AP - 34

## ANNUAL MONITORING REPORT

YEAR(S): 9/22/2003 Site Name: Monument 6" Line Remediation Plan: 1R - 379

Company: Navajo

Contractor: Safety Environmental Solutions (Bob Allen)

Date Inspected: September 22, 2003 by Ed Martin, Larry Johnson and Paul Sheeley Further vertical excavation is not feasible since this action would disturb the barrier, still intact, between the leak site and the groundwater. S.E.S is using "Geo-squirt" pumps to accomplish product recovery. This leak occurred along an 800' section and a separate 200' section of an 18-month old pipeline.

Discussions are ongoing between Navajo, S.E.S. and the State Land Office concerning the status of the recovery wells. Apparently, SLO wants to designate these wells as monitor wells for which they exact a fee of \$500 each. These are, in fact, recovery wells. SLO representatives are Debbie Padilla, Brian Hennington and/or Cody Morrow.

## Recommendations:

Since product recovery is continuing, a groundwater abatement plan will not be required to be initiated at this time. This situation will be re-evaluated in 2004. Site is open to inspection by NMOCD district (I) representatives and they will monitor progress.

For tracking purposes, a remediation plan number will be assigned and entered into the NMOCD RBDMS system.

Site Name: Monument 6" Line Remediation Plan: 1R - 379

Company: Navajo

Contractor: Safety Environmental Solutions (Bob Allen)

Date Inspected: September 22, 2003 by Ed Martin, Larry Johnson and Paul Sheeley



This is a view of the site showing the recovery wells and the collection devices. Approximately 2100 - 2300 bbls were lost, and, to date, 1100 bbls have been recovered.



A different view of the site showing the areas of migration of the oil from the leaking pipeline. The pipeline in question was installed only 18 months prior to the leak.



Still another view showing recovery systems and soil staining.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 05/22/03

Reporting Date: 05/23/03 Project Number: NAV-02-005

Project Name: NORTH MONUMENT SOUR SYSTEM

Project Location: MONUMENT, NM

Sampling Date: 05/21/03

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)					
ANALYSIS DATE	05/22/03	05/22/03	05/22/03	05/22/03					
H7681-1 MW #3	<0.002	<0.002	<0.002	<0.006					
H7681-2 MW #5	<0.002	<0.002	<0.002	<0.006					
H7681-3 MW #1	<0.002	<0.002	<0.002	<0.006					
:									
Quality Control	0.109	0.108	0.106	0.314					
True Value QC	0.100	0.100	0.100	0.300					
% Recovery	109	108	106	105.0					
Relative Percent Difference	9.2	5.9	5.6	6.6					

METHOD: EPA SW-846 8260

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service—IFOS terminal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of of soits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of

