STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

IN THE MATTER OF REMEDIAL ACTION BY:	)	
The Port of Olympia	)	AMENDMENT NO. 1 TO
915 Washington Street NE	)	AGREED ORDER
Olympia, WA 98501	)	NO. DE 00TCPSR-753

To: The Port of Olympia
915 Washington Street Northeast
Olympia, WA 98501

I.

AMENDMENT

Agreed Order (Order) No. DE 00TCPSR-753 dated April 11, 2000, is hereby amended to incorporate the information and requirements contained in this Amendment . This amendment is issued pursuant to RCW 70.105D.050(1) and WAC 173-340-530(8)(b) and does not replace or change any of the existing requirements of the Order which shall remain in effect.

II.

FINDINGS OF FACT

5. In 2000, the Department of Ecology (Ecology) identified a preferred remedy for cleanup of hazardous substances in the Sediments Operable Unit at the site. Under the Order, the sediments cleanup was implemented from 2000 to 2002 in accordance with a Cleanup Action Plan. The preferred remedy for the sediments was:

a. In 2000, an upland containment cell for dredged contaminated sediments was constructed.
b. In 2001, contain near-shore contaminated sediments with a sheet pile barrier wall tied to the existing slurry cutoff wall to form a near shore containment cell. In addition a groundwater extraction well and a groundwater monitoring well were installed in the near-shore containment cell. The top of the near shore containment cell was capped with a clay liner and clean cover soil.
c. In 2001, over 35,000 cubic yards of contaminated sediments were excavated from the intertidal and sub-tidal areas of the site. Clean backfill was placed in most of the excavated areas to bring the surface back to the original elevation. Along the shoreline, construction debris and contaminated sediments removed. This shoreline area was then backfilled, the slopes flattened and planted to increase the benefit to the local environment.
d. In 2002, the uplands containment cell and surrounding areas graded and surface water drainage systems installed. In addition, the surface of the uplands containment cell, was capped with a welded-seam plastic liner.
e. In 2002 and 2003, confirmational monitoring of the sediments in the outlying areas of lower Budd Inlet was carried out. In addition, in 2001 and 2002, sampling of salmon caught in the

site near-shore area was carried out. The sediment post construction confirmational sampling showed cleanup action levels in sediment were achieved.

f. Institutional controls have been installed including fencing and warning signs.

6. In addition to amending Agreed Order No. DE 00TCPSR-753, the existing cleanup action plan will also be amended to include:

a. Design and construction of a new groundwater treatment system
b. Paving of the remainder of the site in two phases
c. Long term monitoring of the sediment cleanup area in Budd Inlet
d. Long term monitoring of the groundwater monitoring wells

Effective date of this Order: July 3, 2004

The Port of Olympia

John Wolfe, Executive Director
Port of Olympia

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Rebecca S. Lawson, P.E.
Region Section Manager
Southwest Regional Office
Toxics Cleanup Program

Attachment B to Amendment No. 1, February 2004

The original Cleanup Action Plan (CAP) was written in 2000 and was implemented during 2000-2002. The original CAP is Attachment B to Agreed Order NO. DE 00TCPSR-753. The following provisions comprise Amendment No. 1 to Agreed Order NO. DE 00TCPSR-753, Attachment B.

A. Groundwater Treatment System

The new groundwater treatment system will replace the existing treatment system which has been in use since 1993. The following documents should be provided to Ecology before construction of the groundwater treatment system:

1. Submit preliminary design report for the treatment system.
2. After approval of the preliminary design report, draft engineering report in accordance with WAC 173-240-110, and WAC 173-240-130.
3. Ecology will review and provide comments on the draft engineering design report. After incorporating Ecology's comment, submit final Engineering design report to Ecology.
4. Submit as-built plan and specification to Ecology 180 days after the treatment plant construction.
5. After 180 days of operation, submit an operating and maintenance manual for Ecology's review and approval.

