name	2009	Size
<i>Aristida stricta</i> var. <i>beyrichiana</i>	wiregrass	4,000	5" tubling
<i>Carphephorus paniculatus</i>	deer-tongue	700	quart
<i>Eragrostis</i> sp.	lovegrass	1,500	5" tubling
<i>Monarda punctata</i>	spotted beebalm	200	quart
<i>Opuntia humifusa</i>	pricklypear cactus	530	gallon
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	600	quart
<i>Polygonella robusta</i>	largeflower jointweed	325	quart
<i>Solidago odora</i> var. <i>chapmanii</i>	Chapman's goldenrod	600	quart
<i>Sorghastrum secundum</i>	lopsided indiagrass	1,139	5" tubling
Total		9,594	

Trees		Number Planted
Species	Common Name	7/30/2010
<i>Pinus elliotii</i>	Slash Pine	300
<i>Quercus laurifolia</i>	Laurel Oak	300
<i>Quercus nigra</i>	Water Oak	300
<i>Quercus virginiana</i>	Live Oak	300
Total		1200

Shrubs		Number Planted
Species	Common Name	7/30/2010
<i>Serenoa repens</i>	saw palmetto	1,600
Total		1,600

Herbaceous		Number Planted
Species	Common Name	8/20/2010
<i>Carphephorus paniculatus</i>	deer-tongue	300
<i>Chrysopsis mariana</i>	Maryland goldenaster	350
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	600
Total		1,250

APPENDIX C: PHOTOGRAPHIC DOCUMENTATION

SUWH - TRANSECT 1 – FACING NORTH



SUWH – TRANSECT 1 – FACING SOUTH



APPENDIX C: PHOTOGRAPHIC DOCUMENTATION (continued)

SUWH - TRANSECT 2 – FACING NORTH



SUWH - TRANSECT 2 – FACING SOUTH



SECTION 6
ENVIRONMENTAL MONITORING
REPORT

Appendix 6

Environmental Monitoring



Hopewell Mine

2024/2025 Annual Report



Hopewell Mine Environmental Monitoring 2024/2025 Report Period

The following environmental monitoring summary covers the reporting period from June 2024 through May 2025. Active mining at the Hopewell facility was completed in January 2011. In a letter dated July 5, 2016, the Florida Department of Environmental Protection (FDEP) inactivated NPDES Permit No. FL0032590. In a letter dated August 1, 2016, Hillsborough County discontinued reporting of flow and water quality requirements at English Creek, the NPDES outfall, and the deep well withdrawal reports (Attached).

RAINFALL

Rainfall is measured daily and downloaded/recorded monthly. Cumulative rainfall measured during the 2024/2025 reporting period (64.43 inches) was 28.07 inches greater than the annual rainfall recorded in the previous reporting year (36.36 inches).

DOMESTIC WASTEWATER DISCHARGE

The Hopewell Mine was served by a septic tank system.

GROUNDWATER PUMPING

The production well and small process well at the Hopewell Mine are no longer under Mosaic control and have been turned back over to the property owner.

SURFICIAL WATER TABLE MONITORING

The following area is designated to fulfill requirements of the groundwater table monitoring and mitigation plan:

- Hopewell Permitting

The groundwater elevation data collected at the MHW-2386 was consistent for the reporting period 6/1/2024 – 5/31/2025. The MHW-811 was reported as damaged and is in need of replacement; there is no data available for this piezometer for the reporting period.

INDUSTRIAL WASTEWATER DISCHARGE AND WATER QUALITY

There was one permitted industrial wastewater discharge point within the Hillsborough County mining area. Per FDEP NPDES Permit Number FL0032590, Hopewell Outfall D-001 discharged excess mine recirculation water and storm water through mine cuts into Medard Reservoir (WBID 1592A) that discharges into the Little Alafia River, then into Turkey Creek, a tributary of the Alafia River (Class III Freshwaters). As stated above, this permit was inactivated in July 2016.