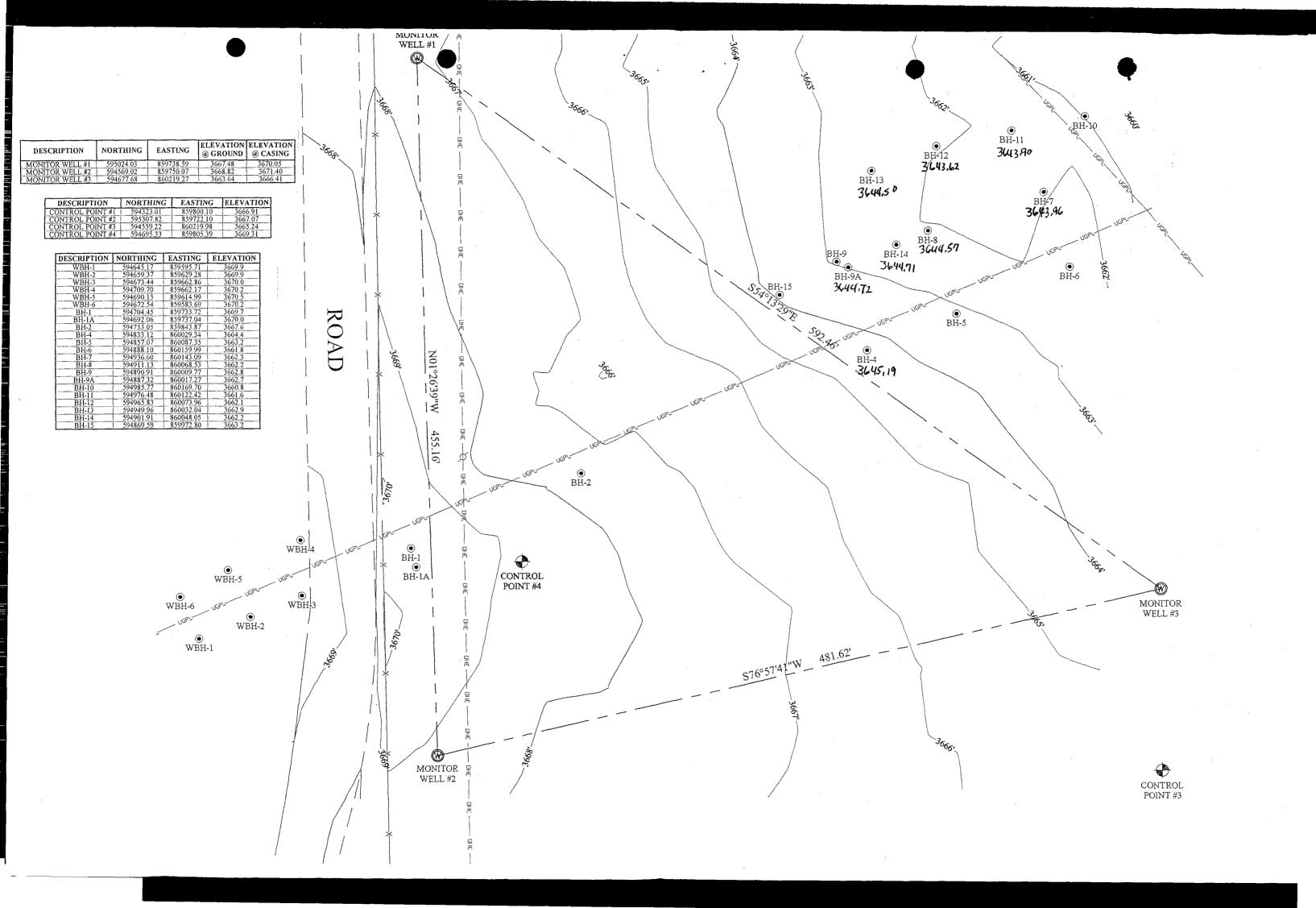
ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

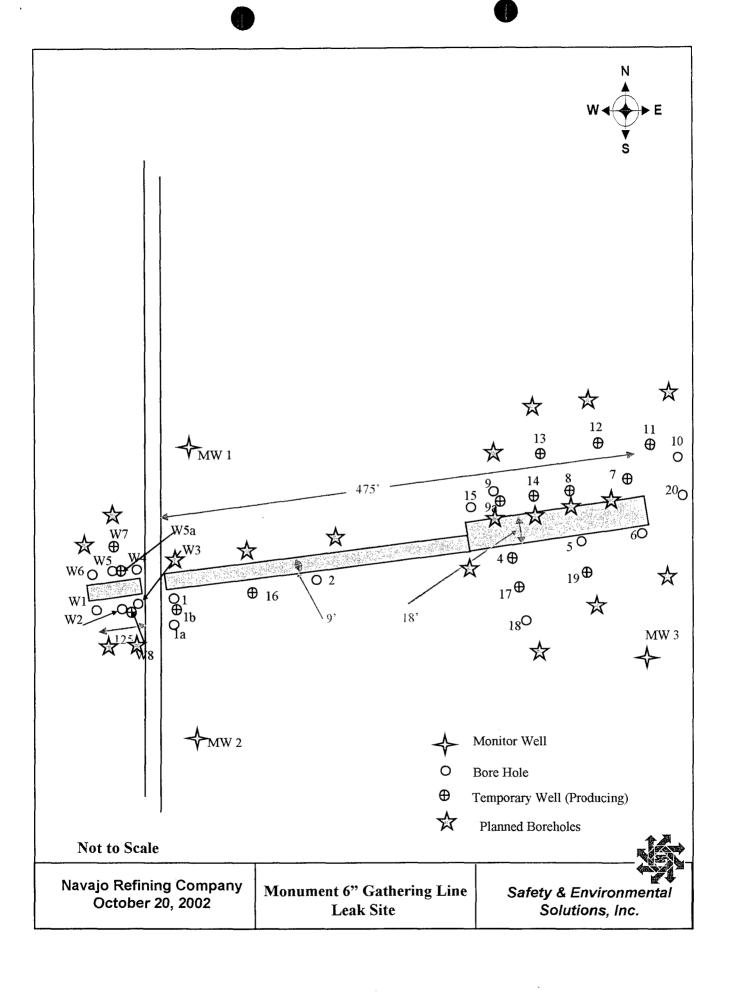
(505) 393-2476	
Fax	
(505) 393-2326 Fax	ī
(502)	
673-7020	
915)6	
Fax (	The residence of the last of t
73-70	Statement of the last of the l
915) 8	-

