Tables

Table 1
Arsenic Data
Arsenic in Groundwater—Statistical Data Analysis
NSI Site/ Manson Construction Co.
Gig Harbor, Washington

Monitoring Well		Date Sampled	Arsenic mg/L
MW1	Pre-Cleanup	06/25/99	0.025
		09/23/99	0.021
		12/22/99	**0.004**
		03/20/00	**0.001**
	Post-Cleanup	09/04/02	0.0017
		11/04/02	**0.0039**
		02/08/03	0.0017
		05/09/03	0.0017
		07/15/03	0.0017
MW2	Pre-Cleanup	06/25/99	0.025
		09/23/99	0.005
		12/22/99	0.010
		03/20/00	0.011
	Post-Cleanup	09/04/02	0.0017
		11/04/02	0.0017
		02/08/03	**0.0041**
		05/09/03	0.0017
		07/15/03	0.0017
MW3	Pre-Cleanup	06/25/99	0.025
		09/23/99	0.0005
		12/22/99	0.0005
		03/20/00	**0.001**
MW3A	Post-Cleanup	11/04/02	0.0055
		02/08/03	0.0017
		05/09/03	0.0017
		07/15/03	0.0017
		10/23/03	0.0036
MW4	Pre-Cleanup	06/25/99	0.025
		09/23/99	0.013
		12/22/99	0.019
		03/20/00	0.006
MW5	Pre-Cleanup	06/25/99	0.025
		09/23/99	0.005
		12/22/99	0.008
		03/20/00	**0.003**
	Post-Cleanup	11/04/02	0.032
		02/08/03	0.0066
		05/09/03	**0.0043**
		07/15/03	0.0059
MW5A		10/23/03	0.036
		01/26/04	0.0017
		04/22/04	0.0017
		07/20/04	0.0017

Notes:
Bold numbers are < 0.005 mg/L.
Boxed numbers are > 0.005 mg/L.
Unbolded numbers are ½ PQL.
PQL - practical quantitation limit.
mg/L - milligrams per liter.

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Table 2
Summary Statistics
Arsenic in Groundwater—Statistical Data Analysis
NSI Site/ Manson Construction Co.
Gig Harbor, Washington

Statistical Parameter	MW1		MW2		MW4	
	Pre-Cleanup	Post-Cleanup	Pre-Cleanup	Post-Cleanup	Pre-Cleanup	Post-Cleanup
	mg/L					
	0.025	0.0017	0.025	0.0017	0.025	
	0.021	0.0039	0.005	0.0017	0.013	
	0.004	0.0017	0.010	0.0041	0.019	
	0.001	0.0017	0.011	0.0017	0.006	
		0.0017		0.0017		
Mean	**0.013**	**0.002**	**0.013**	**0.002**	**0.016**	
SD	0.012	0.001	0.009	0.001	0.008	
Median	**0.013**	**0.002**	**0.011**	**0.002**	**0.016**	
95% UCL of Median		**0.003**		**0.003**		

Statistical Parameter	MW3/3A		MW5/5A		MW3A	MW5A
	Pre-Cleanup	Post-Cleanup	Pre-Cleanup	Post-Cleanup	Predicted	Predicted
	mg/L					
	0.025	0.0055	0.025	0.0066	0.0055	0.0066
	0.0005	0.0017	0.005	0.0043	0.0017	0.0043
	0.0005	0.0017	0.008	0.0059	0.0017	0.0059
	0.001	0.0017	0.003	0.0017	0.0017	0.0017
		0.0036		0.0017	0.0036	0.0017
				0.0017	0.0017	0.0017
					0.0017	0.0017
					0.0017	0.0017
						0.0017
Mean	**0.007**	**0.003**	**0.010**	**0.004**	**0.002**	**0.003**
SD	0.012	0.002	0.010	0.002	0.001	0.002
Median	**0.001**	**0.002**	**0.007**	**0.003**	**0.002**	**0.002**
95% UCL of Median		**0.004**		**0.005**	**0.003**	**0.003**

Notes:
Future groundwater monitoring rounds assume arsenic is not detected.
Shaded numbers are assumed arsenic concentrations.
Boxed numbers are > 0.005 mg/L.
mg/L - milligrams per liter.

