CLEAN

Contract No. N62474-88-D-5086

Contract Task Order No. 0270

Navy Remedial Project Manager: Roy Santana

PRC Project Manager: Barbara Sootkoos

NAVAL WEAPONS STATION
CONCORD, CALIFORNIA

# INLAND AREA SITES
# KINNE BOULEVARD WELLS
# WELL CLOSURE SUMMARY REPORT

NON-CIRCULATING

Prepared By

PRC ENVIRONMENTAL MANAGEMENT, INC.
135 Main Street, Suite 1800
San Francisco, CA 94105
415/543-4880

June 8, 1995

## CONTENTS


| Section | | Page |
|---|---|---|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | BACKGROUND | 1 |
| 2.0 | TECHNICAL APPROACH | 5 |
| 2.1 | TASK DESCRIPTIONS | 5 |
| 2.2 | WELL CLOSURE ACTIVITIES | 6 |
| 3.0 | SAMPLING AND ANALYSIS | 8 |
| REFERENCES | | 8 |


## FIGURES


| Figure | | Page |
|---|---|---|
| 1 | REGIONAL LOCATION MAP | 2 |
| 2 | SITE 14 - KINNE BOULEVARD WELLS LOCATION MAP | 3 |
| 3 | SITE 14 - KINNE BOULEVARD WELLS CROSS SECTION | 4 |


## ATTACHMENTS


| Attachment | |
|---|---|
| A | NOTIFICATION OF FIELD VARIANCE FORMS |
| B | GEOTECHNICAL COMPACTION TEST RESULTS AND LABORATORY ANALYTICAL RESULTS |
| C | LANDFILL MANIFESTS |
| D | PRC AND ECC QUALITY CONTROL DAILY LOGS |

# 1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received Contract Task Order (CTO) No. 0270 under Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract No. N62474-88-D-5086 from the Department of the Navy, Engineering Field Activity West (EFAWEST), Naval Facilities Engineering Command, to properly close and seal three abandoned water production wells in Inland Area Site 14 at the Naval Weapons Station (WPNSTA) Concord, California. WPNSTA Concord is in Contra Costa County at the location shown in Figure 1. PRC developed the work plan, and provided oversight of and technical guidance to Environmental Chemical Corporation (ECC), which was procured under the Navy's Remedial Action Contract Section 8(a) to perform the field work for the well closures.

## 1.1 BACKGROUND

As part of the site investigation (SI) conducted at WPNSTA Concord, three abandoned wells along Kinne Boulevard (Site 14) shown on Figure 2 were investigated in response to allegations that contaminated fuels may have been disposed of there in the past. Sampling and laboratory analysis of groundwater and sediment in the wells during the SI indicated no contaminants were present. To prevent the wells from serving as future contaminant pathways, however, the SI report (PRC/JMM 1993) included a recommendation that the abandoned wells be properly closed and sealed in accordance with the well closure requirements of Contra Costa County Health Services Department, Environmental Health Division (Contra Costa County). The California Department of Toxic Substances Control (DTSC) and the San Francisco Regional Water Quality Control Board (RWQCB) concurred with the recommendation.

The three Kinne Boulevard wells were installed in 1928 and used as municipal water wells until the early 1960s, when they were taken out of service. The SI report described the wells as consisting of double-walled, 12-inch, #12 gauge steel casing. The casing sections were 3 feet long and were not welded to each other. Filter packs and grout were not installed in the wells. Video logging was performed in August 1992, as part of the SI. The wells were video logged to depths of 69 feet in well CA-113, 149 feet in well CA-114, and 340 feet in well CA-115. The wells were also found to be clear of obstructions down to these depths except for a turbine pump shaft in well CA-114. Figure 3 presents the cross-section of the wells.

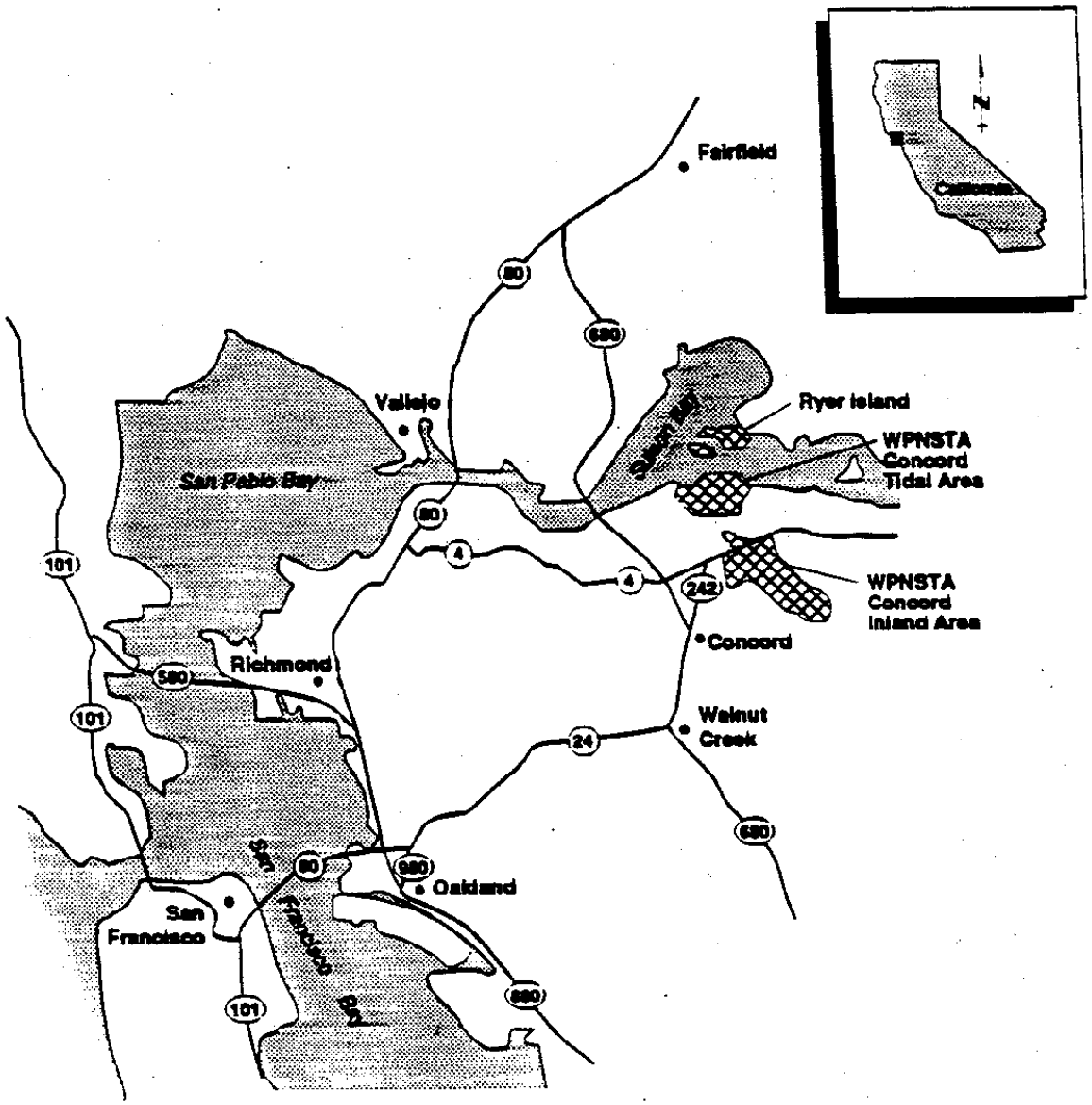
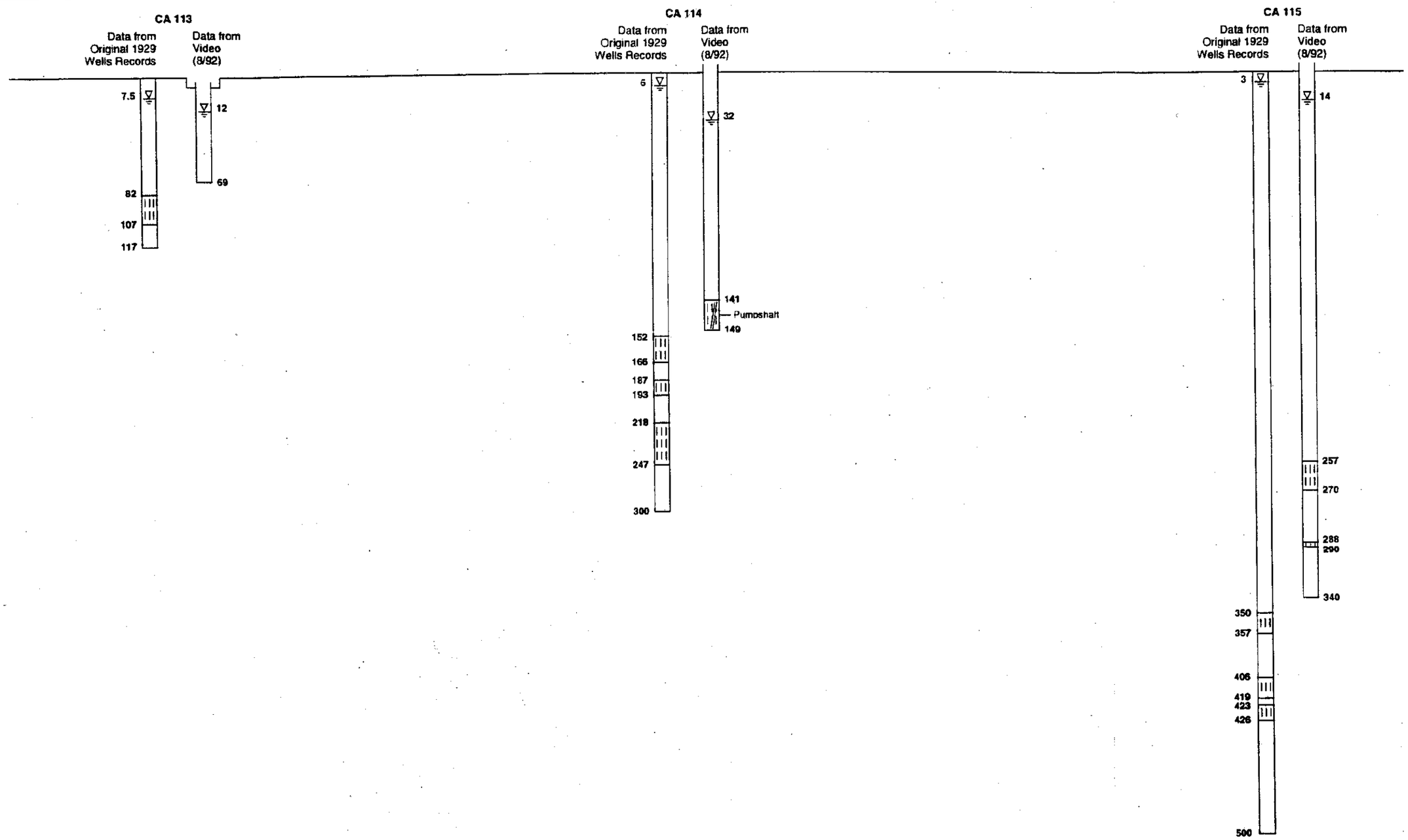

Fairfield
Vallejo
San Pablo Bay
Suisun Bay
Ryer Island
WPNSTA
Concord
Tidal Area
WPNSTA
Concord
Inland Area
Concord
Richmond
Walnut
Creek
Oakland
San
Francisco
San Francisco Bay
80
680
580
101
4
242
24
880
LEGEND:
WPNSTA Concord Property
0
5
10
SCALE IN MILES
WPNSTA CONCORD
REGIONAL LOCATION MAP
FIGURE 1
PRC ENVIRONMENTAL MANAGEMENT, INC.