B. Capping of the Site

The site capping will be carried out in two parts. In part one, the Port of Olympia will asphalt cap the unpaved portion of the site from the south west toe of the sediments containment cell to the edge of the existing cap. The construction of phase one capping will be in 2004. Phase two capping will be performed in the future. The phase two construction date is uncertain due to financial and geotechnical factors. Appropriate surface water drainage systems will be installed in all areas of the two phase capping. Figure 1 in Attachment A to this Amendment outlines the phase one and phase two capping areas.

The phase one and phase two capping will be constructed in accordance with applicable sections of Chapter 173-340 Washington Administrative Code unless otherwise specifically provided for herein. The following will be submitted to Ecology:

1. Draft engineering plans and specifications for phase one and phase two constructions. Ecology will review and provide comments on the draft documents. Include Ecology's comments on the final plans and specifications, before implementation.
2. Submit as-built plans and specifications 180 days after the completion of construction for each phase.

C. Long Term Sediment Monitoring

Sediment samples will be taken every five years. The first sediment sampling event will be in 2007. Inside the multiple-benefits line, samples will be taken from the "backfill interior" locations as specified in the Post-Construction Sediment Compliance Monitoring report dated December 18, 2002. Outside the multiple benefits line, samples will be taken from surface sediment at the same location as the 2002 sampling event. Sediment samples will be tested for polycyclic aromatic hydrocarbons (PAH), dibenzofuran, dioxins, and total organic carbon (TOC). The total sampling points will be twenty. Sampling protocol, quality assurance and quality control will be consistent with the methods used in the Post-Construction Sediment Compliance

Monitoring report dated December 18, 2002. The locations of the sediment sampling during the 2002 sampling event are shown in Figure 2 of Attachment A by this reference made a part herein.
The sampling results will be reported to Ecology 120 days after sediment testing. The report will use the same format as in the Post-Construction Sediment Compliance Monitoring report dated December 18, 2002.

D. Long Term Groundwater Monitoring

The purpose of the long-term groundwater monitoring wells are: (1) to provide information regarding the slurry wall containment's effectiveness at preventing migration of wood treating products from the hot spot area at the site and, (2) to collect data on the effectiveness of the groundwater treatment system in achieving hydraulic control. This will be achieved using two means of specific chemical water testing and water level measurements in paired wells inside and outside the slurry and sheet pile wall and wells inside the slurry and sheet pile walls. Figure 3 in Attachment A shows the locations of the groundwater monitoring wells inside and outside the wall.

The groundwater monitoring wells will be sampled and tested semi-annually for five years. The parameters that will be tested in groundwater samples are PAH, pentachlorophenol (PCP), Total Petroleum Hydrocarbon-Gasoline (TPH-G), and Total Petroleum Hydrocarbon - Diesel (TPH-D). The groundwater sampling results will be submitted to Ecology yearly.

Well numbers MW01-S, MW-01D, MW-02S, MW02-D, MW-05S and MW-05D will be sampled and tested semi-annually for five years. The parameters that will be tested in groundwater samples are PAH, PCP, TPH-G, and TPH-D. The groundwater sampling results will be submitted to Ecology yearly. The testing of these wells provides information about the integrity of the aquitard to provide containment. Figure 4 in Attachment A, by this reference made a part herein, shows the location of the wells.

The long term monitoring of groundwater and sediment will comply with all the requirements of WAC 173-340-410 and WAC 173-340-420.

