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03.10 - 2/11/94 - 00407

NEESA - POLM
MONTHLY MIS
REPORT

JANUARY 1994

03.10 - 2/11/94 - 00407

MONTHLY TECHNICAL PROGRESS REPORT

CONTRACT No. N47408-92-D3042
DELIVERY ORDER No. 0032

DRUM REMOVAL AT SITE #6
MARINE CORPS BASE CAMP LEJEUNE
JACKSONVILLE, NORTH CAROLINA

Prepared by:

OHM Remediation Services Corp.
5335 Triangle Pkwy., Suite 450
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Joseph Carris, P.E.
Project Manager

Approved By:

Barry Van Wagner, P.E.
Program Manager

February 11, 1994
OHM Project No. 15226

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1.0 INTRODUCTION

This Monthly Technical Progress Report has been prepared to summarize activities performed from January 1 through 31, 1994, by OHM Remediation Services Corp. (OHM) on Delivery Order No. 0032 (D.O. 0032) of NFESC Contract N47408-92-D-3042. Subsequent reports will comment on events occurring only within the previous calendar month. This delivery order was signed on September 30, 1993 and includes the following tasks at Marine Corps Base Camp Lejeune (MCB Camp Lejeune), located in Jacksonville, North Carolina:

- Prepare pre-construction submittals
- Trench excavation, drum removal and staging
- Collection and staging of surface drums and tanks
- Rinsing tanks and drums, sampling of excavated drums
- Waste profiling
- Transportation and disposal of materials

Site 6 has a long history of use including the disposal and storage of waste and supplies. Lots 201 and 203 comprise the majority of Site 6 and have been used as disposal sites since the 1940s. Approximately 200 drums and containers are present at Site 6. The majority of the drums, if labeled, were identified as containing lubricants, petroleum products, or corrosives. Empty storage tanks are also located on the premises. Burial of waste (drums, communication wire, wood, etc.) has been documented on the project site.

2.0 WORK ACCOMPLISHED

During January, OHM mobilized and began on-site operations. Tasks accomplished include:

- Mobilization of personnel and equipment
- Setup of support facilities (decontamination and office trailers)
- Construction of four lined staging cells
- Securing (grubbing, access and installation of safety fence) of both proposed excavation areas
- Installation of new gate
- Construction of water (rinse and run-on water) collection system.

The above-referenced items were completed on schedule.

3.0 WORK PLANNED

Plans for February include excavation of all four trenches, and the collection and staging of all surface and buried drums; triple-rinse RCRA empty drums for salvage/disposal; collect samples of waste streams and drums requiring Haz-Cat analysis; removal of product from aboveground storage tanks (AST); and the cleaning and disposal of tanks.

4.0 PROBLEMS AND SOLUTIONS

This section presents specific problems encountered during this project to date and the solutions and/or response to these problems.

Field modification were approved by the Navy Technical Representative (NTR). The modifications were made to reduce costs and to accommodate changes in field conditions. The modifications are summarized as follows:

- Existing soils in the vicinity of the staging cells have been utilized to construct the berms for the staging cells rather than transport soil from the Base borrow area. It is OHM's understanding that the soils are not part of another ongoing investigation by LANTDIV or the Base.

- Gravel was not used in the cell construction of the decontamination pad, contaminated soil staging cell or the drum staging cell. Timbers were used in the decontamination pad. Contaminated soil will be placed in the soil staging cell as a base. Clean on-site soils were used as a base in the drum staging cell.

- The existing soils were sufficient to facilitate vehicle and heavy equipment traffic. Gravel has been and will be utilized when necessary (for ramps, low or wet areas in the road, etc.).

- The construction of the processing cell has been postponed until needed.

- The new gate to be installed near Area G, Lot 203 has been placed at an approved location within the existing fence to facilitate access to the Northern Excavation through Lot 203. An extension from the northeast corner perimeter fence has been installed to stop vehicle traffic from entering the site via Piney Green Road.

- The Forestry Division determined that some of the trees to be removed were of harvestable value. OHM toped the trees, placed them by the nearest road for pickup, and stockpiled the stumps. The original scope of work allowed for the timber to be left on-site where it fell.

- Field investigations after clearing and grubbing have revealed battery cells south of Trench No. 6-TP5 (southern excavation) and buried waste (communication wire and drums) north of Trench No. GS-1960D (northern excavation). Additional excavations may be anticipated.

- Several of the surface drums located in Area G have been removed by others. It appears that the drums were considered investigation derived waste and were removed by Baker Environmental.

- A temporary opening was made in the fence to gain access to the southern excavation. This will eliminate a long haul of hazardous materials and drums through the main gate to Lot 203.

Each of the above items has been either addressed in memos transmitted to the NTR, or addressed in the Daily Report. They require no additional modifications (scope or cost) at this time. The following items may have a direct effect on cost and or will deviate from the scope of work:

- During excavation to tap into an existing water line, approximately six 55-gallon drums were unearthed. The drums were outside of any expected burial areas. A reasonable estimate of the number of drums could not be determined. Under direction of the NTR, the drums and excavation were left as is until notified otherwise. This issue will be discussed at the next QC meeting.

- Based on conversations with Baker Environmental and the initial excavation of the southern trenches, very few buried 55-gallon drums are expected to be encountered. A variety of containers have been excavated (glass vials, porcelain jugs, and metal containers of various sizes). To sample each of these containers would not be cost effective, nor may it be necessary. At present the containers can be field screened and composite in drums. This may not be an economical method if there is a large number of containers. Roll-off containers would be an acceptable economical means of containment should the volume of containers increase. The containers will be field screened and segregated in accordance to the attached memo from Tom Mears dated January 19, 1994. In addition this will require a modification to the Field Sampling Plan as noted in the memo from William Perry dated January 24, 1994.

- The dimension of trench No. 6-TP5 exceeded that of the RAC. Approximately 66 feet of 110 feet of the trench has been excavated. The width of the trench is averaging 15 feet and depth ranges from 8 to 10 feet below grade. These dimension will produce an overrun in excavated material of approximately 300 percent. Note memo from William Perry dated January 27, 1994 with trench dimensions.

- The intention of mechanically segregating the soil and debris was to render the debris non-hazardous (to be verified via sampling). The NTR has requested the material be shipped to DRMO, which would require triple-rinsing the debris. Based on the present accumulation of debris, this will be labor-intensive and will generate a larger volume of rinse water for disposal. If the DRMO would accept the debris based on the described method in the Work Plan, there would be no change in scope.

- DRMO will accept the empty (triple-rinsed) 55-gallon drums rather than send

them off-site for disposal at an estimated cost savings of $1,800.00.