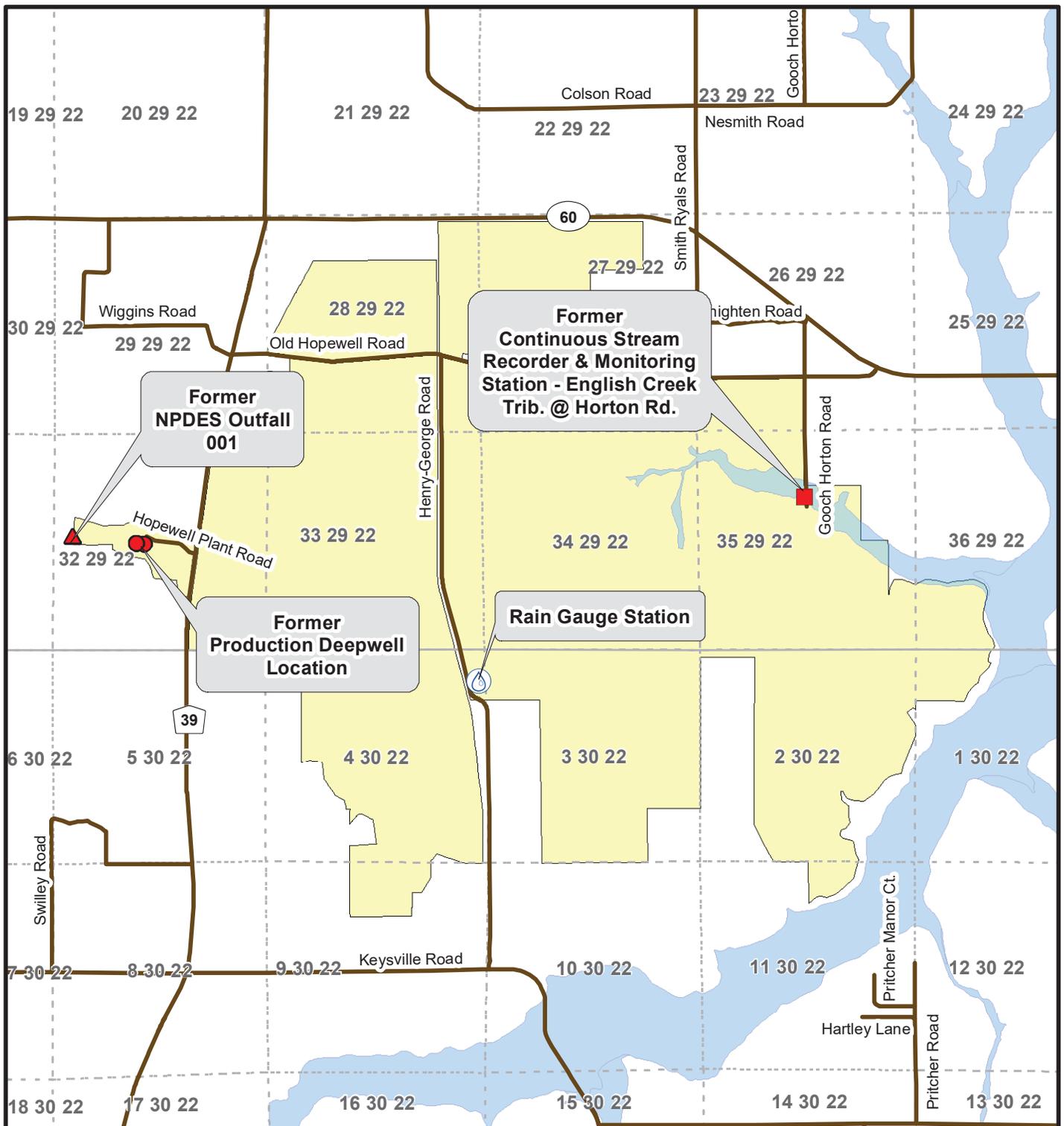
SURFACE WATER DISCHARGE AND WATER QUALITY

Both the surface water discharge monitoring and water quality sampling at the tributary to English Creek were discontinued in October 2016.



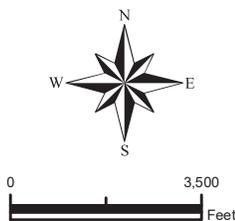
Hopewell Mine

2024/2025 Annual Report Monitoring Data



Legend

-  Rain Gauge
-  Former NPDES Outfall
-  Former Production Well
-  Former Continuous Recording Locations
-  Right of Way
-  Township / Range Lines
-  Section Lines
-  25 Yr. Flood Plain



HOPEWELL MINE
HILLSBOROUGH
COUNTY ANNUAL REPORT

MONITORING LOCATIONS

User: kep Date: 6/5/2018
Path: G:\projects\2018\2018_0033\maps\hopewell-monitoring.mxd

