

**Hurst Engineering Services**  
**P.O. Box 220: Bosque, N. M. 87006: (505) 864-1831**

February 8, 1999

Mr. Dennis Mcquillan  
NMED - State of NM  
1190 St Francis Drive, P.O. Box 26110  
Santa Fe NM 87502-

Dear Mr. Mcquillan,

Enclosed is the Construction Work Plan for the Off-Site Containment project.

I am providing this report on behalf of Sparton Technology, Inc.

Please feel free to call me if you have any questions. I can be contacted by Phone / Fax at: 505-864-1831, or by E-mail: [ahurst@flash.net](mailto:ahurst@flash.net)

Sincerely

A handwritten signature in black ink that reads "Tony Hurst". The signature is written in a cursive style with a prominent star-like flourish at the end of the name.

Tony Hurst

**Construction Work Plan: Off-Site Containment.  
February 8, 1999**

**Prepared for:**

**Sparton Technology, Inc.  
Coors Road Facility  
Albuquerque, New Mexico**

**Prepared by:**

**Tony Hurst**

**Hurst Engineering Services  
153 Camino de Sabinal  
Box 220  
Bosque, New Mexico 87006**

**(505) 864 1831**

**February 8, 1999**

# Construction Work Plan

## Off-Site Containment

### 1. Introduction

Sparton Technology, Inc., a New Mexico Corporation, is providing the following work in compliance with the requirements of the "WORK PLAN FOR THE OFF-SITE COINTAINMENT SYSTEM".

### 2. Project Manager:

The Project Manager for the work outlined here will be Tony Hurst, of Hurst Engineering Services.

He can be contacted by Phone / Fax at: 505-864-1831 or by phone at 505 269 9290  
Or by E-mail: [ahurst@flash.net](mailto:ahurst@flash.net)

His mailing address is:  
153 Camino de Sabinal  
P.O. Box 220  
Bosque, NM87006-0220

### 3. Construction Schedule:

Figure 1 outlines the main tasks (and associated durations) that comprise the construction schedule for the off-site containment project.

