SDMS US EPA Region V

Imagery Insert Form

Document ID: 177606

Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:

[X] Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comments:

LIGHT TEXT ON SOME EARLY PAGES; DIVIDER TABS COPIED DARK

[ ] Includes _____ COLOR or _____ RESOLUTION variations.
Unless otherwise noted, these pages are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.

Specify Type of Document(s) / Comments:

[ ] Confidential Business Information (CBI).
This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comments:

[ ] Unscannable Material:
Oversized ____ or ____ Format.
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center.

Specify Type of Document(s) / Comments:

[ ] Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

Rev. 07/10/02

177666

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

January 3, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 99MCM4V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES
MATRIX 140/SOIL

SITE NL TAPACORP SUPERFUND SITE
REVIEWER Wendy Reinbolt
REVIEWER'S NAME WENDY REINBOLT
COMPLETION DATE 8/27/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES					
2. BLANKS					
3. CCV					
4. STANDARD MATRIX SPIKE					
5. MATRIX SPIKE					
6. OTHER QC					
7. OVERALL ASSESSMENT					

NOT APPLICABLE

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: REVIEW OF % MOISTURE CALCULATIONS - ALL OF THE ATTACHED CALCULATIONS WERE CHECKED FOR ACCURACY. WLCX 756 WAS CORRECTED. NO OTHER ERRORS WERE FOUND.
Wendy Reinbolt

[redacted]

FINAL REPORT
APPENDIX A
VOLUME I

NL/TARACORP SUPERFUND SITE GRANITE CITY, ILLINOIS

Prepared for

U.S. Department of the Army
Corps of Engineers, Omaha District
Omaha, Nebraska

March, 1993

Woodward-Clyde

Woodward-Clyde Consultants
2318 Millpark Drive
St. Louis, Missouri 63043

WCC Project No. 89MC114V

Engineering Inc

Letter of Transmitt

☑ 1 [illegible] Lilburn Park Rd
St. Louis, MO 63146
(314) 567-4600
FAX (314) 567-5030

☐ 8230 Marshall Dr
Lenexa, KS 66214
(913) 492-6554
FAX (913) 492-9256

☐ 701 E. 2nd St
Des Moines, IA 50309
(515) 282-9607
FAX (515) 282-9610

DATE 8-17-92 JOB NO 59 203 [illegible]

ATTENTION CYNTHIA PAVELKA

RE NL / TARACORP

WE ARE SENDING YOU ☑ Attached ☐ Under separate cover via _____ the following items

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	LATEST DATE	NO	DESCRIPTION
1			RAW DATA FOR MOISTURE ANALYSIS
1			C-O-C for samples WWC4 *934-999

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No exception taken ☐ Revise and submit ___ copies

☐ For your use ☐ Make corrections noted ☐ Submit ___ copies for distribution

☐ As requested ☐ Rejected ☐ Return ___ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19___ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Cynthia –

There should be sufficient data to cover 10% for each of the files (field groups: WWC, WWC3, WWC4). Other QC results will be available soon.

SEE DATA VALIDATION FILES FOR DATA - WEC, 8/25/92

COPY TO FILE

Signed: John Gemoules

If enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - reading

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 32

Date Start: 12/3/91 Chem. Int.: WAP Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture	
1	WWC-621	4	N	mix	dirt	1.3476	5.1664	5.4123	21.32	✓
2	622					1.3506	5.4605	5.7372	18.92	✓
3	623					1.3530	5.6713	6.1725	15.02	✓
4	624					1.3457	6.2429	6.2341	21.70	✓
5	625					1.3464	5.3287	5.7487	17.38	✓
6	626					1.3577	5.3301	5.9781	13.20	✓
7	627					1.3497	6.0440	5.6379	29.10	✓
8	628					1.3499	5.2484	5.3563	24.38	✓
9	629					1.3509	8.0997	7.9197	18.87	✓
10	630					1.3576	5.4142	5.6774	20.10	✓
11	631					1.3459	5.3427	5.6897	18.70	✓
12	632					1.3454	5.3007	5.7627	16.65	✓
13	633					1.3422	5.9843	6.1707	19.31	✓
14	634					1.3425	6.4790	6.7590	16.80	✓
15	635					1.3444	6.0055	6.1723	19.41	✓
16	636					1.3390	6.8032	7.1241	14.96	✓
17	637					1.3379	5.8247	6.0017	19.13	✓
18	638					1.3353	5.7042	6.1452	15.68	✓
19	639					1.3370	5.1741	5.8222	13.32	✓
20	640					1.3368	5.7767	5.9574	20.01	✓
21	MB					1.3393	—	1.3388	0	✓
22	RP WWC-640	↓	↓	↓	↓	1.3432	5.7170	5.9229	19.90	✓

\wp\chemcon\metdigst.frm.3

Batch 56534

$\left(\frac{B}{C-A}-1\right)\cdot 100 = \%\text{Moisture}$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 33

Date Start: 12/3/91 Chem. Int.: MP | Date End: 12/4/91 Chem. Int: MC | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC 641	7	N	mix	dirt	1.3378	5.5101	5.9683	15.96
2	642					1.3421	5.9749	6.3081	16.88
3	643					1.3464	6.2648	6.3956	19.36
4	644					1.3380	6.6490	6.7945	17.92
5	645					1.3387	6.7069	7.2764	11.47
6	646					1.3406	5.8992	5.9528	21.82
7	647					1.3465	6.4110	6.6496	17.28
8	648					1.3449	5.6559	5.6836	14.18
9	649					1.3414	5.3508	5.4460	23.29
10	650					1.3412	5.9766	6.3450	16.28
11	651					1.3368	5.7645	6.5746	9.14
12	652					1.3329	5.9533	6.0941	19.75
13	653					1.3309	6.4973	6.7961	15.88
14	654					1.3299	5.6821	6.2459	13.45
15	653					1.3288	5.7200	6.1759	15.20
16	656					1.3379	6.6525	7.3377	9.73
17	657					1.3276	5.1449	6.0900	8.40
18	658					1.3303	5.4298	5.6996	21.80
19	659					1.3341	6.4472	6.7969	15.27
20	660					1.3399	5.3235	6.0468	11.27
21	MB					1.3401	—	1.3402	0
22	RP WWC 1660					1.3430	6.4094	7.0163	11.48

\wp\chemcom\metdiget.frm.3

Batch 56534

$(\frac{B}{C-A}-1)\cdot 100 = \%Moisture$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 3

Date Start: 12/3/91 Chem. Int.: WHP Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC * 661	5	N	mix	dirt	1.3440	5.8236	6.0619	13.98
2	* 662					1.3399	5.3653	5.8133	16.62
3	* 663					1.3406	5.9478	6.4330	14.38
4	* 664					1.3398	5.1101	5.3763	21.01
5	* 665					1.3397	5.0251	5.2754	21.68
6	* 666					1.3399	5.1991	5.5034	19.92
7	* 667					1.3353	6.8994	7.0076	17.78
8	* 668					1.3483	8.4536	8.2881	17.91
9	* 669					1.3484	5.9933	6.3324	16.84
10	* 670					1.3353	6.2481	6.3099	20.38
11	* 671					1.3[illegible]	5.1046	5.4078	20.29
12	* 672					1.3405	5.6064	5.8472	19.62
13	* 673					1.3361	5.6857	5.4883	26.95
14	* 674					1.3348	5.1846	5.1681	26.06
15	* 675					1.3330	6.2167	5.6[illegible]	29.89
16	* 676					1.3312	5.0961	5.0382	27.26
17	* 677					1.3343	5.6743	5.5952	24.91
18	* 678					1.3345	5.2420	5.3785	22.85
19	* 679					1.3336	5.1045	5.3055	22.19
20	* 680					1.3356	5.8091	5.8741	21.87
21	MB					1.3358		1.3352	0
22	RP WWC * 680					1.3348	5.2761	5.3411	24.07

\wp\chemcom\metdigst.frm.3

Batch 36534

$(\frac{B}{C-A}-1)*100=\%Moisture$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 35

Date Start: 12/3/91 Chem. Int.: WP Date End: 12/4/91 Chem. Int: KG 12/9/91 Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC # 681	6	N	MIX	dirt	1.3723	5.0716	5.4156	19.63
2	# 682					1.3460	5.5533	5.5892	23.60
3	# 683					1.3521	5.4813	5.5934	22.62
4	# 684					1.3544	5.0399	5.2816	21.99
5	# 685					1.3545	5.0491	4.8805	30.16
6	# 686					1.3500	5.1455	5.1784	25.60
7	# 687					1.3431	5.9208	6.0494	20.52
8	# 688					1.3469	6.6412	5.4412	27.42
9	# 689					1.3445	6.0802	5.9835	23.70
10	# 690					1.3419	6.2150	6.4031	19.56
11	# 691					1.3384	6.8666	6.6562	22.56
12	# 692					1.3310	5.4153	5.6398	20.43
13	# 693					1.3341	6.8068	6.8840	18.46
14	# 694					1.3315	5.7103	5.6221	24.86
15	# 695					1.3324	6.4863	6.5853	19.02
16	# 696					1.3322	6.6411	6.9127	15.97
17	# 697					1.3349	5.0135	5.3824	19.25
18	# 698					1.3329	5.1363	5.5404	18.00
19	# 699					1.3353	6.0454	6.3438	16.82
20	# 700					1.3334	6.0542	6.2632	18.58
21	MB					1.3352	—	1.3348	0
22	RP (WWC # 700)					1.3325	5.6706	5.9781	18.08

\wp\chemcom\metdigst.frm.3

Batch 56534

$\left(\frac{B}{C-A}-1\right)\cdot 100 = \%\text{Moisture}$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 36

Date Start: 12/3/91 Chem. Int.: LAC Date End: 12/4/91 Chem. Int: [illegible] Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry sample & Container C	% Moisture	
1	WWC #701	2	N	mix	dirt	1.3202	5.2140	5.6227	17.48	
2	#702					1.3237	5.1222	5.4854	18.75	✓
3	#703					1.3286	5.3270	5.6454	19.53	✓
4	#704					1.3333	5.7463	6.0366	18.15	✓
5	#705					1.3331	5.3340	5.7479	17.23	✓
6	#706					1.3328	5.2802	5.6619	18.01	✓
7	#707					1.3261	5.0886	5.5978	16.05	✓
8	#708					1.3425	5.1606	5.6141	17.23	✓
9	#709					1.3428	5.4480	5.6454	21.02	✓
10	#710					1.3444	5.0127	5.3328	20.37	✓
11	#711					1.3481	5.2291	5.6004	19.68	✓
12	#712					1.3503	5.3450	5.2474	26.71	✓
13	#713					1.3526	5.5328	5.7482	20.58	✓
14	#714					1.3616	5.2029	5.5559	19.38	✓
15	#715					1.3583	5.4486	6.1504	12.05	✓
16	#716					1.3610	5.7126	6.2121	15.08	✓
17	#717					1.3581	5.3209	5.8527	15.45	✓
18	#718					1.3546	5.6980	5.9211	19.86	✓
19	#719					1.3525	5.3347	5.7876	16.86	✓
20	#720					1.3579	5.6873	6.0389	17.69	✓
21	MB					1.3530	—	1.3526	0	✓
22	RP WWC #720				dirt	1.3511	5.2414	5.6323	18.32	✓

\wp\chemcom\metdigst.frm.3

Batch 56534

$(\frac{B}{C-A}-1)*100=\%Moisture$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 37

.te Start: 12/3/91 Chem. Int.: LAC Date End: 12/4/91 Chem. Int: RG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC 721	3	N	mix	dist	1.3535	5.1337	5.3523	22.11
	722					1.3461	5.2350	5.5829	19.07
3	723					1.3394	5.5954	5.8635	19.16
	724					1.3377	5.2322	5.5335	19.81
5	725					1.3372	5.0263	5.4105	18.96
	726					1.3370	5.5783	5.8873	18.43
	727					1.3347	5.6313	5.7573	21.46
	728					1.3350	6.0221 ~~5.9482~~	6.2296	19.72
9	729					1.3395	5.2767	5.7105	17.16
	730					1.3430	5.4748	5.4679	24.66
1	731					1.3431	5.1396	5.3685	21.68
	732					1.3479	6.1033	6.2739	19.29
3	733					1.3544	5.8300	5.7622	24.39
	734					1.3585	5.1222	5.4340	20.43
5	735					1.3535	5.1188	5.3950	21.04
	736					1.3523	5.4408	5.5405	23.02
	737					1.3539	5.5780	5.7832	20.59
	738					1.3480	5.2346	5.4686	21.28
9	739					1.3459	5.5121	5.6751	21.46
	WWC 740					1.3425	5.5873	5.7802	20.58
1 B						1.3524	—	1.3520	0
P	WWC 740					1.3452	5.1320	5.4214	20.57

\chemcom\metdigst.frm.3

Batch 56534

$(\frac{B}{C-A}-1)*100=\%Moisture$

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 38

Date Start: 12/3/91 Chem. Int.: WHP Date End: 12/4/91 Chem. Int: KC Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture	
1	WWC #741	1	N	mix	dirt	1.3422	5.1245	5.3866	21.09	✓
2	#742					1.3452	5.2423	5.6024	15.79	✓
3	#743					1.3399	5.3021	5.6806	18.13	✓
4	#744					1.3433	5.0142	5.4778	17.54	✓
5	#745					1.3466	5.4150	5.4597	24.46	✓
6	#746					1.3495	6.1525	6.1173	22.51	✓
7	#747					1.3471	5.3196	5.6129	19.24	✓
8	#748					1.3459	5.6162	5.5385	25.32	✓
9	#749					1.3465	5.0328	5.4475	18.51	✓
10	#750					1.3447	6.0310	6.3518	16.98	✓
11	#751					1.3452	7.0365	6.8915	23.36	✓
12	#752					1.3394	5.3553	5.8336	16.08	✓
13	#753					1.3445	5.3690	5.4252	24.60	✓
14	#754					1.3490	5.7088	5.2024	23.74	✓
15	#755					1.3535	5.0438	5.3445	20.54	✓
16	#756					1.3550	5.8658	6.0271	20.35	20.44
17	#757					1.3559	5.6176	5.7980	20.85	✓
18	#758					1.3508	5.4044	5.9154	15.54	✓
19	#759					1.3510	5.1916	5.5381	19.35	✓
20	#760					1.3508	5.8146	5.7893	23.72	✓
21	MB					1.3423	—	1.3422	0	✓
22	RP WWC #760					1.3424	5.1306	5.2541	23.74	✓

\wp\chemcom\metdiget.frm.3

Batch 5534

$\left(\frac{B}{C-A}-1\right)\cdot 100 = \%\text{Moisture}$

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C100
NO. OF SAMPLES/
MATRIX 79 / soil
Analysis date: 11/22/91

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [signature]
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC#60, WWC# 80 RPD outside control limits; corresponding data qualified as estimated

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 591203 10100
NO. OF SAMPLES/
MATRIX 101/Soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Florida
REVIEWER'S NAME Kim Florida
COMPLETION DATE 1-29-92

Analysis Date - 11-25-91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	✓				
6. OTHER QC	—				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C1C0
NO. OF SAMPLES/
MATRIX 26/soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

Analysis date: 12/10/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	(1)				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(2)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (2) WWC2*60, WWC2*100 RPD outside of control limits; WWC2*140, WWC2*160 % recovery outside control range; corresponding sample results qualified as estimated (J).