Figure 2

This detailed station map has been deleted from the Internet-accessible version of this document as per Department of the Navy Internet security regulations.




LEGEND:

- Perforated Zone
- Static Water Level
- 117 Depth Below Ground Surface in Feet

NOT TO SCALE

SITE 14–KINNE BOULEVARD WELLS
CROSS SECTION

FIGURE 3

PRC ENVIRONMENTAL MANAGEMENT, INC.

When the 1928 drillers' well construction logs were compared to the 1992 video log, discrepancies were seen in both well depths and perforation locations. The wells apparently had silted up. The 1928 drillers' logs showed an original depth of 117 feet in CA-113, a depth of 300 feet in CA-114, and a depth of 500 feet in CA-115. The drillers' logs also described the depth of perforations in the well casings, but perforations were seen in the video log at depths not recorded in the drillers logs. Because of these discrepancies, Contra Costa County required (1) that the wells be drilled out to their original depths, (2) that the full length of the well casings be perforated, (3) that the turbine pump shaft from well CA-114 be removed, and (4) that the wells be pressure grouted from the original depths to the surface.

## 2.0 TECHNICAL APPROACH

The PRC well closure work plan and well destruction permit applications were initially filed with Contra Costa County in 1993 (PRC 1993). Contra Costa County requested that the plan be revised to include additional requirements for well closure because there were no geologic boring logs showing specific lithology and no data concerning possible aquitards, identification of regional aquifers, or possible routes of cross-contamination.

PRC subsequently prepared a revised well closure plan (PRC 1994). The revised well closure plan included (1) drilling out the interior of the wells to their original depths, (2) perforating the casings, (3) removing the turbine pumpshaft from CA-114, and (4) grouting the wells. The closure plan also included excavating around each wellhead to a 6-foot depth, cutting the top 6 feet of the casings, placing clean backfill in the excavation, and placing an asphalt patch over CA-113, located in a parking lot.

### 2.1 TASK DESCRIPTIONS

This section presents the description of the tasks performed by the Navy's CLEAN contractor, PRC.

**Task 1: Preparation of Closure Plan, Permit Application, and Summary Report**

PRC prepared the revised well closure plan, and ECC prepared the Contra Costa County well destruction permit application, for the three Kinne Boulevard wells. These documents were submitted

to the Navy for comment and approval. Subsequently, the plan and application were submitted to Contra Costa County for approval. PRC has prepared this well closure summary report following the completion of all closure activities for the Navy.

**Task 2: Preparation of Statement of Work and Government Cost Estimate**

PRC prepared a statement of work and an "Opinion of Probable Cost to Construct" estimate (PRC 1994) suitable for use by the Navy in the procurement of a qualified drilling contractor to properly close and seal the abandoned wells. In addition, PRC attended a kickoff meeting and conducted a site visit with EFAWEST and WPNSTA Concord personnel, ECC project managers, and ECC's drilling subcontractor, West Hazmat.

**Task 3: Technical Oversight for Well Closure**

The three Kinne Boulevard wells were closed and sealed per the revised well closure plan with field modifications as discussed in Section 2.2. PRC provided technical oversight of the Navy's drilling subcontractor, West Hazmat, during well closure activities.

**Task 4: Project Management**

PRC provided overall project management during all phases of the well closure activities. Project management tasks included both technical and administrative activities. Technical activities included project coordination among the Navy, the regulatory agencies, and the drilling contractor. Administrative activities included reproduction and distribution of project-related reports and other documents.

## 2.2 WELL CLOSURE ACTIVITIES

This section discusses the well closure activities by the Navy's Remedial Action Contract subcontractor, West Hazmat.

## CA-113

West Hazmat's drill rig was mobilized on March 27, 1995, to the first Kinne Boulevard well site. The drill rig used an air rotary system to clean out sediments that reportedly filled the inside well casing from a depth of 69 feet to 117 feet. The displaced water and sediments were pumped into a roll-off bin with a plastic liner. When the sediments settled out of suspension, the water was pumped from the roll-off bin into a Baker tank. The drill bit hit refusal at 76 feet. The drill rig attempted to push past the blockage using a hydraulic pressure of 20,000 pounds per square inch (psi), but failed. The Contra Costa County inspector allowed a field variance to perforate and grout the casing of CA-113 from the surface to a depth of 76 feet. Copies of all Notification of Field Variance forms are presented in Attachment A.

## CA-114

The drill rig was set up over well CA-114 on March 30, 1995. The drillers used an overshot fishing tool to pull out the pipe attached to the turbine pump shaft. The first attempts failed to grip the pipe, and the tool was modified by welding on a metal casing apron which would fit snugly into the well casing. The modified tool was ripped apart when it was forced over the pipe of the turbine shaft. The Contra Costa County inspector allowed a field variance to perforate the casing down to the depth of the pipe, approximately 138 feet, and to tremie grout the casing from the bottom of the well to the surface. The pump shaft was grouted in place. No sediment was removed from the well. Displaced water from the activities was pumped directly into the Baker tank.

## CA-115

Well destruction activities began at CA-115 on April 4, 1995. Sediments filled the well casing from a depth of 340 feet to 500 feet. Air rotary drilling removed sediments from the well. The displaced water and sediments were pumped into a plastic-lined roll-off bin, where the sediment settled out and the water was pumped into the Baker tank. A bend in the well casing prevented the drill bit from advancing further than 360 feet. The casing was perforated to a depth of 250 feet, where the casing collapsed. The county inspector allowed a field variance to perforate the casing to a depth of 250 feet, and grout the well from the surface to 360 feet.

All wells were grouted with an 11-sack neat cement mix per Contra Costa County requirements. A backhoe excavated around each wellhead to a depth of 6 feet, and removed the upper 6 feet of well casing. Clean backfill was placed in each excavation and compacted. A geotechnical compaction test was performed on CA-113, and the test results are presented in Attachment B. The asphalt around CA-113 was patched.

Sediments collected in the roll-off bins at CA-113 and CA-115 were sampled and analyzed for hazardous material before being sent to the disposal facility. The laboratory analytical results are presented in Attachment B, and the landfill manifests are presented in Attachment C. The areas around the former wellheads were then returned to their original conditions. Attachment D presents PRC's and ECC's quality control daily logs.

## 3.0 SAMPLING AND ANALYSIS

Sampling and analysis activities were performed on sediments collected from each well in separate roll-off bins. The analytical results proved the sediments to be non-hazardous, and the results were provided to the disposal facility. The sediments were disposed at the BFI - Keller Canyon facility at Pittsburg, California. The laboratory analytical results are presented in Attachment B.

## REFERENCES

PRC Environmental Management, Inc./James M. Montgomery Consulting Engineers, Inc. 1993. "Site Investigation Report Draft, Inland Area Sites, Naval Weapons Station Concord, California."

PRC. 1993. "Inland Area Kinne Boulevard Wells, Well Closure Work Plan, Naval Weapons Station, Concord, California."

PRC. 1994. "Inland Area Kinne Boulevard Wells, Well Closure Field Work Plan Final, Naval Weapons Station Concord, California."

ATTACHMENT A

NOTIFICATION OF FIELD VARIANCE FORMS

PRC Environmental Management, Inc
135 Main Street
Suite 1800
San Francisco, CA 94105
415-543-4880
Fax 415-543-5480

April 13, 1995

Mr. Roy Santana
Remedial Project Manager
Department of the Navy
Engineering Field Activity West
Naval Facilities Engineering Command
900 Commodore Way, Building 206
San Bruno, CA 94066-2402

**Subject:** **Kinne Blvd. Well Closures Field Variances**
**Naval Weapons Station, Concord, California**
**Contract No. N62474-88-D-5086, CTO 270**

Dear Mr. Santana:

PRC Environmental Management, Inc. (PRC), is pleased to enclose a copy of the Notification of Field Variance forms that were sent to Mr. Eric Fung at Contra Costa County's Environmental Health Division. The notification forms describe the changes in scope that occurred for the three Kinne Blvd. wells. These copies are for your file.

If you have any questions, please contact me at (415) 222-8288.

Sincerely,

Kay Pannell
Project Manager

Enclosure (1)

cc: Barbara Sootkoos, PRC
File

contains recycled fiber and is recyclable

PRC ENVIRONMENTAL MANAGEMENT, INC.

# NOTIFICATION OF FIELD VARIANCE

Project: Naval Weapons Station, Concord
Installation Restoration Program

Authority: Navy CLEAN Contract N62474-~~88~~-D-~~5086~~ 93 2242 / CTO 270

Site: INLAND X TIDAL _____ RASS _____

Field Variance No. 1

The following variance to authorized practice and/or scope is noted:

Well CA-113 has collapsed casing at 77 feet below surface. The drilling cannot punch through it. Drilling will perforated and grouted well to 77 feet. The well casing was cut at 18 inches below grade, not 6 feet, because ~~#~~ a concrete slab prevented the backhoe from excavating further.

*Impact to Budget (Estimate cost or LOE):*

none

Recorded by: Kay Parnell Date: 4/6/95

**Distribution:**

- [X] Mr. Roy Santana or Ronald Yee
  U.S. Navy - WESTDIV
  Fax - (415) 244-2553
- [ ] Ms. Susan Gladstone
  Regional Water Quality Control Board
  Fax - (510) 286-3986
- [ ] Mr. William Mabey
  Montgomery Watson
  Fax - (510) 975-3412
- [ ] Ms. Barbara Smith
  US Environmental Protection Agency
  Fax - (415) 744-1916
- [ ] Mr. James Pinasco
  California Department of Toxic Substances Control
  Fax - (916) 255-3697
- [X] Other:
  Mr. Eric Flint
  Contra Costa County
  Health Services Dept.

**Action Required:**

- [ ] URGENT. Response needed by: _____ (Date/Time) _____ (Name/Phone)
- [ ] At your convenience, review/provide comments _____ (Name/Company)
- [X] For Information Only. NO ACTION

PRC ENVIRONMENTAL MANAGEMENT, INC.

# NOTIFICATION OF FIELD VARIANCE

Project: Naval Weapons Station, Concord
Installation Restoration Program

Authority: Navy CLEAN Contract N62474-~~88~~ 93 2242 D ~~5086~~ / CTO 270

Site: INLAND X TIDAL _____ RASS _____

Field Variance No. 2

The following variance to authorized practice and/or scope is noted:

The pump shaft in well CA-114 cannot be removed as originally scoped. The fishing tool was ripped apart in the attempt. The well will be perforated down to the pump shaft and tremie grouted to surface

*Impact to Budget (Estimate cost or LOE):*

none

Recorded by: Kay Powell Date: 4/6/95

**Distribution:**

- [X] Mr. Roy Santana or Ronald Yee, U.S. Navy - WESTDIV, Fax - (415) 244-2553
- [ ] Mr. William Mabey, Montgomery Watson, Fax - (510) 975-3412
- [ ] Mr. James Pinasco, California Department of Toxic Substances Control, Fax - (916) 255-3697
- [ ] Ms. Susan Gladstone, Regional Water Quality Control Board, Fax - (510) 286-3986
- [ ] Ms. Barbara Smith, US Environmental Protection Agency, Fax - (415) 744-1916
- [X] Other: Mr. Eric Plaue, Contra Costa County Health Services Dept.

**Action Required:**

- [ ] URGENT. Response needed by: _____ (Date/Time) _____ (Name/Phone)
- [ ] At your convenience, review/provide comments _____ (Name/Company)
- [X] For Information Only. NO ACTION

PRC ENVIRONMENTAL MANAGEMENT, INC.