Table 3
Current Data
Arsenic in Groundwater—Statistical Data Analysis
NSI Site/ Manson Construction Co.
Gig Harbor, Washington

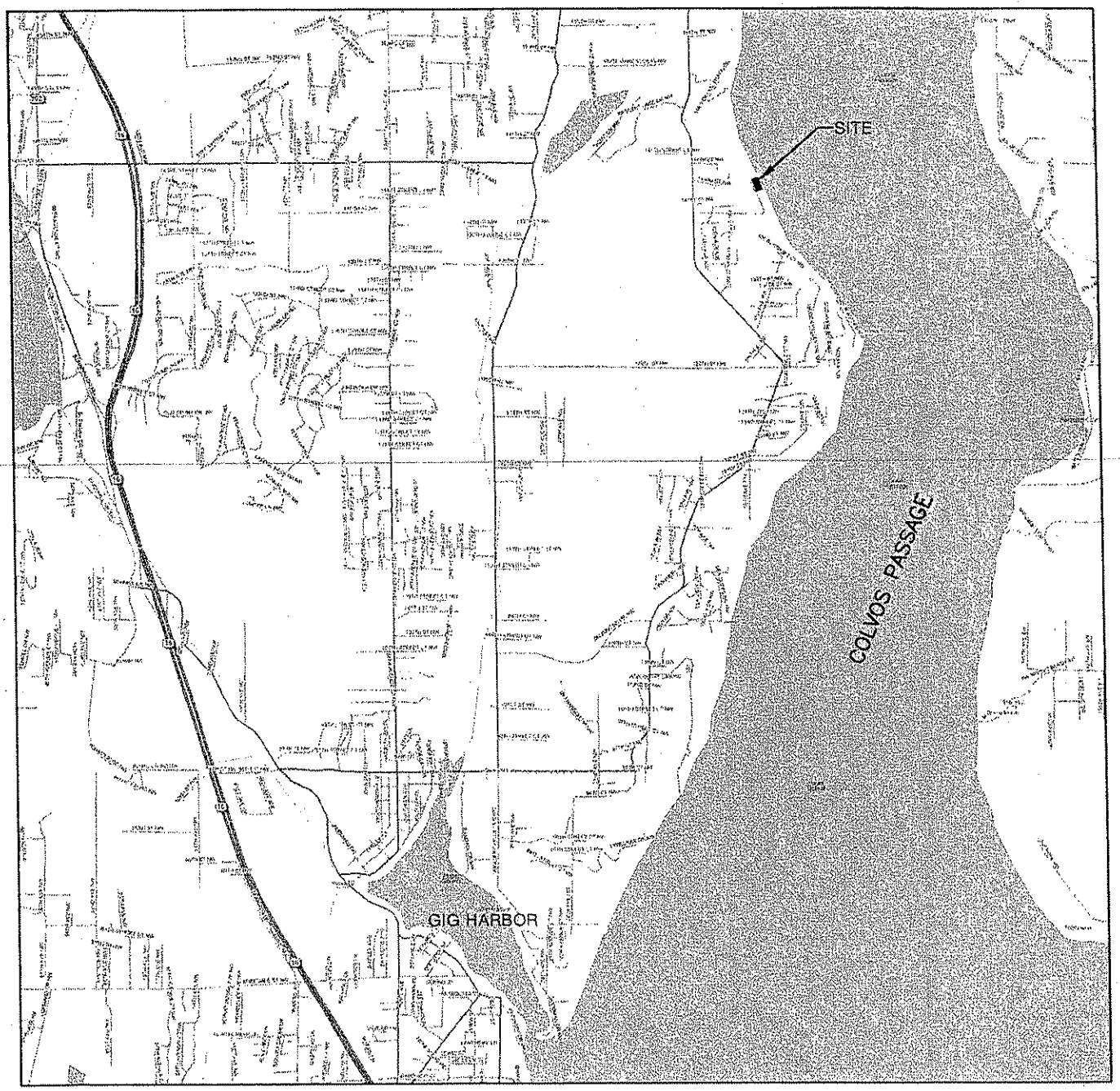
Statistical Parameter	MW1	MW2
	mg/L	
Median	**0.002**	**0.002**
n	5	5
n-1	4	4
t	2.132	2.132
SD	0.001	0.001
SQT (n)	2.236	2.236
95% UCL of median	**0.003**	**0.003**
Statistical Parameter	**MW3A**	**MW5A**
	mg/L	
Median	**0.002**	**0.003**
n	5	6
n-1	4	5
$t_{1-0.05}$	2.132	2.015
SD	0.002	0.002
SQT (n)	2.236	2.449
UCL of median	**0.004**	**0.005**

Table 4
Current and Predicted Data
Arsenic in Groundwater—Statistical Data Analysis
NSI Site/ Manson Construction Co.
Gig Harbor, Washington

Statistical Parameter	MW3A	MW5A
	mg/L	
Median	0.002	0.002
n	8	9
n-1	7	8
$t_{1-0.05}$	1.895	1.860
SD	0.001	0.002
SQT (n)	2.828	3.000
95% UCL of median	0.003	0.003

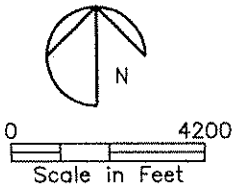
Notes:
Alpha = 0.05.
UCL = median + t (0.95 and n-1)*(SD/SQT(n)).
Shaded numbers are assumed arsenic concentrations.
Boxed numbers are > 0.005 mg/L.
mg/L - milligrams per liter.