- Additional QC sampling has been approved at a cost of $10,400.00.
- A letter has been submitted to the appropriate personnel in attempts to identify if the buried waste is a listed waste.

As directed in the preconstruction meeting, the above mentioned items have been documented and no modification of cost or work scope change has been submitted to date. Overruns in cost per work breakdown structure (WBS) will be provided at each QC meeting. Cost estimates will be provided for any changes in work scope. If necessary, a modification request will be submitted prior to interim demobilization.

5.0 SUBMITTAL STATUS LOG

The following Final submittals have been completed under this delivery order:

Submittal Description	Target Delivery Date	Actual Delivery Date
CQC Addenda	1/17/94	1/18/94
Site Health and Safety Plan (SHSP)	1/17/94	1/18/94
Work Plan	1/17/94	1/18/94
Site Sampling and Analysis Plan (SSAP)	1/17/94	1/18/94

January 17, 1994 was a federal holiday and in some location deliveries were not made. Additional submittals within the CDRLs are construction oriented and include Daily Reports for tracking costs and CQC Reports for documenting on-site activities on a daily basis. These reports are delivered directly to the NTR.

6.0 COST SUMMARY

Why are the cost list as of Nov 30, or is this Jan 31, and are not changed?

The total cost (including modifications and all fees) for this delivery order is not to exceed $821,407.81. As of November 30, 1993, total cost amounted to approximately ~~$125,791.00~~ $218,000.00 for D.O. 0032.

7.0 NON-COMPLIANCE CHECKOFF LIST

No non-compliance issues have been associated with this delivery order.

8.0 WASTE MATERIALS TRACKING

There has been no waste materials generated from performance of this delivery order during the period of this report.

9.0 GOVERNMENT MATERIALS TRACKING

No government-owned materials have been utilized during performance of this delivery order.

To: Kent Geis, OHM Construction Manager
Jim Shepard, OHM Site Superintendent
Project 15226 Job File

From: William Perry, OHM Project Chemist

Date: January 24, 1994

Subject: On-site changes to the Camp Lejeune Field Sampling Plan and Work Plan.

CC: T. Rojas OHM Quality Assurance
T. Whitt OHM Field Technical Services

With my arrival on-site and review of the work to be accomplished with respects to the submitted and approved plans, a few deficiencies are notable. I am submitting this change which I feel is necessary to better facilitate field operation for approval.

Due to the imminent beginning of the excavations on-site tomorrow morning, I will assume approval unless contacted. If problems exist with the outlined change, corrections will be made to work accomplished as soon as notified.

Changes will be progressively numbered with this memo addressing change number 1.

Change 1:

Primary staging of excavated containers will occur at the excavation on visqueen liner. Sampling of containers will immediately follow with segregation of small containers (per the Tom Mears memo of 1/19/94) into one of six hazard classifications:

1) Acid Inorganic (pH<4)
2) Base Inorganic (pH>10)
3) Neutral Inorganic
4) Acid Organic (pH<4 and PID reading of 5 meter units or more)
5) Base Organic (pH>10 and PID reading of 5 meter units or more)
6) Neutral Organic (PID reading of 5 meter units or more)

Small containers (5 gallon or less) will be overpacked with the containers being numbered as such:

###.1, ###.2, ###.3, ... ###.N with .1 being the first and .N being the last small container to be placed into the overpack numbered ###.

Overpacks to contain acid or base containers will be lined to prevent corrosion or evolution of explosive gases.

The individual grab samples will be submitted to ASC labs with drum logs for each container and instruction to composite all containers within a given overpack with compatibility testing to follow on the composite only.

Following packing of small containers into overpacks (O.P.'s), O.P.'s will be moved to the secondary staging area within the fenced area.

This differs from the work plan (pages 4-6 and 4-7) with the sampling of containers near the excavations with no subsequent re-handling (such as unpacking of O.P.'s) intended.

One foreseeable consequence of this change is that ASC analytical reports may contain numbers such as 123.1.1 and 123.1.2 which would be the top and bottom layers of the bottom-most small container found in overpack 123. This may cause some difficulty to ASC and possible confusion to readers of the analytical report.

To: Kent Geis, OHM Construction Manager
Jim Shepard, OHM Site Superintendent
Project 15226 Job File

From: William Perry, OHM Project Chemist

Date: January 27, 1994

Subject: On-site changes (#2) to the Camp Lejeune Field Sampling Plan.

CC: T. Rojas OHM Quality Assurance
T. Whitt OHM Field Technical Services

During conversation with Navy representatives, Lt. Steve Challeen and John Cotton at the south excavation regarding the extent of contamination within the first excavation (east side), the following approach was reached as to the tracing and removal of contaminated soils from the excavation.

At that time, Wednesday (1/26/94) @ 1300 hrs. approximately 75% of the estimated soil had been removed from the east excavation site of the southern burial area. Significant stainage (blue and green against a white sandy soil) was evident on the floor of the excavation (8 - 10 foot down) with some water already accumulating (ground water must be within the next five foot of current depth).

Approximate limits of the excavation was 15'(w) x 10'(d) x 60'(l). This exceeds original estimates of 10'(w) x 5'(d) x 120'(l) with respects to width and depth but this occurred in response to Navy Representative Cotton's instructions to remove all debris from the excavation and the presence of debris to these depth and width.

A sandy soil is present throughout the excavation with the first two feet being brown sand overlying white sand. The majority of the containers being removed from the excavation have been found at the bottom of the excavation and it is quite possible that a more extensive contamination may exist than previously assumed.

In response to the stainage, Cotton directed us to not chase contamination based on visual indications but to let analytical results direct the excavation's advance. The use of Head Space Analysis was suggested and received Navy approval.

Based on this, the following change is made to the sampling plan.

Change #2:

The excavation of contaminated soils will proceed until the following logic is accomplished:

1) All debris associated with scope specified activities are removed.
2) Sample walls and floor of excavation on 25 foot centers using excavator bucket to remove a representative sample.
3) Analyze sample by PID:
   if PID reading is > 5 ppm - continue excavation 2 foot into the exposed surface
   if PID reading is < 5 ppm - analyze soil by Head Space Analysis (HSA):
      if HSA is > 5 ppm - continue excavation as stated above
      if HSA is < 5 ppm - cease excavation and remit sample as a confirmational sample.
4) Analyze confirmational sample and follow existing sample plan instruction.

It is possible given the soil type (sand) and the high water table that considerable lateral contamination may exist.

Problems arising from this change include cost over-runs from expanded excavation and because of the expanded excavation an increased number of confirmational samples and analyses. Also notable is that if the driving contaminant is not photoionizable then additional excavation (following confirmational sampling and analysis) may occur.