# NOTIFICATION OF FIELD VARIANCE

Project: Naval Weapons Station, Concord
Installation Restoration Program

Authority: Navy CLEAN Contract N62474-~~88~~-93 2242-D ~~5086~~ / CTO 270

Site: INLAND X TIDAL _____ RASS _____

Field Variance No. 3

The following variance to authorized practice and/or scope is noted:

The original scope, to perforate and grout well CA-115 from surface to 500 feet, was changed. A bend in the casing at 360 feet prevented tremie pipe from going to the bottom. Also the casing collapsed when the perforator was at 250 feet. CA-115 was perforated from 0-250 feet and grouted from 0-360 feet.

*Impact to Budget (Estimate cost or LOE):*

none.

Recorded by: Kay Parnell Date: 4/6/95

**Distribution:**

- ☒ Mr. Roy Santana or Ronald Yee, U.S. Navy - WESTDIV, Fax - (415) 244-2553
- ☐ Mr. William Mabey, Montgomery Watson, Fax - (510) 975-3412
- ☐ Mr. James Pinasco, California Department of Toxic Substances Control, Fax - (916) 255-3697
- ☐ Ms. Susan Gladstone, Regional Water Quality Control Board, Fax - (510) 286-3986
- ☐ Ms. Barbara Smith, US Environmental Protection Agency, Fax - (415) 744-1916
- ☒ Other: Mr. Eric Flint, Contra Costa County Health Services Dept.

**Action Required:**

- ☐ URGENT. Response needed by: _____ (Date/Time) _____ (Name/Phone)
- ☐ At your convenience, review/provide comments _____ (Name/Company)
- ☒ For Information Only. NO ACTION

# ATTACHMENT B

# GEOTECHNICAL COMPACTION TEST RESULTS AND LABORATORY ANALYTICAL RESULTS

ENVIRONMENTAL
CHEMICAL
CORPORATION

1240
Bayshore Highway
Burlingame, CA
94010

Tel: (415) 347-1555
Fax: (415) 347-4571

April 25, 2995

ENS Jeff Bornemann
Resident Officer in Charge of Construction
Naval Weapons Station Concord (Bldg.262)
10 Delta Street
Concord, CA 94520-5100

Ref: Abandoned Well Closures for the Inland Area at the
Concord Naval Weapons Station, Concord, California
**Submittals of Backfill Density Tests and Well Sediment Analytical**

Dear ENS Bornemann:

Please find attached the following submittals for your records:

1. The results of the compaction tests taken by Construction Materials Testing, Inc. of the backfill around the former Well CA 113.

2. A copy of the analytical results from the well sediment collected from the wells. The tests performed were:

   a. CAM metals (17 each)
   b. RCI
   c. SVOC, and VOC

Should you have any questions, please contact me.

Sincerely,

Steve R. Mueller
Project Manager

cc: Kay Parnell-PRC Environmental
Contract File

# RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table I

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Ag | | As | | Ba | |
|---|---|---|---|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million | Weight Percent | Parts per Million | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | < 0.000056 | < 0.56 | 0.000401 | 4.01 | 0.0134 | 134 |
| CA-115-03 | 0148690 | < 0.000051 | < 0.51 | 0.000505 | 5.05 | 0.0129 | 129 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst S D. Hatch
Date 4/17/95

# RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table II

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Be | | Cd | | Cr | |
|---|---|---|---|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million | Weight Percent | Parts per Million | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | 0.0000445 | 0.445 | 0.000308 | 3.08 | 0.00272 | 27.2 |
| CA-115-03 | 0148690 | 0.0000434 | 0.434 | 0.000262 | 2.62 | 0.00232 | 23.2 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst KSD Watal
Date 4/17/95

# RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table III

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Co | | Cu | | Mo | |
|---|---|---|---|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million | Weight Percent | Parts per Million | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | 0.00109 | 10.9 | 0.00509 | 50.9 | 0.000499 | 4.99 |
| CA-115-03 | 0148690 | 0.000962 | 9.62 | 0.00357 | 35.7 | 0.000474 | 4.74 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst [signature]
Date 4/17/95

# RJ Lee *Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table IV

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Ni | | Pb | | Sb | |
|---|---|---|---|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million | Weight Percent | Parts per Million | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | 0.00394 | 39.4 | 0.00328 | 32.8 | 0.0000896 | 0.896 |
| CA-115-03 | 0148690 | 0.00320 | 32.0 | 0.00446 | 44.6 | 0.0000942 | 0.942 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst K D Watts
Date 4/17/95

# RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table V

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Se | | Tl | | V | |
|---|---|---|---|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million | Weight Percent | Parts per Million | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | < 0.00045 | < 4.5 | 0.0000117 | 0.117 | 0.00269 | 26.9 |
| CA-115-03 | 0148690 | < 0.00041 | < 4.1 | 0.000014 | 0.14 | 0.00251 | 25.1 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst /S/ D. Natale
Date 4/17/95

# RJ Lee *Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table VI

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 17-Apr-95
Client Project: 5332
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 6010/7041(Sb)/7060(As)/7740(Se)/7841(Tl)

| Sample Identification | | Zn | |
|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | 0.00600 | 60.0 |
| CA-115-03 | 0148690 | 0.00757 | 75.7 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst KSD Natale
Date 4/17/95

# RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT
Table VII

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX: (415) 347-8789

| | |
|---|---|
| RJ Lee Group Job No.: | ACC504029 |
| Samples Received: | 11-Apr-95 |
| Report Date: | 17-Apr-95 |
| Client Project: | 5332 |
| Purchase Order No.: | NA |

Analysis: Bulk Samples
Method: EPA 7471

| Sample Identification | | Hg | |
|---|---|---|---|
| Client | RJ Lee Group | Weight Percent | Parts per Million |
| CA-113-03 | 0148685 | 0.00000567 | 0.0567 |
| CA-115-03 | 0148690 | 0.00000582 | 0.0582 |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst S.D. Nakles
Date 4/17/95

CONSTRUCTION MATERIALS TESTING, INC.

**Job Name:** NAVAL WEAPONS STATION PARKING LOT **Job No.:** 92594

**Sample Description:** 3/4 AB..... **Sample No.:** 1

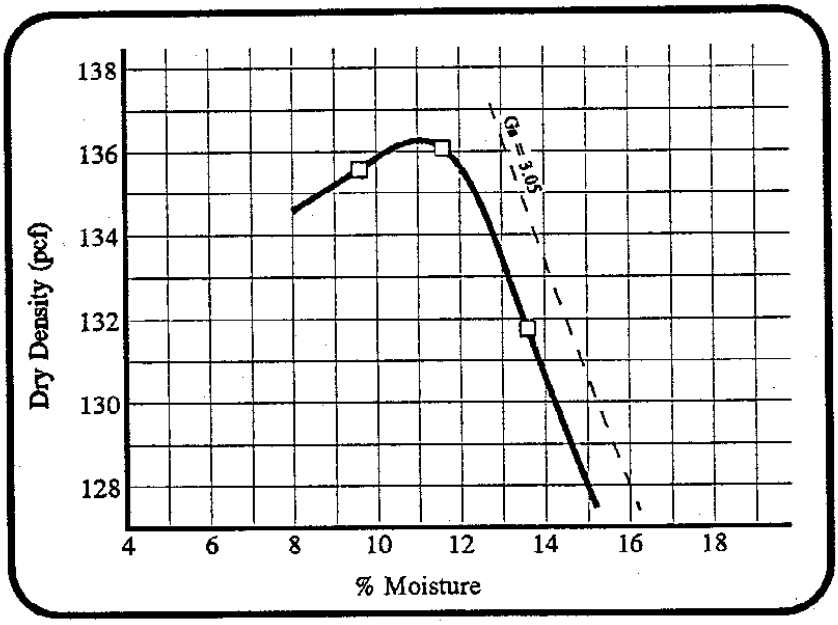
**Source:** RMC LONESTAR **Date:** 04/05/95

**Client Info:** ENVIRONMENTAL CHEMICAL CORP **Sampled By:** _____

**Classification Group Symbol:** _____ (From ASTM D 2487) **Tested By:** BJM

# ASTM D 1557 method C

Moisture-Density Relations of Soils and Soil Aggregate Mixtures




**MAX DENS = 136.3 pcf**

**OPT MOIST = 11.1 %**

Moisture Ranges:

| % Compaction | % Moisture |
|---|---|
| 95% | 0.0 – 14.4 |
| 90% | 0.0 – 17.1 |
| 85% | 0.0 – 20.1 |

## Lab Data

% Retained on ¾" sieve:

| Trial Number | 1 | 2 | 3 | | | |
|---|---|---|---|---|---|---|
| Wet Weight (g) | 5056 | 5168 | 5093 | | | |
| Wet Density (pcf) | 148.6 | 151.9 | 149.7 | | | |
| Dry Weight (g) | 4613 | 4630 | 4483 | | | |
| % Moisture | 9.6 | 11.6 | 13.6 | | | |
| Dry Density (pcf) | 135.6 | 136.1 | 131.8 | | | |

*Wet Density* { *Method A = 0.06614 × Wet Wt.* / *Method B,C,D = 0.02939 × Wet Wt.*

$$\%\ Moisture = 100 \times \frac{Wet\ Wt. - Dry\ Wt.}{Dry\ Wt.}$$

$$Dry\ Density = \frac{100 \times Wet\ Density}{100 + \%\ Moisture}$$


1000-U Detroit Avenue • Concord, CA 94518

(510) 825-2840 • FAX (510) 682-7953

# DAILY FIELD REPORT

JOB NO. or P O NO. 92594

PAGE 1 OF 1

| | | | |
|---|---|---|---|
| PROJECT NAME Concord Naval Weapon St. Well Project | CLIENT OR OWNER Environmental Chemical Corp. | | DAILY FIELD REPORT SEQUENCE NO. 1 |
| GENERAL LOCATION OF WORK Naval Weapons Parking Lot | OWNER OR CLIENT'S REPRESENTATIVE Stephan Mueller | DATE 4/7/95 | DAY OF WEEK FRI |
| GENERAL CONTRACTOR | GRADING CONTRACTOR | | PROJECT ENGINEER |
| TYPE OF WORK | GRADING CONTRACTOR'S SUPERINTENDENT OR FOREMAN | | SUPERVISOR |
| SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) | | WEATHER Cloudy | TECHNICIAN Brusker |

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

| TEST NUMBER | TEST LOCATION | ELEV (feet) | FIELD TESTING | | | REFERENCE CURVE | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | DRY DENSITY lbs /cu. ft. | MOISTURE CONTENT % | % OF MAXIMUM DRY DENSITY | COMP CURVE NO. | MAXIMUM DRY DENSITY lbs /cu. ft. | OPTIMUM MOISURE CONTENT % | |
| | Well excavation Backfill | F.G. | | | | | | | |
| 1 | center | -14" | 132.4 | 8.6 | 97 | 1 | 136.3 | 11.1 | |
| 2 | center | -8" | 129 | 8.3 | 95 | 1 | | | |

NOTES (Describe work completed during the day, any problems and their solutions)

Contractor backfilled and compacted well excavation. I tested compaction with good results

Construction material testing

JB

TIME BILLED 2 HRS., NO. OF VISITS CONTINUED ☐

RECEIVED BY COPY GIVEN TO

CMT-1

# RJ Lee*Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame CA 94010
Attention: Steve Mueller
Telephone: (415) 347-1555
FAX: (415) 347-8789

