

## APPENDIX “A”

### A GUIDELINE FOR DRAFTING A HEALTH AND SAFETY PLAN AS REQUIRED FOR A LANDFILL SPECIAL USE PERMIT

#### **Section 1 – Purpose.**

The purpose of this Appendix is to provide applicants for a Landfill Special Use Permit for the development of a “Health and Safety Plan” as required by Navajo County Zoning Ordinance Article 16, Section 1601.aa.2.b and 1601.aa3.a. and the Arizona Department of Environmental Quality (A.D.E.Q.) Solid Waste Facility Plan, that must be approved pursuant to A.R.S. §49-762.03.

The “Health and Safety Plan” details the operations of the proposed landfill and thereby the protection of the general public’s and landfill employees’ health, safety and general welfare. A comprehensive “Health and Safety Plan” may have a positive influence on final permit approval.

The outline provided below identifies the minimum amounts of information required to be addressed in the “Health and Safety Plan”, Navajo County may require more information for a particular landfill where circumstances exist warranting such requirement. Further, the petitioner should understand that the “Health and Safety Plan” must be submitted to the Arizona Department of Environmental Quality for further review and approval.

#### **Section 2 – Organization**

The “Health and Safety Plan” should contain at least the following seven (7) elements, which comprehensively address health and safety.

- 1) Waste background;
- 2) Site facilities and operation;
- 3) Personnel protection;
- 4) Contaminant monitoring;
- 5) Decontamination;
- 6) Emergency procedures;
- 7) Training

#### **Section 3 – Content**

Contents of the Plan should reflect EPA, ADEQ, and OSHA requirements and recommendations.

##### **2. Waste Background**

The following information should be supplied describing the wastes to be handled by the proposed facility:

- a. Type of wastes:
  - Name, category and/or hazard class if applicable (i.e., municipal, industrial hazardous)

- f. Quantities of wastes (approximate);
- g. Percent of volume by waste category
- h. Physical and chemical properties of hazardous materials or hazardous wastes.
- i. Physiological or toxicological health studies of hazardous materials or hazardous wastes
- f. Other.

## 2. **Site Facilities and Operation**

The following information should address both short and long term operation procedures for the landfill from day-to-day waste disposal to cell and site closure.

Access control:

- Drives
- Gates
- Supervision
- Signage – waste specific if necessary
- Other

Perimeter control:

- Fencing
- Signage
- Buffer areas
- Screening
- Other

Hours of operation

Handling of specific waste type or categories:

- Manifests;
- Reporting procedures;
- Records of inspection and monitoring;
- Other

## 3. **Personnel Protection**

The following information should detail all measures taken to ensure the lasting health of the landfill employees:

- f. Protective clothing (PPE) – eyewear, respirator, outerwear, footwear;
- g. On-Site hygiene practices;
- h. Safety equipment;
- i. Health monitoring;
- j. Other

## 4. **Contaminant Monitoring**

- c. Air monitoring – when required:
  - Method

- Frequency
- Location
- Availability of reports
- Other

d. Water:

- Method
- Frequency
- Location
- Availability of reports;
- Other

**5. Documentation – Related to Hazardous Materials or Wastes**

The following information should outline practices and equipment used to contain contaminants within the site and to decontaminate employees prior to them leaving the site:

- a. Measure to prevent contamination of surrounding areas
- b. Measure to decontaminate affected employees
- c. Other

**6. Emergency Procedures**

This section is provided to establish protocols and to define the equipment necessary for emergency response procedures to be implemented during the occurrence of emergency situations – personnel injury or environmental – during activities within the landfill:

- a. On-site Emergency Response System:
  - Communications system
  - Reporting procedures
  - Transportation of injured parties
  - Other
- b. Relevant Emergency Response Service contracts:
  - Fire
  - Police/DPS
  - Ambulance
  - Environmental quality
  - Other
- c. Safety equipment:
  - First aid;
  - Contaminant control equipment (i.e. water spray for controlling asbestos emissions);
  - Other

- d. Landfill operator responsibilities:
  - Training – first aid, decontamination procedures
  - Application of first aid
  - Decontamination
  - Reporting
  - Other
  
- e. Road emergencies:
  - Equipment
  - Procedures
  - Other

**7. Training:**

- d. EPA, ADEQ, or OSHA requirements for landfill operator or waste handler
- e. Training for attendant employees
- f. Other