Figures



©2000 DELORME, XMAP BUSINESS: ©2000 GDT INC. REL 04/2000

pencebs 5:16:31 11/01/04 09:04:50 Fig-1 P:\5000\36262\CLOSURE\



MANSON CONSTRUCTION / NORWEGIAN SALMON INDUSTRIES SITE
CLOSURE PLAN
GIG HARBOR, WASHINGTON

Figure No. 1
Vicinity Map

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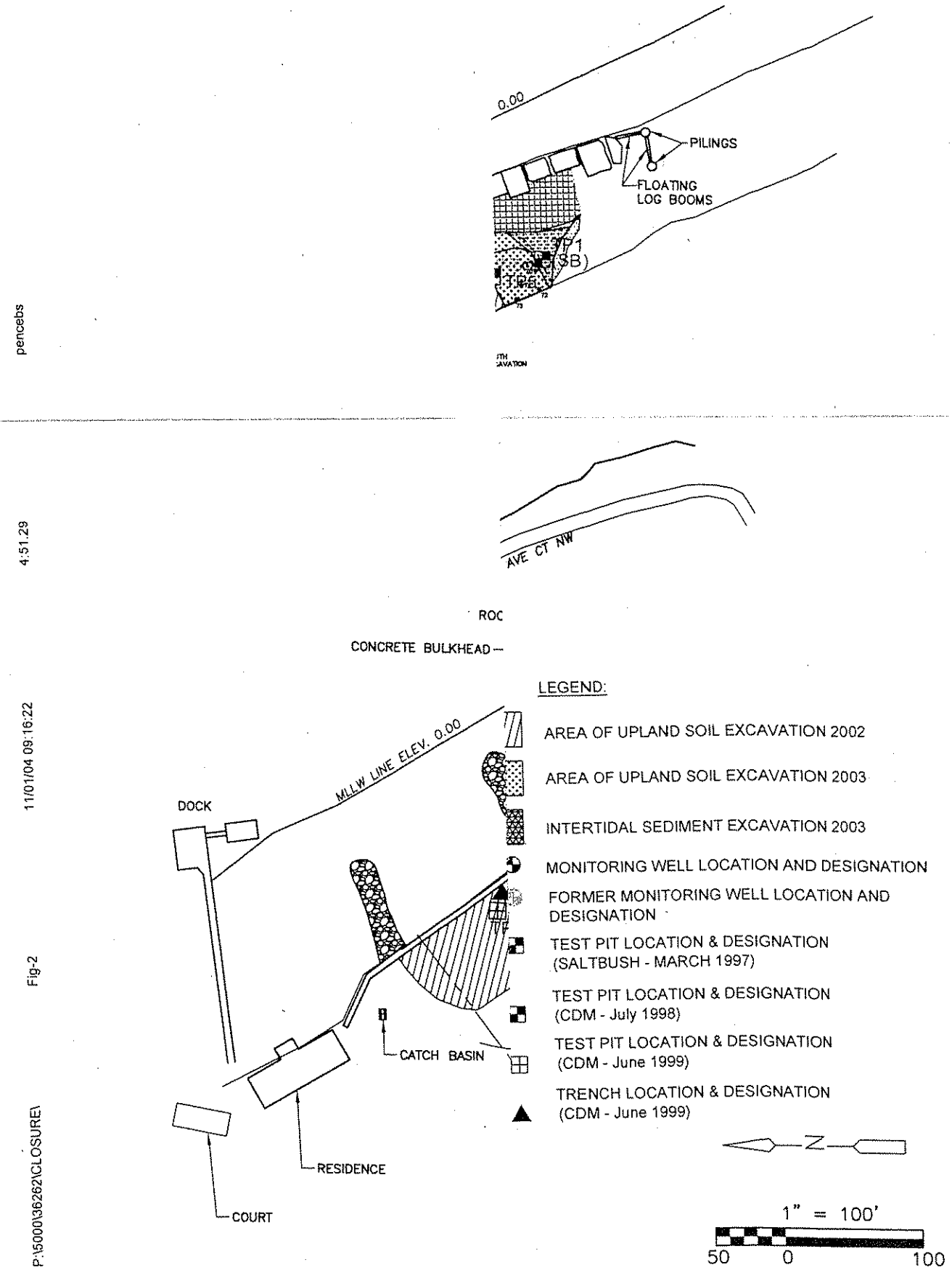