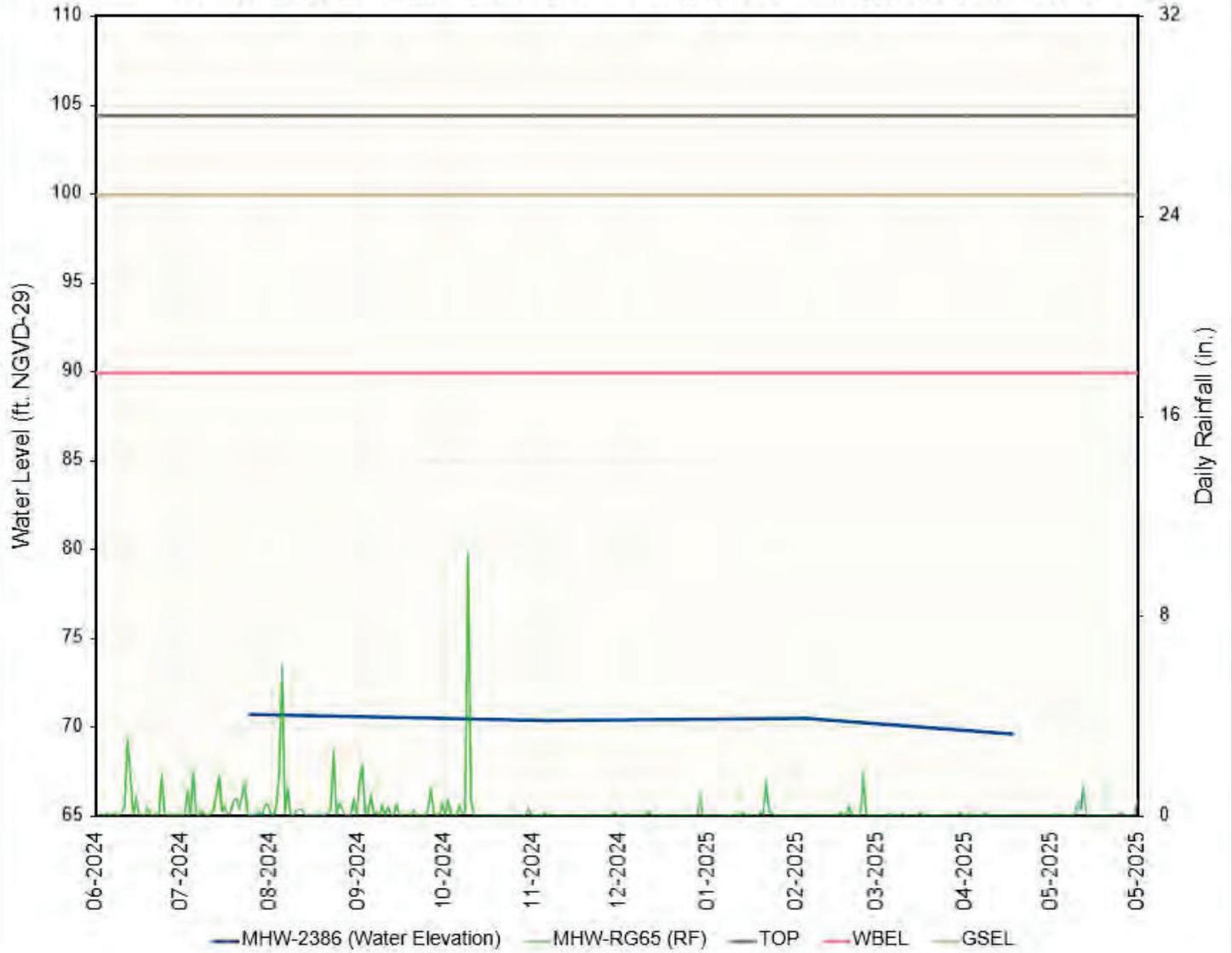
Mosaic Fertilizer, LLC
Hopewell Mine Rainfall Data
June 1, 2024 to May 31, 2025