COMMENTS: (1) High levels detected in one sample attributed to sample carry-over. Lab reran in later batch and found blank to be free of contamination.

ANALYTICAL RESULTS

MOISTURE

Pages 1 - 24

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C1CC
NO. OF SAMPLES/
MATRIX 141 /soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

Analysis date: 12/2/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC#580 RPD outside control limits; WWC#500, WWC#540 % recovery outside control limits. Lab indicated sample inhomogeneity; corresponding sample results qualified as estimated (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C100
NO. OF SAMPLES/
MATRIX 140 /soil
Analysis Date: 12/3/91

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC#1680 RPD outside control limits; corresponding sample result qualified as estimated (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C1CO
NO. OF SAMPLES/
MATRIX 14C/soil

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Dana Deffler
REVIEWER'S NAME Dana Deffler
COMPLETION DATE 2/11/92

Analysis date: 12/5/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC #900 % recovery outside control range; corresponding sample result qualified as estimated (J).

COMMENTS: (1) Negative % rec on WWC #820 attributed to sample concentration greater than 4 times the spike level; qualification not required.

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C310100
NO. OF SAMPLES/
MATRIX 62/soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana L. Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

Analysis date: 12-6-91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC#920 and WWC#960 RPD outside control limits; corresponding sample results qualified as estimated.

COMMENTS:

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

SAMPLE MATRIX: SOIL

PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1713100A00L	WWC*1	11/04/91	11/04/91	17.3		11/12/91	WHP
SMP1713100B00L	WWC*2	11/04/91	11/04/91	37.5		11/12/91	WHP
SMP1713100C00L	WWC*3	11/04/91	11/04/91	39.1		11/12/91	WHP
SMP1713200A00L	WWC*4	11/04/91	11/04/91	40.2		11/12/91	WHP
SMP1713200B00L	WWC*5	11/04/91	11/04/91	40.0		11/12/91	WHP
SMP1713200C00L	WWC*6	11/04/91	11/04/91	43.0		11/12/91	WHP
SMP1716100A00L	WWC*7	11/04/91	11/04/91	41.6		11/12/91	WHP
SMP1716100B00L	WWC*8	11/04/91	11/04/91	19.2		11/12/91	WHP
SMP1716100C00L	WWC*9	11/04/91	11/04/91	16.1		11/12/91	WHP
SMP1716200A00L	WWC*10	11/04/91	11/04/91	21.7		11/12/91	WHP
SMP1716200B00L	WWC*11	11/04/91	11/04/91	41.9		11/12/91	WHP
SMP1716200C00L	WWC*12	11/04/91	11/04/91	23.1		11/12/91	WHP
SMP1720100A00L	WWC*13	11/04/91	11/04/91	22.4		11/12/91	WHP
SMP1720100B00L	WWC*14	11/04/91	11/04/91	19.6		11/12/91	WHP
SMP1720100C00L	WWC*15	11/04/91	11/04/91	18.6		11/12/91	WHP
SMP1720200A00L	WWC*16	11/04/91	11/04/91	19.6		11/12/91	WHP
SMP1720200B00L	WWC*17	11/04/91	11/04/91	18.7		11/12/91	WHP
SMP1720200C00L	WWC*18	11/04/91	11/04/91	18.5		11/12/91	WHP
SMP1602100A00L	WWC*19	11/04/91	11/04/91	19.6		11/12/91	WHP
SMP1602100B00L	WWC*20	11/04/91	11/04/91	16.6		11/12/91	WHP
SMP1602100C00L	WWC*21	11/04/91	11/04/91	17.9		11/12/91	WHP
SMP1602200A00L	WWC*22	11/04/91	11/04/91	19.9		11/12/91	WHP
SMP1602200B00L	WWC*23	11/04/91	11/04/91	19.2		11/12/91	WHP
SMP1602200C00L	WWC*24	11/04/91	11/04/91	15.5		11/12/91	WHP
SMP1610100A00L	WWC*25	11/04/91	11/04/91	18.1		11/12/91	WHP
SMP1610100B00L	WWC*26	11/04/91	11/04/91	15.6		11/12/91	WHP
SMP1610100C00L	WWC*27	11/04/91	11/04/91	13.3		11/12/91	WHP
SMP1610200A00L	WWC*28	11/04/91	11/04/91	17.3		11/12/91	WHP
SMP1610200B00L	WWC*29	11/04/91	11/04/91	16.7		11/12/91	WHP
SMP1610200C00L	WWC*30	11/04/91	11/04/91	16.2		11/12/91	WHP
SMP1622100A00L	WWC*31	11/04/91	11/04/91	17.0		11/12/91	WHP
SMP1622100B00L	WWC*32	11/04/91	11/04/91	14.4		11/12/91	WHP
SMP1622100C00L	WWC*33	11/04/91	11/04/91	12.4		11/12/91	WHP
SMP1622200A00L	WWC*34	11/04/91	11/04/91	18.0		11/12/91	WHP
SMP1622200B00L	WWC*35	11/04/91	11/04/91	17.8		11/12/91	WHP
SMP1622200C00L	WWC*36	11/04/91	11/04/91	16.9		11/12/91	WHP
SMP1640100A00L	WWC*37	11/04/91	11/04/91	16.9		11/12/91	WHP
SMP1640100B00L	WWC*38	11/04/91	11/04/91	7.9		11/12/91	WHP
SMP1640100C00L	WWC*39	11/04/91	11/04/91	34.5		11/12/91	WHP
SMP1640200A00L	WWC*40	11/04/91	11/04/91	20.5		11/12/91	WHP
SMP1640200B00L	WWC*41	11/04/91	11/04/91	19.6		11/13/91	WHP
SMP1640200C00L	WWC*42	11/04/91	11/04/91	19.6		11/13/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

SAMPLE MATRIX: SOIL

PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1640200C00L	WWC#42	11/04/91	11/04/91	19.6		11/13/91	WHP
SMP1643100A00L	WWC#43	11/05/91	11/05/91	20.9		11/13/91	WHP
SMP1643100B00L	WWC#44	11/05/91	11/05/91	18.3		11/13/91	WHP
SMP1643100C00L	WWC#45	11/05/91	11/05/91	18.0		11/13/91	WHP
SMP1647100A00L	WWC#46	11/05/91	11/05/91	16.3		11/13/91	WHP
SMP1647100B00L	WWC#47	11/05/91	11/05/91	17.2		11/13/91	WHP
SMP1647100C00L	WWC#48	11/05/91	11/05/91	17.7		11/13/91	WHP
SMP1643200A00L	WWC#49	11/05/91	11/05/91	13.5		11/13/91	WHP
SMP1643200B00L	WWC#50	11/05/91	11/05/91	15.4		11/13/91	WHP
SMP1643200C00L	WWC#51	11/05/91	11/05/91	17.8		11/13/91	WHP
SMP1644100A00L	WWC#52	11/05/91	11/05/91	15.9		11/13/91	WHP
SMP1644100B00L	WWC#53	11/05/91	11/05/91	13.7		11/13/91	WHP
SMP1644100C00L	WWC#54	11/05/91	11/05/91	12.7		11/13/91	WHP
SMP1644200A00L	WWC#55	11/05/91	11/05/91	24.0		11/13/91	WHP
SMP1644200B00L	WWC#56	11/05/91	11/05/91	22.1		11/13/91	WHP
SMP1644200C00L	WWC#57	11/05/91	11/05/91	18.0		11/13/91	WHP
SMP1648100A00L	WWC#58	11/05/91	11/05/91	21.3		11/13/91	WHP
SMP1648100B00L	WWC#59	11/05/91	11/05/91	18.7		11/13/91	WHP
SMP1648100C00L	WWC#60	11/05/91	11/05/91	13.9		11/13/91	WHP
SMP1648200A00L	WWC#61	11/05/91	11/05/91	33.5		11/13/91	WHP
SMP1648200B00L	WWC#62	11/05/91	11/05/91	22.2		11/13/91	WHP
SMP1648200C00L	WWC#63	11/05/91	11/05/91	20.2		11/13/91	WHP
SOL1601100A00L	WWC#64	11/05/91	11/05/91	21.2		11/13/91	WHP
SOL1601100B00L	WWC#65	11/05/91	11/05/91	18.8		11/13/91	WHP
SOL1601100C00L	WWC#66	11/05/91	11/05/91	17.9		11/13/91	WHP
SOL1601200A00L	WWC#67	11/05/91	11/05/91	18.3		11/13/91	WHP
SOL1601200B00L	WWC#68	11/05/91	11/05/91	15.8		11/13/91	WHP
SOL1601200C00L	WWC#69	11/05/91	11/05/91	16.2		11/13/91	WHP
SOL1625100A00L	WWC#70	11/05/91	11/05/91	20.6		11/13/91	WHP
SOL1625100B00L	WWC#71	11/05/91	11/05/91	18.2		11/13/91	WHP
SOL1625100C00L	WWC#72	11/05/91	11/05/91	16.0		11/13/91	WHP
SOL1625200A00L	WWC#73	11/05/91	11/05/91	26.5		11/13/91	WHP
SOL1625200B00L	WWC#74	11/05/91	11/05/91	25.4		11/13/91	WHP
SOL1625200C00L	WWC#75	11/05/91	11/05/91	20.4		11/13/91	WHP
SOL1629100A00L	WWC#76	11/05/91	11/05/91	19.6		11/13/91	WHP
SOL1629100B00L	WWC#77	11/05/91	11/05/91	17.4		11/13/91	WHP
SOL1629100C00L	WWC#78	11/05/91	11/05/91	18.0		11/13/91	WHP
SOL1629200A00L	WWC#79	11/05/91	11/05/91	22.8		11/13/91	WHP
SOL1629200B00L	WWC#80	11/05/91	11/05/91	19.7		11/13/91	WHP
SOL1629200C00L	WWC#81	11/05/91	11/05/91	18.6		11/13/91	WHP
SMP1730100A00L	WWC#82	11/05/91	11/05/91	24.7		11/13/91	WHP
SMP1730100B00L	WWC#83	11/05/91	11/05/91	24.5		11/13/91	WHP

Environmental Science & Engineering, Inc.

St Louis Chemistry Laboratory

1665 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

AMPLE MATRIX: SOIL

PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
MP1730100B00L	WWC*83	11/05/91	11/05/91	24.5		11/13/91	WHP
MP1730100C00L	WWC*84	11/05/91	11/05/91	20.5		11/13/91	WHP
MP1730200A00L	WWC*85	11/05/91	11/05/91	18.3		11/13/91	WHP
MP1730200B00L	WWC*86	11/05/91	11/05/91	16.3		11/13/91	WHP
MP1730200C00L	WWC*87	11/05/91	11/05/91	13.9		11/13/91	WHP
SMP1738100A00L	WWC*88	11/05/91	11/05/91	23.6		11/13/91	WHP
P1738100B00L	WWC*89	11/05/91	11/05/91	20.9 SMP1738100B00L		11/13/91	WHP
MP1738100C00L	WWC*90	11/05/91	11/05/91	19.3		11/13/91	WHP
MP1738200A00L	WWC*91	11/05/91	11/05/91	20.8		11/13/91	WHP
SMP1738200B00L	WWC*92	11/05/91	11/05/91	19.5		11/13/91	WHP
MP1738200C00L	WWC*93	11/05/91	11/05/91	19.9		11/13/91	WHP
MP1739100A00L	WWC*94	11/05/91	11/05/91	20.4		11/13/91	WHP
SMP1739100B00L	WWC*95	11/05/91	11/05/91	18.1		11/13/91	WHP
SMP1739100C00L	WWC*96	11/05/91	11/05/91	17.7		11/13/91	WHP
MP1739200A00L	WWC*97	11/05/91	11/05/91	22.3		11/13/91	WHP
MP1739200B00L	WWC*98	11/05/91	11/05/91	21.2		11/13/91	WHP
SMP1739200C00L	WWC*99	11/05/91	11/05/91	21.6		11/13/91	WHP
SMP1741100A00L	WWC*100	11/05/91	11/05/91	24.1		11/13/91	WHP
MP1741100B00L	WWC*101	11/05/91	11/05/91	21.9		11/13/91	WHP
MP1741100C00L	WWC*102	11/05/91	11/05/91	19.4		11/13/91	WHP
SMP1741200A00L	WWC*103	11/05/91	11/05/91	24.6		11/13/91	WHP
MP1741200B00L	WWC*104	11/05/91	11/05/91	20.8		11/13/91	WHP
MP1741200C00L	WWC*105	11/05/91	11/05/91	23.8		11/13/91	WHP
MP1742100A00L	WWC*106	11/05/91	11/05/91	21.7		11/13/91	WHP
SMP1742100B00L	WWC*107	11/05/91	11/05/91	19.5		11/13/91	WHP
MP1742100C00L	WWC*108	11/05/91	11/05/91	19.2		11/13/91	WHP
MP1742200A00L	WWC*109	11/05/91	11/05/91	17.8		11/13/91	WHP
MP1742200B00L	WWC*110	11/05/91	11/05/91	14.6		11/13/91	WHP
SMP1742200C00L	WWC*111	11/05/91	11/05/91	14.3		11/13/91	WHP
MP1747100A00L	WWC*112	11/05/91	11/05/91	23.2		11/13/91	WHP
MP1747100B00L	WWC*113	11/05/91	11/05/91	20.7		11/13/91	WHP
MP1747100C00L	WWC*114	11/05/91	11/05/91	18.7		11/13/91	WHP
SMP1747200A00L	WWC*115	11/05/91	11/05/91	21.5		11/13/91	WHP
MP1747200B00L	WWC*116	11/05/91	11/05/91	21.8		11/13/91	WHP
MP1747200C00L	WWC*117	11/05/91	11/05/91	20.4		11/13/91	WHP
SMP1744100A00L	WWC*118	11/06/91	11/06/91	19.1		11/13/91	WHP
SMP1744100B00L	WWC*119	11/06/91	11/06/91	17.4		11/13/91	WHP
MP1744100C00L	WWC*120	11/06/91	11/06/91	16.6		11/13/91	WHP
MP1744200A00L	WWC*121	11/06/91	11/06/91	25.5		11/14/91	WHP
SMP1744200B00L	WWC*122	11/06/91	11/06/91	24.4		11/14/91	WHP
SMP1744200C00L	WWC*123	11/06/91	11/06/91	20.2		11/14/91	WHP
OL1712100A00L	WWC*124	11/06/91	11/06/91	16.0		11/14/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