Figure No. 2
Soil Excavation And Former Test Pit Location Map

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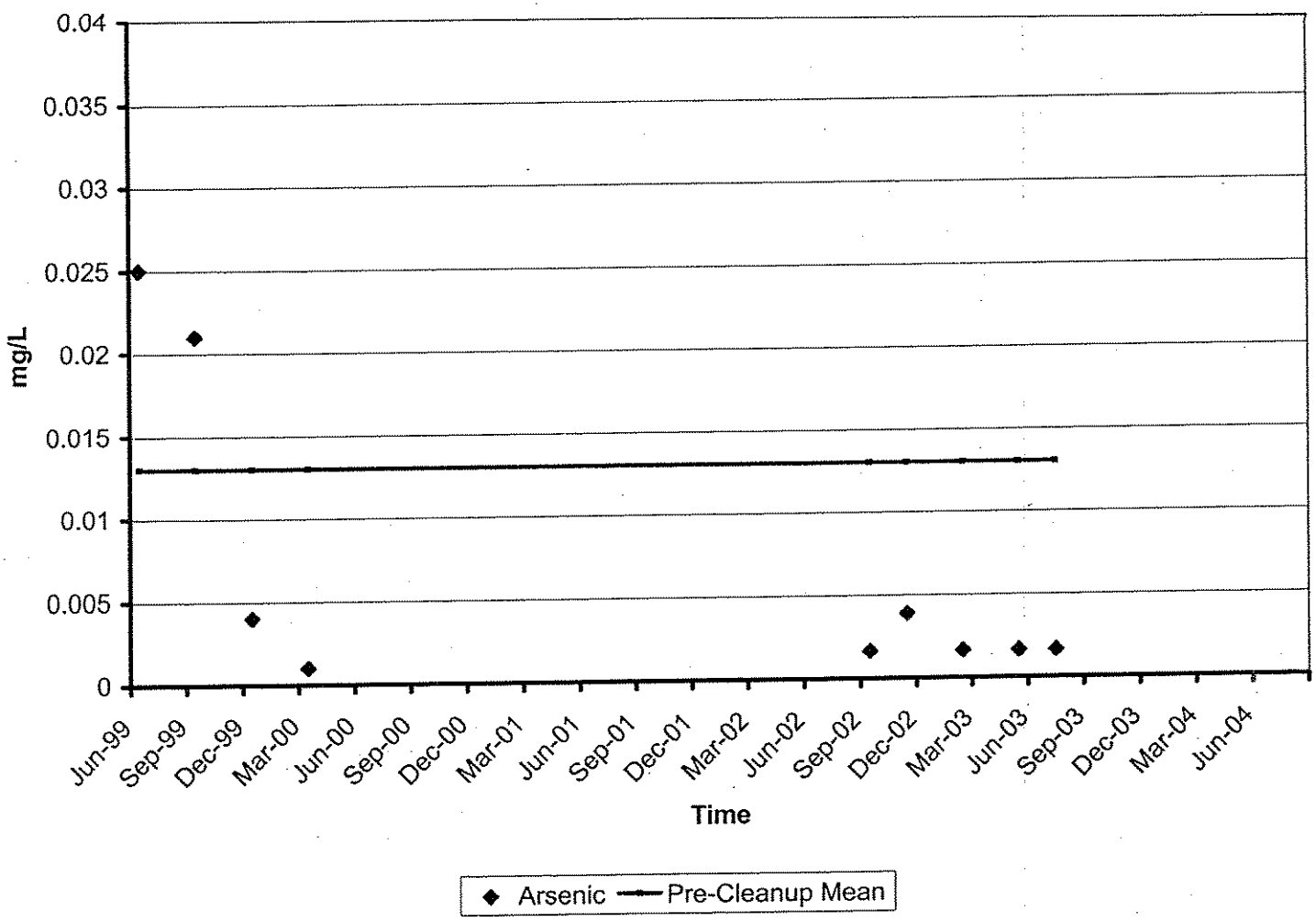
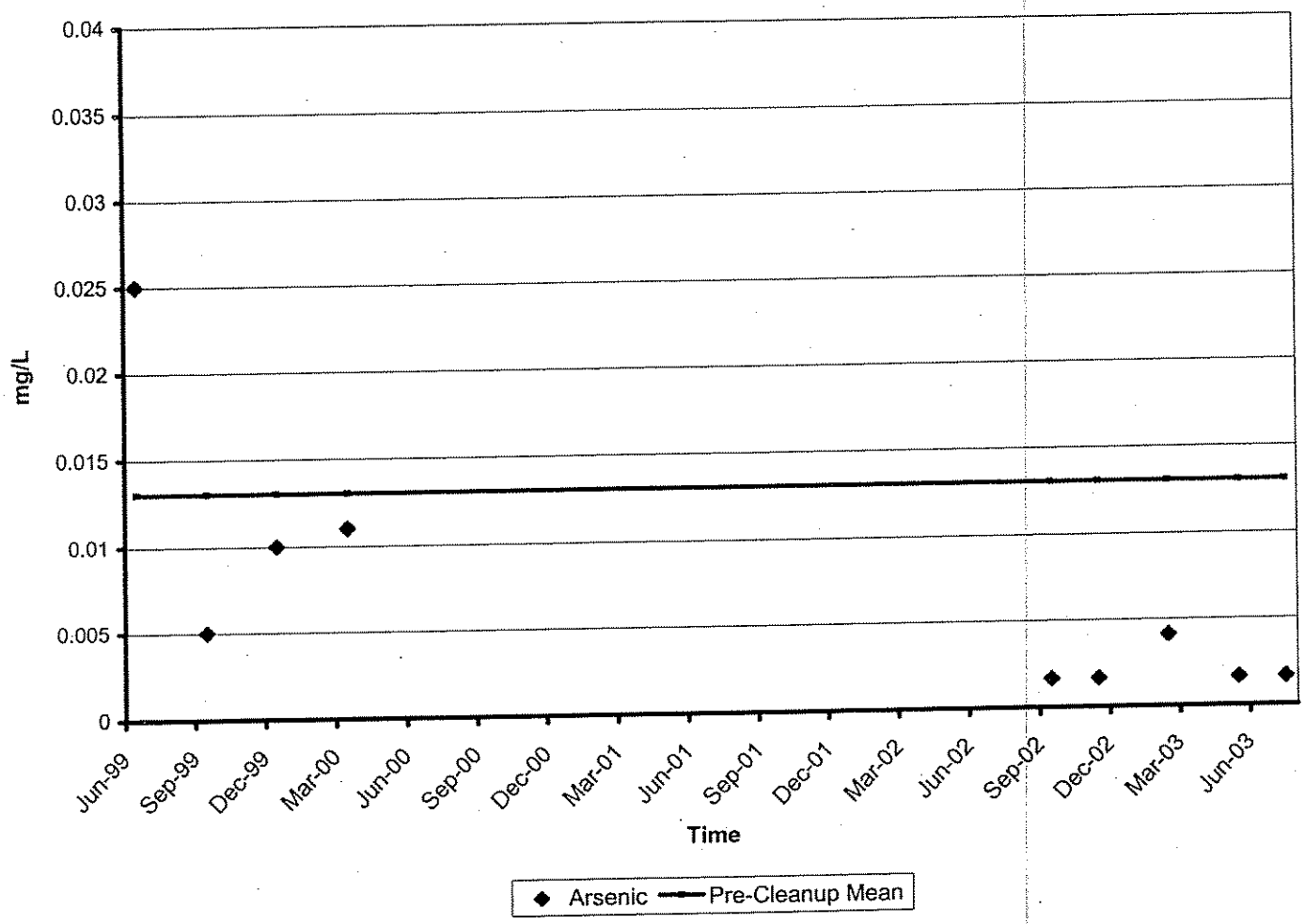