RJ Lee Group Project: ACC504029
Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148683 Client Sample No. CA-113-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Acenaphthene | 83-32-9 | 333 | BQL |
| Acenaphthylene | --- | 333 | BQL |
| Anthracene | 120-12-7 | 333 | BQL |
| Benzo(a)pyrene | 50-32-8 | 333 | BQL |
| Benzo(b)fluoranthene | 205-99-2 | 333 | BQL |
| Benzo(k)fluoroanthene | 207-08-9 | 333 | BQL |
| Benzo(a)anthracene | 56-55-3 | 333 | BQL |
| Benzo(g,h,i)perylene | 191-24-2 | 333 | BQL |
| Butylbenzyl phthalate | 85-68-7 | 333 | BQL |
| bis(2-chloroethyl) ether | 111-44-4 | 333 | BQL |
| bis(2-chloroethoxy) methane | 111-91-1 | 333 | BQL |
| bis(2-ethylhexyl) phthalate | 117-81-7 | 333 | BQL |
| bis(2-chloroisopropyl) ether | 108-60-1 | 333 | BQL |
| 4-Bromophenyl phenyl ether | 101-55-3 | 333 | BQL |
| 2-Chloronaphthalene | 91-58-7 | 333 | BQL |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 333 | BQL |
| Chrysene | 218-01-9 | 333 | BQL |
| Dibenzo(a,h)anthracene | 53-70-3 | 333 | BQL |
| Di-n-butyl phthalate | 87-74-2 | 333 | 830 |
| 1,2-Dichlorobenzene | 95-50-1 | 333 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 333 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 333 | BQL |
| 3,3'-Dichlorobenzidine | 91-94-1 | 1600 | BQL |
| Diethylphthalate | 84-66-2 | 333 | BQL |
| Dimethylphthalate | 131-11-3 | 333 | BQL |
| 2,4-Dinitrotoluene | 121-14-2 | 333 | BQL |
| 2,6-Dinitrotoluene | 606-20-2 | 333 | BQL |
| Di-n-octyl phthlate | 117-84-0 | 333 | BQL |
| Fluoranthene | 206-44-0 | 333 | BQL |
| Fluorene | 86-73-7 | 333 | BQL |
| Hexachlorobenzene | 118-74-1 | 333 | BQL |
| Hexachlorobutadiene | 87-68-3 | 333 | BQL |
| Hexachloroethane | 67-72-1 | 333 | BQL |
| Indeno(1,2,3-cd)pyrene | 133-39-5 | 333 | BQL |
| Isophorone | 78-59-1 | 333 | BQL |
| Naphthalene | 91-20-3 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Alan Levine

Date 4-19-95

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Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148683 Client Sample No. CA-113-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals) (continued)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Nitrobenzene | 98-95-3 | 333 | BQL |
| N-Nitroso-di-n-propylamine | 621-64-7 | 333 | BQL |
| N-Nitrosodimethylamine | 62-75-9 | 333 | BQL |
| N-Nitrosodiphenylamine | 86-30-6 | 333 | BQL |
| Phenanthrene | 85-01-8 | 333 | BQL |
| Pyrene | 129-00-0 | 333 | BQL |
| 1,2,4-Trichlorobenzene | 120-82-1 | 333 | BQL |
| Benzidine | 92-87-5 | 1600 | BQL |
| Hexachlorocyclopentadiene | 77-47-4 | 333 | BQL |
| 1,2-Diphenyl hydrazine | 122-66-7 | 333 | BQL |
| Pyridine | 110-86-1 | 333 | BQL |
| 4-Chloroaniline | 108-42-9 | 333 | BQL |
| 2-Nitroaniline | 88-74-4 | 1600 | BQL |
| 3-Nitroaniline | 99-09-9 | 1600 | BQL |
| 4-Nitroaniline | 106-47-8 | 1600 | BQL |
| Dibenzofuran | --- | 333 | BQL |
| 2-Methylnaphthalene | --- | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature [signature]

Date 4-19-95

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Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148683 Client Sample No. CA-113-01
Analytical Method EPA-SW846-8270 Semivolatiles (Acid)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| 4-Chloro-3-methylphenol | 59-50-7 | 333 | BQL |
| 2-Chlorophenol | 95-57-8 | 333 | BQL |
| 2,4-Dichlorophenol | 120-83-2 | 333 | BQL |
| 2,4-Dimethylphenol | 105-67-9 | 333 | BQL |
| 2,4-Dinitrophenol | 51-28-5 | 1600 | BQL |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1600 | BQL |
| 2-Nitrophenol | 554-84-7 | 333 | BQL |
| 4-Nitrophenol | 100-02-7 | 1600 | BQL |
| Pentachlorophenol | 87-86-5 | 1600 | BQL |
| Phenol | 108-95-2 | 333 | BQL |
| 2,4,6-Trichlorophenol | 88-06-2 | 333 | BQL |
| 2-Methylphenol | 95-48-7 | 333 | BQL |
| 3&4-Methylpenol | 108-39-4&106-44-5 | 333 | BQL |
| 2,4,5-Trichlorophenol | 95-95-4 | 1600 | BQL |
| Benzoic Acid | 65-85-0 | 1600 | BQL |
| Benzyl Alcohol | 100-51-6 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Alan Lemire

Date 4-19-95

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Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148686 Client Sample No. CA-114-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Acenaphthene | 83-32-9 | 333 | BQL |
| Acenaphthylene | --- | 333 | BQL |
| Anthracene | 120-12-7 | 333 | BQL |
| Benzo(a)pyrene | 50-32-8 | 333 | BQL |
| Benzo(b)fluoranthene | 205-99-2 | 333 | BQL |
| Benzo(k)fluoroanthene | 207-08-9 | 333 | BQL |
| Benzo(a)anthracene | 56-55-3 | 333 | BQL |
| Benzo(g,h,i)perylene | 191-24-2 | 333 | BQL |
| Butylbenzyl phthalate | 85-68-7 | 333 | BQL |
| bis(2-chloroethyl) ether | 111-44-4 | 333 | BQL |
| bis(2-chloroethoxy) methane | 111-91-1 | 333 | BQL |
| bis(2-ethylhexyl) phthalate | 117-81-7 | 333 | BQL |
| bis(2-chloroisopropyl) ether | 108-60-1 | 333 | BQL |
| 4-Bromophenyl phenyl ether | 101-55-3 | 333 | BQL |
| 2-Chloronaphthalene | 91-58-7 | 333 | BQL |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 333 | BQL |
| Chrysene | 218-01-9 | 333 | BQL |
| Dibenzo(a,h)anthracene | 53-70-3 | 333 | BQL |
| Di-n-butyl phthalate | 87-74-2 | 333 | 540 |
| 1,2-Dichlorobenzene | 95-50-1 | 333 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 333 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 333 | BQL |
| 3,3'-Dichlorobenzidine | 91-94-1 | 1600 | BQL |
| Diethylphthalate | 84-66-2 | 333 | BQL |
| Dimethylphthalate | 131-11-3 | 333 | BQL |
| 2,4-Dinitrotoluene | 121-14-2 | 333 | BQL |
| 2,6-Dinitrotoluene | 606-20-2 | 333 | BQL |
| Di-n-octyl phthlate | 117-84-0 | 333 | BQL |
| Fluoranthene | 206-44-0 | 333 | BQL |
| Fluorene | 86-73-7 | 333 | BQL |
| Hexachlorobenzene | 118-74-1 | 333 | BQL |
| Hexachlorobutadiene | 87-68-3 | 333 | BQL |
| Hexachloroethane | 67-72-1 | 333 | BQL |
| Indeno(1,2,3-cd)pyrene | 133-39-5 | 333 | BQL |
| Isophorone | 78-59-1 | 333 | BQL |
| Naphthalene | 91-20-3 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Ann Lazar

Date 4-19-95

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Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148686 Client Sample No. CA-114-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals) (continued)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Nitrobenzene | 98-95-3 | 333 | BQL |
| N-Nitroso-di-n-propylamine | 621-64-7 | 333 | BQL |
| N-Nitrosodimethylamine | 62-75-9 | 333 | BQL |
| N-Nitrosodiphenylamine | 86-30-6 | 333 | BQL |
| Phenanthrene | 85-01-8 | 333 | BQL |
| Pyrene | 129-00-0 | 333 | BQL |
| 1,2,4-Trichlorobenzene | 120-82-1 | 333 | BQL |
| Benzidine | 92-87-5 | 1600 | BQL |
| Hexachlorocyclopentadiene | 77-47-4 | 333 | BQL |
| 1,2-Diphenyl hydrazine | 122-66-7 | 333 | BQL |
| Pyridine | 110-86-1 | 333 | BQL |
| 4-Chloroaniline | 108-42-9 | 333 | BQL |
| 2-Nitroaniline | 88-74-4 | 1600 | BQL |
| 3-Nitroaniline | 99-09-9 | 1600 | BQL |
| 4-Nitroaniline | 106-47-8 | 1600 | BQL |
| Dibenzofuran | --- | 333 | BQL |
| 2-Methylnaphthalene | --- | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Allen Levine

Date 4-19-95

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RJ Lee Group Sample No. 0148686 Client Sample No. CA-114-01
Analytical Method EPA-SW846-8270 Semivolatiles (Acid)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| 4-Chloro-3-methylphenol | 59-50-7 | 333 | BQL |
| 2-Chlorophenol | 95-57-8 | 333 | BQL |
| 2,4-Dichlorophenol | 120-83-2 | 333 | BQL |
| 2,4-Dimethylphenol | 105-67-9 | 333 | BQL |
| 2,4-Dinitrophenol | 51-28-5 | 1600 | BQL |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1600 | BQL |
| 2-Nitrophenol | 554-84-7 | 333 | BQL |
| 4-Nitrophenol | 100-02-7 | 1600 | BQL |
| Pentachlorophenol | 87-86-5 | 1600 | BQL |
| Phenol | 108-95-2 | 333 | BQL |
| 2,4,6-Trichlorophenol | 88-06-2 | 333 | BQL |
| 2-Methylphenol | 95-48-7 | 333 | BQL |
| 3&4-Methylpenol | 108-39-4&106-44-5 | 333 | BQL |
| 2,4,5-Trichlorophenol | 95-95-4 | 1600 | BQL |
| Benzoic Acid | 65-85-0 | 1600 | BQL |
| Benzyl Alcohol | 100-51-6 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Allan Levine

Date 4-19-95

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RJ Lee Group Project: ACC504029
Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148688 Client Sample No. CA-115-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Acenaphthene | 83-32-9 | 333 | BQL |
| Acenaphthylene | --- | 333 | BQL |
| Anthracene | 120-12-7 | 333 | BQL |
| Benzo(a)pyrene | 50-32-8 | 333 | BQL |
| Benzo(b)fluoranthene | 205-99-2 | 333 | BQL |
| Benzo(k)fluoroanthene | 207-08-9 | 333 | BQL |
| Benzo(a)anthracene | 56-55-3 | 333 | BQL |
| Benzo(g,h,i)perylene | 191-24-2 | 333 | BQL |
| Butylbenzyl phthalate | 85-68-7 | 333 | BQL |
| bis(2-chloroethyl) ether | 111-44-4 | 333 | BQL |
| bis(2-chloroethoxy) methane | 111-91-1 | 333 | BQL |
| bis(2-ethylhexyl) phthalate | 117-81-7 | 333 | BQL |
| bis(2-chloroisopropyl) ether | 108-60-1 | 333 | BQL |
| 4-Bromophenyl phenyl ether | 101-55-3 | 333 | BQL |
| 2-Chloronaphthalene | 91-58-7 | 333 | BQL |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 333 | BQL |
| Chrysene | 218-01-9 | 333 | BQL |
| Dibenzo(a,h)anthracene | 53-70-3 | 333 | BQL |
| Di-n-butyl phthalate | 87-74-2 | 333 | 590 |
| 1,2-Dichlorobenzene | 95-50-1 | 333 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 333 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 333 | BQL |
| 3,3'-Dichlorobenzidine | 91-94-1 | 1600 | BQL |
| Diethylphthalate | 84-66-2 | 333 | BQL |
| Dimethylphthalate | 131-11-3 | 333 | BQL |
| 2,4-Dinitrotoluene | 121-14-2 | 333 | BQL |
| 2,6-Dinitrotoluene | 606-20-2 | 333 | BQL |
| Di-n-octyl phthlate | 117-84-0 | 333 | BQL |
| Fluoranthene | 206-44-0 | 333 | BQL |
| Fluorene | 86-73-7 | 333 | BQL |
| Hexachlorobenzene | 118-74-1 | 333 | BQL |
| Hexachlorobutadiene | 87-68-3 | 333 | BQL |
| Hexachloroethane | 67-72-1 | 333 | BQL |
| Indeno(1,2,3-cd)pyrene | 133-39-5 | 333 | BQL |
| Isophorone | 78-59-1 | 333 | BQL |
| Naphthalene | 91-20-3 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Alan Levine