Day	2024												2025				
	June	July	August	September	October	November	December	January	February	March	April	May					
1	0	0	0.07	1.29	0.01	0	0	0	0	0	0.01	0					
2	0	0.05	0.01	2.06	0.63	0.02	0	0	0	0	0.06	0.08					
3	0.01	1	0.39	0.13	0.02	0	0	0	0	0	0	0					
4	0	0.02	1.65	0.11	0	0.03	0.05	0	0	0.02	0	0					
5	0.11	1.77	6.08	0.8	0	0.1	0	0	0.04	0.08	0	0					
6	0	0.01	0.09	0.1	0.38	0	0	0.01	0	0	0	0					
7	0	0	1.1	0.11	0.08	0	0	0	0	0	0.03	0					
8	0.09	0.21	0	0.01	0.15	0	0	0.03	0	0	0.09	0					
9	0	0.01	0.01	0.45	10.5	0	0	0	0	0	0	0.06					
10	0.16	0	0.22	0	0.64	0	0	0	0	0.1	0	0.57					
11	0.38	0.07	0.26	0.35	0	0	0.19	0.04	0	0	0	0.26					
12	3.04	0.2	0.24	0.01	0	0	0	0	0	0	0.01	1.13					
13	1.7	0.8	0	0	0	0	0	0.14	0	0	0	0					
14	0.01	1.63	0	0.48	0	0	0	0.01	0	0	0	0					
15	0.76	0.18	0	0	0	0.01	0	0	0	0	0	0					
16	0	0.37	0	0.01	0	0	0.04	0	0.14	0.17	0	0					
17	0	0	0	0	0	0	0	0	0	0	0	0					
18	0	0.16	0	0	0	0	0	0	0	0	0	0					
19	0.33	0.58	0	0	0	0	0	0.17	0.38	0	0	0					
20	0.01	0.71	0.03	0.21	0.02	0.03	0	0	0	0.01	0	0					
21	0	0.28	0.1	0	0	0	0	1.42	0	0	0	0					
22	0.04	0.78	0.23	0	0	0	0	0.17	0	0	0	0					
23	0.01	1.31	2.6	0	0	0	0	0.11	0	0	0	0					
24	1.68	0.01	0.01	0	0	0	0	0	1.69	0	0	0.01					
25	0.01	0	0.47	0.26	0	0	0	0	0	0	0	0.14					
26	0	0	0.29	1.11	0	0	0	0	0.01	0	0	0					
27	0.05	0	0	0.07	0	0	0	0	0	0	0	0					
28	0	0.15	0	0.06	0	0	0	0	0	0	0	0					
29	0.04	0	0	0	0	0.18	0.78	0	0	0	0	0					
30	0.02	0.4	0.64	0.47	0.3	0	0	0	0	0.16	0	0					
31	0	0.48	0	0.01	0.01	0	0.02	0	0	0	0	0.68					
Total	8.45	11.18	14.49	8.09	12.74	0.37	1.08	2.10	2.26	0.54	0.20	2.93					

Total rainfall 2024-2025 reporting period = 64.43 inches

Total rainfall 2023-2024 reporting period = 36.36 inches

Water Elevation, Rain Fall, TOP, WBEL, GSEL at Hopewell Permitting for 06/01/2024 - 05/31/2025



Mining Unit	Measured Date	Serial ID #	Water Elevation in ft (MSL)
Permitting Hopewell	7/25/2024	2386	70.69
Permitting Hopewell	11/5/2024	2386	70.35
Permitting Hopewell	2/4/2025	2386	70.47
Permitting Hopewell	4/17/2025	2386	69.59
Permitting Hopewell	7/25/2024	811	Damaged
Permitting Hopewell	11/5/2024	811	Damaged
Permitting Hopewell	2/4/2025	811	Damaged
Permitting Hopewell	4/17/2025	811	Damaged



Hopewell Mine

2024/2025 Annual Report

**Letter Inactivating NPDES Permit No.
FL0032590**



Florida Department of Environmental Protection

Division of Water Resource Management
Phosphate Management Program
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P.
Steverson
Secretary

July 5, 2016

SENT BY EMAIL TO:
(David.Jellerson@mosaicco.com)

Mr. David B. Jellerson, P.E.,
Director - Environmental
MOSAIC FERTILIZER, L.L.C.
13830 Circa Crossing Drive
Lithia, FL 33547-3953

RE: Mosaic Fertilizer, L.L.C. – Hopewell Mine
Inactivation of Permit No. FL0032590

Dear Mr. Jellerson,

On June 20, 2016, the Department received a request from Mosaic Fertilizer, L.L.C., (Mosaic) to withdraw the subject National Pollutant Discharge Elimination System (NPDES) surface water discharge permit for the Hopewell Mine. This submittal was made in accordance with General Condition No. 15 in Section IX of the permit.

The Department was previously provided written notice dated June 4, 2014, of Mosaic's intention to abandon the existing NPDES Outfall D-001, remove all monitoring apparatus and related upstream structures, and inactivate the Hopewell Mine wastewater facility following Department approval of Mosaic's request to breach and abandon the last active clay settling area (CSA) HL-3. Mosaic has identified the actions that it will take to safeguard public health and safety during and following inactivation or abandonment in accordance General Condition IX.15 of the subject permit and Rule 62-620.610(15), Florida Administrative Code.

Review of the request, Department files, and site inspections made on March 11, April 26, April 27, and June 21, 2016, do not indicate industrial activity at the former mine site and it is not generating any industrial wastewater. Therefore, the Department has inactivated the NPDES permit associated with the subject facility, and all associated monitoring requirements.

Thank you for your continued cooperation. If you have any comments or questions concerning this correspondence, please do not hesitate to contact Mr. Dennis R. Pierson at (813) 470-5914, or by e-mail at Dennis.Pierson@dep.state.fl.us.