It is unknown (to me) as to whether or not the Navy understands this change is applicable to all excavations. However, Navy representatives did mention that contaminated soils did need to be removed and did direct OHM to extend the current excavation in the northern direction.

I am assuming approval unless contacted given current approval by the above mentioned Navy representatives (they have not seen this memo) and the Site Superintendent who will approve this memo. If problems exist with the outlined change, corrections will be made to work from that point on but work accomplished between now (1/27/94 - 1000 hrs) and time of notification will not necessarily be correctable.

Memo

OHM Corporation

5335 Triangle Parkway • Suite 450 • Norcross, GA 30092

Southern Region

TO:	Kent Geis
FROM:	Tom Mears
DATE:	1/20/94
SUBJECT:	Special T&D issues relating to the Camp LeJuene NEESA project
PC:	B. Perry T. Whitt

This memo is to confirm our conversation this afternoon about how to expedite handling of material from the Camp LeJeune site if the majority of the excavated containers are decomposed 5-10 gallons containers. This procedure is designed as a supplement OHMs standard unknown drum handling protocol. It is only intended to prevent the situation where a significant number of small (5-10 gallon) containers are packed individually into overpack drums. These instructions only apply to containers which meet the following criterion:

- Less than 30 gallons;
- Significantly decomposed (i.e. separation of waste, associated soil, and the container itself will be difficult)
- Container contents are soil, solids, and/or sludge only, no free liquids

OHM will screen all of these small containers at the time of excavation for pH and organic vapors using an hNu or PID. Wastes in small containers will be segregated at that time into one of six (6) categories (see below):

1. low pH (<4) & negative organic vapors
2. neutral pH (4-10) & negative organic vapors
3. high pH (>10) & negative organic vapors
4. low pH (<4) & positive organic vapors
5. neutral pH (4-10) & positive organic vapors
6. high pH (>10) & positive organic vapors

Initially all materials will be overpacked. Multiple small containers may be placed into a single 55 gallon overpack based on this segregation scheme. If multiple small containers are placed in a 55 gallon overpack each internal container must be sampled separately for additional analysis. If a significant quantity of small containers are excavated procedures will be developed for collecting material in a rolloff rather than individual drums. Until

that time all overpacked containers will be handled by OHM's standard protocol for sampling and analysis of unknown drums.

NEESA has indicated some additional procedures which they expect OHM to follow which differ from our routine practices. These practices are outlined below:

- NEESA expects OHM to comply with the full letter of the law regarding temporary storage of drums including inspections. segregation, labeling, and 90-day storage. A copy of the applicable regulations and an inspection check-list are attached.

- NEESA considers the 90-day temporary storage clock to start when waste is placed in containers or when it is excavated. They do not accept OHM's standard that the 90-day clock starts when analysis is complete.

- It is likely that we will exceed 90 days in order to complete analysis and disposal approvals based on NEESA's requirements. We should plan to prepare letters to the state of North Carolina requesting an extension to the 90-days.

- Because of NEESA's stance on 90-day storage drums will be required to be labeled as soon as they are filled. On previous projects NEESA has established that hazardous waste labels indicating that initial day as the ACCUMULATION START DATE are acceptable. Further we have agreed to clearly write on the hazardous waste labels that these materials are <u>ASSUMED HAZARDOUS PENDING ANALYSIS</u>.

The project manager will need to work closely with the Site Chemist and Regional T&D Coordinator to make sure that all these requirements are met. The project manager should also establish with NEESA the decision criterion for assigning waste codes before any material is excavated or analyzed. Handling and analysis will vary greatly depending on waste codes. We don't want a situation where the client surprises us half way through the project with unexpected waste codes. If you have any questions about the information here please contact me.

10.0

NEESA MODIFICATION LOG

Contract Number: N47408-92-D-3042
Contract Name: POLM
Delivery Order: 0032
Project Name: Camp Lejeune Drum Removal

Project Manager's Name: Geis
Date: 1-Feb-94

DESCRIPTION	REQUESTOR	REQUEST FOR MOD	GOV'T MOD NUMBER	DATE SUBMITTED	AMOUNT	DATE APPROVED	AMOUNT APPROVED	PROJ. EI DATE

11.0

PTS/Cost Tracking

2/1/93

NEESA
Contract No. N47408-92-D-3042
Removal of Drums at Site 6
Camp Lejeune, North Carolina

				Budget	Actual
Direct Costs			Base		
Direct Labor (includes 27.1% fulltime & 12.6% temporary labor fringe)				$130,052.73	$47,695.85
Per Diems				$46,716.00	$18,348.34
Direct Equipment				$33,082.00	$8,002.00
Inventory Standard				$25,481.15	$158.50
Field Purchase				$69,619.23	$46,281.50
Subcontract				$300,134.01	$6,426.16
Project Supplies @ 4.5% of Base Wages				$4,604.54	$1,729.85
	Direct Costs Total			**$609,689.66**	**$128,642.20**
Operations Support			Base		
	Direct Labor	53.3%	$47,695.85	$69,318.11	$25,421.89
	Direct Equipment	53.3%	$8,002.00	$17,632.71	$4,265.07
	Operations Support Total			$86,950.81	$29,686.95
	Subtotal			**$696,640.47**	**$158,329.15**
			Base		
G & A		11.0%	$158,329.15	$76,630.45	$17,416.21
	Subtotal			**$773,270.92**	**$175,745.36**
Facilities Costs Of Money					
	FCCOM Labor	0.972%		$1,264.11	$463.60
	FCCOM Per Diems	0.155%		$72.41	$28.44
	FCCOM Equip	16.728%		$5,533.96	$1,338.57
	FCCOM Inventory	0.155%		$39.50	$0.25
	FCCOM Subs	0.155%		$465.21	$9.96
	FCCOM FP	0.155%		$107.91	$71.74
	FCCOM Proj Supplies	0.155%		$7.14	$2.68
	FCCOM Total			$7,490.23	$1,915.24
	Subtotal			**$780,761.15**	**$177,660.60**
Fee			Base		
Fee on Direct Labor, Equip., Ops. Suppt., and G & A		7.5%	$94,777.13	$20,819.62	$20,819.62
Fee on ODC, Subcontract and G & A		4.0%	$80,968.23	$19,827.04	$19,827.04
	Fee Total			**$40,646.66**	**$40,646.66**
Total Delivery Order				**$821,407.81**	**$218,307.26**

OHM REMEDIATION SERVICES CORP. - Project Tracking System
Summary by WBS Activity - Cost