Date 4-19-95

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RJ Lee Group Project: ACC504029
Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148688 Client Sample No. CA-115-01
Analytical Method EPA-SW846-8270 Semivolatiles (Base/Neutrals) (continued)

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Nitrobenzene | 98-95-3 | 333 | BQL |
| N-Nitroso-di-n-propylamine | 621-64-7 | 333 | BQL |
| N-Nitrosodimethylamine | 62-75-9 | 333 | BQL |
| N-Nitrosodiphenylamine | 86-30-6 | 333 | BQL |
| Phenanthrene | 85-01-8 | 333 | BQL |
| Pyrene | 129-00-0 | 333 | BQL |
| 1,2,4-Trichlorobenzene | 120-82-1 | 333 | BQL |
| Benzidine | 92-87-5 | 1600 | BQL |
| Hexachlorocyclopentadiene | 77-47-4 | 333 | BQL |
| 1,2-Diphenyl hydrazine | 122-66-7 | 333 | BQL |
| Pyridine | 110-86-1 | 333 | BQL |
| 4-Chloroaniline | 108-42-9 | 333 | BQL |
| 2-Nitroaniline | 88-74-4 | 1600 | BQL |
| 3-Nitroaniline | 99-09-9 | 1600 | BQL |
| 4-Nitroaniline | 106-47-8 | 1600 | BQL |
| Dibenzofuran | --- | 333 | BQL |
| 2-Methylnaphthalene | --- | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Allan Lesure

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| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| 4-Chloro-3-methylphenol | 59-50-7 | 333 | BQL |
| 2-Chlorophenol | 95-57-8 | 333 | BQL |
| 2,4-Dichlorophenol | 120-83-2 | 333 | BQL |
| 2,4-Dimethylphenol | 105-67-9 | 333 | BQL |
| 2,4-Dinitrophenol | 51-28-5 | 1600 | BQL |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1600 | BQL |
| 2-Nitrophenol | 554-84-7 | 333 | BQL |
| 4-Nitrophenol | 100-02-7 | 1600 | BQL |
| Pentachlorophenol | 87-86-5 | 1600 | BQL |
| Phenol | 108-95-2 | 333 | BQL |
| 2,4,6-Trichlorophenol | 88-06-2 | 333 | BQL |
| 2-Methylphenol | 95-48-7 | 333 | BQL |
| 3&4-Methylpenol | 108-39-4&106-44-5 | 333 | BQL |
| 2,4,5-Trichlorophenol | 95-95-4 | 1600 | BQL |
| Benzoic Acid | 65-85-0 | 1600 | BQL |
| Benzyl Alcohol | 100-51-6 | 333 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature [signature]

Date 4-19-95

# RJ Lee*Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame CA 94010
Attention: Steve Mueller
Telephone: (415) 347-1555
FAX: (415) 347-8789

| | |
|---|---|
| RJ Lee Group Project: | ACC504029 |
| Samples Received: | 11-April-95 |
| Report Date: | 19-April-95 |
| Client Project: | Job 5332 |
| Purchase Order No.: | Job 5332 |

RJ Lee Group Sample No. 0148684 Client Sample No. CA-113-02
Analytical Method EPA-SW846-8240 Volatiles

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Benzene | 71-43-2 | 50 | BQL |
| Bromodichloromethane | 75-27-4 | 50 | BQL |
| Bromoform | 75-25-2 | 50 | BQL |
| Bromomethane | 74-83-9 | 100 | BQL |
| Carbon Tetrachloride | 56-23-5 | 50 | BQL |
| Chlorobenzene | 108-90-7 | 50 | BQL |
| Chloroethane | 75-00-3 | 100 | BQL |
| 2-Chloroethylvinyl Ether | 100-75-8 | 100 | BQL |
| Chloroform | 67-66-3 | 50 | BQL |
| Cloromethane | 74-87-3 | 100 | BQL |
| Dibromochloromethane | 124-48-1 | 50 | BQL |
| 1,2-Dichlorobenzene | 95-50-1 | 50 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 50 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 50 | BQL |
| 1,1-Dichloroethane | 75-34-3 | 50 | BQL |
| 1,2-Dichloroethane | 107-06-2 | 50 | BQL |
| 1,1-Dichloroethene | 75-35-4 | 50 | BQL |
| trans-1,2-Dichloroethene | 156-60-5 | 50 | BQL |
| 1,2-Dichloropropane | 78-87-5 | 50 | BQL |
| cis-1,3-Dichloropropene | 10061-01-5 | 50 | BQL |
| trans-1,3-Dichloropropene | 10061-01-6 | 50 | BQL |
| Ethylbenzene | 100-41-4 | 50 | BQL |
| Methylene Chloride | 75-09-2 | 50 | BQL |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 50 | BQL |
| Tetrachloroethene | 127-18-4 | 50 | BQL |
| Toluene | 108-88-3 | 50 | BQL |
| 1,1,1-Trichloroethane | 71-55-6 | 50 | BQL |
| 1,1,2-Trichloroethane | 79-00-5 | 50 | BQL |
| Trichloroethene | 79-01-6 | 50 | BQL |
| Trichlorofluoromethane | 75-69-4 | 50 | BQL |
| Vinyl Chloride | 75-01-4 | 100 | BQL |
| Xylenes (total) | 1330-20-7 | 50 | BQL |
| Acetone | 67-64-1 | 1000 | BQL |
| Carbon Disulfide | 75-15-0 | 500 | BQL |
| 2-Butanone | 78-93-3 | 1000 | BQL |
| Vinyl Acetate | 108-05-4 | 500 | BQL |
| 4-Methyl-2-Pentanone | 108-10-1 | 500 | BQL |
| 2-Hexanone | 591-78-6 | 500 | BQL |
| Styrene | 100-42-5 | 50 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature _____

Date 4-19-95

# RJ Lee*Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame CA 94010
Attention: Steve Mueller
Telephone: (415) 347-1555
FAX: (415) 347-8789

RJ Lee Group Project: ACC504029
Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148687 Client Sample No. CA-114-02
Analytical Method EPA-SW846-8240 Volatiles

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Benzene | 71-43-2 | 50 | BQL |
| Bromodichloromethane | 75-27-4 | 50 | BQL |
| Bromoform | 75-25-2 | 50 | BQL |
| Bromomethane | 74-83-9 | 100 | BQL |
| Carbon Tetrachloride | 56-23-5 | 50 | BQL |
| Chlorobenzene | 108-90-7 | 50 | BQL |
| Chloroethane | 75-00-3 | 100 | BQL |
| 2-Chloroethylvinyl Ether | 100-75-8 | 100 | BQL |
| Chloroform | 67-66-3 | 50 | BQL |
| Cloromethane | 74-87-3 | 100 | BQL |
| Dibromochloromethane | 124-48-1 | 50 | BQL |
| 1,2-Dichlorobenzene | 95-50-1 | 50 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 50 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 50 | BQL |
| 1,1-Dichloroethane | 75-34-3 | 50 | BQL |
| 1,2-Dichloroethane | 107-06-2 | 50 | BQL |
| 1,1-Dichloroethene | 75-35-4 | 50 | BQL |
| trans-1,2-Dichloroethene | 156-60-5 | 50 | BQL |
| 1,2-Dichloropropane | 78-87-5 | 50 | BQL |
| cis-1,3-Dichloropropene | 10061-01-5 | 50 | BQL |
| trans-1,3-Dichloropropene | 10061-01-6 | 50 | BQL |
| Ethylbenzene | 100-41-4 | 50 | BQL |
| Methylene Chloride | 75-09-2 | 50 | BQL |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 50 | BQL |
| Tetrachloroethene | 127-18-4 | 50 | BQL |
| Toluene | 108-88-3 | 50 | BQL |
| 1,1,1-Trichloroethane | 71-55-6 | 50 | BQL |
| 1,1,2-Trichloroethane | 79-00-5 | 50 | BQL |
| Trichloroethene | 79-01-6 | 50 | BQL |
| Trichlorofluoromethane | 75-69-4 | 50 | BQL |
| Vinyl Chloride | 75-01-4 | 100 | BQL |
| Xylenes (total) | 1330-20-7 | 50 | BQL |
| Acetone | 67-64-1 | 1000 | BQL |
| Carbon Disulfide | 75-15-0 | 500 | BQL |
| 2-Butanone | 78-93-3 | 1000 | BQL |
| Vinyl Acetate | 108-05-4 | 500 | BQL |
| 4-Methyl-2-Pentanone | 108-10-1 | 500 | BQL |
| 2-Hexanone | 591-78-6 | 500 | BQL |
| Styrene | 100-42-5 | 50 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Allen Stevens

Date 4-19-95

# RJ Lee*Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame CA 94010
Attention: Steve Mueller
Telephone: (415) 347-1555
FAX: (415) 347-8789

RJ Lee Group Project: ACC504029
Samples Received: 11-April-95
Report Date: 19-April-95
Client Project: Job 5332
Purchase Order No.: Job 5332