Sincerely,



Elsa A. Potts, P.E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management

COPIES SENT BY EMAIL TO:

Monica Sudano, FDEP-DWRM/TLH, (Monica.Sudano@dep.state.fl.us)
Ryan Tickles, Mosaic Fertilizer, LLC, (Ryan.Tickles@Mosaicco.com)
Orlando E. Rivera, FDEP-MMR/TLH (Orlando.Rivera@dep.state.fl.us)



Hopewell Mine

2024/2025 Annual Report

Letter Discontinuing Reporting of Flow and Water Quality Requirements at English Creek, the NPDES Outfall, and the Deep Well Withdrawals



Development Services

August 1, 2016

Board of County Commissioners

Kevin Beckner
Victor D. Crist
Ken Hagan
Al Higginbotham
Lesley "Les" Miller Jr.
Sandra L. Murman
Stacy R. White

County Administrator

Michael S. Merrill

County Administrator Executive Team

Lucia E. Garsys
Carl S. Harness
Gregory S. Horwedel
Ramin Kouzehkanani
Liana Lopez
Bonnie M. Wise

County Internal Auditor

Michelle Leonhardt

County Attorney

Chip Fletcher

Development Services

PO Box 1110
Tampa, FL 33601-1110

Ms. Sandra Patrick
Mosaic Fertilizer, LLC
13830 Circa Crossing Drive,
Lithia, FL 33547

SUBJECT: MOSAIC FERTILIZER, L.L.C. JULY 19, 2016 REQUESTS TO CEASE SOME AND CHANGE OTHER MONITORING STATIONS OF THE HOPEWELL MINE IN ASSOCIATION WITH FDEP NPDES SURFACE WATER DISCHARGE PERMIT NO. FL0032590

Dear Ms. Patrick:

Development Services Department staff have completed their review of the above referenced request. Your request to cease monitoring of and changes in monitoring of certain environmental monitoring stations identified in the 1982 Hopewell Mine Master Mining and Reclamation Plan is acceptable and via this letter is administratively approved.

This approval specifically approves changes at:

- Station 1 (Rain Gauge) - change location of rain gauge to NW corner of the HL-3 Clay Settling Area or other location where it can be accessed from the main roads.
- Station 2 (English Creek Station) – discontinue providing the County with flow (continuous recorder) and water quality information, as all mining activity is complete.
- Station 3 (North of Old Hopewell Rd.) – The areas north of Old Hopewell Rd. (MU5 and MU6) were mined in 1993/1994 and reclaimed by 1998. Mosaic suspended monitoring at this station in July 2004. Hillsborough County released the uplands in December 2004 and the Environmental Protection Commission released all mitigation wetlands by May 2006. No more monitoring is expected to occur at this location.
- Station 4 (NPDES Outfall) – discontinue providing the County with flow (continuous recorder) and water quality information, as the FDEP NPDES permit # FL0032590 has been inactivated.

Ms. Sandy Patrick
August 1, 2016
Page 2 of 2

- Station 5 (Deep Wells) – discontinue providing the County with deep well water withdrawal reports. Mosaic is working with the leased site owner and SWFWMD to transition this permit to the lease holder or abandon the SWFWMD deep water wells.

The Florida Department of Environmental Protection reviewed, commented and approved this Mosaic request to withdraw the Hopewell NPDES surface water discharge permit in a letter to Mosaic dated July 5, 2016. The Environmental Protection Commission of Hillsborough County (EPC) also reviewed this request and submitted an email comment and approval on July 19, 2016. See these approvals as an attachment to this letter.

The applicant is put on notice that approval of this Monitoring Program modification is not tacit approval of any future Mining Units. Activities engaged in pursuant to this approval constitutes applicant's acceptance and approval of civil penalty assessments and other penalties and remedies contained in 11.06.00 of the Land Development Code.

Pursuant to Section 8.02.03, mining and mining-related activities require review and approval by the Board. Engaging in any mining activity or operation beyond the scope of this approval, without an operating permit or other relevant approvals, is a violation of the Hillsborough County Phosphate Mining Regulations and will subject the applicant and/or project to applicable penalties and remedies contained in 11.06.00 of the Land Development Code.

Nothing stated herein shall be construed to be a waiver of any present or subsequently enacted federal, state, or local law, ordinance, or regulation, which as such is deemed fully applicable to the activities regulated herein.

Please call me at (813) 276-8370 if you have any questions.