NFESC
560 CENTER DRIVE
PORT HUENEME CA 93043-4328

Last Processing Date: 02/01/94
Highest Processing Date: 02/01/94
Daily Date Range: 08/01/93 - 02/01/94
WBS Range: 0000000 - 9999999
Report Level: Activity

Contract No: N4740892D3042
Delivery Order: 0032
Project: 15226

WBS Code	Full-Time Labor	Temporary Labor	Project Supplies	Per Diems	Equipment	Standard Cost Inventory	Field Purchases Inventory	Field Purchases	Affiliates	Subs	Cumulative Total
0000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.68	0.00	0.00	12.68
0100100	391.77	0.00	13.86	0.00	926.00	0.00	0.00	1,031.80	0.00	2,812.78	5,17
0100200	2,256.37	313.32	92.41	0.00	58.00	0.00	0.00	2,297.03	0.00	0.00	5,01
0100300	7,858.39	0.00	278.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,136.59
0100400	1,476.03	1,052.21	94.32	0.00	69.00	0.00	0.00	2,243.33	0.00	0.00	4,934.89
0100500	933.92	0.00	33.06	0.00	115.00	0.00	0.00	350.00	0.00	2,413.00	3,844.98
0200600	1,089.21	464.24	57.12	0.00	0.00	0.00	0.00	60.95	0.00	0.00	1,671.52
0300200	893.01	397.73	47.52	0.00	0.00	0.00	0.00	1,425.00	0.00	0.00	2,763.26
0300400	6,823.40	2,441.42	339.17	0.00	2,607.00	0.00	0.00	1,941.69	0.00	0.00	14,152.68
0300500	707.68	1,068.54	67.76	0.00	127.00	0.00	0.00	1,944.54	0.00	950.00	4,865.52
0309000	3,309.40	126.13	122.22	0.00	1,085.00	0.00	0.00	7,510.00	0.00	0.00	12,152.75
0309100	1,229.80	718.37	72.26	0.00	428.00	0.00	0.00	167.32	0.00	0.00	2,615.75
0800100	1,830.77	1,898.05	140.67	0.00	905.00	0.00	0.00	5,150.00	0.00	0.00	9,924.49
0800500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,016.00	0.00	0.00	2,016.00
0900600	0.00	174.59	6.97	0.00	27.00	158.50	0.00	1,518.84	0.00	0.00	1,885.90
1000100	1,397.16	368.96	64.21	0.00	1,150.00	0.00	0.00	2,468.00	0.00	0.00	5,448.33
1000200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12,371.00	0.00	0.00	12,371.00
1009000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	800.00	0.00	0.00	800.00
2100500	132.56	0.00	4.69	0.00	0.00	0.00	0.00	2,477.50	0.00	0.00	2,61
9900000	8,342.82	0.00	295.41	18,348.34	505.00	0.00	0.00	495.82	0.00	250.38	28,237.77
Totals:	38,672.29	9,023.56	1,729.85	18,348.34	8,002.00	158.50	0.00	46,281.50	0.00	6,426.16	128,642.20

NFESC
560 CENTER DRIVE
PORT HUENEME CA 93043-4328

Last Processing Date: 02/01/94 Daily Date Range: 01/01/94 - 01/31/94
Highest Processing Date: 02/01/94 WBS Range: 0000000 - 9999999

Contract No: N4740892D3042
Delivery Order: 0032
Project: 15226

Daily	Labor	Project Supplies	Per Diems	Equipment	Standard Cost Inventory	ODC Other	Awaits To Finals	Total Direct Cost
01/04/94	1,259.29	45.57	690.62	172.00	0.00	2,702.53	0.00	4,870.01
01/05/94	1,274.80	46.55	730.62	363.00	0.00	20,706.69	0.00	23,121.66
01/06/94	1,357.86	49.56	730.62	270.00	0.00	2,365.68	0.00	4,773.72
01/07/94	1,390.53	50.78	674.20	372.00	0.00	1,944.28	0.00	4,431.79
01/08/94	162.24	6.08	664.20	279.00	0.00	0.00	0.00	1,111.52
01/09/94	88.72	3.14	664.20	279.00	0.00	0.00	0.00	1,035.06
01/10/94	1,355.74	49.82	664.20	279.00	0.00	457.42	0.00	2,806.18
01/11/94	1,503.08	55.16	664.20	279.00	0.00	137.53	0.00	2,638.97
01/12/94	1,222.94	44.63	664.20	279.00	0.00	645.38	0.00	2,856.15
01/13/94	1,401.56	51.31	664.20	279.00	0.00	2,663.00	0.00	5,059.07
01/14/94	1,350.70	49.23	597.78	279.00	0.00	0.00	0.00	2,276.71
01/15/94	1,698.33	62.08	597.78	279.00	0.00	0.00	0.00	2,637.19
01/16/94	33.20	1.33	629.20	279.00	0.00	0.00	0.00	942.73
01/17/94	1,430.33	52.48	664.20	279.00	0.00	31.79	0.00	2,457.80
01/18/94	1,526.35	55.98	664.20	279.00	158.50	639.30	0.00	3,323.33
01/19/94	1,526.34	55.99	664.20	279.00	0.00	20.00	0.00	2,545.53
01/20/94	1,408.08	51.80	602.78	279.00	0.00	2,096.14	0.00	4,437.80
01/21/94	1,363.74	50.23	597.78	279.00	0.00	0.00	0.00	2,290.75
01/22/94	1,698.70	62.79	639.20	279.00	0.00	0.00	0.00	2,679.69
01/23/94	404.64	14.33	787.04	279.00	0.00	0.00	0.00	1,485.01
01/24/94	1,917.78	69.85	797.04	279.00	0.00	296.53	0.00	3,360.20
01/25/94	1,917.78	69.85	797.04	279.00	0.00	262.26	0.00	3,325.93
01/26/94	4,260.17	152.91	797.04	265.00	0.00	11,924.63	0.00	17,399.75
01/27/94	1,845.37	67.28	797.04	265.00	0.00	235.85	0.00	3,210.54
01/28/94	2,661.45	96.31	262.84	265.00	0.00	1,654.00	0.00	4,939.60
01/29/94	0.00	0.00	107.84	236.00	0.00	0.00	0.00	343.84
01/30/94	0.00	0.00	107.84	236.00	0.00	0.00	0.00	343.84
01/31/94	1,920.65	69.28	695.62	265.00	0.00	0.00	0.00	2,950.55
Totals:	37,980.37	1,384.32	17,617.72	7,731.00	158.50	48,783.01	0.00	113,654.92

* ODC Other includes Field Purchase Inventory, Field Purchases, Affiliates and Direct Subcontractors.