Analytical Chemistry Res

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
OL1712100A00L	WWC*124	11/06/91	11/06/91	16.0		11/14/91	WHP
OL1712100B00L	WWC*125	11/06/91	11/06/91	22.1		11/14/91	WHP
SOL1712100C00L	WWC*126	11/06/91	11/06/91	25.6		11/14/91	WHP
OL1712200A00L	WWC*127	11/06/91	11/06/91	20.4		11/14/91	WHP
OL1712200B00L	WWC*128	11/06/91	11/06/91	16.9		11/14/91	WHP
OL1712200C00L	WWC*129	11/06/91	11/06/91	18.6		11/14/91	WHP
SOL1713100A00L	WWC*130	11/06/91	11/06/91	17.8		11/14/91	WHP
OL1713100B00L	WWC*131	11/06/91	11/06/91	16.6		11/14/91	WHP
OL1713100C00L	WWC*132	11/06/91	11/06/91	16.1		11/14/91	WHP
OL1713200A00L	WWC*133	11/06/91	11/06/91	20.9		11/14/91	WHP
SOL1713200B00L	WWC*134	11/06/91	11/06/91	19.0		11/14/91	WHP
OL1713200C00L	WWC*135	11/06/91	11/06/91	18.4		11/14/91	WHP
OL1717100A00L	WWC*136	11/06/91	11/06/91	21.0		11/14/91	WHP
1717100A0LD	WWC*137	SOL17[illegible]	11/06/91	19.6		11/14/91	WHP
SOL1717100B00L	WWC*138	11/06/91	11/06/91	17.5		11/14/91	WHP
OL1717100B0LD	WWC*139	11/06/91	11/06/91	20.0		11/14/91	WHP
OL1717100C00L	WWC*140	11/06/91	11/06/91	16.2		11/14/91	WHP
SOL1717100C0LD	WWC*141	11/06/91	11/06/91 O not Ø	16.1		11/14/91	WHP
SOL1717200A00L	WWC*142	11/06/91	11/06/91	17.4		11/14/91	WHP
OL1717200A0LM	WWC*143	11/06/91	11/06/91	16.9		11/14/91	WHP
OL1717200AØLX	WWC*144	11/06/91	11/06/91 Ø not O	17.0		11/14/91	WHP
SOL1717200B00L	WWC*145	11/06/91	11/06/91	15.3		11/14/91	WHP
SOL1717200B0LM	WWC*146	11/06/91	11/06/91	15.6		11/14/91	WHP
OL1717200B0LX	WWC*147	11/06/91	11/06/91	15.6		11/14/91	WHP
OL1717200C00L	WWC*148	11/06/91	11/06/91	17.5		11/14/91	WHP
SOL1717200C0LM	WWC*149	11/06/91	11/06/91	17.7		11/14/91	WHP
SOL1717200C0LX	WWC*150	11/06/91	11/06/91	17.6		11/14/91	WHP
OL1734100A00L	WWC*151	11/06/91	11/06/91	20.5		11/14/91	WHP
OL1734100B00L	WWC*152	11/06/91	11/06/91	20.8		11/14/91	WHP
SOL1734100C00L	WWC*153	11/06/91	11/06/91	20.4		11/14/91	WHP
OL1734200A00L	WWC*154	11/06/91	11/06/91	21.7		11/14/91	WHP
OL1734200B00L	WWC*155	11/06/91	11/06/91	21.8		11/14/91	WHP
OL1734200C00L	WWC*156	11/06/91	11/06/91	20.7		11/14/91	WHP
SOL1744100A00L	WWC*157	11/06/91	11/06/91	19.3		11/14/91	WHP
OL1744100B00L	WWC*158	11/06/91	11/06/91	16.3		11/14/91	WHP
OL1744100C00L	WWC*159	11/06/91	11/06/91	13.1		11/14/91	WHP
SOL1744200A00L	WWC*160	11/06/91	11/06/91	21.0		11/14/91	WHP
SOL1744200B00L	WWC*161	11/06/91	11/06/91	21.1		11/15/91	WHP
OL1744200C00L	WWC*162	11/06/91	11/06/91	22.2		11/15/91	WHP
OL1639100A00L	WWC*163	11/06/91	11/06/91	13.4		11/15/91	WHP
SOL1639100B00L	WWC*164	11/06/91	11/06/91	12.8		11/15/91	WHP
SOL1639100C00L	WWC*165	11/06/91	11/06/91	15.4		11/15/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314/567-4900
Fax 314/567-5030

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
OL1639100C00L	WWC*165	11/06/91	11/06/91	15.4		11/15/91	WHP
OL1639200A00L	WWC*166	11/06/91	11/06/91	18.0		11/15/91	WHP
SOL1639200B00L	WWC*167	11/06/91	11/06/91	19.6		11/15/91	WHP
OL1639200C00L	WWC*168	11/06/91	11/06/91	19.0		11/15/91	WHP
OL1634100A00L	WWC*169	11/06/91	11/06/91	18.5		11/15/91	WHP
OL1634100B00L	WWC*170	11/06/91	11/06/91	17.1		11/15/91	WHP
SOL1634100C00L	WWC*171	11/06/91	11/06/91	20.3		11/15/91	WHP
OL1634200A00L	WWC*172	11/06/91	11/06/91	19.1		11/15/91	WHP
OL1634200B00L	WWC*173	11/06/91	11/06/91	18.0		11/15/91	WHP
OL1634200C00L	WWC*174	11/06/91	11/06/91	16.7		11/15/91	WHP
SOL1636100A00L	WWC*175	11/06/91	11/06/91	23.2		11/15/91	WHP
OL1636100B00L	WWC*176	11/06/91	11/06/91	18.0		11/15/91	WHP
OL1636100C00L	WWC*177	11/06/91	11/06/91	17.1		11/15/91	WHP
SOL1636200A00L	WWC*178	11/06/91	11/06/91	18.2		11/15/91	WHP
SOL1636200B00L	WWC*179	11/06/91	11/06/91	19.7		11/15/91	WHP
OL1636200C00L	WWC*180	11/06/91	11/06/91	21.0		11/15/91	WHP
OL1638100A00L	WWC*181	11/06/91	11/06/91	19.8		11/15/91	WHP
SOL1638100B00L	WWC*182	11/06/91	11/06/91	19.0		11/15/91	WHP
SOL1638100C00L	WWC*183	11/06/91	11/06/91	18.4		11/15/91	WHP
OL1640100A00L	WWC*184	11/06/91	11/06/91	17.8		11/15/91	WHP
OL1640100B00L	WWC*185	11/06/91	11/06/91	17.2		11/15/91	WHP
SOL1640100C00L	WWC*186	11/06/91	11/06/91	17.2		11/15/91	WHP
SOL1640200A00L	WWC*187	11/06/91	11/06/91	19.2		11/15/91	WHP
OL1640200B00L	WWC*188	11/06/91	11/06/91	27.1		11/15/91	WHP
OL1640200C00L	WWC*189	11/06/91	11/06/91	15.9		11/15/91	WHP
SCH1731100A00L	WWC*190	11/06/91	11/06/91	23.6		11/15/91	WHP
SCH1731100B00L	WWC*191	11/06/91	11/06/91	22.0		11/15/91	WHP
SCH1731100C00L	WWC*192	11/06/91	11/06/91	18.6		11/15/91	WHP
SCH1731200A00L	WWC*193	11/06/91	11/06/91	24.7		11/15/91	WHP
SCH1731200B00L	WWC*194	11/06/91	11/06/91	22.8		11/15/91	WHP
SCH1731200C00L	WWC*195	11/06/91	11/06/91	23.3		11/15/91	WHP
SCH1735100A00L	WWC*196	11/06/91	11/06/91	23.3		11/15/91	WHP
SCH1735100B00L	WWC*197	11/06/91	11/06/91	21.8		11/15/91	WHP
SCH1735100C00L	WWC*198	11/06/91	11/06/91	18.9		11/15/91	WHP
SCH1735200A00L	WWC*199	11/06/91	11/06/91	22.2		11/15/91	WHP
SCH1735200B00L	WWC*200	11/06/91	11/06/91	20.2		11/15/91	WHP
SCH1735200C00L	WWC*201	11/06/91	11/06/91	19.7		11/21/91	WHP
SCH1739100A00L	WWC*202	11/06/91	11/06/91	19.4		11/21/91	WHP
SCH1739100B00L	WWC*203	11/06/91	11/06/91	18.1		11/21/91	WHP
SCH1739100C00L	WWC*204	11/06/91	11/06/91	18.6		11/21/91	WHP
SCH1739200A00L	WWC*205	11/06/91	11/06/91	19.6		11/21/91	WHP
SCH1739200B00L	WWC*206	11/06/91	11/06/91	17.1		11/21/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
CH1739200B00L	WWC*206	11/06/91	11/06/91	17.1		11/21/91	WHP
CH1739200C00L	WWC*207	11/06/91	11/06/91	15.2		11/21/91	WHP
SCH1728100A00L	WWC*208	11/06/91	11/06/91	15.8		11/21/91	WHP
SCH1728100B00L	WWC*209	11/06/91	11/06/91	14.4		11/21/91	WHP
CH1728100C00L	WWC*210	11/06/91	11/06/91	14.6		11/21/91	WHP
CH1728200A00L	WWC*211	11/06/91	11/06/91	21.9		11/21/91	WHP
SCH1728200B00L	WWC*212	11/06/91	11/06/91	18.8		11/21/91	WHP
SCH1728200C00L	WWC*213	11/06/91	11/06/91	17.0		11/21/91	WHP
SP1648100A00L	WWC*214	11/07/91	11/07/91	18.8		11/21/91	WHP
SP1648100B00L	WWC*215	11/07/91	11/07/91	17.2		11/21/91	WHP
SSP1648100C00L	WWC*216	11/07/91	11/07/91	16.4		11/21/91	WHP
SP1648200A00L	WWC*217	11/07/91	11/07/91	22.3		11/21/91	WHP
SP1648200B00L	WWC*218	11/07/91	11/07/91	19.3		11/21/91	WHP
SP1648200C00L	WWC*219	11/07/91	11/07/91	18.1		11/21/91	WHP
SSP1638100A00L	WWC*220	11/07/91	11/07/91	22.6		11/21/91	WHP
SP1638100B00L	WWC*221	11/07/91	11/07/91	21.3		11/21/91	WHP
SP1638100C00L	WWC*222	11/07/91	11/07/91	21.6		11/21/91	WHP
SP1638200A00L	WWC*223	11/07/91	11/07/91	23.2		11/21/91	WHP
SSP1638200B00L	WWC*224	11/07/91	11/07/91	23.0		11/21/91	WHP
SP1638200C00L	WWC*225	11/07/91	11/07/91	19.6		11/21/91	WHP
SP1626100A00L	WWC*226	11/07/91	11/07/91	18.9		11/21/91	WHP
SP1626100B00L	WWC*227	11/07/91	11/07/91	16.8		11/21/91	WHP
SSP1626100C00L	WWC*228	11/07/91	11/07/91	13.2		11/21/91	WHP
SP1626200A00L	WWC*229	11/07/91	11/07/91	21.4		11/21/91	WHP
SP1626200B00L	WWC*230	11/07/91	11/07/91	20.8		11/21/91	WHP
SP1626200C00L	WWC*231	11/07/91	11/07/91	18.4		11/21/91	WHP
SSP1634100A00L	WWC*232	11/07/91	11/07/91	22.2		11/21/91	WHP
SP1634100B00L	WWC*233	11/07/91	11/07/91	18.8		11/21/91	WHP
SP1634100C00L	WWC*234	11/07/91	11/07/91	16.0		11/21/91	WHP
SSP1634200A00L	WWC*235	11/07/91	11/07/91	21.1		11/21/91	WHP
SSP1634200B00L	WWC*236	11/07/91	11/07/91	19.7		11/21/91	WHP
SP1634200C00L	WWC*237	11/07/91	11/07/91	18.8		11/21/91	WHP
CH1719100A00L	WWC*238	11/07/91	11/07/91	21.6		11/21/91	WHP
SCH1719100B00L	WWC*239	11/07/91	11/07/91	20.9		11/21/91	WHP
SCH1719100C00L	WWC*240	11/07/91	11/07/91	16.1		11/21/91	WHP
CH1719200A00L	WWC*241	11/07/91	11/07/91	26.5		11/21/91	WHP
CH1719200B00L	WWC*242	11/07/91	11/07/91	22.1		11/21/91	WHP
SCH1719200C00L	WWC*243	11/07/91	11/07/91	21.6		11/21/91	WHP
CH1714100A00L	WWC*244	11/07/91	11/07/91	20.4		11/21/91	WHP
CH1714100B00L	WWC*245	11/07/91	11/07/91	17.2		11/21/91	WHP
CH1714100C00L	WWC*246	11/07/91	11/07/91	18.3		11/21/91	WHP
SCH1714200A00L	WWC*247	11/07/91	11/07/91	23.8		11/21/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
CH1714200A00L	WWC*247	11/07/91	11/07/91	23.8		11/21/91	WHP
CH1714200B00L	WWC*248	11/07/91	11/07/91	20.3		11/21/91	WHP
CH1714200C00L	WWC*249	11/07/91	11/07/91	20.8		11/21/91	WHP
CH1718100A00L	WWC*250	11/07/91	11/07/91	18.4		11/21/91	WHP
CH1718100B00L	WWC*251	11/07/91	11/07/91	13.7		11/21/91	WHP
CH1718100C00L	WWC*252	11/07/91	11/07/91	15.8		11/21/91	WHP
SCH1718200A0LM	WWC*253	11/07/91	11/07/91	21.2		11/21/91	WHP
CH1718200B0LM	WWC*254	11/07/91	11/07/91	22.0		11/21/91	WHP
CH1718200C0LM	WWC*255	11/07/91	11/07/91	13.2		11/21/91	WHP
CH1718200A0LX	WWC*256	11/07/91	11/07/91	20.5		11/21/91	WHP
SCH1718200B0LX	WWC*257	11/07/91	11/07/91	19.6		11/21/91	WHP
CH1718200C0LX	WWC*258	11/07/91	11/07/91	17.4		11/21/91	WHP
CH1718200A00L	WWC*259	11/07/91	11/07/91	20.1		11/21/91	WHP
CH1718200B00L	WWC*260	11/07/91	11/07/91	17.9		11/21/91	WHP
SCH1718200C00L	WWC*261	11/07/91	11/07/91	14.4		11/21/91	WHP
CH1715100A00L	WWC*262	11/07/91	11/07/91	21.0		11/21/91	WHP
CH1715100B00L	WWC*263	11/07/91	11/07/91	23.0		11/21/91	WHP
CH1715100C00L	WWC*264	11/07/91	11/07/91	20.0		11/21/91	WHP
SCH1715200A0LM	WWC*265	11/07/91	11/07/91	24.7		11/21/91	WHP
CH1715200A0LX	WWC*266	11/07/91	11/07/91	25.3		11/21/91	WHP
CH1715200B0LM	WWC*267	11/07/91	11/07/91	23.8		11/21/91	WHP
CH1715200A0LX	WWC*268	11/07/91	11/07/91	23.8		11/21/91	WHP
CH1715200C0LM	WWC*269	11/07/91	11/07/91	24.9		11/21/91	WHP
CH1715200C0LX	WWC*270	11/07/91	11/07/91	7.4		11/21/91	WHP
CH1715200A00L	WWC*271	11/07/91	11/07/91	18.2		11/21/91	WHP
SCH1715200B00L	WWC*272	11/07/91	11/07/91	22.4		11/21/91	WHP
SCH1715200C00L	WWC*273	11/07/91	11/07/91	27.0		11/21/91	WHP
CH1719100A0LD	WWC*274	11/07/91	11/07/91	20.4		11/21/91	WHP
CH1719100B0LD	WWC*275	11/07/91	11/07/91	21.0		11/21/91	WHP
SCH1719100C0LD	WWC*276	11/07/91	11/07/91	18.8		11/21/91	WHP
CH1714100A0LD	WWC*277	11/07/91	11/07/91	20.7		11/21/91	WHP
CH1714100B0LD	WWC*278	11/07/91	11/07/91	18.0		11/21/91	WHP
CH1714100C0LD	WWC*279	11/07/91	11/07/91	18.6		11/21/91	WHP
SOL1719100A00L	WWC*280	11/11/91	11/11/91	23.3		11/21/91	WHP
OL1719100B00L	WWC*281	11/11/91	11/11/91	18.9		11/20/91	WHP
OL1719100C00L	WWC*282	11/11/91	11/11/91	18.5		11/20/91	WHP
OL1719100A0LD	WWC*283	11/11/91	11/11/91	21.5		11/20/91	WHP
SOL1719100B0LD	WWC*284	11/11/91	11/11/91	20.1		11/20/91	WHP
OL1719100C0LD	WWC*285	11/11/91	11/11/91	18.1		11/20/91	WHP
OL1719200A00L	WWC*286	11/11/91	11/11/91	20.5		11/20/91	WHP
OL1719200B00L	WWC*287	11/11/91	11/11/91	20.0		11/20/91	WHP
SOL1719200C00L	WWC*288	11/11/91	11/11/91	20.3		11/20/91	WHP