Amendment No. 1 to Attachment B to
Agreed Order No. DE 00TCPSR-753

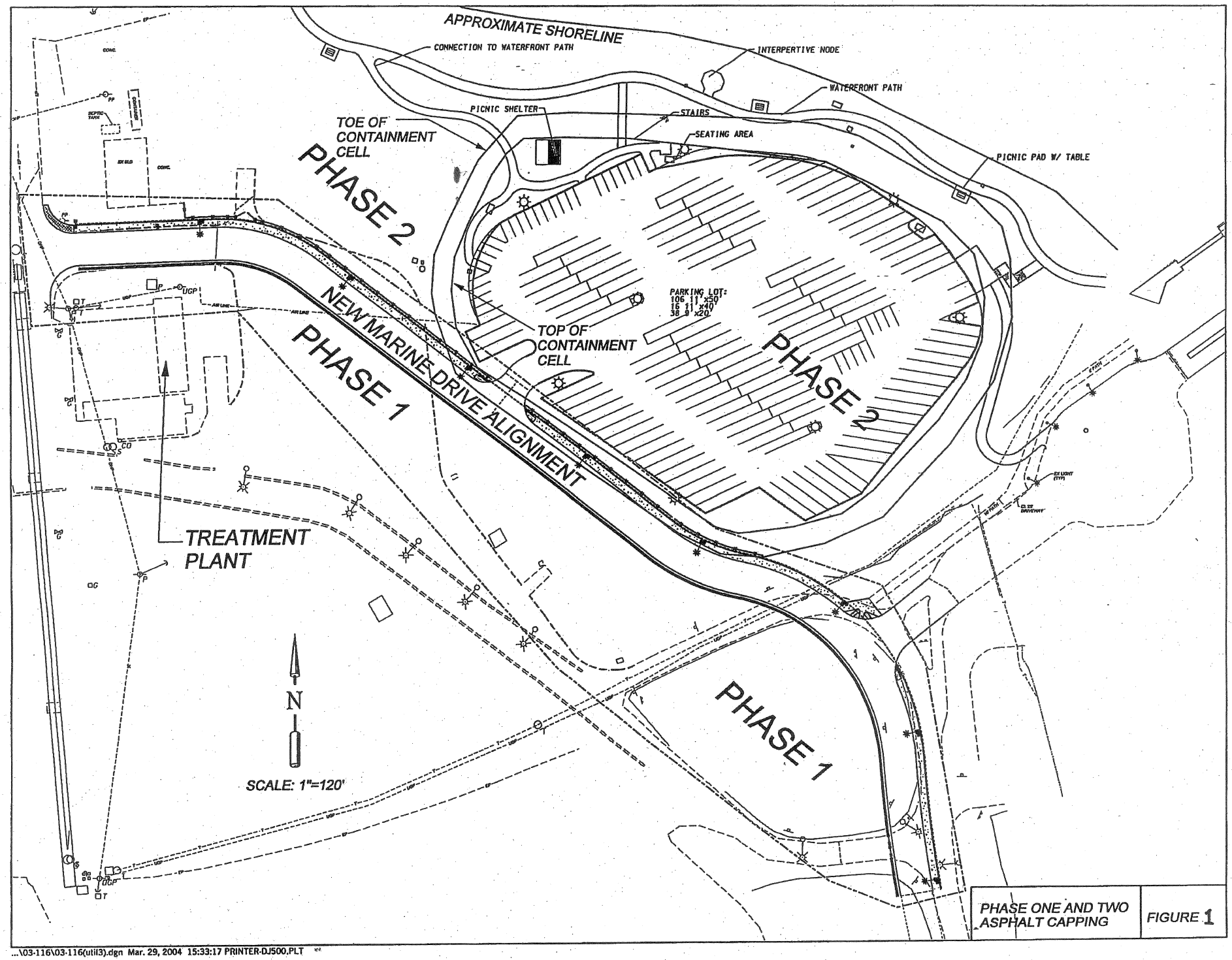
Attachment A

Figure 1: Phase one and phase two asphalt capping

Figure 2: The locations of the sediment sampling during the 2002 sampling event

Figure 3: The locations of paired groundwater monitoring network

Figure 4: The location of the deep and shallow groundwater monitoring wells.



