

**CLEAN**

**Contract Number N62474-88-D-5086**

**Contract Task Order 0111**

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**PRC Project Manager: Mr. Neil Bingert**

**NAVAL AUXILIARY LANDING FIELD  
CROWS LANDING**

**CONTRACT TASK ORDER 0111  
TECHNICAL DIRECTION  
REVISED WORK PLAN**

**Prepared By**

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TECHNICAL DIRECTION WORK PLAN

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## 1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received contract task order (CTO) 0111, from the Department of the Navy, Western Division, Naval Facilities Engineering Command (WESTDIV), under Comprehensive Long-term Environmental Action Navy (CLEAN) contract number N62474-88-D-5086. Under this CTO, PRC is conducting site investigation (SI) activities at Naval Auxiliary Landing Field (NALF) Crows Landing. Recently, PRC received a technical direction statement of work (SOW) from the Navy to further define SI activities. This work plan presents PRC's technical approach, including assumptions, tasks, and deliverables. It also outlines the anticipated schedule, management, staffing, and performance protocols (health and safety, and quality assurance) required to complete the tasks.

### 1.1 BACKGROUND

NALF Crows Landing is located in Stanislaus County, California, approximately 80 miles southeast of San Francisco. It covers approximately 1,500 acres on the western side of the San Joaquin River Valley. NALF Crows Landing is currently used as a practice field for Navy planes from Naval Air Station (NAS) Moffett Field, NAS Lemoore, and NAS Alameda. The facility consists of two runways and several support structures including a central tower, administration building, a club and exchange building, motor pool and public works shops, and storage facilities. A portion of NALF Crows Landing is also used by the National Aeronautics and Space Administration (NASA) as a research center.

### 1.2 PURPOSE

The purpose of the technical direction SOW for CTO 0111 is to define SI activities at NALF Crows Landing. These SI activities include ground-water elevation monitoring and a review of local irrigation practices and pesticide use. Information obtained from these activities will enhance the interpretation of previous SI work and will help plan future remedial investigation activities.

## 2.0 TECHNICAL APPROACH

The technical approach presented here is based on the CTO 0111 technical direction SOW and discussions with the WESTDIV engineer-in-charge (EIC), Ms. Camille Garibaldi. The tasks associated with this project are as follows:

Task 1.0 - Project Management

Task 2.0 - Ground-Water Elevation Measurements

Task 3.0 - Local Irrigation Practices Study

Section 2.1 describes the tasks and subtasks associated with this project. Section 2.2 identifies the assumptions used in preparing this work plan. Section 2.3 identifies the deliverables for this project.

### 2.1 TASKS

The following sections describe the tasks included in the CTO 0111 technical direction SOW.

#### Task 1.0 Project Management

The project management task includes the planning, administrative, and technical oversight activities associated with completing the SI activities. Planning and administrative activities include project scheduling and coordination, work plan preparation, completion of monthly status reports, invoice preparation and review, and reproduction and distribution of project related reports and documents. Technical oversight activities include technical review of the SI activities and subcontractor oversight.

Mr. Neil Bingert will manage all aspects of the project from work plan development through report preparation. Mr. Bingert will also be responsible for implementing and coordinating field activities.

### Task 2.0 Ground-Water Elevation Measurements

PRC will prepare a SOW, solicit bids, and procure a licensed land surveying subcontractor to perform the surveying activities for this CTO. Surveying will establish the elevation and horizontal position of all 27 existing ground-water monitoring wells at the facility relative to a common datum. Ground-water elevation measurements will then be taken at each well and a facility-wide, ground-water elevation map will be prepared.

### Task 3.0 Local Irrigation Practices Study

This task will include a brief evaluation of local irrigation practices and pesticide use in the agricultural areas surrounding the facility. In addition, the location, depth, and pumping regimes of nearby irrigation wells will be assessed. The irrigation practice information will be combined with the results of the ground-water elevation measurement study (Task 2.0) to better characterize the movement of ground water beneath the facility.

## **2.2 ASSUMPTIONS**

The assumptions used in preparing this work plan are described below.

- The period of performance for the CTO 0111 within scope technical directive will begin March 15, 1993 and end July 20, 1993.
- All activities to complete the CTO 0111 within scope technical directive tasks will be performed by PRC or its subcontractors.
- Where necessary, PRC will follow procedures outlined in the existing field sampling plan (FSP), quality assurance project plan (QAPjP), and health and safety plan (HSP) completed for CTO 0111. No additional FSP, QAPjP, or HSP will be prepared to complete the activities associated with this technical direction SOW.
- Adjustments to the work schedule, if necessary, will be made in consultation with the Navy EIC, NALF Crows Landing personnel, and the PRC project manager.
- Travel to complete the technical activities associated with this modification will be between the PRC Denver office and NALF Crows Landing, WESTDIV, or NAS

Moffett Field. The only additional travel required will be local travel in the vicinity of NALF Crows Landing.

