



ARS

Annual Report Summary

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DRI #80 - BIG FOUR MINE SUBSTANTIAL DEVIATION HILLSBOROUGH COUNTY RY 2019-20

On April 14, 1982, Hillsborough County granted a Substantial Deviation Development Order to AMAX Phosphate, Inc., for a 200-acre mining expansion (substantial deviation) on lands purchased between 1977 and 1980 at the Big Four Mine (previously approved as DRI #50). The DRI parcel and development rights were purchased by, and transferred to, Mobil Mining and Minerals Company in February, 1987.

The Development Order has been amended a total of three times, most recently on April 24, 2001 (Resolution No. R01-089). The amendments have cumulatively: added two parcels totaling 80 acres; deleted a 60-acre parcel; recognized the sale of the Big Four Mine to IMC (the project was subsequently acquired by Mosaic Fertilizer, LLC); revised the Annual Report anniversary date to July 31st; authorized pipelines to be constructed between the Big Four Mine and nearby IMC mines; formally recognized a name change of the Developer to IMC Phosphates Co.; authorized mining to occur in the BF-1 clay settling area; and extended the mining period and the Development Order expiration date by a period of 11 years, 11 months and 15 days. Through a May 5, 2008 correspondence, Hillsborough County did subsequently grant further extensions of the mining period and Development Order expiration date by three years, each to May 4, 2011, in accordance with 2007 revisions to Subsection 380.06(19)(c), F.S.

PROJECT STATUS

As currently approved, the project entails a total of 5,940 mineable acres.

Development this Reporting Year: while it was acknowledged that mining of the site had previously been completed, reclamation activities were limited to *"monitoring and nuisance maintenance."*

Cumulative Development: As identified in the *"Big Four Mine Financial Responsibility"* table, a total of 4,166 acres have been mined, of which 4,131 previously-mined acres (across 22 mine sites), 723 previously-disturbed acres (across 20 mine sites) and 47 "Other" acres (across six mine site) have been cumulatively released by FDEP in accordance with their Reclamation Program, for a total of 4,901 acres.

Projected Development: the Developer acknowledged that *"vegetative monitoring for the Big Four Mine mitigation areas will continue"* and *"only routine maintenance and supplemental plantings where required will be performed"* in RY 2020-21.

SUMMARY OF DEVELOPMENT ORDER CONDITIONS

1. The Big Four Mine's Consumptive Use Permit previously issued by the Southwest Florida Water Management District (SWFWMD) allowed for deep well pumping of 6.37 million gallons per day (mgd).

The permit volume was reduced to 3.0 mgd in 1997. In lieu of renewing the permit independently, the SWFWMD previously added the 3.0 mgd of water to the overall IMC Water Use Plan.

2. The Developer has identified that all required monitoring programs continue to be instituted with results provided to the appropriate agencies. A summary of the following monitoring results have been included in the RY 2019-20 Annual Report: **daily Rainfall monitoring** (from *SE Hillsborough No. 1 & Kingsford West* rain gauges), **monthly Surface Water Quality monitoring** (conducted at the following locations - *South Prong of the Alafia River @ W. Bethlehem Road Bridge, South Prong of the Alafia River @ Lonesome Mine Road, South Prong of the Alafia River @ Thatcher Road, Hall's Branch @ Virgil Hall Road, Lake Branch @ Lonesome Mine Road, Upper Lake Branch, Hurrah Creek @ Hiscock Road Bridge, Hurrah Creek @ CR672, Upper Boggy Branch and Boggy Branch*), and **monthly Surficial Water Table monitoring** (of Locations MFC-1169, MFC-1172, MFC-1177, MFC-1321, MFC-1322 & MKF-RG13).

The 2019-20 Annual Report also included reference to a renewed request by Mosaic to “*cease monitoring of all environmental locations (surface water and piezometers) that are within or adjacent to the Big Four Mine footprint under both the DRI #80 [Big Four Mine] and DRI #263 [i.e. Hillsborough County Mine Consolidation S/D] environmental monitoring programs.*” The request was based on the premise that all mining and reclamation activities have been completed at the Big Four Mine and “*surface water quality under the Big Four Mine/DRI 263 monitoring requirements has remained consistent through mining and reclamation.*” On behalf of Hillsborough County and in response to the request, John Michael Stevenson (Sr. Hydrologist) had transmitted an e-mail dated April 12, 2018 approving “*the temporary cessation of the groundwater and [the following] surface water stations*” [Upper Lake Branch, Lake Branch @ Lonesome Mine Rd., South Prong Alafia River @ W. Bethlehem Road Bridge, South Prong of the Alafia River @ Lonesome Mine Road, Upper Boggy Branch, Boggy Branch and Piezometer Nos. 1169, 1172, 1177, 1321 & 1322] until “*initiation and completion of the stream crossing removal and final reclamation within Big Four Mine.*” However, the temporary cessation was subsequently rescinded by a March 5, 2019 e-mail in which Hillsborough County had requested that monitoring be resumed at the named locations.

3. As previously reported, the SWFWMD and Hillsborough County accepted the Developer’s 1983 study of the 25-year floodplain of the Alafia River South Prong in lieu of the requirements of Condition III.B. No mining shall occur within the 25-year floodplain of the Alafia River and tributaries (Condition III.B.1). The land comprising the 25-year floodplain of the South Prong of the Alafia River shall be dedicated to the County at the end of the mine life (Condition #6/DRI 75-13).
4. The *Financial Responsibility Statement* was included in the Annual Report, as required. The Developer estimated their total financial liability through July 1, 2020 to be \$187,313 and projected their liability through June 30, 2021 to remain the same.

DEVELOPER OF RECORD

Mosaic Fertilizer LLC, Attention: Russell Schweiss, 13830 Circa Crossing Drive, Lithia, FL 33547 is the firm responsible for adhering to the conditions of the Development Order.

DEVELOPMENT ORDER COMPLIANCE

The project appears to be proceeding in a manner consistent with the Development Order. Hillsborough County is responsible for ensuring compliance with the terms and conditions of the Development Order.