Environmental Science & Engineering, Inc

St Louis Chemistry Laboratory

11665 Lilburn Park Road
St Louis Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
OL1719200C00L	WWC*288	11/11/91	11/11/91	20.3		11/20/91	WHP
OL1719200A0LM	WWC*289	11/11/91	11/11/91	21.0		11/20/91	WHP
SOL1719200A0LX	WWC*290	11/11/91	11/11/91	20.3		11/20/91	WHP
OL1719200B0LM	WWC*291	11/11/91	11/11/91	20.0		11/20/91	WHP
OL1719200B0LX	WWC*292	11/11/91	11/11/91	20.1		11/20/91	WHP
OL1719200C0LM	WWC*293	11/11/91	11/11/91	20.1		11/20/91	WHP
SOL1719200C0LX	WWC*294	11/11/91	11/11/91	20.9		11/20/91	WHP
OL1721100A00L	WWC*295	11/11/91	11/11/91	21.5		11/20/91	WHP
OL1721100B00L	WWC*296	11/11/91	11/11/91	19.2		11/20/91	WHP
OL1721100C00L	WWC*297	11/11/91	11/11/91	15.8		11/20/91	WHP
SOL1721200A00L	WWC*298	11/11/91	11/11/91	24.7		11/20/91	WHP
OL1721200B00L	WWC*299	11/11/91	11/11/91	26.0		11/20/91	WHP
OL1721200C00L	WWC*300	11/11/91	11/11/91	25.1		11/20/91	WHP
OL1720100A00L	WWC*301	11/11/91	11/11/91	20.6		11/20/91	WHP
SOL1720100B00L	WWC*302	11/11/91	11/11/91	18.8		11/20/91	WHP
OL1720100C00L	WWC*303	11/11/91	11/11/91	17.8		11/20/91	WHP
OL1720200A00L	WWC*304	11/11/91	11/11/91	20.5		11/20/91	WHP
OL1720200B00L	WWC*305	11/11/91	11/11/91	21.3		11/20/91	WHP
SOL1720200C00L	WWC*306	11/11/91	11/11/91	20.0		11/20/91	WHP
SP1732100A00L	WWC*307	11/11/91	11/11/91	22.4		11/20/91	WHP
SP1732100B00L	WWC*308	11/11/91	11/11/91	21.4		11/20/91	WHP
SP1732100C00L	WWC*309	11/11/91	11/11/91	21.4		11/20/91	WHP
SSP1732200A00L	WWC*310	11/11/91	11/11/91	28.1		11/20/91	WHP
SP1732200B00L	WWC*311	11/11/91	11/11/91	24.4		11/20/91	WHP
SP1732200C00L	WWC*312	11/11/91	11/11/91	21.9		11/20/91	WHP
SSP1732200A0LM	WWC*313	11/11/91	11/11/91	24.7		11/20/91	WHP
SP1732200A0LX	WWC*314	11/11/91	11/11/91	28.2		11/20/91	WHP
SP1732200B0LM	WWC*315	11/11/91	11/11/91	23.7		11/20/91	WHP
SP1732200B0LX	WWC*316	11/11/91	11/11/91	23.8		11/20/91	WHP
SSP1732200C0LM	WWC*317	11/11/91	11/11/91	23.2		11/20/91	WHP
SP1732200C0LX	WWC*318	11/11/91	11/11/91	23.3		11/20/91	WHP
SP1754100A00L	WWC*319	11/11/91	11/11/91	25.5		11/20/91	WHP
SP1754100B00L	WWC*320	11/11/91	11/11/91	26.2		11/20/91	WHP
SSP1754100C00L	WWC*321	11/11/91	11/11/91	25.7		11/22/91	WHP
SP1754200A00L	WWC*322	11/11/91	11/11/91	25.3		11/22/91	WHP
SP1754200B00L	WWC*323	11/11/91	11/11/91	22.6		11/22/91	WHP
SP1754200C00L	WWC*324	11/11/91	11/11/91	22.1		11/22/91	WHP
SSP1754200A0LD	WWC*325	11/11/91	11/11/91	25.2		11/22/91	WHP
SP1754200B0LD	WWC*326	11/11/91	11/11/91	23.4		11/22/91	WHP
SP1754200C0LD	WWC*327	11/11/91	11/11/91	22.1		11/22/91	WHP
SP1744100A00L	WWC*328	11/11/91	11/11/91	18.9		11/22/91	WHP
SSP1744100B00L	WWC*329	11/11/91	11/11/91	19.5		11/22/91	WHP

Environmental Science & Engineering, Inc

St Louis Chemistry Laboratory

Analytical Chemistry Res

1005 Lilburn Park Road
St Louis Missouri 63146-3535

Phone (314) 567-4800
Fax (314) 567-5030

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SP1744100B00L	WWC*329	11/11/91	11/11/91	19.5		11/22/91	WHP
SP1744100C00L	WWC*330	11/11/91	11/11/91	18.6		11/22/91	WHP
SSP1744100A0LD	WWC*331	11/11/91	11/11/91	19.3		11/22/91	WHP
SP1744100B0LD	WWC*332	11/11/91	11/11/91	18.6		11/22/91	WHP
SP1744100C0LD	WWC*333	11/11/91	11/11/91	19.6		11/22/91	WHP
SP1744200A00L	WWC*334	11/11/91	11/11/91	23.4		11/22/91	WHP
SSP1744200B00L	WWC*335	11/11/91	11/11/91	22.2		11/22/91	WHP
SP1744200C00L	WWC*336	11/11/91	11/11/91	21.9		11/22/91	WHP
MP1607100A00L	WWC*337	11/11/91	11/11/91	16.1		11/22/91	WHP
SMP1607100B00L	WWC*338	11/11/91	11/11/91	13.6		11/22/91	WHP
SMP1607100C00L	WWC*339	11/11/91	11/11/91	12.9		11/22/91	WHP
MP1607200A00L	WWC*340	11/11/91	11/11/91	20.7		11/22/91	WHP
MP1607200B00L	WWC*341	11/11/91	11/11/91	17.8		11/22/91	WHP
SMP1607200C00L	WWC*342	11/11/91	11/11/91	17.8		11/22/91	WHP
SCL1642100A00L	WWC*343	11/11/91	11/11/91	21.6		11/22/91	WHP
CL1642100B00L	WWC*344	11/11/91	11/11/91	21.1		11/22/91	WHP
CL1642100C00L	WWC*345	11/11/91	11/11/91	21.9		11/22/91	WHP
SCL1642200A00L	WWC*346	11/11/91	11/11/91	24.5		11/22/91	WHP
SCL1642200B00L	WWC*347	11/11/91	11/11/91	24.7		11/22/91	WHP
CL1642200C00L	WWC*348	11/11/91	11/11/91	23.3		11/22/91	WHP
DE1624100A00L	WWC*349	11/11/91	11/11/91	21.3		11/22/91	WHP
SDE1624100B00L	WWC*350	11/11/91	11/11/91	21.1		11/22/91	WHP
SDE1624100C00L	WWC*351	11/11/91	11/11/91	20.6		11/22/91	WHP
DE1624200A00L	WWC*352	11/11/91	11/11/91	25.2		11/22/91	WHP
DE1624200B00L	WWC*353	11/11/91	11/11/91	23.5		11/22/91	WHP
SDE1624200C00L	WWC*354	11/11/91	11/11/91	19.2		11/22/91	WHP
CH1747200A00L	WWC*355	11/11/91	11/11/91	17.6		11/22/91	WHP
CH1747200B00L	WWC*356	11/11/91	11/11/91	17.5		11/22/91	WHP
CH1747200C00L	WWC*357	11/11/91	11/11/91	18.6		11/22/91	WHP
SCH1747100A00L	WWC*358	11/11/91	11/11/91	20.6		11/22/91	WHP
CH1747100B00L	WWC*359	11/11/91	11/11/91	18.8		11/22/91	WHP
CH1747100C00L	WWC*360	11/11/91	11/11/91	17.1		11/22/91	WHP
CH1743100A00L	WWC*361	11/11/91	11/11/91	22.2		11/26/91	WHP
SCH1743100B00L	WWC*362	11/11/91	11/11/91	19.9		11/26/91	WHP
CH1743100C00L	WWC*363	11/11/91	11/11/91	18.7		11/26/91	WHP
CH1743200A00L	WWC*364	11/11/91	11/11/91	23.1		11/26/91	WHP
SCH1743200B00L	WWC*365	11/11/91	11/11/91	20.6		11/26/91	WHP
SCH1743200C00L	WWC*366	11/11/91	11/11/91	19.2		11/26/91	WHP
CH1750100A00L	WWC*367	11/11/91	11/11/91	21.5		11/26/91	WHP
CH1750100A0LD	WWC*368	11/11/91	11/11/91	20.6		11/26/91	WHP
SCH1750100B00L	WWC*369	11/11/91	11/11/91	17.9		11/26/91	WHP
SCH1750100B0LD	WWC*370	11/11/91	11/11/91	18.6		11/26/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11605 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
CH1750100B0LD	WWC*370	11/11/91	11/11/91	18.6		11/26/91	WHP
CH1750100C00L	WWC*371	11/11/91	11/11/91	17.5		11/26/91	WHP
SCH1750100C0LD	WWC*372	11/11/91	11/11/91	17.7		11/26/91	WHP
CH1750200A00L	WWC*373	11/11/91	11/11/91	22.8		11/26/91	WHP
CH1750200A0LM	WWC*374	11/11/91	11/11/91	22.7		11/26/91	WHP
SCH1750200A0LX	WWC*375	11/11/91	11/11/91	22.6		11/26/91	WHP
SCH1750200B00L	WWC*376	11/11/91	11/11/91	21.3		11/26/91	WHP
CH1750200B0LM	WWC*377	11/11/91	11/11/91	22.1		11/26/91	WHP
CH1750200B0LX	WWC*378	11/11/91	11/11/91	21.9		11/26/91	WHP
SCH1750200C0LM	WWC*379	11/11/91	11/11/91	23.5		11/26/91	WHP
SCH1750200C0LX	WWC*380	11/11/91	11/11/91	21.9		11/26/91	WHP
CH1750200C00L	WWC*381	11/11/91	11/11/91	23.0		11/26/91	WHP
CH1723100A00L	WWC*382	11/11/91	11/11/91	19.5		11/26/91	WHP
SCH1723100A0LD	WWC*383	11/11/91	11/11/91	19.2		11/26/91	WHP
SCH1723100B00L	WWC*384	11/11/91	11/11/91	18.1		11/26/91	WHP
CH1723100B0LD	WWC*385	11/11/91	11/11/91	17.8		11/26/91	WHP
CH1723100C00L	WWC*386	11/11/91	11/11/91	20.1		11/26/91	WHP
SCH1723100C0LD	WWC*387	11/11/91	11/11/91	17.9		11/26/91	WHP
SCH1723200A00L	WWC*388	11/11/91	11/11/91	20.9		11/26/91	WHP
CH1723200B00L	WWC*389	11/11/91	11/11/91	22.2		11/26/91	WHP
CH1723200C00L	WWC*390	11/11/91	11/11/91	21.1		11/26/91	WHP
SNI0821100A00L	WWC*391	11/11/91	11/11/91	19.1		11/26/91	WHP
SNI0821100A0LD	WWC*392	11/11/91	11/11/91	19.3		11/26/91	WHP
SNI0821100B00L	WWC*393	11/11/91	11/11/91	16.8		11/26/91	WHP
SNI0821100B0LD	WWC*394	11/11/91	11/11/91	16.7		11/26/91	WHP
SNI0821100C00L	WWC*395	11/11/91	11/11/91	15.0		11/26/91	WHP
SNI0821100C0LD	WWC*396	11/11/91	11/11/91	14.5		11/26/91	WHP
SNI0821200A00L	WWC*397	11/11/91	11/11/91	20.0		11/26/91	WHP
SNI0821200A0LM	WWC*398	11/11/91	11/11/91	20.6		11/26/91	WHP
SNI0821200A0LX	WWC*399	11/11/91	11/11/91	20.4		11/26/91	WHP
SNI0821200B00L	WWC*400	11/11/91	11/11/91	17.3		11/26/91	WHP
SNI0821200B0LM	WWC*401	11/11/91	11/11/91	18.3		11/22/91	WHP
SNI0821200B0LX	WWC*402	11/11/91	11/11/91	18.0		11/22/91	WHP
SNI0821200C00L	WWC*403	11/11/91	11/11/91	16.4		11/22/91	WHP
SNI0821200C0LM	WWC*404	11/11/91	11/11/91	16.4		11/22/91	WHP
SNI0821200C0LX	WWC*405	11/11/91	11/11/91	16.2		11/22/91	WHP
SNI0834100A00L	WWC*406	11/11/91	11/11/91	22.7		11/22/91	WHP
SNI0834100B00L	WWC*407	11/11/91	11/11/91	18.8		11/22/91	WHP
SNI0834100C00L	WWC*408	11/11/91	11/11/91	18.8		11/22/91	WHP
SNI0834200A00L	WWC*409	11/11/91	11/11/91	22.0		11/22/91	WHP
SNI0834200B00L	WWC*410	11/11/91	11/11/91	19.6		11/22/91	WHP
SNI0834200C00L	WWC*411	11/11/91	11/11/91	19.0		11/22/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
NI0834200C00L	WWC*411	11/11/91	11/11/91	19.0		11/22/91	WHP
SWA1717100A00L	WWC*412	11/11/91	11/11/91	21.1		11/22/91	WHP
SWA1717100B00L	WWC*413	11/11/91	11/11/91	19.3		11/22/91	WHP
SWA1717100C00L	WWC*414	11/11/91	11/11/91	16.5		11/22/91	WHP
WA1717200A00L	WWC*415	11/11/91	11/11/91	23.9		11/22/91	WHP
SWA1717200B00L	WWC*416	11/11/91	11/11/91	20.9		11/22/91	WHP
SWA1717200C00L	WWC*417	11/11/91	11/11/91	20.8		11/22/91	WHP
SWA1721100A00L	WWC*418	11/11/91	11/11/91	20.6		11/22/91	WHP
WA1721100B00L	WWC*419	11/11/91	11/11/91	19.3		11/22/91	WHP
SWA1721100C00L	WWC*420	11/11/91	11/11/91	14.4		11/22/91	WHP
SWA1721200A00L	WWC*421	11/11/91	11/11/91	27.1		11/22/91	WHP
WA1721200B00L	WWC*422	11/11/91	11/11/91	24.1		11/22/91	WHP
WA1721200C00L	WWC*423	11/11/91	11/11/91	21.7		11/22/91	WHP
SBE1928100A00L	WWC*424	11/12/91	11/12/91	18.8		11/22/91	WHP
SBE1928100B00L	WWC*425	11/12/91	11/12/91	13.3		11/22/91	WHP
BE1928100C00L	WWC*426	11/12/91	11/12/91	9.4		11/22/91	WHP
BE1928200A00L	WWC*427	11/12/91	11/12/91	15.1		11/22/91	WHP
SBE1928200B00L	WWC*428	11/12/91	11/12/91	12.4		11/22/91	WHP
SBE1928200C00L	WWC*429	11/12/91	11/12/91	8.2		11/22/91	WHP
BE1930100A00L	WWC*430	11/12/91	11/12/91	18.8		11/22/91	WHP
BE1930100B00L	WWC*431	11/12/91	11/12/91	16.0		11/22/91	WHP
SBE1930100C00L	WWC*432	11/12/91	11/12/91	13.2		11/22/91	WHP
SBE1930200A00L	WWC*433	11/12/91	11/12/91	18.6		11/22/91	WHP
BE1930200B00L	WWC*434	11/12/91	11/12/91	18.3		11/22/91	WHP
BE1930200C00L	WWC*435	11/12/91	11/12/91	11.3		11/22/91	WHP
SBE1943100A00L	WWC*436	11/12/91	11/12/91	21.6		11/22/91	WHP
SBE1943100B00L	WWC*437	11/12/91	11/12/91	17.6		11/22/91	WHP
SBE1943100C00L	WWC*438	11/12/91	11/12/91	14.2		11/22/91	WHP
SBE1943200A00L	WWC*439	11/12/91	11/12/91	19.5		11/22/91	WHP
SBE1943200B00L	WWC*440	11/12/91	11/12/91	18.9		11/22/91	WHP
SBE1943200C00L	WWC*441	11/12/91	11/12/91	15.6		11/26/91	WHP
SBE1939100A00L	WWC*442	11/12/91	11/12/91	16.8		11/26/91	WHP
SBE1939100B00L	WWC*443	11/12/91	11/12/91	15.6		11/26/91	WHP
SBE1939100C00L	WWC*444	11/12/91	11/12/91	11.7		11/26/91	WHP
SBE1939200A00L	WWC*445	11/12/91	11/12/91	18.8		11/26/91	WHP
SBE1939200B00L	WWC*446	11/12/91	11/12/91	17.8		11/26/91	WHP
SBE1939200C00L	WWC*447	11/12/91	11/12/91	19.6		11/26/91	WHP
SBE1937100A00L	WWC*448	11/12/91	11/12/91	18.5		11/26/91	WHP
SBE1937100B00L	WWC*449	11/12/91	11/12/91	17.3		11/26/91	WHP
SBE1937100C00L	WWC*450	11/12/91	11/12/91	15.6		11/26/91	WHP
SBE1937200A00L	WWC*451	11/12/91	11/12/91	18.3		11/26/91	WHP
SBE1937200B00L	WWC*452	11/12/91	11/12/91	16.3		11/26/91	WHP