Manson Construction/Norwegian Salmon Industries Site
Closure Plan
Gig Harbor, Washington

Figure 3
MW1 - Arsenic Concentration versus Time

CDM



Manson Construction/Norwegian Salmon Industries Site
Closure Plan
Gig Harbor, Washington

Figure 4
MW2 - Arsenic Concentration versus Time

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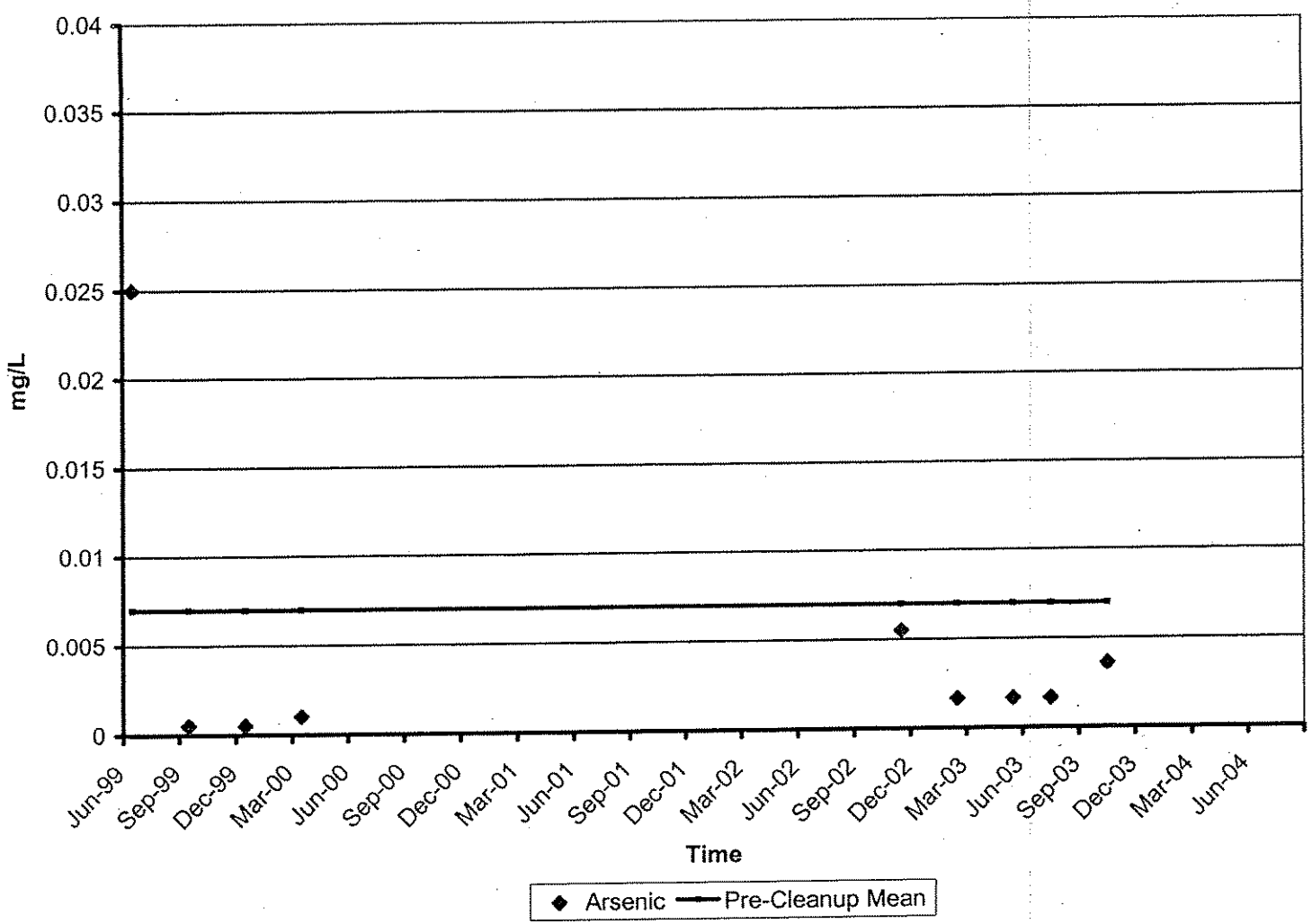
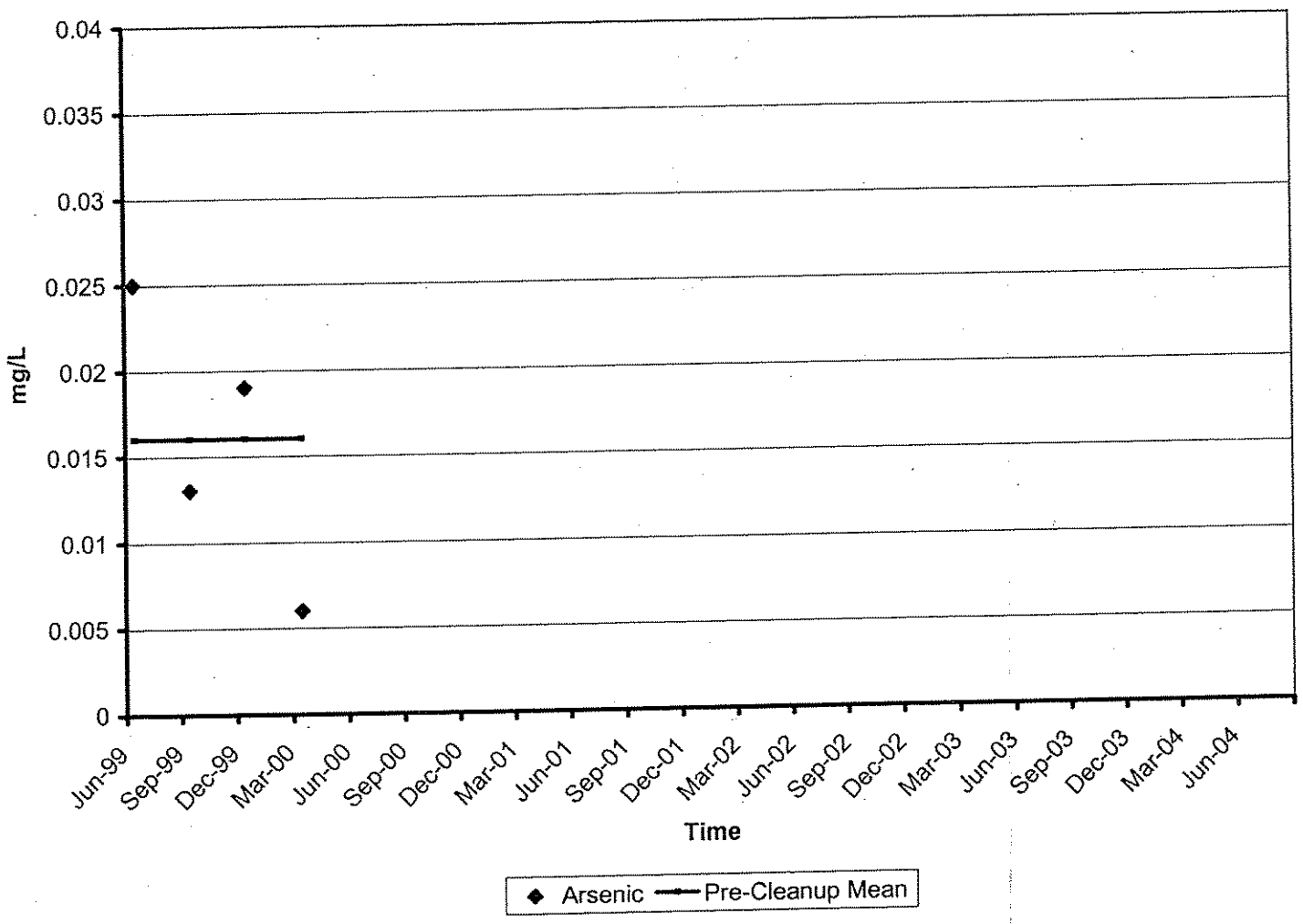