OHM REMEDIATION SERVICES CORP. - Project Tracking System

Projected Cost Variance - Summary

NFESC
560 CENTER DRIVE
PORT HUENEME CA 93043-4328

Last Processing Date: 02/01/94
Highest Processing Date: 02/01/94

WBS Range: 0000000 - 9999999
Report Level: Activity

Contract No: N47408920 3042
Delivery Order: 0032
Project: 15226

WBS Code	WBS Description	Budgeted Costs Original	Budgeted Costs Revised	Actual Cost	Projected Cost To Go	To Go Over Ride	Projected Cost at Completion	Budget Variance	Financial Complete	Prod. Units Complete
0000000	Default WBS Code	0.00	0.00	12.68	0.00	No	12.68	(12.68)	100.00 %	0.00 %
0100000	DISPOSAL MOBE	3,193.00	3,193.00	0.00	3,193.00	No	3,193.00	0.00	0.00 %	0.00 %
0100100	MOB EQUIPMENT	2,937.00	2,937.00	5,176.21	1,015.37	No	6,191.58	(3,254.58)	83.60 %	0.00
0100200	MOB PERSONNEL	1,567.00	1,567.00	5,017.13	0.00	No	5,017.13	(3,450.13)	100.00 %	0.00
0100300	PRECONSTRUCTION SUBM	14,746.00	14,746.00	8,136.59	6,609.41	No	14,746.00	0.00	55.18 %	0.00 %
0100400	SETUP TEMP FACILITIE	3,384.00	3,384.00	4,934.89	598.00	No	5,532.89	(2,148.89)	89.19 %	0.00 %
0100500	CONSTRUCT TEMP FACIL	1,300.00	1,300.00	3,844.98	0.00	No	3,844.98	(2,544.98)	100.00 %	0.00 %
0200600	SAMPLE SOIL/DRUMS	14,047.00	14,047.00	1,671.52	12,839.72	No	14,511.24	(464.24)	11.52 %	0.00 %
0200900	LABORATORY CHEMICAL	89,321.00	89,321.00	0.00	89,321.00	No	89,321.00	0.00	0.00 %	0.00 %
0300200	CLEAR AND GRUB	1,173.00	1,173.00	2,763.26	419.00	No	3,182.26	(2,009.26)	86.83 %	0.00 %
0300400	ACCESS ROADS	5,309.00	5,309.00	14,152.68	674.31	No	14,826.99	(9,517.99)	95.45 %	0.00 %
0300500	SILT & SAFETY FENCE	4,509.00	4,509.00	4,865.52	746.78	No	5,612.30	(1,103.30)	86.69 %	0.00 %
0309000	SOIL CONTAINMENT ARE	14,834.00	14,834.00	12,152.75	3,619.00	No	15,771.75	(937.75)	77.05 %	0.00 %
0309100	DEBRIS CONTAINMENT A	14,308.00	14,308.00	2,615.75	12,410.62	No	15,026.37	(718.37)	17.41 %	0.00 %
0800100	TRENCH/DRUM EXCAVATI	31,776.00	31,776.00	9,924.49	23,749.56	No	33,674.05	(1,898.05)	29.47 %	0.00 %
0800500	COVER SOIL/DEBRIS AR	7,117.00	7,117.00	2,016.00	5,101.00	No	7,117.00	0.00	28.33 %	0.00 %
0900600	LIQUIDS PUMPING/COLL	4,348.00	4,348.00	1,885.90	3,456.53	No	5,342.43	(994.43)	35.30 %	0.00 %
1000100	DRUM OPERATIONS AREA	14,071.00	14,071.00	5,448.33	9,060.63	No	14,508.96	(437.96)	37.55 %	0.00 %
1000200	DRUM/TANK COLLECT &	28,130.00	28,130.00	12,371.00	17,399.00	No	29,770.00	(1,640.00)	41.56 %	0.00 %
1009000	COVER DRUM STORAGE A	2,178.00	2,178.00	800.00	1,378.00	No	2,178.00	0.00	36.73 %	0.00
1500300	POZZOLAN PROCESS	3,026.00	3,026.00	0.00	3,026.00	No	3,026.00	0.00	0.00 %	0.00 %
1900200	TRANSPORT TO DISPOSA	49,482.00	49,482.00	0.00	49,482.00	No	49,482.00	0.00	0.00 %	0.00 %
1900300	DISPOSAL FEES & TAXE	147,056.00	147,056.00	0.00	147,056.00	No	147,056.00	0.00	0.00 %	0.00 %
2000100	TRENCH BACKFILL	1,588.00	1,588.00	0.00	1,588.00	No	1,588.00	0.00	0.00 %	0.00 %
2000300	SITE RESTORATION	2,682.00	2,682.00	0.00	2,682.00	No	2,682.00	0.00	0.00 %	0.00 %
2100000	REMEDIATION DEMOB	5,368.00	5,368.00	0.00	5,368.00	No	5,368.00	0.00	0.00 %	0.00 %
2100100	REMOVE TEMP FACILITI	883.00	883.00	0.00	883.00	No	883.00	0.00	0.00 %	0.00 %
2100200	REMOVE TEMP UTILITIE	250.00	250.00	0.00	250.00	No	250.00	0.00	0.00 %	0.00 %
2100400	DEMOB EQUIPMENT	2,907.00	2,907.00	0.00	2,907.00	No	2,907.00	0.00	0.00 %	0.00 %
2100500	DEMOB PERSONNEL	1,170.00	1,170.00	2,614.75	1,032.75	No	3,647.50	(2,477.50)	71.69 %	0.00 %
2100600	POST CONSTRUCTION DO	7,209.00	7,209.00	0.00	7,209.00	No	7,209.00	0.00	0.00 %	0.00 %
9900000	DISTRIBUTIVE COSTS	123,217.00	123,217.00	28,237.77	102,104.61	No	130,342.38	(7,125.38)	21.66 %	0.00 %
9900400	DISPOSAL APPROVAL	0.00	0.00	0.00	0.00	No	0.00	0.00	0.00 %	0.00 %
	Grand Total:	603,086.00	603,086.00	128,642.20	515,179.29	No	643,821.49	(40,735.49)	19.98 %	