Company Name: SF	SEST			ANALYSIS REQUEST
Project Manager:		BILL TO PO#:	1#:	
Address: 703 E.	CLINTON, #103	Company: SAME		
Clfy: HOBBS	State: NM Zlp: 88240	Attn:		
05)	397-0510	Address:		
Fax#: (505) 39	393–4388	Clty:		
	-005 Project Owner:	State: ZIp:		
Project Name: NOR	Project Name: NORTH MONITOMEAN SAIR SKIRM	Phone #:		
Project Location:	MONITOFAIT	Fax #:		
ı		MATRIX PRES. SAMPLING		
	S⊱ Я∃1		U (	
LAB I.D.	IENIA AWGI	100 :	B	
	8AS(0) TMOO 3 TROON	OTHER SOIL DATE	TIME	
17/2/1	\$ % > <b>&gt; &lt;</b>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100	
	.5	DZ-5 X	x 5h:2	
77		¥ 6-2d	3:30 /	
			-	
			-	
P. EASE NOTE: Habily and Dame	PEASE HOTE: 1 LEMMY and Demone. Cardinate 1 stilly and clerif's exclusive remedy for any dalm at first whether	Whether based in corract or loci, shall be finited to the amount paid by the class for the	the amount paid by the client for the	Turns and Conditions: Idental will be charged on at adocurts more than
analyses. At dalme including those sendos, in no event shall cardinal be extracted to the control of the contro	analyses. A dalime including those for neglegates and any other course what be deemed welved unless made in writing and received by Candral writing 30 days after completion of the applicable analyses. A data for the completion of the applicable will be analysed to consider the data and the completion of the above and the considerable analyses. A description of the above stated research or otherwise.	d uriess made to writing and received by Candonal with lon, business liderruptions, loss of use, or loss of prof dess of whether euch claim is based upon any of the	an 30 days sher compellon of the applicable this incursed by clear, its subsidiance, above stated reasons or otherwise.	30 days pe it due at the rate of 24% per arrown from the original date of Inrotoe, and at costs of colections, hotodog attorsy's fees.
Sampler Relinquishe	Sampler Relinquished:// // Date: 22, Received Bv:	ed By:		D No Additional Fax #:
J. Shorts.	Times			
Relinquished By:		Received By: (Lab Staff)	1	
	Time:	Most Door		
Delivered By: (Circle One)		Sample Condition CHECKED BY:		
Sampler - UPS - Bu	Bus . Other:	X Yes X Yes		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

MW-3	MW-2	MW-1	WBH-8	WBH-7	WBH-6	WBH-5A	WBH-5	WBH-4	WBH-3	WBH-2	WBH-1	BH-20	BH-19	BH-18	BH-17	BH-16	BH-15	BH-14	BH-13	BH-12	BH-11	BH-10	вн-9А	BH-9	BH-8	BH-7	BH-6	BH-5	BH-4	BH-3	BH-2	BH-1B	BH-1A	BH-1	Borehole
																																			Date TD
3663.64	3668.82	3667.48			3670.2		3670.5	3670.2	3670	3669.9	3669.9						3663.2	3662.2	3662.9	3662.1	3661.6	3660.8	3662.7	3662.8	3662.2	3662.3	3661.8	3663.2	3664.4		3667.6		3670	3669.7	Surface El.
													3.08		2.92	1.54		2.67	2.42	1.75	2.17		1.83		2.29	1.42			0.71			1.54			ToC to Surface
													22.25		23.11	25.78		20.16	20.82	20.23	19.87		19.81		19.92	19.76			19.92			26.64			Top Of Oil
													26.75		27.45	29.41		24.62	25	20.77	24.23		25.15		24.86	24.9			25.27			29.85			Top Of Water
0	0	0				0							4.5		4.34	3.63		4.46	4.18	0.54	4.36		5.34		4.94	5.14		A STATE OF THE STA	5.35			3.21			Product Thickness
3663.64	3668.82	3667.48				0							-19.17		-20.19	-24.24		3644.71	3644.5	3643.62	3643.9		3644.72		3644.57	3643.96			3645.19			-25.1			El. of Top of Oil
3663.64	3668.82	3667.48	And the second s			0							-23.67		-24.53	-27.87		3640.25	3640.32	3643.08	3639.54		3639.38		3639.63	3638.82			3639.84			-28.31			El. of Top of Water
																																			Status





STATE OF A

h 100 s st 11 15