Manson Construction/Norwegian Salmon Industries Site
Closure Plan
Gig Harbor, Washington

Figure 5
MW3/3A - Arsenic Concentration versus Time

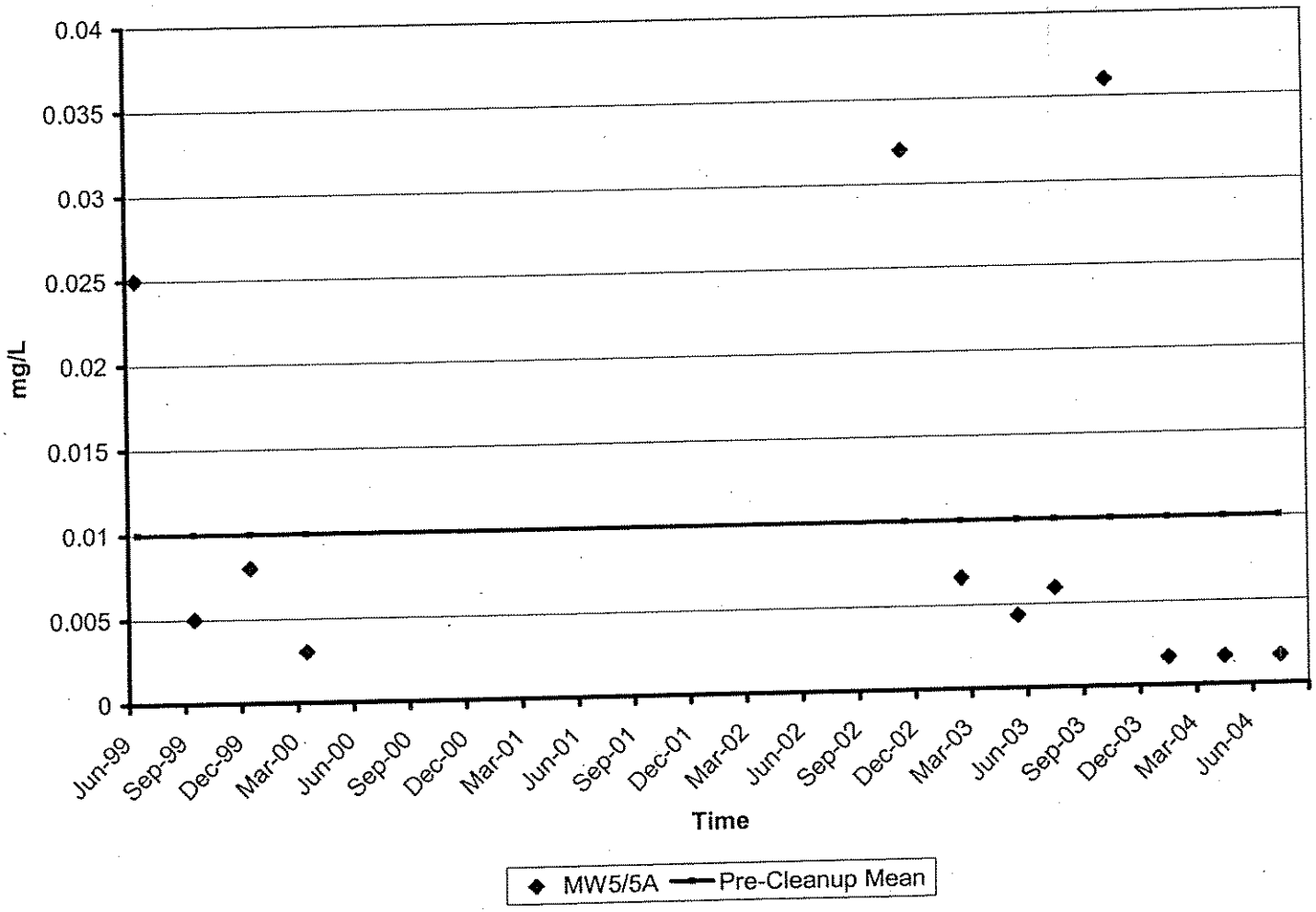
CDM



Manson Construction/Norwegian Salmon Industries Site
Closure Plan
Gig Harbor, Washington

Figure 6
MW4 - Arsenic Concentration versus Time

CDM



Manson Construction/Norwegian Salmon Industries Site
Closure Plan
Gig Harbor, Washington

Figure 7
MW5/5A - Arsenic Concentration versus Time

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Attachment A

Attachment A
Site Photographs – Closure Plan
Norwegian Salmon Industries

October 25, 2004

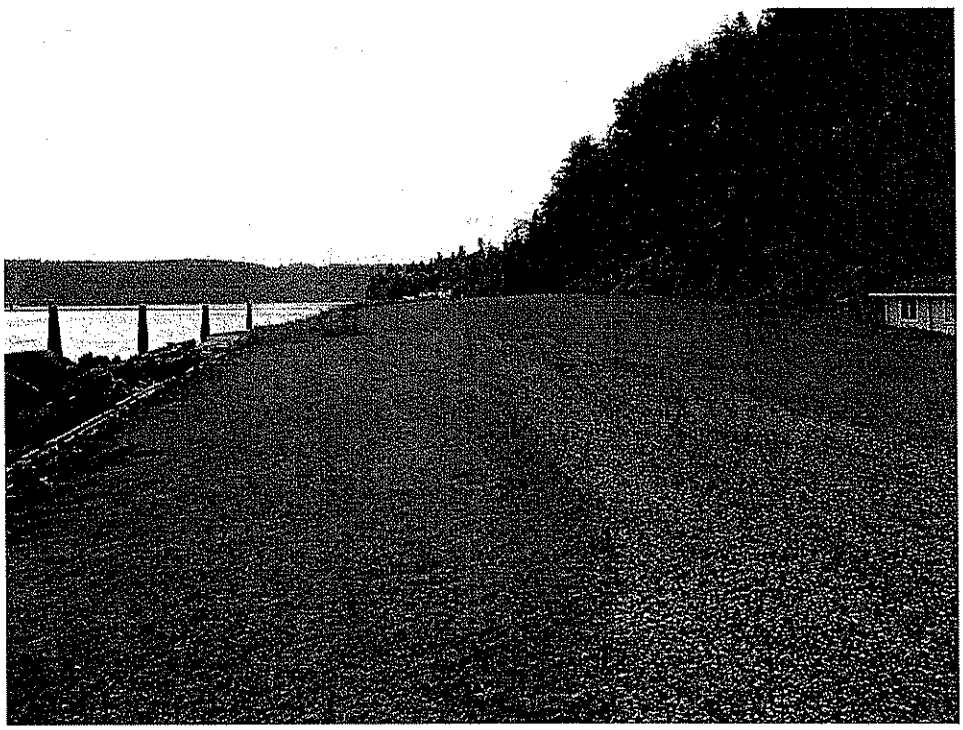
Photograph No. A-1

Photographed By:
Pam Morrill

Description: View of site at the south end looking north

October 25, 2004

Photograph No. A-2

Photographed By:
Pam Morrill

Description: View of the site at the north end looking south.