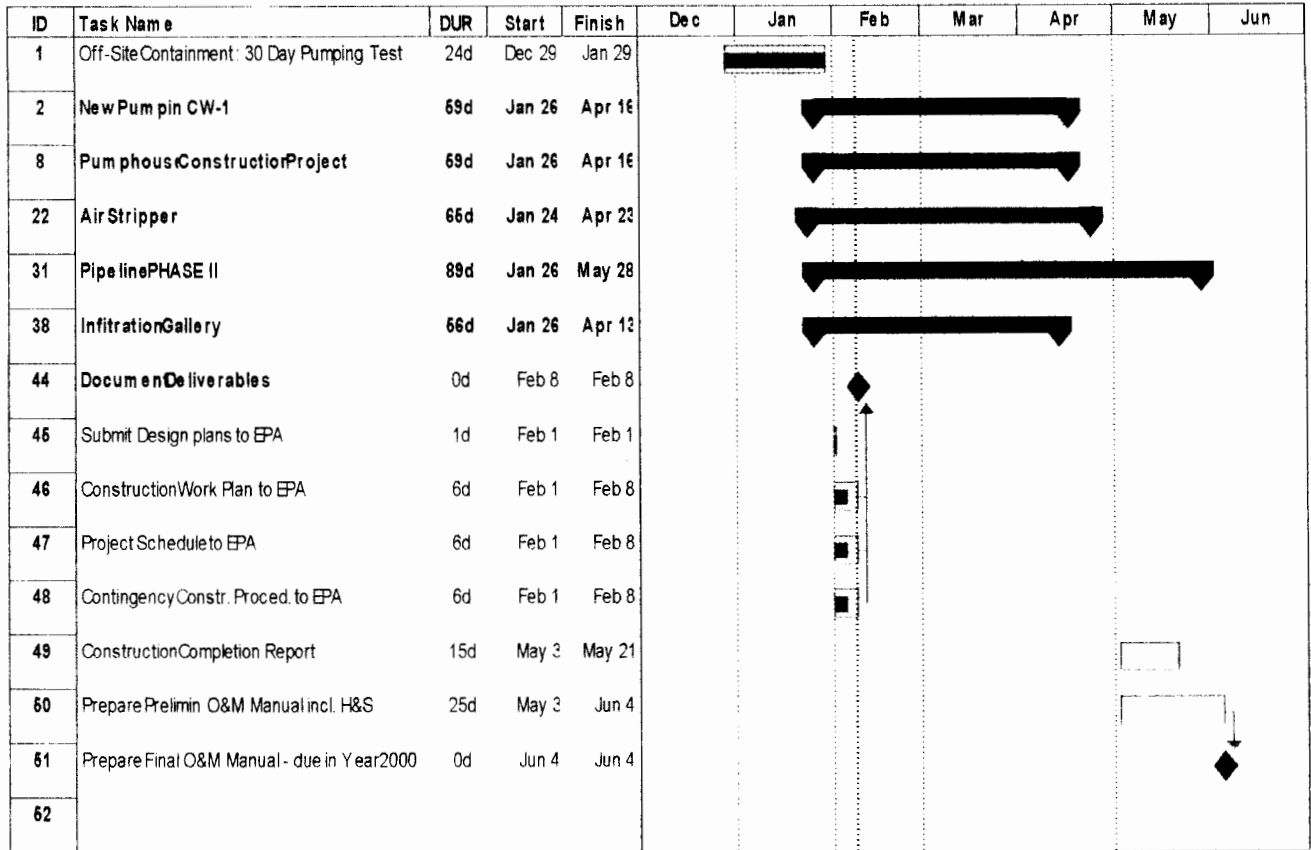


Figure 1

Construction Schedule for the off-site containment project.

#### **4. Construction Contingency Procedures:**

Contingency planning is a routine procedure used in the course of engineering any project. In the course of the development of the work plan and the schedule for the off-site containment, many issues were considered in the selection of the design, and the proposed construction sequence. These issues and contingency procedures are described below:

##### **4.1. Containment Well Pump**

The pump is not a critical path item. It will be ordered early so that it can sit on site. Any delays will be readily apparent, and alternative suppliers will be considered. If the pump is inadequate for any reason after it is installed, repair is generally possible within a couple of days. If necessary, the test pump will be put back in the well while the problem is being resolved.

##### **4.2. Air Stripper Building Permit**

Delays in obtaining this permit will be resolved by following the chain of authority within the city. If satisfactory solutions are not achievable, and the project is delayed, the court will be advised.

##### **4.3. Temporary Generator “noise levels”.**

This has been an issue and may continue to be one. Sound dampening shields installed to date have been effective. If new issues arise, additional sound dampening may need to be installed.

##### **4.4. Equipment Procurement delays**

The Project Manager and the responsible Project Engineer are required to track the progress of the equipment on (at a minimum) a weekly basis. Delays will be handled as follows:

- The Project Engineer will maintain an alternate equipment supplier list.
- If delays are inevitable, all parties will be notified within three days. A revised schedule and reasons for the delay will be provided.
- If the equipment supply contract is broken, alternative suppliers will be advised

##### **4.5. Building Contractor Issues.**

Attempts will be made to resolve the issues in a non-adversarial manner. If the contractor needs to be replaced, this will be done.

##### **4.6. Weather related Delays**

If unseasonably cold weather or snow occurred, the use of heaters, blankets, or temporary covers will be authorized to stay on schedule. Most of the construction activities are fairly routine and uncomplicated.

##### **4.7. Air Stripper**

The air stripper is required on site by March 29<sup>th</sup>. The same equipment procurement procedures will be followed as described under Section 4.4. In the unlikely event the stripper did not perform as required, additional trays can be installed. Additionally,

larger Blower motors could be obtained. The pumphouse has been sized to accommodate other equipment if needed.

#### 4.8. Construction of the pipeline.

Authority to proceed is dependent on the City.

The pipeline has been surveyed and all interferences (such as Utilities) have been plotted on drawings for the Contractor. This will reduce the unforeseen during the excavation.

However since unknowns do occur, three weeks float has been allowed in the schedule.

The pipe selected is a readily available shelf item.

#### 4.9. Infiltration Gallery

All permits to construct have been obtained. These include a lease from the city, the groundwater discharge plan by the NMED, AMAFCA approval, and the 404 permit.

Construction of the gallery will be subject to flood damage from the Arroyo. From a monetary standpoint, insurance options are being investigated. However, the excavation will be open for about 6 weeks during February and March. These are during the driest part of the year for this area, and the chances of flood damage are very low. There is some slack in the schedule, and in the event an isolated incident occurred, remedial measures (repair and replace) would not delay the project. However if a catastrophic event occurred such that the construction had to restart, a delay of up to two months could occur.

#### 5. Summary

The above describes some of the routine and extra efforts undertaken to ensure the timely completion of the off-site containment construction project. As in any undertaking, unforeseen events will cause delays, but these will be mitigated to the extent possible.