Environmental Science & Engineering Inc

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

SAMPLE MATRIX: SOIL

PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
BE1937200B00L	WWC#452	11/12/91	11/12/91	16.3		11/26/91	WHP
BE1937200C00L	WWC#453	11/12/91	11/12/91	12.1		11/26/91	WHP
SAD1942100A00L	WWC#454	11/12/91	11/12/91	15.8		11/26/91	WHP
SAD1942100B00L	WWC#455	11/12/91	11/12/91	14.9		11/26/91	WHP
SAD1942100C00L	WWC#456	11/12/91	11/12/91	13.3		11/26/91	WHP
SAD1942200A00L	WWC#457	11/12/91	11/12/91	18.4		11/26/91	WHP
SAD1942200B00L	WWC#458	11/12/91	11/12/91	15.4		11/26/91	WHP
SAD1942200C00L	WWC#459	11/12/91	11/12/91	12.5		11/26/91	WHP
SAD1938100A00L	WWC#460	11/12/91	11/12/91	21.6		11/26/91	WHP
SAD1938100B00L	WWC#461	11/12/91	11/12/91	19.0		11/26/91	WHP
SAD1938100C00L	WWC#462	11/12/91	11/12/91	13.9		11/26/91	WHP
SAD1938200A00L	WWC#463	11/12/91	11/12/91	19.8		11/26/91	WHP
SAD1938200B00L	WWC#464	11/12/91	11/12/91	15.6		11/26/91	WHP
SAD1938200C00L	WWC#465	11/12/91	11/12/91	14.6		11/26/91	WHP
SAD1930100A00L	WWC#466	11/12/91	11/12/91	16.2		11/26/91	WHP
SAD1930100B00L	WWC#467	11/12/91	11/12/91	12.8		11/26/91	WHP
SAD1930100C00L	WWC#468	11/12/91	11/12/91	13.2		11/26/91	WHP
SAD1930200A00L	WWC#469	11/12/91	11/12/91	23.2		11/26/91	WHP
SAD1930200B00L	WWC#470	11/12/91	11/12/91	17.8		11/26/91	WHP
SAD1930200C00L	WWC#471	11/12/91	11/12/91	16.4		11/26/91	WHP
SCL1704100A00L	WWC#472	11/12/91	11/12/91	21.1		11/26/91	WHP
SCL1704100B00L	WWC#473	11/12/91	11/12/91	21.0		11/26/91	WHP
SCL1704100C00L	WWC#474	11/12/91	11/12/91	22.2		11/26/91	WHP
SCL1704200A00L	WWC#475	11/12/91	11/12/91	19.7		11/26/91	WHP
SCL1704200B00L	WWC#476	11/12/91	11/12/91	18.0		11/26/91	WHP
SCL1704200C00L	WWC#477	11/12/91	11/12/91	18.9		11/26/91	WHP
SCL1708100A00L	WWC#478	11/12/91	11/12/91	20.0		11/26/91	WHP
SCL1708100B00L	WWC#479	11/12/91	11/12/91	19.3		11/26/91	WHP
SCL1708100C00L	WWC#480	11/12/91	11/12/91	19.9		11/26/91	WHP
SCL1708200A00L	WWC#481	11/12/91	11/12/91	26.9		11/27/91	WHP
SCL1708200B00L	WWC#482	11/12/91	11/12/91	22.7		11/27/91	WHP
SCL1708200C00L	WWC#483	11/12/91	11/12/91	22.7		11/27/91	WHP
SCL1710100A00L	WWC#484	11/12/91	11/12/91	17.5		11/27/91	WHP
SCL1710100B00L	WWC#485	11/12/91	11/12/91	22.1		11/27/91	WHP
SCL1710100C00L	WWC#486	11/12/91	11/12/91	19.1		11/27/91	WHP
SCL1710200A00L	WWC#487	11/12/91	11/12/91	22.7		11/27/91	WHP
SCL1710200B00L	WWC#488	11/12/91	11/12/91	18.4		11/27/91	WHP
SCL1710200C00L	WWC#489	11/12/91	11/12/91	19.9		11/27/91	WHP
SDE1728100A00L	WWC#490	11/12/91	11/12/91	22.1		11/27/91	WHP
SDE1728100B00L	WWC#491	11/12/91	11/12/91	20.9		11/27/91	WHP
SDE1728100C00L	WWC#492	11/12/91	11/12/91	18.6		11/27/91	WHP
SDE1728200A00L	WWC#493	11/12/91	11/12/91	23.4		11/27/91	WHP

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 591203101QC
NO. OF SAMPLES/
MATRIX 159 / soil
Analysis date: 11/26/91

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC* 480 % recovery outside control limits; lab indicated sample inhomogeneity. Corresponding sample result qualified as estimated (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 591203IC100
NO. OF SAMPLES/
MATRIX 140 /soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

Analysis date: 11/27/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC# 300 RPD outside control limits: lab indicated sample inhomogeneity; corresponding sample result qualified as estimated (J).

COMMENTS:

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1728200A00L	WWC*493	11/12/91	11/12/91	23.4		11/27/91	WHP
SDE1728200B00L	WWC*494	11/12/91	11/12/91	23.0		11/27/91	WHP
SDE1728200C00L	WWC*495	11/12/91	11/12/91	16.5		11/27/91	WHP
SDE1717100A00L	WWC*496	11/12/91	11/12/91	29.1		11/27/91	WHP
SDE1717100B00L	WWC*497	11/12/91	11/12/91	23.8		11/27/91	WHP
SDE1717100C00L	WWC*498	11/12/91	11/12/91	21.3		11/27/91	WHP
SDE1717200A00L	WWC*499	11/12/91	11/12/91	26.8		11/27/91	WHP
SDE1717200B00L	WWC*500	11/12/91	11/12/91	25.1		11/27/91	WHP
SDE1717200C00L	WWC*501	11/12/91	11/12/91	23.2		11/27/91	WHP
SDE1704100A00L	WWC*502	11/12/91	11/12/91	22.9		11/27/91	WHP
SDE1704100B00L	WWC*503	11/12/91	11/12/91	21.9		11/27/91	WHP
SDE1704100C00L	WWC*504	11/12/91	11/12/91	20.9		11/27/91	WHP
SDE1704200A00L	WWC*505	11/12/91	11/12/91	20.4		11/27/91	WHP
SDE1704200B00L	WWC*506	11/12/91	11/12/91	18.7		11/27/91	WHP
SDE1704200C00L	WWC*507	11/12/91	11/12/91	18.7		11/27/91	WHP
SDE1643100A00L	WWC*508	11/12/91	11/12/91	21.8		11/27/91	WHP
SDE1643100B00L	WWC*509	11/12/91	11/12/91	19.1		11/27/91	WHP
SDE1643100C00L	WWC*510	11/12/91	11/12/91	19.5		11/27/91	WHP
SDE1643200A00L	WWC*511	11/12/91	11/12/91	21.4		11/27/91	WHP
SDE1643200B00L	WWC*512	11/12/91	11/12/91	20.7		11/27/91	WHP
SDE1643200C00L	WWC*513	11/12/91	11/12/91	19.6		11/27/91	WHP
SDE1644100A00L	WWC*514	11/12/91	11/12/91	22.7		11/27/91	WHP
SDE1644100B00L	WWC*515	11/12/91	11/12/91	21.3		11/27/91	WHP
SDE1644100C00L	WWC*516	11/12/91	11/12/91	19.0		11/27/91	WHP
SDE1644200A00L	WWC*517	11/12/91	11/12/91	20.1		11/27/91	WHP
SDE1644200B00L	WWC*518	11/12/91	11/12/91	18.6		11/27/91	WHP
SDE1644200C00L	WWC*519	11/12/91	11/12/91	17.7		11/27/91	WHP
SDE1707100A00L	WWC*520	11/12/91	11/12/91	23.9		11/27/91	WHP
SDE1707100B00L	WWC*521	11/12/91	11/12/91	23.1		11/29/91	WHP
SDE1707100C00L	WWC*522	11/12/91	11/12/91	20.5		11/29/91	WHP
SDE1707200A00L	WWC*523	11/12/91	11/12/91	24.7		11/29/91	WHP
SDE1707200B00L	WWC*524	11/12/91	11/12/91	21.6		11/29/91	WHP
SDE1707200C00L	WWC*525	11/12/91	11/12/91	23.4		11/29/91	WHP
SDE1703100A00L	WWC*526	11/12/91	11/12/91	22.5		11/29/91	WHP
SDE1703100B00L	WWC*527	11/12/91	11/12/91	20.4		11/29/91	WHP
SDE1703100C00L	WWC*528	11/12/91	11/12/91	19.5		11/29/91	WHP
SDE1703200A00L	WWC*529	11/12/91	11/12/91	24.8		11/29/91	WHP
SDE1703200B00L	WWC*530	11/12/91	11/12/91	21.3		11/29/91	WHP
SDE1703200C00L	WWC*531	11/12/91	11/12/91	22.2		11/29/91	WHP
SED1704100A00L	WWC*532	11/13/91	11/13/91	21.9		11/29/91	WHP
SED1704100B00L	WWC*533	11/13/91	11/13/91	17.7		11/29/91	WHP
SED1704100C00L	WWC*534	11/13/91	11/13/91	17.5		11/29/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