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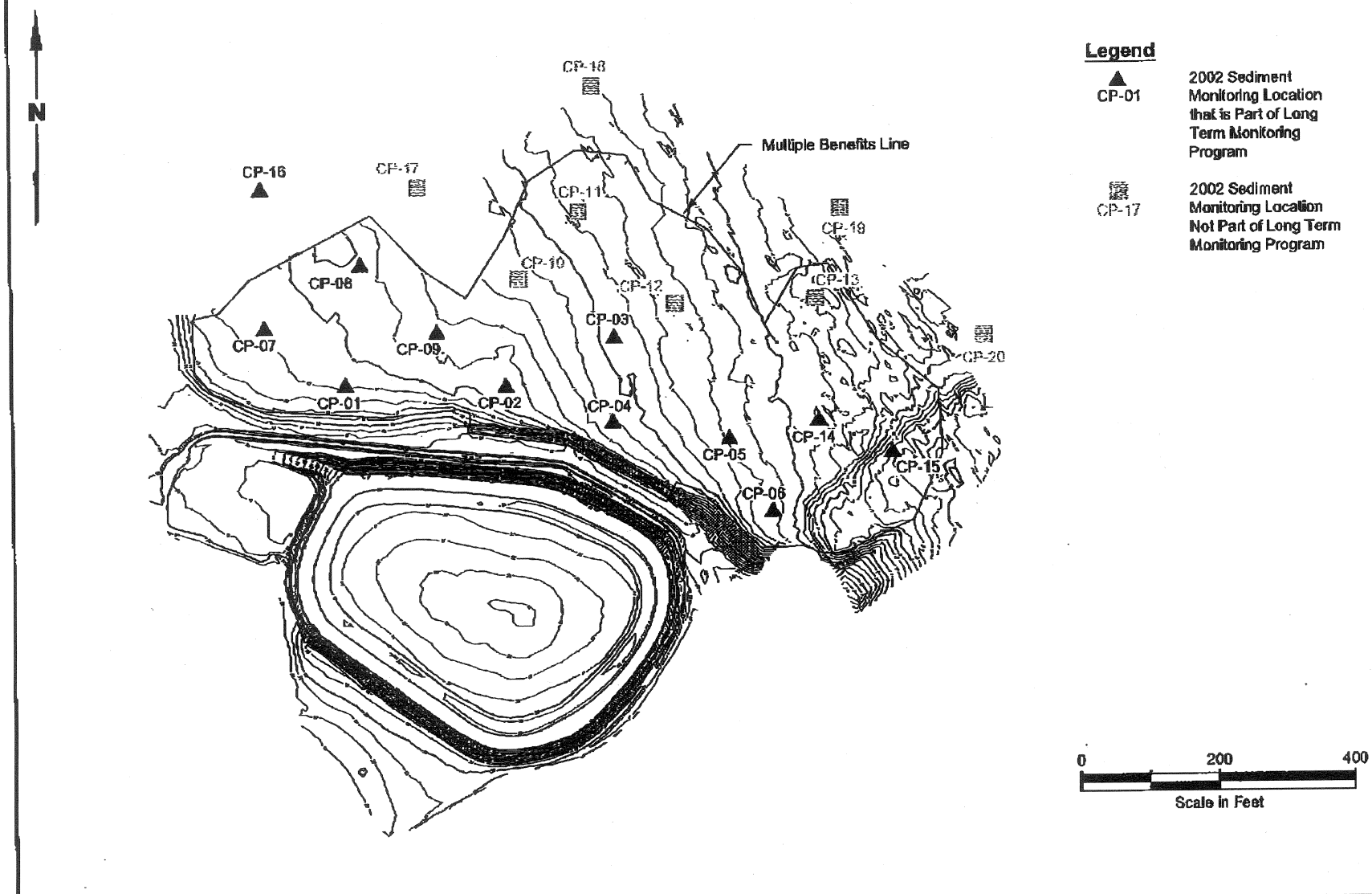
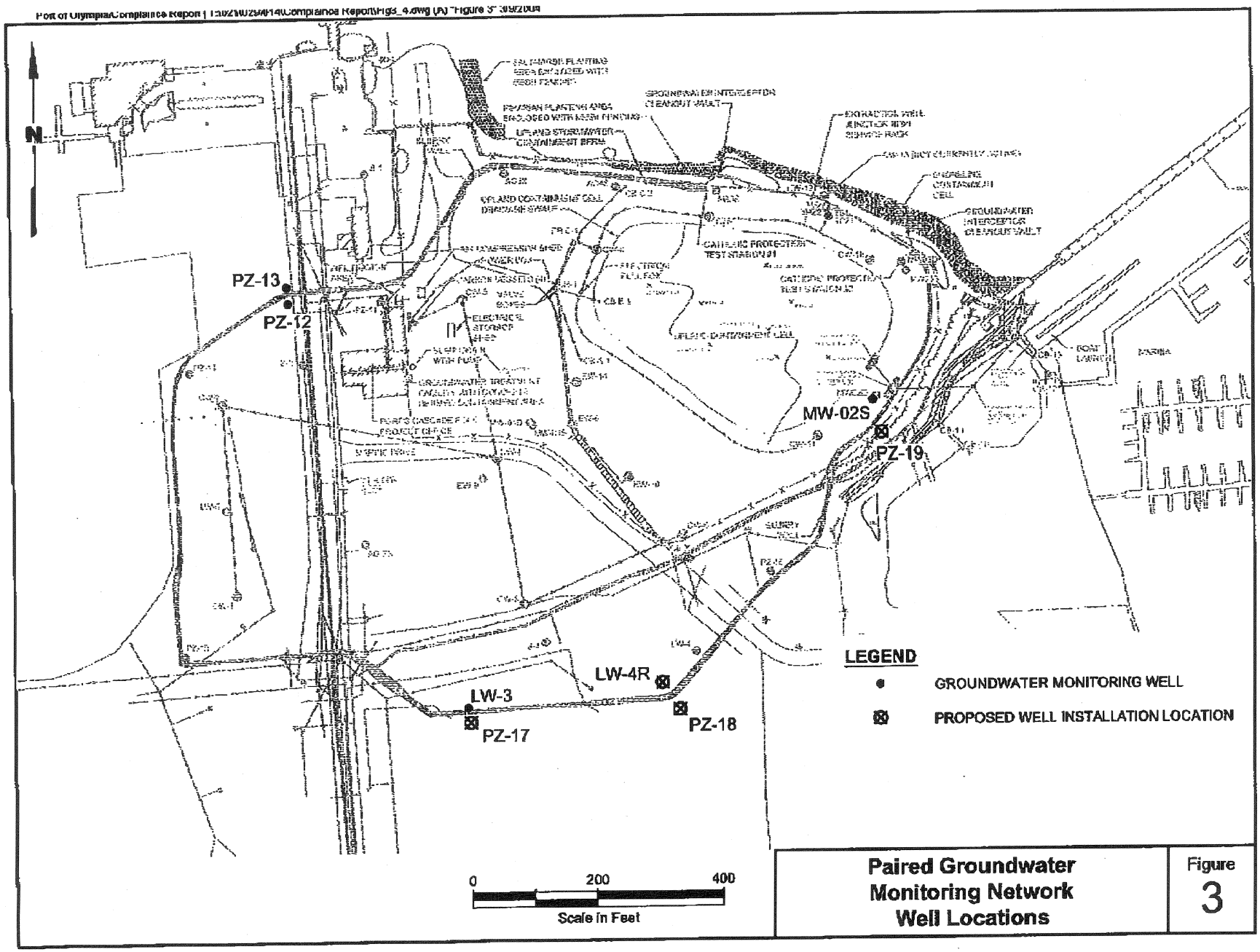
Port of Olympia\Compliance Report | 1:021\029\014\Compliance Report\Fig2.dwg (A) "Figure 2" 3/9/2004