- Task 1.0 will include a meeting between PRC and Navy personnel at WESTDIV prior to initiating any technical activities.
- Initiation of the on-site activities will be concurrent with the disposal of investigation-derived wastes generated during previous SI activities.
- Completion of Task 2.0 will require at least three rounds of ground-water elevation measurements, approximately 1 month apart.
- No samples will be collected during this investigation.

### 2.3 DELIVERABLES

The following deliverables will be produced to complete the within scope technical directive.

<u>Deliverable</u>	<u>Copies Required</u>	<u>Estimated Delivery Date</u>
Task 1.0 - Project Management Navy CLEAN monthly status and financial reports	1	20th of each month
Task 2.0 - Ground-Water Elevation Measurements - Ground-water elevation maps	10	Initial map - 30 calendar days after completing initial ground-water elevation measurement event. Subsequent maps - 15 calendar days after completing measurement events
Task 3.0 - Local Irrigation Practices Irrigation Practice and Pesticide Use - Draft Technical Memorandum	10	30 calendar days after initiating technical activities
Draft Final Technical Memorandum	10	15 calendar days after receipt of Navy comments
Final Technical Memorandum	10	15 calendar days after receipt of regulatory agency comments

### **3.0 SCHEDULE**

Figure 1 presents the proposed project schedule for the tasks described in Section 2.1. The schedule assumes that work on the CTO 0111 within scope technical directive will begin the week of March 15, 1993 and that all technical activities will be initiated by the week of April 5, 1993. The period of performance will extend through July 1993.

### **4.0 STAFFING**

Mr. Neil Bingert will provide the overall project management. Mr. Bingert will be responsible for coordination of all project activities and will be the primary contact for the Navy EIC. The quality assurance/quality control (QA/QC) for all tasks will be performed by P3 and P4 level senior staff. Project management and technical oversight will be performed by staff with experience in SI procedures and knowledge of applicable local, state, and federal regulations, criteria, and guidelines. Technical support for specific tasks will be provided by P1, P2, and P3 level staff members including hydrogeologists, environmental scientists, and engineers. Clerical staff will provide administrative support.

### **5.0 HEALTH AND SAFETY**

All work on this project will be performed in accordance with the PRC Navy CLEAN Health and Safety Program, dated October 24, 1989, and with the site-specific HSP (previously prepared). Subcontractors will be provided with a copy of the site-specific HSP and be required to sign an acknowledgement form stating that they are familiar with the contents of the plan.

### **6.0 QUALITY ASSURANCE**

All PRC work on this contract will be performed in accordance with PRC's Navy CLEAN Quality Control Management Plan dated January 17, 1990. Activities defined in this work plan may be subjected to a system audit conducted by the QA staff to check adherence to the QC management plan. Audit results will be included in the appropriate monthly status report.

# FIGURE 1

## CTO 0111 WITHIN SCOPE TECHNICAL DIRECTIVE PROPOSED PROJECT SCHEDULE

Task Name	Start Date	End Date	1993				
			Mar	Apr	May	Jun	Jul
Work Plan Approval	15-Mar-93	15-Mar-93					
Task 1.0	16-Mar-93	31-Jul-93					
Project Management	16-Mar-93	31-Jul-93					
Scoping Meeting	29-Mar-93	30-Mar-93					
Monthly Reports (5)	20-Mar-93	20-Jul-93					
Task 2.0	5-Apr-93	22-Jun-93					
Surveying	5-Apr-93	6-Apr-93					
GW Elev. Meas. (3)	7-Apr-93	7-Jun-93					
Map Submittal (3)	7-May-93	22-Jun-93					
Task 3.0	5-Apr-93	30-Jun-93					
Irrigation Study	5-Apr-93	30-Jun-93					
Draft Tech. Memo.	5-Apr-93	5-May-93					
Navy Review	5-May-93	15-May-93		■			
Draft Final Tech. Memo	15-May-93	1-Jun-93			■		
Reg. Agency Review	1-Jun-93	15-Jun-93				■	
Final Tech. Memo	15-Jun-93	30-Jun-93				■	