RJ Lee Group Sample No. 0148689 Client Sample No. CA-115-02
Analytical Method EPA-SW846-8240 Volatiles

| Organic Compound | CAS Number | Quantitation Limit (ppb) | Concentration (ppb) |
|---|---|---|---|
| Benzene | 71-43-2 | 50 | BQL |
| Bromodichloromethane | 75-27-4 | 50 | BQL |
| Bromoform | 75-25-2 | 50 | BQL |
| Bromomethane | 74-83-9 | 100 | BQL |
| Carbon Tetrachloride | 56-23-5 | 50 | BQL |
| Chlorobenzene | 108-90-7 | 50 | BQL |
| Chloroethane | 75-00-3 | 100 | BQL |
| 2-Chloroethylvinyl Ether | 100-75-8 | 100 | BQL |
| Chloroform | 67-66-3 | 50 | BQL |
| Cloromethane | 74-87-3 | 100 | BQL |
| Dibromochloromethane | 124-48-1 | 50 | BQL |
| 1,2-Dichlorobenzene | 95-50-1 | 50 | BQL |
| 1,3-Dichlorobenzene | 541-73-1 | 50 | BQL |
| 1,4-Dichlorobenzene | 106-46-7 | 50 | BQL |
| 1,1-Dichloroethane | 75-34-3 | 50 | BQL |
| 1,2-Dichloroethane | 107-06-2 | 50 | BQL |
| 1,1-Dichloroethene | 75-35-4 | 50 | BQL |
| trans-1,2-Dichloroethene | 156-60-5 | 50 | BQL |
| 1,2-Dichloropropane | 78-87-5 | 50 | BQL |
| cis-1,3-Dichloropropene | 10061-01-5 | 50 | BQL |
| trans-1,3-Dichloropropene | 10061-01-6 | 50 | BQL |
| Ethylbenzene | 100-41-4 | 50 | BQL |
| Methylene Chloride | 75-09-2 | 50 | BQL |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 50 | BQL |
| Tetrachloroethene | 127-18-4 | 50 | BQL |
| Toluene | 108-88-3 | 50 | BQL |
| 1,1,1-Trichloroethane | 71-55-6 | 50 | BQL |
| 1,1,2-Trichloroethane | 79-00-5 | 50 | BQL |
| Trichloroethene | 79-01-6 | 50 | BQL |
| Trichlorofluoromethane | 75-69-4 | 50 | BQL |
| Vinyl Chloride | 75-01-4 | 100 | BQL |
| Xylenes (total) | 1330-20-7 | 50 | BQL |
| Acetone | 67-64-1 | 1000 | BQL |
| Carbon Disulfide | 75-15-0 | 50 | BQL |
| 2-Butanone | 78-93-3 | 100 | BQL |
| Vinyl Acetate | 108-05-4 | 500 | BQL |
| 4-Methyl-2-Pentanone | 108-10-1 | 500 | BQL |
| 2-Hexanone | 591-78-6 | 500 | BQL |
| Styrene | 100-42-5 | 50 | BQL |

ND Not Determined
BQL Below Quantitation Limit

Authorized Signature Alan Levine

Date 4-19-95

# RJ Lee *Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT

ENVIRONMENTAL CHEMICAL CORPORATION
1240 BAYSHORE HIGHWAY
BURLINGTON CA 94010

Attention: STEVE MUELLER
415-347-1555 FAX 415-347-8789
Analysis: TPH
Method: EPA 418.1

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 14-Apr-95
Client Project: JOB 5332
Purchase Order No.:

| Sample Identification | | TPH |
|---|---|---|
| | | CAS Registry No |
| | | NA |
| | | Concentration |
| Client | RJ Lee Group | (mg/kg) |
| CA-113-01 | 0148683 | 23.8 |
| CA-114-01 | 0148686 | 74.5 |
| CA-115-01 | 0148688 | 129 |

% SOLIDS- CA113-01=2.7%, CA114-01=13.2%, CA115-01=16.56%

NA=NOT APPLICABLE

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst [signature]
Date 04/14/95



FAX NO. 4127331799 RJ LEE GROUP, INC. P 01/07

# RJ Lee *Group*, Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (412) 325-1776 Fax (412) 733-1799

## LABORATORY REPORT

Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, CA 94010
Attention: Steve Mueller
(415) 347-1555 FAX (415) 347-8789

RJ Lee Group Job No.: ACC504029
Samples Received: 11-Apr-95
Report Date: 14-Apr-95
Client Project: NA
Purchase Order No.: NA

Analysis: Bulk Samples
Method: EPA 9040

| Sample Identification | | Corrosivity (pH) |
|---|---|---|
| Client | RJ Lee Group | |
| CA-113-01 | 0148683 | 7.0 Units |
| CA-114-01 | 0148686 | 6.9 Units |
| CA-115-01 | 0148688 | 6.9 Units |

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

Analyst Lien Lainie
Date 4-20-95

# RJ Lee Group, Inc., Sample Transmittal Form



Company: ENVIRONMENTAL CHEMICAL CORP.
Address: 1240 BAYSHORE HIGHWAY
BURLINGAME, CA 94010
Attn: STEVE MUELLER
Phone: (415) 347-1555 FAX: (415) 347-8789
Special Instr./Other T.A.T.:

| Analysis Type | Turn Around Time |
|---|---|
| TRPH- 418.1 | [ ] 24 Hours |
| VOC | [ ] 48 Hours |
| SVOC | [ ] 72 Hours |
| RCI | [X] 5 Days |
| CAM METALS | [ ] 10 Days |
| | Other: |

P.O. No.: JOB No.: 5352
Project Name/Location: CONCORD NAVAL WEAPONS STA. - WELL ABANDONMENT
Sampled By: STEVE MUELLER Date: 4-7-95

| | |
|---|---|
| Date: 4-7-95 | Description: ANALYSIS OF WELL WATER/SEDIMENT - TRPH, SVOC, RCI |
| Sample Number: CA 113-01 | Location: WELL NO. CA 113 - CONCORD NAVAL WEAP. STA. |
| Date: 4-7-95 | Description: ~~WATER~~ WELL WATER/SEDIMENT - VOC |
| Sample Number: CA-113-02 | Location: WELL NO. CA 113 - CONCORD NAVAL WEAP. STA. |
| Date: 4-7-95 | Description: WELL SEDIMENT - CAM 17 METALS |
| Sample Number: CA-113-03 | Location: WELL CA 113 - CONCORD NAVAL WEAPONS STATION |
| Date: 4-7-95 | Description: WELL WATER/SEDIMENT - TRPH, SVOC, RCI |
| Sample Number: CA-114-01 | Location: WELL CA 114 - CONCORD NAVAL WEAPONS STA. |
| Date: 4-7-95 | Description: WELL WATER/SEDIMENT - VOC |
| Sample Number: CA-114-02 | Location: WELL CA 114 - CONCORD NAVAL WEAPONS STATION |
| Date: 4-7-95 | Description: WELL WATER/SEDIMENT - TRPH, SVOC, RCI |
| Sample Number: CA-115-01 | Location: WELL CA 115 - CONCORD NAVAL WEAPONS STA. |
| Date: 4-7-95 | Description: WELL WATER/SEDIMENT - VOC |
| Sample Number: CA-115-02 | Location: ~~CA~~ WELL CA 115 - CONCORD NAVAL WEAP. STA. |
| Date: 4-7-95 | Description: WELL SEDIMENT - CAM 17 METALS |
| Sample Number: CA-115-03 | Location: WELL CA 115 - CONCORD NAVAL WEAPONS ST. |

Chain of Custody:

| Date: | Time: | Relinquished By: | Company: | Received By: | Company: |
|---|---|---|---|---|---|
| 4-7-95 | 1:20 pm. | | ECC | | RJLG |
| | | | | | |
| | | | | | |

# ATTACHMENT C

# LANDFILL MANIFESTS

# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

**No. 663702**

## Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Concord Naval Weapons Station
b. Generating Location: Former Water Domestic Wells
c. Address: 10 Delta St. Concord, CA 94520
d. Address: 10 Delta St. Concord, CA
e. Phone No.: (510) 246-5080
f. Phone No.: (510) 246-5080

If owner of the generating facility differs from the generator, provide:

g. Owner's Name:
h. Owner's Phone No.:

i. BFI WASTE CODE: CA 114 304249 570327

Containers

j. Description of Waste: Domestic Water Well Sediment.

k. Quantity: 00004 Units: Y No.: 01 TYPE: CM

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Steve Mueller — Generator Authorized Agent Name
[signature] — Signature
042595 — Shipment Date

## Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### TRANSPORTER I

a. Name: ALLWASTE
b. Address: 395 W. Channel Benicia CA.
c. Driver Name/Title: Dale White (PRINT/TYPE)
d. Phone No.: 1-800-800-7472
e. Truck No.: 101
f. Vehicle License No./State: 4614927

Acknowledgement of Receipt of Materials.

g. Dale White — Driver Signature
042595 — Shipment Date

### TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.:
l. Truck No.:
m. Vehicle License No./State:

Acknowledgement of Receipt of Materials.

n. Driver Signature
Shipment Date

## Section III DESTINATION (Generator completes a-d, destination site completes e-f.)

a. Site Name:
c. Phone No.:
b. Physical Address:
d. Mailing Address:
e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Mike Duffey — Name of Authorized Agent
[signature] — Signature
042595 — Receipt Date

## Section IV ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name:
b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

**OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title:
Operator's* Signature
Date

ATTACHMENT D

PRC AND ECC QUALITY CONTROL DAILY LOGS

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-88-D-5086
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

DAILY FIELD PROGRESS REPORT

I. Site Conditions

Arrival date/time on site: 3/27/94, 0700 Weather: sunny,warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Delivery truck operators

Equipment on site: Support truck, delivery trucks

Quality control activities:

Health and Safety levels/activities: Level D

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

II. Work Performed

Delivery of 2 roll-off bins, 2 baker tanks, and fencing sections. Driller's helpers dug ditch to drain off water around CA-115.

III. Problems Encountered/Correction Action Taken

Drill rig did not show up because foreman had personal emergency. The baker tank and roll-off bin delivery trucks were stuck in the mud at CA-114 and the support truck had to pull them out.

IV. Changes to current work schedule/plan

Drilling will begin a day late.

V. Special Notes:

The northern culvert at CA-115 was dammed to prevent more water from flooding the site. A ditch was dug to drain ponded water into the golf course culvert off-site.

VI. Tomorrow's Expectations

Begin drilling at CA-113 at 0730. Ponded water at CA-115 will be pumped out.

Departure time: 1100 hours Signed: Kay Pannell 3/27/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-88-D-5086
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 3/28/95, 0650 Weather:sunny, warm

PRC personnel on site: Kay Pannell, John Bosche

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Jim Engelman & Jeff Borneman, ROICC; Don Azevedo, West Hazmat; John Bosche, PRC

Equipment on site: Drill rig, support truck

Quality control activities: Tailgate safety meeting, drill rig check list

Health and Safety levels/activities: Level D

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

## II. Work Performed

Well CA-113 was drilled out to 76 feet depth. The 12-inch diameter drill bit encountered a hard obstruction. A 6-inch diameter drill bit was used. It encountered obstruction. Wear pattern indicates metal.

## III. Problems Encountered/Correction Action Taken

The drill rig could not punch through the obstruction. Work is halted until Contra Costa County inspector can be consulted.

## IV. Changes to current work schedule/plan

Waiting to consult with regulators.

## V. Special Notes:

John Bosche suggested using a backhoe tomorrow to drain CA-115 more quickly, and put gravel down. Steve Mueller said a backhoe operator on WPNSTA Concord said he could put down gravel at the well.

## VI. Tomorrow's Expectations

Attempt to perforate and grout 76 feet of well.

Departure time: 1620 Signed: Kay Pannell 3/28/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-88-D-5086
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 3/29/95, 0650 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Eric Fong, Terry Schmidtbauer, County inspectors.

Equipment on site: Drill rig, support truck, cement truck, pump truck, roll-off bin, baker tank, mud pump system

Quality control activities:

Health and Safety levels/activities: Level D

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

## II. Work Performed

Drilled to 77 feet, hit refusal. Perforated CA-113 at 5 perforations per foot from 77 feet to surface. Tremie grouted well with an 11-sack mix and 5 gallons water/sack.

## III. Problems Encountered/Correction Action Taken

County inspector could not witness grout until 3:00 p.m. Four hours of standby time for drillers.

## IV. Changes to current work schedule/plan

None.

## V. Special Notes:

## VI. Tomorrow's Expectations

Set up over CA-114 and begin fishing for pump shaft.

Departure time: 1610 Signed: Kay Pannell 3/29/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-88-D-5086
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 3/30/95, 0650 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Jim Engelman; Don Azevedo

Equipment on site: Drill rig, support truck, backhoe, baker tank, roll-off bin, fishing tool, impression tool

Quality control activities:

Health and Safety levels/activities: Level D

PRC H&S officer: Kay Pannell, RAC H&S officer: Steve Mueller

## II. Work Performed

Used fishing tool at well CA-114 to attempt to remove pump shaft. Used backhoe to trench at CA-115 to allow standing water to drain away from the wellhead.