SAMPLE MATRIX: SOIL

PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
ED1704100C00L	WWC*534	11/13/91	11/13/91	17.5		11/29/91	WHP
ED1704200A00L	WWC*535	11/13/91	11/13/91	25.8		11/29/91	WHP
SED1704200B00L	WWC*536	11/13/91	11/13/91	23.2		11/29/91	WHP
SED1704200C00L	WWC*537	11/13/91	11/13/91	22.7		11/29/91	WHP
ED1715100A00L	WWC*538	11/13/91	11/13/91	20.2		11/29/91	WHP
ED1715100B00L	WWC*539	11/13/91	11/13/91	20.0		11/29/91	WHP
SED1715100C00L	WWC*540	11/13/91	11/13/91	18.5		11/29/91	WHP
ED1715200A00L	WWC*541	11/13/91	11/13/91	25.0		11/29/91	WHP
ED1715200B00L	WWC*542	11/13/91	11/13/91	23.3		11/29/91	WHP
ED1715200C00L	WWC*543	11/13/91	11/13/91	22.6		11/29/91	WHP
SED1709100A00L	WWC*544	11/13/91	11/13/91	23.8		11/29/91	WHP
ED1709100B00L	WWC*545	11/13/91	11/13/91	19.8		11/29/91	WHP
ED1709100C00L	WWC*546	11/13/91	11/13/91	19.6		11/29/91	WHP
ED1709200A00L	WWC*547	11/13/91	11/13/91	25.0		11/29/91	WHP
SED1709200B00L	WWC*548	11/13/91	11/13/91	20.5		11/29/91	WHP
ED1709200C00L	WWC*549	11/13/91	11/13/91	20.2		11/29/91	WHP
DE1747100A00L	WWC*550	11/13/91	11/13/91	24.9		11/29/91	WHP
DE1747100B00L	WWC*551	11/13/91	11/13/91	25.3		11/29/91	WHP
SDE1747100C00L	WWC*552	11/13/91	11/13/91	27.9		11/29/91	WHP
CL2215100A00L	WWC*553	11/13/91	11/13/91	23.9		11/29/91	WHP
CL2215100B00L	WWC*554	11/13/91	11/13/91	20.9		11/29/91	WHP
SCL2215100C00L	WWC*555	11/13/91	11/13/91	20.5		11/29/91	WHP
SCL2215200A00L	WWC*556	11/13/91	11/13/91	17.4		11/29/91	WHP
CL2215200B00L	WWC*557	11/13/91	11/13/91	19.9		11/29/91	WHP
CL2215200C00L	WWC*558	11/13/91	11/13/91	20.4		11/29/91	WHP
SBE2248100A00L	WWC*559	11/13/91	11/13/91	20.9		11/29/91	WHP
SBE2248100B00L	WWC*560	11/13/91	11/13/91	20.3		11/29/91	WHP
BE2248100C00L	WWC*561	11/13/91	11/13/91	18.2		12/03/91	WHP
BE2252100A00L	WWC*562	11/13/91	11/13/91	22.1		12/03/91	WHP
SBE2252100B00L	WWC*563	11/13/91	11/13/91	20.1		12/03/91	WHP
SBE2252100C00L	WWC*564	11/13/91	11/13/91	17.5		12/03/91	WHP
BE2254100A00L	WWC*565	11/13/91	11/13/91	26.2		12/03/91	WHP
BE2254100B00L	WWC*566	11/13/91	11/13/91	23.4		12/03/91	WHP
SBE2254100C00L	WWC*567	11/13/91	11/13/91	21.4		12/03/91	WHP
BE2254200A00L	WWC*568	11/13/91	11/13/91	25.1		12/03/91	WHP
BE2254200B00L	WWC*569	11/13/91	11/13/91	22.8		12/03/91	WHP
BE2254200C00L	WWC*570	11/13/91	11/13/91	19.9		12/03/91	WHP
SBE2258100A00L	WWC*571	11/13/91	11/13/91	20.1		12/03/91	WHP
BE2258100B00L	WWC*572	11/13/91	11/13/91	18.2		12/03/91	WHP
BE2258100C00L	WWC*573	11/13/91	11/13/91	14.3		12/03/91	WHP
BE2258200A00L	WWC*574	11/13/91	11/13/91	17.8		12/03/91	WHP
SBE2258200B00L	WWC*575	11/13/91	11/13/91	17.7		12/03/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
BE2258200B00L	WWC*575	11/13/91	11/13/91	17.7		12/03/91	WHP
BE2258200C00L	WWC*576	11/13/91	11/13/91	16.3		12/03/91	WHP
SCL2157100A00L	WWC*577	11/13/91	11/13/91	23.6		12/03/91	WHP
SCL2157100B00L	WWC*578	11/13/91	11/13/91	20.9		12/03/91	WHP
CL2157100C00L	WWC*579	11/13/91	11/13/91	16.9		12/03/91	WHP
CL2157200A00L	WWC*580	11/13/91	11/13/91	19.2		12/03/91	WHP
SCL2157200B00L	WWC*581	11/13/91	11/13/91	39.5		12/03/91	WHP
CL2157200C00L	WWC*582	11/13/91	11/13/91	17.0		12/03/91	WHP
BE2123100A00L	WWC*583	11/13/91	11/13/91	19.5		12/03/91	WHP
BE2123100B00L	WWC*584	11/13/91	11/13/91	18.6		12/03/91	WHP
SBE2123100C00L	WWC*585	11/13/91	11/13/91	15.0		12/03/91	WHP
BE2123200A00L	WWC*586	11/13/91	11/13/91	22.3		12/03/91	WHP
BE2123200B00L	WWC*587	11/13/91	11/13/91	20.4		12/03/91	WHP
BE2123200C00L	WWC*588	11/13/91	11/13/91	19.3		12/03/91	WHP
SAD2034200C00L	WWC*589	11/13/91	11/13/91	13.7		12/03/91	WHP
CL1938100A00L	WWC*590	11/13/91	11/13/91	12.5		12/03/91	WHP
CL1938100B00L	WWC*591	11/13/91	11/13/91	13.1		12/03/91	WHP
CL1938100C00L	WWC*592	11/13/91	11/13/91	15.5		12/03/91	WHP
SCL1938200A00L	WWC*593	11/13/91	11/13/91	7.9		12/03/91	WHP
CL1938200B00L	WWC*594	11/13/91	11/13/91	9.7		12/03/91	WHP
CL1938200C00L	WWC*595	11/13/91	11/13/91	10.8		12/03/91	WHP
SCL1934100A00L	WWC*596	11/13/91	11/13/91	11.6		12/03/91	WHP
SCL1934100B00L	WWC*597	11/13/91	11/13/91	13.9		12/03/91	WHP
CL1934100C00L	WWC*598	11/13/91	11/13/91	17.1		12/03/91	WHP
CL1934200A00L	WWC*599	11/13/91	11/13/91	12.1		12/03/91	WHP
SCL1934200B00L	WWC*600	11/13/91	11/13/91	15.3		12/03/91	WHP
SCL1934200C00L	WWC*601	11/13/91	11/13/91	16.9		12/03/91	WHP
CL1930100A00L	WWC*602	11/13/91	11/13/91	22.5		12/03/91	WHP
CL1930100B00L	WWC*603	11/13/91	11/13/91	18.2		12/03/91	WHP
SCL1930100C00L	WWC*604	11/13/91	11/13/91	15.5		12/03/91	WHP
CL1930200A00L	WWC*605	11/13/91	11/13/91	17.9		12/03/91	WHP
CL1930200B00L	WWC*606	11/13/91	11/13/91	16.2		12/03/91	WHP
CL1930200C00L	WWC*607	11/13/91	11/13/91	15.3		12/03/91	WHP
SCL1919100A00L	WWC*608	11/13/91	11/13/91	24.4		12/03/91	WHP
CL1919100B00L	WWC*609	11/13/91	11/13/91	19.7		12/03/91	WHP
CL1919100C00L	WWC*610	11/13/91	11/13/91	16.3		12/03/91	WHP
CL1919200A00L	WWC*611	11/13/91	11/13/91	23.7		12/03/91	WHP
SBE1911100A00L	WWC*612	11/13/91	11/13/91	23.8		12/03/91	WHP
BE1911100B00L	WWC*613	11/13/91	11/13/91	17.8		12/03/91	WHP
BE1911100C00L	WWC*614	11/13/91	11/13/91	15.5		12/03/91	WHP
BE1911200A00L	WWC*615	11/13/91	11/13/91	11.7		12/03/91	WHP
SBE1911200B00L	WWC*616	11/13/91	11/13/91	12.2		12/03/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11605 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE1911200B00L	WWC*616	11/13/91	11/13/91	12.2		12/03/91	WHP
SBE1911200C00L	WWC*617	11/13/91	11/13/91	16.1		12/03/91	WHP
SBE1918100A00L	WWC*618	11/13/91	11/13/91	19.5		12/03/91	WHP
SBE1918100B00L	WWC*619	11/13/91	11/13/91	17.0		12/03/91	WHP
SBE1918100C00L	WWC*620	11/13/91	11/13/91	15.4		12/03/91	WHP
SBE1918200A00L	WWC*621	11/13/91	11/13/91	21.3	12/03/91	12/04/91	KAG
SBE1918200B00L	WWC*622	11/13/91	11/13/91	18.9	12/03/91	12/04/91	KAG
SBE1918200C00L	WWC*623	11/13/91	11/13/91	15.0	12/03/91	12/04/91	KAG
SBE1927100A00L	WWC*624	11/13/91	11/13/91	21.7	12/03/91	12/04/91	KAG
SBE1927100B00L	WWC*625	11/13/91	11/13/91	17.4	12/03/91	12/04/91	KAG
SBE1927100C00L	WWC*626	11/13/91	11/13/91	13.2	12/03/91	12/04/91	KAG
SBE1927200A00L	WWC*627	11/13/91	11/13/91	29.1	12/03/91	12/04/91	KAG
SBE1927200B00L	WWC*628	11/13/91	11/13/91	24.4	12/03/91	12/04/91	KAG
SBE1927200C00L	WWC*629	11/13/91	11/13/91	18.9	12/03/91	12/04/91	KAG
SAD2034100A00L	WWC*630	11/13/91	11/13/91	20.1	12/03/91	12/04/91	KAG
SAD2034100B00L	WWC*631	11/13/91	11/13/91	18.7	12/03/91	12/04/91	KAG
SAD2034100C00L	WWC*632	11/13/91	11/13/91	16.7	12/03/91	12/04/91	KAG
SAD2034200A00L	WWC*633	11/13/91	11/13/91	19.3	12/03/91	12/04/91	KAG
SAD2034200B00L	WWC*634	11/13/91	11/13/91	16.4	12/03/91	12/04/91	KAG
SCL1919200B00L	WWC*635	11/13/91	11/13/91	19.6	12/03/91	12/04/91	KAG
SCL1919200C00L	WWC*636	11/13/91	11/13/91	15.0	12/03/91	12/04/91	KAG
SNI1255100A00L	WWC*637	11/13/91	11/13/91	19.9	12/03/91	12/04/91	KAG
SNI1255100B00L	WWC*638	11/13/91	11/13/91	15.7	12/03/91	12/04/91	KAG
SNI1255100C00L	WWC*639	11/13/91	11/13/91	13.3	12/03/91	12/04/91	KAG
SNI1255200A00L	WWC*640	11/13/91	11/13/91	20.0	12/03/91	12/04/91	KAG
SNI1255200B00L	WWC*641	11/13/91	11/13/91	16.0	12/03/91	12/04/91	KAG
SNI1255200C00L	WWC*642	11/13/91	11/13/91	16.9	12/03/91	12/04/91	KAG
SBE2228100A00L	WWC*643	11/14/91	11/14/91	19.4	12/03/91	12/04/91	KAG
SBE2228100B00L	WWC*644	11/14/91	11/14/91	17.9	12/03/91	12/04/91	KAG
SBE2228100C00L	WWC*645	11/14/91	11/14/91	11.5	12/03/91	12/04/91	KAG
SBE2228200A00L	WWC*646	11/14/91	11/14/91	21.8	12/03/91	12/04/91	KAG
SBE2228200B00L	WWC*647	11/14/91	11/14/91	17.3	12/03/91	12/04/91	KAG
SBE2228200C00L	WWC*648	11/14/91	11/14/91	14.2	12/03/91	12/04/91	KAG
SBE2230100A00L	WWC*649	11/14/91	11/14/91	23.3	12/03/91	12/04/91	KAG
SBE2230100B00L	WWC*650	11/14/91	11/14/91	16.3	12/03/91	12/04/91	KAG
SBE2230100C00L	WWC*651	11/14/91	11/14/91	9.1	12/03/91	12/04/91	KAG
SBE2230200A00L	WWC*652	11/14/91	11/14/91	19.8	12/03/91	12/04/91	KAG
SBE2230200B00L	WWC*653	11/14/91	11/14/91	15.9	12/03/91	12/04/91	KAG
SBE2230200C00L	WWC*654	11/14/91	11/14/91	13.5	12/03/91	12/04/91	KAG
SBE2232100A00L	WWC*655	11/14/91	11/14/91	15.2	12/03/91	12/04/91	KAG
SBE2232100B00L	WWC*656	11/14/91	11/14/91	9.7	12/03/91	12/04/91	KAG
SBE2232100C00L	WWC*657	11/14/91	11/14/91	8.4	12/03/91	12/04/91	KAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11965 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
BE2232100C00L	WWC*657	11/14/91	11/14/91	8.4	12/03/91	12/04/91	KAG
BE2232200A00L	WWC*658	11/14/91	11/14/91	21.0	12/03/91	12/04/91	KAG
SBE2232200B00L	WWC*659	11/14/91	11/14/91	15.3	12/03/91	12/04/91	KAG
BE2232200C00L	WWC*660	11/14/91	11/14/91	11.3	12/03/91	12/04/91	KAG
BE2158100A00L	WWC*661	11/14/91	11/14/91	19.0	12/03/91	12/04/91	KAG
BE2158100B00L	WWC*662	11/14/91	11/14/91	16.6	12/03/91	12/04/91	KAG
SBE2158100C00L	WWC*663	11/14/91	11/14/91	14.4	12/03/91	12/04/91	KAG
BE2158200A00L	WWC*664	11/14/91	11/14/91	21.0	12/03/91	12/04/91	KAG
BE2158200B00L	WWC*665	11/14/91	11/14/91	21.7	12/03/91	12/04/91	KAG
BE2158200C00L	WWC*666	11/14/91	11/14/91	19.9	12/03/91	12/04/91	KAG
SBE2157100A00L	WWC*667	11/14/91	11/14/91	17.8	12/03/91	12/04/91	KAG
BE2157100B00L	WWC*668	11/14/91	11/14/91	17.9	12/03/91	12/04/91	KAG
BE2157100C00L	WWC*669	11/14/91	11/14/91	16.8	12/03/91	12/04/91	KAG
SBE2157200A00L	WWC*670	11/14/91	11/14/91	20.4	12/03/91	12/04/91	KAG
SBE2157200B00L	WWC*671	11/14/91	11/14/91	20.3	12/03/91	12/04/91	KAG
BE2157200C00L	WWC*672	11/14/91	11/14/91	19.6	12/03/91	12/04/91	KAG
GR1918100A00L	WWC*673	11/14/91	11/14/91	27.0	12/03/91	12/04/91	KAG
SGR1918100B00L	WWC*674	11/14/91	11/14/91	26.1	12/03/91	12/04/91	KAG
SGR1918100C00L	WWC*675	11/14/91	11/14/91	29.9	12/03/91	12/04/91	KAG
GR1918200A00L	WWC*676	11/14/91	11/14/91	27.3	12/03/91	12/04/91	KAG
GR1918200B00L	WWC*677	11/14/91	11/14/91	24.9	12/03/91	12/04/91	KAG
SGR1918200C00L	WWC*678	11/14/91	11/14/91	22.9	12/03/91	12/04/91	KAG
MA2023100A00L	WWC*679	11/14/91	11/14/91	22.2	12/03/91	12/04/91	KAG
MA2023100B00L	WWC*680	11/14/91	11/14/91	21.9	12/03/91	12/04/91	KAG
MA2023100C00L	WWC*681	11/14/91	11/14/91	19.7	12/03/91	12/04/91	KAG
SMA2023200A00L	WWC*682	11/14/91	11/14/91	23.6	12/03/91	12/04/91	KAG
MA2023200B00L	WWC*683	11/14/91	11/14/91	22.6	12/03/91	12/04/91	KAG
MA2023200C00L	WWC*684	11/14/91	11/14/91	22.0	12/03/91	12/04/91	KAG
MA2017100A00L	WWC*685	11/14/91	11/14/91	30.2	12/03/91	12/04/91	KAG
SMA2017100B00L	WWC*686	11/14/91	11/14/91	25.6	12/03/91	12/04/91	KAG
MA2017100C00L	WWC*687	11/14/91	11/14/91	20.5	12/03/91	12/04/91	KAG
MA2017200A00L	WWC*688	11/14/91	11/14/91	27.4	12/03/91	12/04/91	KAG
MA2017200B00L	WWC*689	11/14/91	11/14/91	23.7	12/03/91	12/04/91	KAG
SMA2017200C00L	WWC*690	11/14/91	11/14/91	18.6	12/03/91	12/04/91	KAG
BE2121100A00L	WWC*691	11/14/91	11/14/91	22.6	12/03/91	12/04/91	KAG
BE2121100B00L	WWC*692	11/14/91	11/14/91	20.4	12/03/91	12/04/91	KAG
SBE2121100C00L	WWC*693	11/14/91	11/14/91	18.5	12/03/91	12/04/91	KAG
SBE2121200A00L	WWC*694	11/14/91	11/14/91	24.9	12/03/91	12/04/91	KAG
BE2121200B00L	WWC*695	11/14/91	11/14/91	19.0	12/03/91	12/04/91	KAG
BE2121200C00L	WWC*696	11/14/91	11/14/91	16.0	12/03/91	12/04/91	KAG
SBE2133100A00L	WWC*697	11/14/91	11/14/91	19.3	12/03/91	12/04/91	KAG
SBE2133100B00L	WWC*698	11/14/91	11/14/91	18.0	12/03/91	12/04/91	KAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1055 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
BE2133100B00L	WWC*698	11/14/91	11/14/91	18.0	12/03/91	12/04/91	KAG
BE2133100C00L	WWC*699	11/14/91	11/14/91	16.8	12/03/91	12/04/91	KAG
BE2133200A00L	WWC*700	11/14/91	11/14/91	18.6	12/03/91	12/04/91	KAG
SBE2133200B00L	WWC*701	11/14/91	11/14/91	17.5	12/03/91	12/04/91	KAG
BE2133200C00L	WWC*702	11/14/91	11/14/91	18.8	12/03/91	12/04/91	KAG
BE2131100A00L	WWC*703	11/14/91	11/14/91	19.5	12/03/91	12/04/91	KAG
BE2131100B00L	WWC*704	11/14/91	11/14/91	18.2	12/03/91	12/04/91	KAG
SBE2131100C00L	WWC*705	11/14/91	11/14/91	17.2	12/03/91	12/04/91	KAG
BE2131200A00L	WWC*706	11/14/91	11/14/91	18.0	12/03/91	12/04/91	KAG
BE2131200B00L	WWC*707	11/14/91	11/14/91	16.1	12/03/91	12/04/91	KAG
SBE2131200C00L	WWC*708	11/14/91	11/14/91	17.2	12/03/91	12/04/91	KAG
SCL2027100A00L	WWC*709	11/14/91	11/14/91	21.0	12/03/91	12/04/91	KAG
CL2027100B00L	WWC*710	11/14/91	11/14/91	20.4	12/03/91	12/04/91	KAG
CL2027100C00L	WWC*711	11/14/91	11/14/91	18.7	12/03/91	12/04/91	KAG
SCL2029100A00L	WWC*712	11/14/91	11/14/91	26.7	12/03/91	12/04/91	KAG
SCL2029100B00L	WWC*713	11/14/91	11/14/91	20.6	12/03/91	12/04/91	KAG
CL2029100C00L	WWC*714	11/14/91	11/14/91	19.4	12/03/91	12/04/91	KAG
CL2029200A00L	WWC*715	11/14/91	11/14/91	12.1	12/03/91	12/04/91	KAG
SCL2029200B00L	WWC*716	11/14/91	11/14/91	15.1	12/03/91	12/04/91	KAG
SCL2029200C00L	WWC*717	11/14/91	11/14/91	15.5	12/03/91	12/04/91	KAG
CL2055100A00L	WWC*718	11/14/91	11/14/91	19.9	12/03/91	12/04/91	KAG
CL2055100B00L	WWC*719	11/14/91	11/14/91	16.9	12/03/91	12/04/91	KAG
SCL2055100C00L	WWC*720	11/14/91	11/14/91	17.7	12/03/91	12/04/91	KAG
SCL2055200A00L	WWC*721	11/14/91	11/14/91	22.1	12/03/91	12/04/91	KAG
CL2055200B00L	WWC*722	11/14/91	11/14/91	19.1	12/03/91	12/04/91	KAG
CL2055200C00L	WWC*723	11/14/91	11/14/91	19.2	12/03/91	12/04/91	KAG
SCL2032100A00L	WWC*724	11/14/91	11/14/91	19.8	12/03/91	12/04/91	KAG
CL2032100B00L	WWC*725	11/14/91	11/14/91	19.0	12/03/91	12/04/91	KAG
CL2032100C00L	WWC*726	11/14/91	11/14/91	18.4	12/03/91	12/04/91	KAG
CL2032200A00L	WWC*727	11/14/91	11/14/91	21.5	12/03/91	12/04/91	KAG
SCL2032200B00L	WWC*728	11/14/91	11/14/91	18.7	12/03/91	12/04/91	KAG
CL2032200C00L	WWC*729	11/14/91	11/14/91	17.2	12/03/91	12/04/91	KAG
SWS2027100A00L	WWC*730	11/14/91	11/14/91	24.7	12/03/91	12/04/91	KAG
SWS2027100B00L	WWC*731	11/14/91	11/14/91	21.7	12/03/91	12/04/91	KAG
SWS2027100C00L	WWC*732	11/14/91	11/14/91	19.3	12/03/91	12/04/91	KAG
SWS2027200A00L	WWC*733	11/14/91	11/14/91	24.4	12/03/91	12/04/91	KAG
SWS2027200B00L	WWC*734	11/14/91	11/14/91	20.4	12/03/91	12/04/91	KAG
SWS2027200C00L	WWC*735	11/14/91	11/14/91	21.0	12/03/91	12/04/91	KAG
SWS2033100A00L	WWC*736	11/14/91	11/14/91	23.0	12/03/91	12/04/91	KAG
SWS2033100B00L	WWC*737	11/14/91	11/14/91	20.6	12/03/91	12/04/91	KAG
SWS2033100C00L	WWC*738	11/14/91	11/14/91	21.3	12/03/91	12/04/91	KAG
SWS2033200A00L	WWC*739	11/14/91	11/14/91	21.5	12/03/91	12/04/91	KAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Resu