NFESC
560 CENTER DRIVE
PORT HUENEME CA 93043-4328

Level: Budget/Activity

Contract No: N47408902D3042
Delivery Order: 0032
Project: 15226
Region: Southern

Charge Code	Full Temp	Description	--- Budget Hours --- Original	Revised	Actual	Variance	----- Budget Cost ----- Original	Revised	Actual	Variance	Percent Expended
Region: 32 - Southern											
899	Full	GOV'T PROGRAM MANAGER	58	58	4.00	54.00	1882	1882	171.12	1,710.88	9.09 %
920	Full	ESTIMATOR	0	0	16.00	(16.00)	0	0	309.44	(309.44)	0.00 %
922	Full	TECHNICAL EDITOR	0	0	14.00	(14.00)	0	0	229.18	(229.18)	0.00 %
936	Full	COST SCHEDULING COORD	92	92	22.00	70.00	1929	1929	461.34	1,467.66	23.92 %
970	Full	WORD PROCESSOR	0	0	40.00	(40.00)	0	0	524.00	(524.00)	0.00 %
970	Temp	WORD PROCESSOR	69	69	0.00	69.00	855	855	0.00	855.00	0.00 %
974	Full	DRAFTSPERSON	40	40	26.00	14.00	720	720	475.80	244.20	66.08 %
982	Full	PROJECT CHEMIST I	334	334	59.00	275.00	6700	6700	1,183.54	5,516.46	17.66 %
983	Full	PROJECT SCIENTIST	16	16	0.00	16.00	379	379	0.00	379.00	0.00 %
984	Full	PROJECT ENGINEER I	66	66	0.00	66.00	1496	1496	0.00	1,496.00	0.00 %
985	Full	H & S - SPECIALIST	638	638	248.50	389.50	12474	12474	4,955.09	7,518.91	39.72 %
986	Full	PROJECT CHEMIST II	0	0	88.00	(88.00)	0	0	2,038.08	(2,038.08)	0.00 %
991	Full	SR PROJECT ENGINEER	56	56	3.00	53.00	1965	1965	111.75	1,853.25	5.69 %
992	Full	H & S-SENIOR SPECIAL	0	0	8.00	(8.00)	0	0	169.52	(169.52)	0.00 %
994	Full	H & S-CERT IND HYG	8	8	3.00	5.00	350	350	129.27	220.73	36.93 %
1001	Full	SITE SUPERVISOR I	682	682	0.00	682.00	13913	13913	0.00	13,913.00	0.00 %
1009	Full	SITE SUPERINTENDENT	0	0	219.50	(219.50)	0	0	5,344.86	(5,344.86)	0.00 %
1039	Full	FOREMAN	0	0	85.50	(85.50)	0	0	1,456.78	(1,456.78)	0.00 %
1039	Temp	FOREMAN	0	0	206.00	(206.00)	0	0	2,854.53	(2,854.53)	0.00 %
1041	Full	EQUIPMENT OPERATOR	1120	1120	417.50	702.50	16910	16910	6,691.30	10,218.70	39.57 %
1042	Full	PROJECT CONTROL TECH I	610	610	0.00	610.00	9220	9220	0.00	9,220.00	0.00 %
1045	Temp	RECOVERY TECHNICIAN	2700	2700	614.00	2,086.00	31815	31815	6,076.27	25,738.73	19.10 %
1061	Full	EQUIP OPERATOR- SR	0	0	260.50	(260.50)	0	0	4,818.03	(4,818.03)	0.00 %
1070	Full	TRUCK DRIVER	200	200	0.00	200.00	3058	3058	0.00	3,058.00	0.00 %
1090	Full	T & D COORDINATOR	110	110	12.00	98.00	2580	2580	225.48	2,354.52	8.74 %
1093	Full	PROJECT MANAGER II	44	44	165.00	(121.00)	1370	1370	5,101.80	(3,731.80)	372.39 %
1095	Full	T & D COORD - ASSIST	64	64	0.00	64.00	1283	1283	0.00	1,283.00	0.00 %
1097	Full	PROJECT CONTROL TECH II	0	0	207.00	(207.00)	0	0	3,444.26	(3,444.26)	0.00 %
1102	Full	TECHNICAL MANAGER	0	0	19.00	(19.00)	0	0	736.25	(736.25)	0.00 %
6100	Full	BREATHING-AIR TIME	0	0	30.00	(30.00)	0	0	95.40	(95.40)	0.00 %

NFESC
560 CENTER DRIVE
PORT HUENEME CA 93043-4328

Level: Budget/Activity

Contract No: N47408920 3042
Delivery Order: 0032
Project: 15226
Region: Southern

Charge Code	Full Temp	Description	--- Budget Hours --- Original	Revised	Actual	Variance	----- Budget Cost ----- Original	Revised	Actual	Variance	Percent Expended
6100	Temp	BREATHING-AIR TIME	1440	1440	33.00	1,407.00	4579	4579	92.76	4,486.24	2.03 %
9995	Full	CONSTRUCTION MANAGER	394	394	0.00	394.00	12269	12269	0.00	12,269.00	0.00 %
9999	Full	ORDNANCE SUPERVISOR	140	140	0.00	140.00	2856	2856	0.00	2,856.00	0.00 %
		Grand Total:	8881	8881	2,800.50	6,080.50	128603	128603	47,695.85	80,907.15	37.09 %

12.0

Primavera/Schedule

NFESC - POLM

Contract N47408-92-D-3042

Monthly MIS Report

G L O S S A R Y

ACTUAL DATES:

Dates that you record for an activity that has progress.

BASELINE DURATION:

The amount of time in working days an activity was expected to take to complete at the beginning of the project.

BASELINE SCHEDULE:

The original planned schedule for a project.

BUDGET:

Budgets have been established for all NEFSC Program Projects, based upon estimates of Construction Costs. Budgets have been broken down at the activity level for PTS and Primavera reports.

CRITICAL ACTIVITY:

An activity that has zero total float. If this activity is delayed, the project will be pushed out further in time. A critical activity will be depicted in red on all graphic schedules.

CRITICAL PATH:

The series of activities in a project that will take the longest to complete.

DATA DATE:

The date on which the information presented in terms of schedule and construction costs is current.

DELIVERY ORDER NUMBER:

Delivery Order numbers are assigned to projects through the NFESC Program once the need for the project is identified.

EARLY FINISH (EF):

The earliest date when an activity can finish based on the completion of its predecessors.

EARLY START (ES):

The earliest date when an activity can begin after its predecessors have been completed.

FLOAT:

The amount of time that the start of an activity can be delayed without affecting the project finish date.

FORECASTED COSTS:

Costs expected to be incurred between the Data Date and the completion of the project.

LATE FINISH (LF):

The latest date when an activity can finish without delaying the project completion.

MILESTONE:

A point during a project that has significant value. On a typical Primavera Schedule, a milestone is identified with a diamond shape.

VARIANCE:

The difference between the estimated quantity or cost at completion and the original budgeted amount. Schedule variance is the difference between the current and target dates.

