Article 6.4, Springs Protection Requirements for Mining

If : (a) at least 35 percent of the proposed excavated area is located in a MCAVA category of "more" or "most " vulnerable, or (b) the operations will excavate within 15 feet of predicted height of potentiometric surface, or lime rock, whichever is higher, shall be subject to the following minimum requirements:

Major site plan* showing the following at a minimum:

1. Location of the site and boundaries of property lines in relation to state and county roads;

2. Stormwater management plan; and

3. All surface drainage from site runoff shall be directed away from mined area to avoid groundwater contamination. If necessary, grading to alter the direction of flow and/or construction of berms to direct runoff around the mined area may be required. Pollutants or substances of any kind which may be detrimental to water quality shall not be stored in the mined area. In addition, all fueling, lubrication and any other equipment maintenance activity for equipment that is reasonably maintained outside of the mined area shall be performed beyond the edge of the mined area, and additional spill containment shall be provided. Show the following:
   a. Proposed location of storage tanks, refueling areas and equipment maintenance areas;
   b. Existing potable water wells within 500 feet of the site boundaries;
   c. Existing and proposed water bodies; and
   d. Existing and proposed temporary and permanent stormwater management facilities;
   e. Copy of hazardous materials management plan consistent with the requirements of FDEP and this Section;

4. Aerial photograph provided from the most recent data available from the Marion County aerial photo program, showing property lines and areas proposed for mining, excavation or fill;

5. Topographic map showing pre and post development contour lines, at a maximum of two-foot intervals;

6. Copy of Reclamation Plan, prepared in compliance with FDEP requirements, and including post-development vegetative buffer plan;

7. All mines shall be required to have an approved Reclamation Plan that, in addition to meeting all FDEP requirements, includes the following measures to protect water quality in the surficial and Floridan Aquifer:
   a. Where the excavated area will be reclaimed and developed with an urban land use or rural development, clean fill and/or soil with similar or lower permeability and recharge rate than the original strata shall be replaced to a minimum depth of 15 feet over potentiometric surface or top of limerock, whichever is higher. Not to exceed natural ground elevation.
   b. For any mine where reclamation results in a water body connected to the surficial or Floridan Aquifer and/or exposed limerock, a natural vegetative buffer along the edge of the water body or exposed limerock shall be provided according to the following:
      (1) The buffer shall be at least 150 feet wide, as measured from the edge of the Ordinary High Water Line (OHWL), escarpment or highest closed contour of the mined area, as applicable. For water bodies, the buffer shall, additionally, extend from the outer edge of the minimum buffer width to the edge of water. These minimum buffer widths may be reduced if the applicant demonstrates that a narrow buffer can be calculated using the design methodology for calculating buffer width based on infiltration, as set forth in the Applicant's Handbook for Regulation of Stormwater Management Systems, SJRWMD 2005, as amended.
      (2) The buffer shall be permanently protected through an easement granted to the county, or other County-approved public or non-profit entity, on a county-approved instrument recorded in the public record.

(3) Vegetation within the easement shall consist of native or approved non-invasive and drought tolerant trees, shrubs, grasses and other ground covers, which shall be established according to a buffer landscaping plan submitted to the County for approval.

(4) Only clean fill, as defined by FDEP, may be disposed of in the mined area.

8. Copy of any required geotechnical report;
   a. Cross-sectional of the proposed depth of areas to be mined or excavated and relationship to the potentiometric surface and geologic materials, based on test borings performed on the site;
   b. Test borings shall be required to delineate geologic conditions, and to determine the interface between the surficial and Floridan aquifers and the locations of groundwater tables on a site. At a minimum, the test borings shall comply with the following:
      (1) Minimum depth. All borings shall be conducted to a depth of not less than ten feet below the deepest proposed mining or excavation, but no greater than ten feet below encountered limerock.
      (2) Maximum spacing. All borings shall be spaced at a minimum of 500-foot intervals in two transverse directions, except limerock mine borings will be spaced at 1,000-foot intervals in two transverse directions.
      (3) Log content. The boring log shall indicate the geologic description and thickness of all strata encountered, including topsoil, overburden, mineral deposit or material to be mined or excavated and material immediately underlying the mineral deposit or material, and the position of the groundwater.
      (4) All borings shall be properly filled or grouted.

9. Draft copy of proposed conservation easement document, if applicable.

10. All applicable requirements of Article 8.1, **Development in high recharge areas and karst sensitive areas.**

*Contents of Major Site Plan;

(1)

All Major Site Plans shall provide the following information and other data required by Article 9, Specifications of Documents To Be Submitted.

(a) A signed and sealed boundary and topographic survey of the site. At least two colinear corners of the site shall be identified and referenced to the Florida State Plane Coordinate System.

(b) The location of all existing structures with easements, setbacks and site improvements.

(c) The location and dimensions of proposed structures and site improvements.

(d) A title by which the project or development can be identified and referred to for record purposes with name, address and telephone number of applicant and owner.

(e) General notes, north arrow and location of the site with reference to existing or proposed streets and roads.

(f) Identification of the use or purpose of every existing and proposed structure.

(g) The location of any existing or proposed water wells and location of any existing or proposed sewage systems.

(h) The location and elevation of the 100-year floodplain within the project area.

(i) Minimum finished floor elevation.

(j) A clear identification of onsite and offsite watersheds.

(k) The location and elevation of existing and proposed stormwater collection, transmission, and disposal facilities.

(l) Erosion control measures, including specific locations.

(m) A traffic impact evaluation report. The extent of the evaluation depends on the number of trips generated by the proposed development. Procedures and Guidelines for the "Traffic Impact Evaluation" are available at the Marion County Engineering Department.

(2)

Plans shall be drawn to scale, shall be identified as a Major Site Plan, and be prepared by a professional authorized by the State of Florida to prepare such plans. The plans shall contain a certification that the drainage facilities are designed in accordance with applicable requirements of this Section and that adjacent properties will be protected from stormwater damage as a result of the proposed development. Each plan set shall bear the original signature, date and embossed seal of the person authorized by Florida Law to prepare the plans. When utilizing existing drainage facilities, the person preparing the plan shall be responsible for providing reasonable assurance that the existing drainage facilities are functioning properly if they are to be included for use in the Major Site Plan. Adequate function shall include facilities for the collection of stormwater surface runoff and the transfer of the runoff to an adequate disposal facility located on the site for which the Building Permit is issued or on which site improvements are approved. Public facilities may be incorporated in the Major Site Plan with approval of the governing agency and with the appropriate certification as to adequacy. However, the person preparing the plan shall provide reasonable assurance that the existing public facilities are properly operating and functioning as intended and that adequate capacity is available.

(3) Minor Site Plan shall be submitted to the Marion County Zoning Department. When Minor Site Plan are found to conform to the requirements of Article 9, Specifications of Documents To Be Submitted, the Minor Site Plan will be approved by the Zoning Department.

(4) Major Site Plan shall be submitted to the Marion County Engineering Department for review by Marion County Staff and approval by the Marion County Development Review Committee. Upon final approval the Developer's Engineer or Surveyor shall submit a digital copy (Read Only) with all layers shown as they appear on drawing. Upon recommendation of the Marion County Staff and approval by the Development Review Committee, a Building Permit may be issued and such approval is authority for applicant to proceed with the site improvements shown on the approved Major Site Plan.

(5) The owner of the site shall certify on the Site Plan that all successors and assigns shall perpetually maintain the improvements as shown on said plan.