1365 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-6000
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SWS2033200A00L	WWC*739	11/14/91	11/14/91	21.5	12/03/91	12/04/91	KAG
WS2033200B00L	WWC*740	11/14/91	11/14/91	20.6	12/03/91	12/04/91	KAG
WS2033200C00L	WWC*741	11/14/91	11/14/91	21.1	12/03/91	12/04/91	KAG
WS2040100A00L	WWC*742	11/14/91	11/14/91	18.8	12/03/91	12/04/91	KAG
SWS2040100B00L	WWC*743	11/14/91	11/14/91	18.1	12/03/91	12/04/91	KAG
WS2040100C00L	WWC*744	11/14/91	11/14/91	17.5	12/03/91	12/04/91	KAG
WS2040200A00L	WWC*745	11/14/91	11/14/91	24.5	12/03/91	12/04/91	KAG
SWS2040200B00L	WWC*746	11/14/91	11/14/91	22.5	12/03/91	12/04/91	KAG
WS2040200C00L	WWC*747	11/14/91	11/14/91	19.2	12/03/91	12/04/91	KAG
WS2038100A00L	WWC*748	11/14/91	11/14/91	25.3	12/03/91	12/04/91	KAG
SWS2038100B00L	WWC*749	11/14/91	11/14/91	18.5	12/03/91	12/04/91	KAG
SWS2038100C00L	WWC*750	11/14/91	11/14/91	17.0	12/03/91	12/04/91	KAG
WS2038200A00L	WWC*751	11/14/91	11/14/91	23.4	12/03/91	12/04/91	KAG
WS2038200B00L	WWC*752	11/14/91	11/14/91	16.1	12/03/91	12/04/91	KAG
SWS2038200C00L	WWC*753	11/14/91	11/14/91	24.0	12/03/91	12/04/91	KAG
SLE2029100A00L	WWC*754	11/15/91	11/15/91	23.7	12/03/91	12/04/91	KAG
LE2029100B00L	WWC*755	11/15/91	11/15/91	20.5	12/03/91	12/04/91	KAG
LE2029100C00L	WWC*756	11/15/91	11/15/91	20.4	12/03/91	12/04/91	KAG
SLE2029200A00L	WWC*757	11/15/91	11/15/91	20.9	12/03/91	12/04/91	KAG
SLE2029200B00L	WWC*758	11/15/91	11/15/91	15.5	12/03/91	12/04/91	KAG
LE2029200C00L	WWC*759	11/15/91	11/15/91	19.4	12/03/91	12/04/91	KAG
LE2037100A00L	WWC*760	11/15/91	11/15/91	23.7	12/03/91	12/04/91	KAG
LE2037100B00L	WWC*761	11/15/91	11/15/91	21.2		12/04/91	KAG
SLE2037100C00L	WWC*762	11/15/91	11/15/91	20.9		12/04/91	KAG
LE2037200A00L	WWC*763	11/15/91	11/15/91	25.9		12/04/91	KAG
LE2037200B00L	WWC*764	11/15/91	11/15/91	23.1		12/04/91	KAG
SLE2037200C00L	WWC*765	11/15/91	11/15/91	21.4		12/04/91	KAG
LE2045100A00L	WWC*766	11/15/91	11/15/91	22.2		12/04/91	KAG
LE2045100A0LD	WWC*767	11/15/91	11/15/91	22.5		12/04/91	KAG
LE2045100B00L	WWC*768	11/15/91	11/15/91	19.1		12/04/91	KAG
SLE2045100B0LD	WWC*769	11/15/91	11/15/91	20.1		12/04/91	KAG
LE2045100C00L	WWC*770	11/15/91	11/15/91	20.0		12/04/91	KAG
LE2045100C0LD	WWC*771	11/15/91	11/15/91	19.6		12/04/91	KAG
LE2045200A00L	WWC*772	11/15/91	11/15/91	17.9		12/04/91	KAG
SLE2045200B00L	WWC*773	11/15/91	11/15/91	14.0		12/04/91	KAG
LE2045200C00L	WWC*774	11/15/91	11/15/91	19.6		12/04/91	KAG
LE2047100A00L	WWC*775	11/15/91	11/15/91	24.2		12/04/91	KAG
SLE2047100B00L	WWC*776	11/15/91	11/15/91	20.3		12/04/91	KAG
SLE2047100C00L	WWC*777	11/15/91	11/15/91	17.8		12/04/91	KAG
LE2047200A00L	WWC*778	11/15/91	11/15/91	23.4		12/04/91	KAG
LE2047200B00L	WWC*779	11/15/91	11/15/91	22.0		12/04/91	KAG
SLE2047200C00L	WWC*780	11/15/91	11/15/91	22.9		12/04/91	KAG

Environmental Science & Engineering Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