## III. Problems Encountered/Correction Action Taken

The fishing tool failed to grab the pump shaft. An impression tool was run down the well to confirm the size of the shaft. It appears that the shaft was caught between the outside of the fishing tool and the wall of the casing.

## IV. Changes to current work schedule/plan

A well hook will be welded onto the fishing tool this evening and used in the morning to pull the pump shaft out.

## V. Special Notes:

Drillers were on standby time from 1305 to 1630 hours. Steve Mueller will not be on site tomorrow; Kay Pannell will perform the tailgate safety meeting.

## VI. Tomorrow's Expectations

The pump shaft will be removed and sediments will be drilled out.

Departure time: 1730 hours Signed: Kay Pannell 3/30/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-93-D-2242
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 3/31/95, 0655 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: West Hazmat

Regulators/visitors on site: None

Equipment on site: Drill rig, backhoe, support truck, baker tank, roll-off bin

Quality control activities:

Health and Safety levels/activities: Level D, tailgate safety meeting

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

## II. Work Performed

Sent the fishing tool down to pull pump shaft out of well. Fishing tool was mangled. Sent 260 feet of tremie pipe down well to check that the area is open.

## III. Problems Encountered/Correction Action Taken

The fishing tool was destroyed. The pump shaft cannot be pulled out by this tool. The County inspector was called to verify that we can tremie grout the well with the pump in place.

## IV. Changes to current work schedule/plan

The County inspector will be on site at 0800 hours, 4/3/95, to make a decision on well CA-114.

## V. Special Notes:

Drillers were sent home at 1230 hours. Any options on the well closure require the County inspector, who will not be available until 4/3/95.

## VI. Tomorrow's Expectations

Departure time: 1240 hours Signed: Kay Pannell 3/31/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-93-D-2242
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

DAILY FIELD PROGRESS REPORT

I. Site Conditions

Arrival date/time on site: 4/3/95, 0730 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Eric Fong, Andal Amado

Equipment on site: drill rig, support truck, backhoe, baker tank, roll-off bin, water pump, pump truck, cement truck

Quality control activities:

Health and Safety levels/activities: Level D, tailgate safety meeting

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

II. Work Performed

CA-114 was perforated from 0 to 138 feet, and grouted. The pump shaft could not be removed and was grouted in place.

III. Problems Encountered/Correction Action Taken

None.

IV. Changes to current work schedule/plan

None.

V. Special Notes:

None.

VI. Tomorrow's Expectations

Begin cleaning out CA-115, and perforate it.

Departure time: 1620 Signed: Kay Pannell 4/3/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-93-D-2242
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 4/4/95, 0725 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Rich Pieper, Michael Della-Rocca

Equipment on site: drill rig, backhoe, support truck, roll-off bin, baker tank, water pump

Quality control activities:

Health and Safety levels/activities: Level D, tailgate safety meeting

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

## II. Work Performed

Delivered gravel to provide a level work surface. Cleaned out CA-115 to 360 feet, and pumped water into roll-off bin.

## III. Problems Encountered/Correction Action Taken

The casing of CA-115 bends at about 360 feet; the drill bit cannot get past it. The County inspector has approved perforating and grouting from 350 feet.

## IV. Changes to current work schedule/plan

None. We are ahead of schedule.

## V. Special Notes:

The landscape contractor wants us to smooth over the tire ruts behind the wells so that the lawnmower can function. We will smooth area over after grouting CA-115.

## VI. Tomorrow's Expectations

Perforate and grout CA-115 from 350 feet to surface.

Departure time: 1630 Signed: Kay Pannell 4/4/95

KINNE BOULEVARD WELL CLOSURES
NAVAL WEAPONS STATION CONCORD
CONTRACT NO: N62474-93-D-2242
CONTRACT TASK ORDER NO.: 044-270IRRATO
PRC PROJECT MANAGER: KAY PANNELL

# DAILY FIELD PROGRESS REPORT

## I. Site Conditions

Arrival date/time on site: 4/5/95 Weather: sunny, warm

PRC personnel on site: Kay Pannell

Contractor/subcontractor on site: ECC, West Hazmat

Regulators/visitors on site: Michael Della-Rocca, Eric Fung, Navy staff engineer

Equipment on site: drill rig, support truck, roll-off bin, baker tank, pump truck, cement truck

Quality control activities:

Health and Safety levels/activities: Level D, tailgate safety meeting

PRC H&S officer: Kay Pannell RAC H&S officer: Steve Mueller

## II. Work Performed

Perforate 250 feet of casing at well CA-115, and grout 360 feet.

## III. Problems Encountered/Correction Action Taken

The casing collapsed at 250 feet during perforation, but it was clear enough to grout to 360 feet.

## IV. Changes to current work schedule/plan

None. Ahead of schedule.

## V. Special Notes:

None.

## VI. Tomorrow's Expectations

Cut off 6 feet of casing for CA-115 and CA-113, backfill and compact. Drillers will smooth out areas of heavy usage.

Departure time: 1645 Signed: Kay Pannell 4/5/95

# ENVIRONMENTAL CHEMICAL CORPORATION
## TAILGATE SAFETY MEETING

Department/Location CONCORD NAVAL WPN Manager STEVE MUELLER Date 3/27/95

Description of Work DRILLING, PERFORATING, AND GROUTING THREE FOR WATER WELLS

Hazards SLIP, TRIP, FALL, & DRILL RIG OPERATIONS,

Safety Procedures CHECK OUT EQUIPMENT, WATCH FOR DRILL RIG OPERATIONS

Protective Clothing and Equipment TYVEK, BOOTS, HARD HATS, GLOVES

Emergency Procedures CALL 911, CONTACT BASE ROICC OFFICE, CELL PHONE, FIRE STATION

Emergency Contacts

Safety Coordinator STEVE MUELLER Telephone (415) 347-1556

Manager STEVE MUELLER Telephone (415) 347-1555

Fire BASE FIRE DEPT. Telephone

Medical 911 Telephone

Meeting Conducted: Date 3/27/95 Time 8:45 P.M. By STEVE MUELLER

Meeting Questions/Discussion DISCUSSED ASPECTS OF EACH WELL. THERE IS NO KNOWN CONTAMINATION

Additional Comments NOTIFY ABOUT PHONES.

Attendance

| Print | Sign | Print | Sign |
|---|---|---|---|
| 1. STEVE MUELLER, | ECC | 10. | |
| 2. KAY PARNELL, | | 11. | |
| 3. TODD FRANKLIN | | 12. | |
| 4. DOUG HOWARD | WHD. | 13. | |
| 5. | | 14. | |
| 6. | | 15. | |
| 7. | | 16. | |
| 8. | | 17. | |
| 9. | | 18. | |

Manager

Safety Coordinator

# CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 3/27/94

| PHASE | Y - YES; N - NO, SEE REMARKS; BLANK - NOT APPLICABLE | IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION AND LIST PERSONNEL PRESENT |
|---|---|---|
| PREPARATORY | THE PLANS AND SPECS HAVE BEEN REVIEWED | Mobilization at Well CA 113 and CA114 of Equipment |
| | THE SUBMITTALS HAVE BEEN APPROVED | |
| | MATERIALS COMPLY WITH APPROVED SUBMITTALS | |
| | MATERIALS ARE STORED PROPERLY | Y |
| | PRELIMINARY WORK WAS DONE CORRECTLY | |
| | TESTING PLAN HAS BEEN REVIEWED | |
| | WORK METHOD AND SCHEDULE DISCUSSED. | |

| PHASE | | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|---|
| INITIAL | PRELIMINARY WORK WAS DONE CORRECTLY | Mobilization | None Performed |
| | SAMPLE HAS BEEN PREPARED/APPROVED | | |
| | WORKMANSHIP IS SATISFACTORY | | |
| | TEST RESULTS ARE ACCEPTABLE | | |
| | WORK IS IN COMPLIANCE WITH THE CONTRACT. | Y | |

| PHASE | | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|---|
| FOLLOW-UP | WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE. | Mobilization | N/A |

| REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) | REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) |
|---|---|
| None | None |

REMARKS

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE

# GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

GOVERNMENT QUALITY CONTROL MANAGER — DATE

FORM 01400-1 6/91

(Back)

Sheet of

# CONTRACTOR PORDUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: 3/27/95

| CONTRACT NO: | TITLE AND LOCATION | REPORT NO: |
|---|---|---|
| N62474-93-D-2242 | ABANDONED WELL CLOSURES, NAVAL WEAPONS STA. | 1 |

| CONTRACTOR | SUPERINTENDANT |
|---|---|
| ENVIRONMENTAL CHEMICAL CORPORATION | STEVE MUELLER |

| AM WEATHER | PM WEATHER | MAX TEMP. | MIN TEMP. |
|---|---|---|---|
| SUNNY | SUNNY | 65° F | 40°F |

## WORK PERFORMED TODAY

| WORK LOCATION AND DESCRIPTION | EMPLOYER | NUMBER | TRADE | HRS |
|---|---|---|---|---|
| MOBILIZATION ON-SITE | | | | |
| WELL CA 113 & WELL CA 114- | | | | |
| • SET UP TEMPORARY FENCING | | | | |
| • RECEIPT OF NON-HAZARDOUS BINS | WEST HAZMAT | 2 | DRILLERS | 10 |
| • RECEIPT OF PORTABLE TANKS | | | | |
| WELL CA 115- DIVERT RUN-OFF WATER AROUND WELL AND CULVERT | | | | |
| | | | | |
| PROJECT MANAGER | ECC | 1 | | 5 |
| | | | | |

**JOB SAFETY**

WAS A JOB SAFETY MEETING HELD THIS DATE? ✓ YES ___ NO
(IF YES attach copy of the meeting minutes)

WERE THERE ANY LOST TIME ACCIDENTS THIS DATE?
(IF YES attach copy of completed OSHA report) ___ YES ✓ NO

WAS TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? ___ YES ✓ NO
(IF YES attach statement or checklist showing inspection performed)

WAS HAZARDOUS MATERIAL MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?
(IF YES attach description of incident and proposed action)) ___ YES ✓ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE: 15

CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT: 0

TOTAL WORK HOURS FROM START OF CONSTRUCTION: 15

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

Daily TAILGATE MEETING

Yes — SAFETY REQUIREMENTS HAVE BEEN MET

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

• RECEIVED TEMPORARY FENCE, PORTABLE TANKS (RENTAL) 2EA, AND NON-HAZARDOUS BINS 1 2EA

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY - INCLUDE NUMBER OF HOURS USED TODAY

PICK-UP TRUCK 5 HOURS

REMARKS

SITE CONDITIONS AT WELL CA 114 AND CA 116 ARE EXTREMELY MUDDY. THE TRUCKS THAT DELIVERED THE BINS AND PORTABLE TANK GOT STUCK IN THE MUD AND HAD TO BE PULLED OUT.

CONTRACTOR SUPERINTENDENT

3/27/95
DATE

# ENVIRONMENTAL CHEMICAL CORPORATION
## TAILGATE SAFETY MEETING

Department/Location Concord Naval Wkg Manager Steve Mueller Date 3/30/95

Description of Work Moved to Well CA114, Drill/Find pump shaft into casing.