Sincerely,



Mike Stevenson, P.G., Senior Hydrologist
Natural Resources
Development Review
Development Services Department

MS
cc Jackie Jordan, EPC



Florida Department of Environmental Protection

Division of Water Resource Management
Phosphate Management Program
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Rick Scott
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Steverson
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July 5, 2016

SENT BY EMAIL TO:

David.Jellerson@mosaicco.com

Mr. David B. Jellerson, P.E.,
Director - Environmental
MOSAIC FERTILIZER, L.L.C.
13830 Circa Crossing Drive
Lithia, FL 33547-3953

RE: Mosaic Fertilizer, L.L.C. – Hopewell Mine
Inactivation of Permit No. FL0032590

Dear Mr. Jellerson,

On June 20, 2016, the Department received a request from Mosaic Fertilizer, L.L.C., (Mosaic) to withdraw the subject National Pollutant Discharge Elimination System (NPDES) surface water discharge permit for the Hopewell Mine. This submittal was made in accordance with General Condition No. 15 in Section IX of the permit.

The Department was previously provided written notice dated June 4, 2014, of Mosaic's intention to abandon the existing NPDES Outfall D-001, remove all monitoring apparatus and related upstream structures, and inactivate the Hopewell Mine wastewater facility following Department approval of Mosaic's request to breach and abandon the last active clay settling area (CSA) HL-3. Mosaic has identified the actions that it will take to safeguard public health and safety during and following inactivation or abandonment in accordance General Condition IX.15 of the subject permit and Rule 62-620.610(15), Florida Administrative Code.

Review of the request, Department files, and site inspections made on March 11, April 26, April 27, and June 21, 2016, do not indicate industrial activity at the former mine site and it is not generating any industrial wastewater. Therefore, the Department has inactivated the NPDES permit associated with the subject facility, and all associated monitoring requirements.

MOSAIC FERTILIZER, L.L.C.
Hopewell Mine
Notice of Permit Withdrawal

Permit No.: FL0032590
PA File No.: FL0032590-010-IWB/MR
Page 2 of 2

Thank you for your continued cooperation. If you have any comments or questions concerning this correspondence, please do not hesitate to contact Mr. Dennis R. Pierson at (813) 470-5914, or by e-mail at Dennis.Pierson@dep.state.fl.us.

Sincerely,



Elsa A. Potts, P.E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management

COPIES SENT BY EMAIL TO:

Monica Sudano, FDEP-DWRM/TLH, (Monica.Sudano@dep.state.fl.us)
Ryan Tickles, Mosaic Fertilizer, LLC, (Ryan.Tickles@Mosaicco.com)
Orlando E. Rivera, FDEP-MMR/TLH (Orlando.Rivera@dep.state.fl.us)