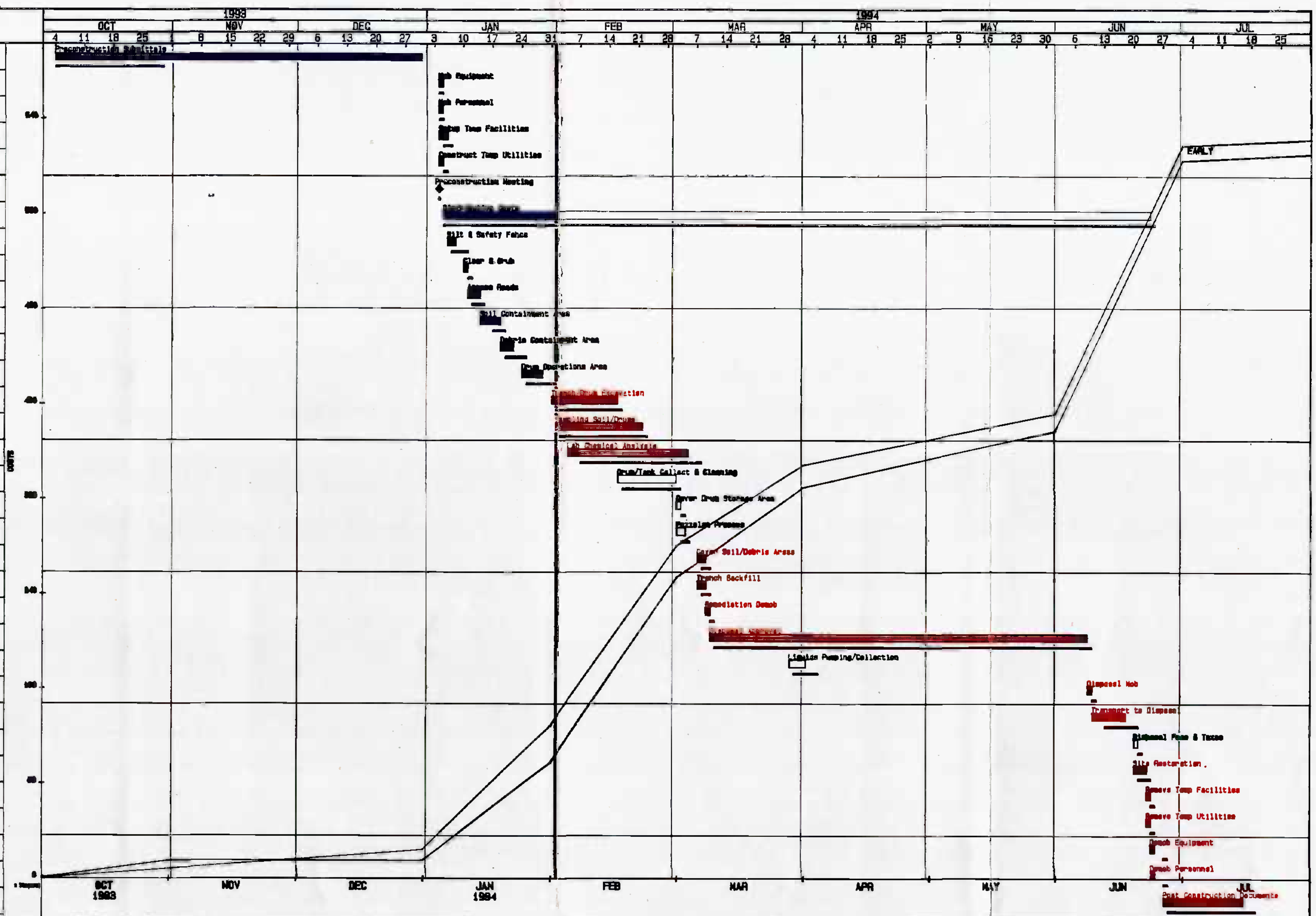
Activity ID	Description	BCWS	BCWP	Actual Cost This Period	Actual Cost To Date	Budget Cost	Estimate @ Completion	Variance
D2PC	Preconstruction Meeting							
D201.00	Disposal Mob	0	0	0	0	3194	3194	0
D201.01	Mob Equipment	0	2939	5177	5177	2939	5177	-2238
D201.02	Mob Personnel	1567	1567	5017	5017	1567	5017	-3450
D201.03	Preconstruction Submittals	14746	14746	-5414	8136	14746	8136	6610
D201.04	Setup Temp Facilities	3384	3384	4935	4935	3384	4935	-1551
D201.05	Construct Temp Utilities	1300	1300	3845	3845	1300	3845	-2545
D202.06	Sampling Soil/Drums	0	0	1671	1671	14046	15717	-1671
D202.09	Lab Chemical Analysis	0	0	0	0	89321	89321	0
D203.02	Clear & Grub	1172	1172	2764	2764	1172	2764	-1592
D203.04	Access Roads	5309	5309	14153	14153	5309	14153	-8844
D203.05	Silt & Safety Fence	4509	4509	4865	4865	4509	4865	-356
D203.90	Soil Containment Area	14834	14834	12153	12153	14834	12153	2681
D203.91	Debris Containment Area	14309	14309	2616	2616	14309	2616	11693
D208.01	Trench/Drum Excavation	0	1907	9925	9925	31776	31776	0
D208.05	Cover Soil/Debris Areas	0	0	2016	2016	7117	9133	-2016
D209.06	Liquids Pumping/Collection	0	0	1886	1886	4348	6234	-1886
D210.01	Drum Operations Area	14070	14070	5448	5448	14070	5448	8622
D210.02	Drum/Tank Collect & Cleaning	0	0	12371	12371	28130	40501	-12371
D210.90	Cover Drum Storage Area	0	0	800	800	2178	2978	-800
D215.03	Pozzolan Process	0	0	0	0	3027	3027	0
D219.02	Transport to Disposal	0	0	0	0	49482	49482	0
D219.03	Disposal Fees & Taxes	0	0	0	0	147056	147056	0
D220.01	Trench Backfill	0	0	0	0	4730	4730	0
D220.06	Site Restoration	0	0	0	0	2683	2683	0
D221.00	Remediation Demob	0	0	0	0	5368	5368	0
D221.01	Remove Temp Facilities	0	0	0	0	883	883	0
D221.02	Remove Temp Utilities	0	0	0	0	250	250	0
D221.04	Demob Equipment	0	0	0	0	2908	2908	0
D221.05	Demob Personnel	0	0	2615	2615	1170	3785	-2615
D221.06	Post Construction Documents	0	0	0	0	7209	7209	0
D299.00	Distributive Costs	19034	19715	27987	27987	123216	123216	0
D299.04	Disposal Approval	0	0	0	0	3462	3462	0
		94234	99761	114830	128380	609693	622022	-12329