Hazards Slip, trip, fall, overhead, rig lines,

Safety Procedures Watch out for overhead objects, tree branches, pipe on rig

Protective Clothing and Equipment Coveralls, Hard Hats, Boots, and Earplugs,

Emergency Procedures contact 911, Base Fire Dept

Emergency Contacts

Safety Coordinator Steve Mueller Telephone on-site

Manager Steve Mueller Telephone on-site

Fire 911 Telephone 911

Medical on-site Telephone 911

Meeting Conducted: Date 3/30/95 Time 8:45pm By Steve Mueller

Meeting Questions/Discussion None

Additional Comments NONE

Attendance

| Print | Sign | Print | Sign |
|---|---|---|---|
| 1. Steve Mueller | | 10. | |
| 2. Todd Franklin | | 11. | |
| 3. Jimmy Scott | | 12. | |
| 4. Dennis Styles | | 13. | |
| 5. Kay Pannell | | 14. | |
| 6. | | 15. | |
| 7. | | 16. | |
| 8. | | 17. | |
| 9. | | 18. | |

Manager

Safety Coordinator

# ENVIRONMENTAL CHEMICAL CORPORATION
## TAILGATE SAFETY MEETING

Department/Location Concord Naval Weapons Station Manager Steve Mueller Date 3/30/95

Description of Work Moved to well CA14, Drill / Emplace pump shaft into casing.

Hazards Slip, trip, fall, overhead, electrical lines,

Safety Procedures Watch out for overhead objects, tree branches, pipe and rig

Protective Clothing and Equipment Coveralls, hard hats, boots, and earplugs,

Emergency Procedures contact 911, Base Fire Dept

Emergency Contacts

Safety Coordinator Steve Mueller Telephone on-site

Manager Steve Mueller Telephone on-site

Fire 911 Telephone 911

Medical on-site Telephone 911

Meeting Conducted: Date 3/30/95 Time 8:45am By Steve Mueller

Meeting Questions/Discussion None

Additional Comments NONE

Attendance

| Print | Sign | Print | Sign |
|---|---|---|---|
| 1. Steve Mueller | | 10. | |
| 2. Todd Franklin | | 11. | |
| 3. Jinn, Scott | | 12. | |
| 4. Dennis Styles | | 13. | |
| 5. Kay Pannell | | 14. | |
| 6. | | 15. | |
| 7. | | 16. | |
| 8. | | 17. | |
| 9. | | 18. | |

Manager

Safety Coordinator

# CONTRACTOR PORDUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: 3/31/95

| CONTRACT NO: | TITLE AND LOCATION | REPORT NO: |
|---|---|---|
| N62474-93-D-2242 | ABANDONED WELL CLOSURES, NAVAL WEAPONS STA. | 4 |

| CONTRACTOR | SUPERINTENDANT |
|---|---|
| ENVIRONMENTAL CHEMICAL CORPORATION | STEVE MUELLER |

| AM WEATHER | PM WEATHER | MAX TEMP. | MIN TEMP. |
|---|---|---|---|
| SUNNY | SUNNY-WARM | 75°F | 45°F |

WORK PERFORMED TODAY

| WORK LOCATION AND DESCRIPTION | EMPLOYER | NUMBER | TRADE | HRS |
|---|---|---|---|---|
| Well CA 114 - MOBILIZE on-site | West Hazmat | | | |
| MADE (2) two attempts to retrieve | Drilling | 3 | Drillers | 30 |
| pump shaft but was unsuccessful | | | | |
| | | | | |
| 4:35pm - Received new tool to duplicate | | | | |
| pump shaft impression the attempt | | | | |
| was still not successful | | | | |
| CA115 - Used backhoe to divert water | | | | |
| | | | | |
| Project Manager | ECC | 1 | | 10 |

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? ✓ YES ___ NO
(IF YES attach copy of the meeting minutes)

WERE THERE ANY LOST TIME ACCIDENTS THIS DATE?
(IF YES attach copy of completed OSHA report) ___ YES ✓ NO

WAS TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? ___ YES ✓ NO
(IF YES attach statement or checklist showing inspection performed)

WAS HAZARDOUS MATERIAL MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?
(IF YES attach description of incident and proposed action)) ___ YES ✓ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE: 40

CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT: 87

TOTAL WORK HOURS FROM START OF CONSTRUCTION: 127

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

Daily Tailgate Meeting

YES — SAFETY REQUIREMENTS HAVE BEEN MET

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

Backhoe

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY - INCLUDE NUMBER OF HOURS USED TODAY

Backhoe - 4 Hrs. Drill Rig & support truck - 8 Hrs
ECC - Pick-up - 8 Hrs. Bin and Baker Tanker - 0

REMARKS

[signature]
CONTRACTOR SUPERINTENDENT

3/31/95
DATE

# CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 3/30/95

| PHASE | Y - YES; N - NO. SEE REMARKS; BLANK - NOT APPLICABLE | IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION AND LIST PERSONNEL PRESENT |
|---|---|---|
| PREPARATORY | THE PLANS AND SPECS HAVE BEEN REVIEWED | |
| | THE SUBMITTALS HAVE BEEN APPROVED. Y | - Mobilize at well CA 114 |
| | MATERIALS COMPLY WITH APPROVED SUBMITTALS Y | - Water/soil control at well CA 113 |
| | MATERIALS ARE STORED PROPERLY Y | - Drilling at well CA 114 |
| | PRELIMINARY WORK WAS DONE CORRECTLY Y | |
| | TESTING PLAN HAS BEEN REVIEWED | |
| | WORK METHOD AND SCHEDULE DISCUSSED. Y | |

| | | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|---|
| INITIAL | PRELIMINARY WORK WAS DONE CORRECTLY | - Mobilize & Drilling at CA 114 | None performed |
| | SAMPLE HAS BEEN PREPARED/APPROVED | | |
| | WORKMANSHIP IS SATISFACTORY | | |
| | TEST RESULTS ARE ACCEPTABLE | | |
| | WORK IS IN COMPLIANCE WITH THE CONTRACT. | | |

| | | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|---|
| FOLLOW-UP | WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE. | Trying to fish out pump shaft. | N/A |

| REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) | REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) |
|---|---|
| None | None |

REMARKS

None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE 3/30/95

# GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

GOVERNMENT QUALITY CONTROL MANAGER — DATE

FORM 01400-1 6/91

(Back)

Sheet

# ENVIRONMENTAL CHEMICAL CORPORATION
# TAILGATE SAFETY MEETING

Department/Location Concord Naval Weapons Station Manager Steve Mueller Date 3/31/92

Description of Work drilling, perforating, pulling pump shaft out of well, and grouting water wells

Hazards slip, trip and fall, + drill rig operations

Safety Procedures check out equipment, watch for drill rig operations

Protective Clothing and Equipment tyvek, steel toed boots and hats, gloves

Emergency Procedures call 911 Contact base police use cellular phone, Fire station on base

Emergency Contacts

Safety Coordinator Steve Mueller Telephone (415) 347-1555

Manager Steve Mueller Telephone

Fire Base Fire Dept Telephone

Medical 911 Telephone

Meeting Conducted: Date Time By

Meeting Questions/Discussion _____

_____

_____

_____

Additional Comments _____

_____

_____

Attendance

| Print | Sign | Print | Sign |
|---|---|---|---|
| 1. Dennis Styles | [signature] | 10. | |
| 2. Todd Fiddler | [signature] | 11. | |
| 3. Jimmy Scott | [signature] | 12. | |
| 4. Kay Pannell | [signature] | 13. | |
| 5. | | 14. | |
| 6. | | 15. | |
| 7. | | 16. | |
| 8. | | 17. | |
| 9. | | 18. | |

[signature]
Manager

[signature] 3/31/95
Safety Coordinator

# CONTRACTOR PORDUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE: 3/31/95

| CONTRACT NO: | TITLE AND LOCATION | REPORT NO: |
|---|---|---|
| N62474-93-D-2242 | ABANDONED WELL CLOSURES, NAVAL WEAPONS STA. | 4 |

| CONTRACTOR | SUPERINTENDANT |
|---|---|
| ENVIRONMENTAL CHEMICAL CORPORATION | STEVE MUELLER |

| AM WEATHER | PM WEATHER | MAX TEMP. | MIN TEMP. |
|---|---|---|---|
| SUNNY | SUNNY - WARM | 75°F | 45°F |

## WORK PERFORMED TODAY

| WORK LOCATION AND DESCRIPTION | EMPLOYER | NUMBER | TRADE | HRS |
|---|---|---|---|---|
| WELL CA 14 - MOBILIZE ON-SITE | WEST HAZMAT | | | |
| MADE (2) TWO ATTEMPTS TO RETRIEVE PUMP SHAFT FROM WELL UNSUCCESSFUL | DRILLING | 3 | DRILLERS | 30 |
| 4:35PM - RECEIVED NEW TOOL TO RETRIEVE PUMP SHAFT IMPRESSION. THE ATTEMPT WAS STILL NOT SUCCESSFUL | | | | |
| CA15 - USED BACKHOE TO DIVERT WATER | | | | |
| PROJECT MANAGER | ECC | 1 | | 16 |

| JOB SAFETY | | TOTAL WORK HOURS ON JOB SITE THIS DATE |
|---|---|---|
| | WAS A JOB SAFETY MEETING HELD THIS DATE? ✓ YES ___ NO (IF YES attach copy of the meeting minutes) | 40 |
| | WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (IF YES attach copy of completed OSHA report) ___ YES ✓ NO | CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT: 87 |
| | WAS TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? ___ YES ✓ NO (IF YES attach statement or checklist showing inspection performed) | |
| | WAS HAZARDOUS MATERIAL MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? ___ YES ✓ NO (IF YES attach description of incident and proposed action)) | TOTAL WORK HOURS FROM START OF CONSTRUCTION: 127 |

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

DAILY TAILGATE MEETING

YES — SAFETY REQUIREMENTS HAVE BEEN MET

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

BACKHOE

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY - INCLUDE NUMBER OF HOURS USED TODAY

BACKHOE - 4 HRS. DRILL RIG & SUPPORT TRUCK - 8 HRS
ECC - PICKUP - 8 HRS. BIN AND FRAC TANKS - 0

REMARKS

CONTRACTOR SUPERINTENDENT — DATE: 3/31/95

# CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 3/30/95

| PHASE | Y - YES; N - NO. SEE REMARKS; BLANK - NOT APPLICABLE | IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION AND LIST PERSONNEL PRESENT |
|---|---|---|
| PREPARATORY | THE PLANS AND SPECS HAVE BEEN REVIEWED | |
| | THE SUBMITTALS HAVE BEEN APPROVED | Y |
| | MATERIALS COMPLY WITH APPROVED SUBMITTALS | Y |
| | MATERIALS ARE STORED PROPERLY | Y |
| | PRELIMINARY WORK WAS DONE CORRECTLY | Y |
| | TESTING PLAN HAS BEEN REVIEWED | |
| | WORK METHOD AND SCHEDULE DISCUSSED. | Y |

- Mobilize At Well CA 114
- Water/ Soil control At Well CA 113
- Drilling At Well CA 114

| PHASE | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|
| INITIAL | PRELIMINARY WORK WAS DONE CORRECTLY | |
| | SAMPLE HAS BEEN PREPARED/APPROVED | |
| | WORKMANSHIP IS SATISFACTORY | |
| | TEST RESULTS ARE ACCEPTABLE | |
| | WORK IS IN COMPLIANCE WITH THE CONTRACT. | |

- Mobilize & Drilling Rt CA 114

None Performed

| PHASE | | TESTING PERFORMED & WHO PERFORMED TEST |
|---|---|---|
| FOLLOW-UP | WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE. | |

Trying to Fish out pump shaft.

N/A

| REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) | REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) |
|---|---|
| None | None |

REMARKS

None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE

DATE 3/30/95

# GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

GOVERNMENT QUALITY CONTROL MANAGER

DATE

FORM 01400-1 6/01

(Back)

Sheet of