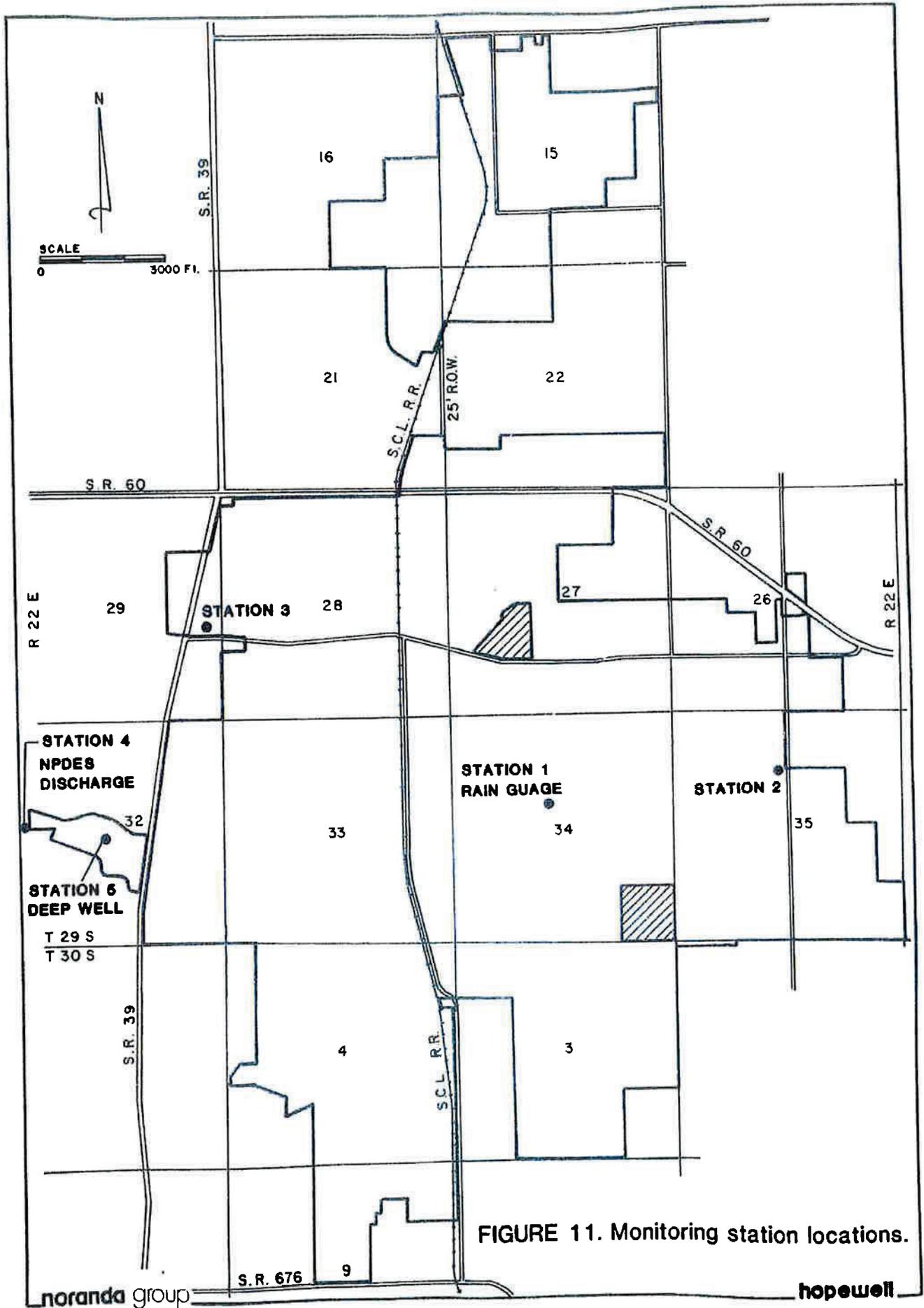


FIGURE 11. Monitoring station locations.

11. Descriptions and locations of any proposed monitoring systems or devices to be installed to observe the effects of the proposed mining and reclamation operations on environmental phenomena, to include for each station: (i) the type of device or procedure to be installed or followed; (ii) the schedule to be followed; and (iii) a proposal for the compilation of data and the submission of reports.

The location of the monitoring stations proposed for this operation are illustrated on Figure 11. The following describes the stations in terms of their purpose, type of device, and schedule of operation.

Station 1. A continuous recording rain gauge is located near the center of the property at Station 1. This gauge was installed in April, 1980, and will be maintained throughout the life of the mine.

Station 2. Station 2 is located on an unnamed tributary of English Creek at the point where the flow discharges from the property. The station includes a continuous stream height recorder and a surface water quality monitoring location. The recorder was installed in April, 1980, to record water flow leaving the property.

Monitoring at this location will continue throughout the mining activity and measure the following parameters on a monthly basis.

Flow (continuously)
pH
Dissolved Oxygen
Fluoride
Nitrogen, Total as N
Phosphorus, Total as P
Phosphorus, Total as PO₄
Solids, Total Suspended at 105°C
Turbidity (NTU)

Station 3. This station is located on a man-made ditch passing through the northwest corner of the property. It

will be activated at least three years prior to mining activities in the drainage basin, and contain a recording stream recorder and monthly water quality analysis the same as Station #2.

The County was granted this drainage easement on December 8, 1966, and recorded in Official Records Book 1747, page 439 and modified by the Board of County Commissioners on January 3, 1968, as recorded in Official Records Book 1848, page 341. This easement states "to the effect that the County will not assert any rights with respect to the easement that interferes with any mining, post-mining, and related activities and reclamation operations, and the easement is in all respects inferior the full rights of the owner of the lands."

Station 4. This station is located at the west boundary of the property at the NPDES and DER discharge point. A Stevens continuous recording water level recorder will monitor the discharge flow, and a continuous water sampler will composite the discharge for chemical analysis. This analysis will include pH, Total Suspended Solids, Radium-226, Fluoride, and Phosphorus according to the NPDES and DER discharge limitations.

Station 5. The existing deep well which provides water for the beneficiation operation, is equipped with a totalizer meter. Water withdrawal reports are submitted to SWFWMD on a monthly basis.

Reporting

Data derived from this monitoring network will be transmitted to Hillsborough County on a routine monthly basis for water quality and the deep well pumpage.

Stevenson, John Michael

From: Jordan, Jaclyn <jordanj@epchc.org>
Sent: Tuesday, July 19, 2016 3:12 PM
To: Stevenson, John Michael
Cc: Vorstadt, William
Subject: RE: Hopewell Monitoring Network Request
Attachments: 07-19-16_HC_MMRP_Monitoring Network Request.pdf

Good Afternoon Mike,

I spoke with Sandy this morning. Based on the information provided and our discussion last week here at our office, EPC does not have any objections to the requests made. Please let us know if you need anything additional from us.