Source: Bathymetric Contours based on Survey by Hagedorn, Inc. on September 13, 2002

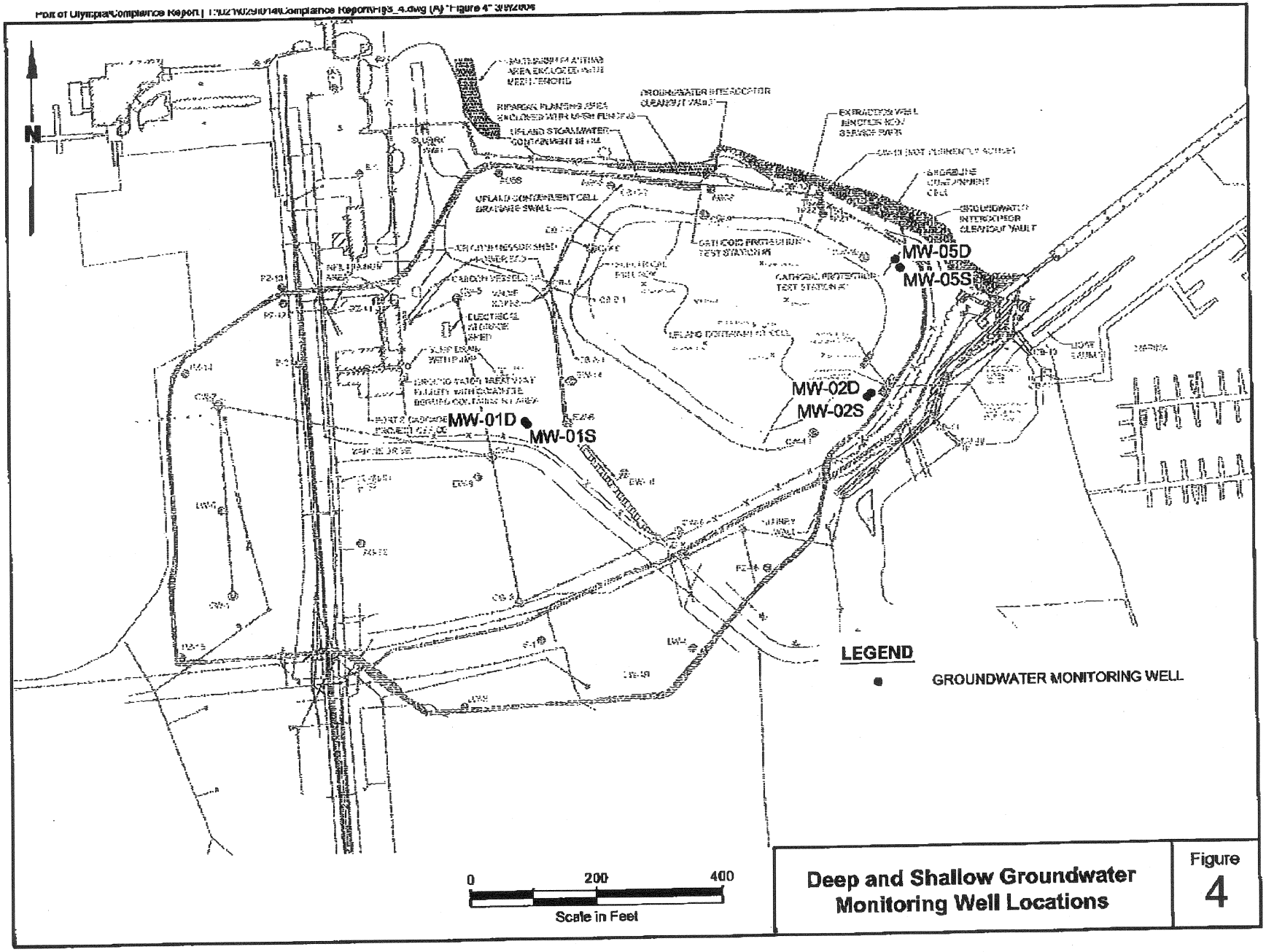
2002 Sediment Sampling Locations

Figure 2



Paired Groundwater Monitoring Network Well Locations

Figure 3



Deep and Shallow Groundwater Monitoring Well Locations

Figure 4