OHM Remediation Services Corp. PRIMAVERA PROJECT PLANNER

REPORT DATE 04FEB94 RUN NO. 91 START DATE 04OCT93 FIN DATE 15JUL94
13:40
Schedule Variance Report DATA DATE 01FEB94 PAGE NO. 1
Camp Lejeune Drum Removal

Activity ID	Description	Base Dur	Curr Dur	Baseline Start	Baseline Finish	Current Start	Current Finish	Start Var	Finish Var	Percent Complete
D201.00	Disposal Mob	1	1	10JUN94	10JUN94	09JUN94	09JUN94	1	1	0
D201.01	Mob Equipment	1	1	04JAN94	04JAN94	04JAN94A	04JAN94A	0	0	100
D201.02	Mob Personnel	1	1	04JAN94	04JAN94	04JAN94A	04JAN94A	0	0	100
D201.03	Preconstruction Submittals	20	20	04OCT93	29OCT93	04OCT93A	30DEC93A	0	-40	100
D201.04	Setup Temp Facilities	2	2	05JAN94	06JAN94	04JAN94A	05JAN94A	1	1	100
D201.05	Construct Temp Utilities	1	1	05JAN94	05JAN94	04JAN94A	04JAN94A	1	1	100
D202.06	Sampling Soil/Drums	15	15	02FEB94	22FEB94	01FEB94	21FEB94	1	1	0
D202.09	Lab Chemical Analysis	21	21	07FEB94	07MAR94	04FEB94	04MAR94	1	1	0
D203.02	Clear & Grub	1	1	11JAN94	11JAN94	10JAN94A	10JAN94A	1	1	100
D203.04	Access Roads	3	3	12JAN94	14JAN94	11JAN94A	13JAN94A	1	1	100
D203.05	Silt & Safety Fence	2	2	07JAN94	10JAN94	06JAN94A	07JAN94A	1	1	100
D203.90	Soil Containment Area	3	3	17JAN94	19JAN94	14JAN94A	18JAN94A	1	1	100
D203.91	Debris Containment Area	3	3	20JAN94	24JAN94	19JAN94A	21JAN94A	1	1	100
D208.01	Trench/Drum Excavation	12	12	01FEB94	16FEB94	31JAN94A	15FEB94	1	1	6
D208.05	Cover Soil/Debris Areas	2	2	08MAR94	09MAR94	07MAR94	08MAR94	1	1	0
D209.06	Liquids Pumping/Collection	4	4	30MAR94	04APR94	29MAR94	01APR94	1	1	0
D210.01	Drum Operations Area	5	5	25JAN94	31JAN94	24JAN94A	28JAN94A	1	1	100
D210.02	Drum/Tank Collect & Cleaning	10	10	17FEB94	02MAR94	16FEB94	01MAR94	1	1	0
D210.90	Cover Drum Storage Area	1	1	03MAR94	03MAR94	02MAR94	02MAR94	1	1	0
D215.03	Pozzolan Process	2	2	03MAR94	04MAR94	02MAR94	03MAR94	1	1	0
D219.02	Transport to Disposal	6	6	13JUN94	20JUN94	10JUN94	17JUN94	1	1	0
D219.03	Disposal Fees & Taxes	1	1	21JUN94	21JUN94	20JUN94	20JUN94	1	1	0
D220.01	Trench Backfill	2	2	08MAR94	09MAR94	07MAR94	08MAR94	1	1	0
D220.06	Site Restoration	3	3	21JUN94	23JUN94	20JUN94	22JUN94	1	1	0
D221.00	Remediation Demob	1	1	10MAR94	10MAR94	09MAR94	09MAR94	1	1	0
D221.01	Remove Temp Facilities	1	1	24JUN94	24JUN94	23JUN94	23JUN94	1	1	0
D221.02	Remove Temp Utilities	1	1	24JUN94	24JUN94	23JUN94	23JUN94	1	1	0
D221.04	Demob Equipment	1	1	27JUN94	27JUN94	24JUN94	24JUN94	1	1	0
D221.05	Demob Personnel	1	1	27JUN94	27JUN94	24JUN94	24JUN94	1	1	0
D221.06	Post Construction Documents	15	15	28JUN94	18JUL94	27JUN94	15JUL94	1	1	0
D299.00	Distributive Costs	123	123	05JAN94	24JUN94	05JAN94A	23JUN94	0	1	16
D299.04	Disposal Approval	65	65	11MAR94	09JUN94	10MAR94	08JUN94	1	1	0
D2PC	Preconstruction Meeting	0	0	04JAN94	31DEC93	04JAN94A	04JAN94A	0	-1	100

ACTIVITY ID	EARLY START	EARLY FINISH	REM DUR
0201.03	4OCT93A	30DEC93A	0
0201.01	4JAN94A	4JAN94A	0
0201.02	4JAN94A	4JAN94A	0
0201.04	4JAN94A	5JAN94A	0
0201.05	4JAN94A	4JAN94A	0
D2PC	4JAN94A	4JAN94A	0
0299.00	5JAN94A	23JUN94	103
0208.05	6JAN94A	7JAN94A	0
0208.02	10JAN94A	10JAN94A	0
0209.04	11JAN94A	13JAN94A	0
0208.90	14JAN94A	18JAN94A	0
0208.91	19JAN94A	21JAN94A	0
0210.01	24JAN94A	28JAN94A	0
0208.01	31JAN94A	15FEB94	11
0202.06	1FEB94	21FEB94	15
[illegible]	4FEB94	4MAR94	21
0210.02	16FEB94	1MAR94	10
0210.90	2MAR94	2MAR94	1
0215.00	3MAR94	3MAR94	2
0208.05	7MAR94	8MAR94	2
0220.01	7MAR94	8MAR94	2
0221.00	9MAR94	9MAR94	1
0299.04	10MAR94	8JUN94	65
0209.00	29MAR94	1APR94	4
0201.00	9JUN94	9JUN94	1
0219.02	10JUN94	17JUN94	6
0219.03	20JUN94	20JUN94	1
0220.06	20JUN94	22JUN94	3
0221.01	23JUN94	23JUN94	1
0221.02	23JUN94	23JUN94	1
0221.04	24JUN94	24JUN94	1
0221.05	24JUN94	24JUN94	1
0221.06	27JUN94	15JUL94	15



Target Date
Plot Date
Data Date
Project Start
Project Finish

(c) Primavera Systems, Inc.

Activity Bar/Early Dates
Critical Activity
Progress Bar
Target Dates
Milestone/Flag Activity

NEFSC - POLM
Bar Chart Schedule with Cost Overlay
Camp Lejeune Drum Removal

00407 M01X