Thank you,
Jackie



Jackie Jordan

Environmental Scientist
Wetlands Management Division
Environmental Protection Commission
813-627-2600 ext. 1358
jordanj@epchc.org
"Environmental Excellence in a Changing World"

From: Patrick, Sandra L - FishHawk [mailto:Sandra.Patrick@mosaicco.com]
Sent: Tuesday, July 19, 2016 2:59 PM
To: Stevenson, John Michael
Cc: Jordan, Jaclyn
Subject: Hopewell Monitoring Network Request

Hi Mike,

In response to your great questions concerning my initial foray into the Hopewell monitoring program, I continued to push through lots of binders and bothered many people, but was able to obtain some answers. Therefore, attached is Mosaic's official request to modify and discontinue the monitoring network initially established at Hopewell, as required by the MMRP of 1982. A short historical summary of Station 3 is now included. I'm also copying Jackie Jordan (EPC) so she will stay informed on activities there or provide comments as desired. Based on my discussion with her today, she doesn't believe a specific sign-off is required by EPC, but may be given just to close that loop. As previously discussed, other similar requests have been handled by the County administratively, so you expect to handle this one likewise. If that's not the case, please let me know so we can discuss other options.

If you have any questions or need additional information, please don't hesitate to contact me.

Best Regards,
Sandy



Sandra Patrick, CEP | Senior Ecologist - Permitting Department

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**Attachment 3:
Hopewell Mine
2024/2025
Annual Report
Correction
pg. 20**

Hopewell Mine
2024/2025 Mining Summary

MINE	MINED (acres)	UNMINED COVERED		TOTAL
		BY CSA (acres)	TOTAL	
HOP	2526.0	550.0		3076.0
TOTAL	2526.0	550.0		3076.0

REVEGETATION SUMMARY

Mine	Reclamation Program	FDEP RELEASED				EPC Wetland Mitigation				RECLAMATION	
		Mined (A)	Dist.	Program Released Total	Other Rel.	Total Required	Constructed		Wetlands Released	1 YR EST (A)	COMPLETE BEYOND
							Not Released [C]	Released			
HOP	IMC-HW-EC(1) - HMU 3	99.5	41.8	141.3		18.9		18.9		317.3	
	IMC-HW-EC(2) - HMU 5	129.3	132.3	261.6		20.0		20.0		-	
	IMC-HW-EC(3) - HMU 5	15.1	49.0	64.1						-	
	IMC-HW-EC(4) - HMU 8A	92.3	32.8	193.8	68.7	24.6		24.6		-	
	IMC-HW-EC(5) - HMU 8A	55.2	11.2	76.4	10.0	40.0		40.0		99.6	
	IMC-HW-EC(6) - MU 8A/9	214.8	42.2	281.0	24.0	75.2	23.6	74.5		147.0	
	IMC-HW-EC(7) - HMU 3/8/8A	337.4	33.7	516.8	145.7	3.0		3.0		-	
	IMC-HW-NPA(1) - HMU 1	47.9	0.1	48.7	0.7					-	
	IMC-HW-NPA(2) - HMU 1/5	11.0	61.1	508.7	436.6					-	
	IMC-HW-NPA(3) - HMU 2/4	212.3	17.0	258.7	29.4					-	
	IMC-HW-NPA(4) - HMU 2/4	85.8	52.1	167.3	29.4					-	
	IMC-HW-NPA(5) - HMU 5	90.5	25.7	138.6	22.4	8.8		8.8		-	
	IMC-HW-NPA(6) - HMU 5/6	63.7	47.1	110.8		8.1		8.1		-	
	IMC-HW-NPA(7) - HMU 7	130.9	44.4	175.3		17.4		17.4		-	
	IMC-HW-NPA(8) - HMU 10	342.9	87.8	452.6	21.9	3.2	2.0	1.2		18.5	
	HOP TOTAL	1,928.60	678.3	3,395.7	788.8	219.2	25.6	216.5	Reclamation	582.4	
						Total	Completed			582.4	

EPC MITIGATION SUMMARY

HOP	Mining Unit	Required Mitigation Located in Unit	Mitigation Released	Under Monitoring	To Be Constr.
	MU 3 / 7	36.3	36.3	R	
	MU 5	28.8	28.8	R	
	MU 6	8.1	8.1	R	
	MU 8, 8A, 9	142.8	119.3	23.6	
	MU 10	2.0		2.0	
	MU 7	1.2	1.2	R	
	HOP TOTAL	219.2	193.7	25.6	

(1) Includes Non-Disturbed acres also.