[illegible] Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SLE2047200C00L	WWC*780	11/15/91	11/15/91	22.9		12/04/91	KAG
LE2143100A00L	WWC*781	11/15/91	11/15/91	23.5		12/04/91	KAG
LE2143100B00L	WWC*782	11/15/91	11/15/91	19.9		12/04/91	KAG
SLE2143100C00L	WWC*783	11/15/91	11/15/91	16.5		12/04/91	KAG
SLE2143200A00L	WWC*784	11/15/91	11/15/91	22.5		12/04/91	KAG
LE2143200B00L	WWC*785	11/15/91	11/15/91	21.5		12/04/91	KAG
LE2143200C00L	WWC*786	11/15/91	11/15/91	20.6		12/04/91	KAG
SLE2151100A00L	WWC*787	11/15/91	11/15/91	20.7		12/04/91	KAG
SLE2161100A0LD	WWC*788	11/15/91	11/15/91	21.8		12/04/91	KAG
LE2151100B00L	WWC*789	11/15/91	11/15/91	18.1		12/04/91	KAG
LE2161100B0LD	WWC*790	11/15/91	11/15/91	19.9		12/04/91	KAG
SLE2151100C00L	WWC*791	11/15/91	11/15/91	17.3		12/04/91	KAG
LE2161100C0LD	WWC*792	11/15/91	11/15/91	14.7		12/04/91	KAG
LE2151200A00L	WWC*793	11/15/91	11/15/91	21.2		12/04/91	KAG
SLE2151200B00L	WWC*794	11/15/91	11/15/91	20.3		12/04/91	KAG
SLE2151200C00L	WWC*795	11/15/91	11/15/91	20.0		12/04/91	KAG
LE2161100A00L	WWC*796	11/15/91	11/15/91	22.3		12/04/91	KAG
LE2161100B00L	WWC*797	11/15/91	11/15/91	18.4		12/04/91	KAG
SLE2161100C00L	WWC*798	11/15/91	11/15/91	15.6		12/04/91	KAG
SBE2148100A00L	WWC*799	11/15/91	11/15/91	21.8		12/04/91	KAG
BE2148100B00L	WWC*800	11/15/91	11/15/91	18.5		12/04/91	KAG
BE2148100C00L	WWC*801	11/15/91	11/15/91	16.1		12/04/91	KAG
SBE2148200A00L	WWC*802	11/15/91	11/15/91	25.8		12/04/91	KAG
SBE2148200B00L	WWC*803	11/15/91	11/15/91	23.6		12/04/91	KAG
BE2148200C00L	WWC*804	11/15/91	11/15/91	24.4		12/04/91	KAG
AD2108100A00L	WWC*805	11/15/91	11/15/91	19.9		12/04/91	KAG
SAD2108100B00L	WWC*806	11/15/91	11/15/91	17.3		12/04/91	KAG
SAD2108100C00L	WWC*807	11/15/91	11/15/91	17.7		12/04/91	KAG
AD2120100A00L	WWC*808	11/15/91	11/15/91	20.4		12/04/91	KAG
AD2120100A0LD	WWC*809	11/15/91	11/15/91	20.8		12/04/91	KAG
SAD2120100B00L	WWC*810	11/15/91	11/15/91	19.8		12/04/91	KAG
SAD2120100B0LD	WWC*811	11/15/91	11/15/91	19.2		12/04/91	KAG
AD2120100C00L	WWC*812	11/15/91	11/15/91	23.0		12/04/91	KAG
AD2120100C0LD	WWC*813	11/15/91	11/15/91	20.8		12/04/91	KAG
SAD2120200A00L	WWC*814	11/15/91	11/15/91	18.0		12/04/91	KAG
SAD2120200B00L	WWC*815	11/15/91	11/15/91	16.4		12/04/91	KAG
AD2120200C00L	WWC*816	11/15/91	11/15/91	13.6		12/04/91	KAG
AD2134100A00L	WWC*817	11/15/91	11/15/91	18.0		12/04/91	KAG
SAD2134100B00L	WWC*818	11/15/91	11/15/91	16.8		12/04/91	KAG
SAD2134100C00L	WWC*819	11/15/91	11/15/91	24.2		12/04/91	KAG
AD2134200A00L	WWC*820	11/15/91	11/15/91	20.8		12/04/91	KAG
SAD2134200B00L	WWC*821	11/15/91	11/15/91	19.4		12/04/91	KAG

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1055 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SAD2134200B00L	WWC*821	11/15/91	11/15/91	19.4		12/04/91	KAG
AD2134200C00L	WWC*822	11/15/91	11/15/91	15.8		12/04/91	KAG
AD2138100A00L	WWC*823	11/15/91	11/15/91	20.2		12/04/91	KAG
SAD2138100A0LD	WWC*824	11/15/91	11/15/91	22.0		12/04/91	KAG
AD2138100B00L	WWC*825	11/15/91	11/15/91	18.5		12/04/91	KAG
AD2138100B0LD	WWC*826	11/15/91	11/15/91	12.4		12/04/91	KAG
AD2138100C00L	WWC*827	11/15/91	11/15/91	17.8		12/04/91	KAG
SAD2138100C0LD	WWC*828	11/15/91	11/15/91	18.0		12/04/91	KAG
AD2138200A00L	WWC*829	11/15/91	11/15/91	21.3		12/04/91	KAG
AD2138200B00L	WWC*830	11/15/91	11/15/91	18.7		12/04/91	KAG
SAD2138200C00L	WWC*831	11/15/91	11/15/91	17.1		12/04/91	KAG
SAD2152100A00L	WWC*832	11/15/91	11/15/91	19.6		12/04/91	KAG
AD2152100B00L	WWC*833	11/15/91	11/15/91	18.6		12/04/91	KAG
AD2152100C00L	WWC*834	11/15/91	11/15/91	17.2		12/04/91	KAG
SAD2152200A00L	WWC*835	11/15/91	11/15/91	23.4		12/04/91	KAG
SAD2152200B00L	WWC*836	11/15/91	11/15/91	19.6		12/04/91	KAG
AD2152200C00L	WWC*837	11/15/91	11/15/91	20.1		12/04/91	KAG
AD2144100A00L	WWC*838	11/15/91	11/15/91	17.7		12/04/91	KAG
SAD2144100B00L	WWC*839	11/15/91	11/15/91	16.7		12/04/91	KAG
SAD2144100C00L	WWC*840	11/15/91	11/15/91	16.4		12/04/91	KAG
AD2144200A00L	WWC*841	11/15/91	11/15/91	21.2		12/04/91	KAG
AD2144200B00L	WWC*842	11/15/91	11/15/91	16.3		12/04/91	KAG
SAD2144200C00L	WWC*843	11/15/91	11/15/91	19.1		12/04/91	KAG
STR001010AC00L	WWC*844	11/15/91	11/15/91	17.2		12/04/91	KAG
TR0010100D00L	WWC*845	11/15/91	11/15/91	12.6		12/04/91	KAG
TR0010100K00L	WWC*846	11/15/91	11/15/91	21.9		12/04/91	KAG
STR0010100L00L	WWC*847	11/15/91	11/15/91	26.1		12/04/91	KAG
TR0010100M00L	WWC*848	11/15/91	11/15/91	8.3		12/04/91	KAG
TR0010100N00L	WWC*849	11/15/91	11/15/91	4.4		12/04/91	KAG
TR0010100T00L	WWC*850	11/15/91	11/15/91	12.4		12/04/91	KAG
SMA2021100A00L	WWC*851	11/18/91	11/18/91	37.6		12/04/91	KAG
MA2021100B00L	WWC*852	11/18/91	11/18/91	27.2		12/04/91	KAG
MA2021100C00L	WWC*853	11/18/91	11/18/91	25.3		12/04/91	KAG
MA2021200A00L	WWC*854	11/18/91	11/18/91	34.4		12/04/91	KAG
SMA2021200B00L	WWC*855	11/18/91	11/18/91	22.2		12/04/91	KAG
MA2021200C00L	WWC*856	11/18/91	11/18/91	19.7		12/04/91	KAG
WS2008100A00L	WWC*857	11/18/91	11/18/91	25.2		12/04/91	KAG
SWS2008100B00L	WWC*858	11/18/91	11/18/91	23.3		12/04/91	KAG
SWS2008100C00L	WWC*859	11/18/91	11/18/91	20.2		12/04/91	KAG
WS2008200A00L	WWC*860	11/18/91	11/18/91	22.1		12/04/91	KAG
WS2008200B00L	WWC*861	11/18/91	11/18/91	20.7		12/04/91	KAG
SWS2008200C00L	WWC*862	11/18/91	11/18/91	20.6		12/04/91	KAG

ESE
St. Louis Chemistry Laboratory
11665 Lilburn Park Road
St. Louis, Missouri 63146-3535
Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE
PROJECT NUMBER: 5912031 0100
SAMPLE MATRIX: SOIL
PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 12-30-91
LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SWS2008200C00L	WWC*862	11/18/91	11/18/91	20.6		12/04/91	KAG
SWS2036100A00L	WWC*863	11/18/91	11/18/91	25.8		12/04/91	KAG
SWS2036100B00L	WWC*864	11/18/91	11/18/91	21.3		12/04/91	KAG
SWS2036100C00L	WWC*865	11/18/91	11/18/91	16.4		12/04/91	KAG
SWS2104100A00L	WWC*866	11/18/91	11/18/91	19.6		12/04/91	KAG
SWS2104100B00L	WWC*867	11/18/91	11/18/91	17.8		12/04/91	KAG
SWS2104100C00L	WWC*868	11/18/91	11/18/91	17.2		12/04/91	KAG
SWS2104200A00L	WWC*869	11/18/91	11/18/91	27.2		12/04/91	KAG
SWS2104200B00L	WWC*870	11/18/91	11/18/91	20.3		12/04/91	KAG
SWS2104200C00L	WWC*871	11/18/91	11/18/91	19.9		12/04/91	KAG
SGR1923100A00L	WWC*872	11/18/91	11/18/91	25.0		12/04/91	KAG
SGR1923100B00L	WWC*873	11/18/91	11/18/91	29.0		12/04/91	KAG
SGR1923100C00L	WWC*874	11/18/91	11/18/91	26.2		12/04/91	KAG
SGR1923200A00L	WWC*875	11/18/91	11/18/91	26.3		12/04/91	KAG
SGR1923200B00L	WWC*876	11/18/91	11/18/91	20.0		12/04/91	KAG
SGR1923200C00L	WWC*877	11/18/91	11/18/91	22.2		12/04/91	KAG
SGR2149100A00L	WWC*878	11/18/91	11/18/91	23.7		12/04/91	KAG
SGR2149100B00L	WWC*879	11/18/91	11/18/91	20.2		12/04/91	KAG
SGR2149100C00L	WWC*880	11/18/91	11/18/91	20.1		12/04/91	KAG
SGR2149200A00L	WWC*881	11/18/91	11/18/91	22.2		12/04/91	KAG
SGR2149200B00L	WWC*882	11/18/91	11/18/91	18.2		12/04/91	KAG
SGR2149200C00L	WWC*883	11/18/91	11/18/91	17.3		12/04/91	KAG
SED1627100A00L	WWC*884	11/18/91	11/18/91	22.0		12/04/91	KAG
SED1627100B00L	WWC*885	11/18/91	11/18/91	18.2		12/04/91	KAG
SED1627100C00L	WWC*886	11/18/91	11/18/91	17.6		12/04/91	KAG
SED1627200A00L	WWC*887	11/18/91	11/18/91	25.6		12/04/91	KAG
SED1627200B00L	WWC*888	11/18/91	11/18/91	22.7		12/04/91	KAG
SED1627200C00L	WWC*889	11/18/91	11/18/91	24.0		12/04/91	KAG
SED1635100A00L	WWC*890	11/18/91	11/18/91	23.7		12/04/91	KAG
SED1635100B00L	WWC*891	11/18/91	11/18/91	23.8		12/04/91	KAG
SED1635100C00L	WWC*892	11/18/91	11/18/91	19.2		12/04/91	KAG
SED1635200A00L	WWC*893	11/18/91	11/18/91	25.0		12/04/91	KAG
SED1635200B00L	WWC*894	11/18/91	11/18/91	24.7		12/04/91	KAG
SED1635200C00L	WWC*895	11/18/91	11/18/91	21.4		12/04/91	KAG
SED1639100A00L	WWC*896	11/18/91	11/18/91	27.7		12/04/91	KAG
SED1639100B00L	WWC*897	11/18/91	11/18/91	25.2		12/04/91	KAG
SED1639100C00L	WWC*898	11/18/91	11/18/91	27.0		12/04/91	KAG
SED1639200A00L	WWC*899	11/18/91	11/18/91	26.9		12/04/91	KAG
SED1639200B00L	WWC*900	11/18/91	11/18/91	26.1		12/04/91	KAG
SED1639200C00L	WWC*901	11/18/91	11/18/91	24.0		12/06/91	WHP
STR0006100AC00L	WWC*902	11/18/91	11/18/91	11.4		12/06/91	WHP
STR0006100D00L	WWC*903	11/18/91	11/18/91	18.1		12/06/91	WHP

Environmental Science & Engineering, Inc

St Louis Chemistry Laboratory

Analytical Chemistry Re:

1005 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
STR0006100D00L	WWC*903	11/18/91	11/18/91	18.1		12/06/91	WHP
STR0006100K00L	WWC*904	11/18/91	11/18/91	19.0		12/06/91	WHP
STR0006100L00L	WWC*905	11/18/91	11/18/91	22.9		12/06/91	WHP
STR0006100M00L	WWC*906	11/18/91	11/18/91	28.4		12/06/91	WHP
STR0006100N00L	WWC*907	11/18/91	11/18/91	26.0		12/06/91	WHP
STR0006100N0LX	WWC*908	11/18/91	11/18/91	28.1		12/06/91	WHP
STR0006100N0LM	WWC*909	11/18/91	11/18/91	29.2		12/06/91	WHP
STR0006100T00L	WWC*910	11/18/91	11/18/91	8.3		12/06/91	WHP
STR000710AC00L	WWC*911	11/18/91	11/18/91	8.5		12/06/91	WHP
STR0007100D00L	WWC*912	11/18/91	11/18/91	8.3		12/06/91	WHP
STR0007100K00L	WWC*913	11/18/91	11/18/91	24.1		12/06/91	WHP
STR0007100L00L	WWC*914	11/18/91	11/18/91	27.8		12/06/91	WHP
STR0007100L0LD	WWC*915	11/18/91	11/18/91	26.4		12/06/91	WHP
STR0007100M00L	WWC*916	11/18/91	11/18/91	25.6		12/06/91	WHP
STR0007100N00L	WWC*917	11/18/91	11/18/91	27.2		12/06/91	WHP
STR0007100T00L	WWC*918	11/18/91	11/18/91	19.8		12/06/91	WHP
STR000810AC00L	WWC*919	11/18/91	11/18/91	11.2		12/06/91	WHP
STR0008100D00L	WWC*920	11/18/91	11/18/91	14.9		12/06/91	WHP
STR0008100K00L	WWC*921	11/18/91	11/18/91	16.2		12/06/91	WHP
STR0008100L00L	WWC*922	11/18/91	11/18/91	27.4		12/06/91	WHP
STR0008100M00L	WWC*923	11/18/91	11/18/91	22.8		12/06/91	WHP
STR0008100N00L	WWC*924	11/18/91	11/18/91	13.2		12/06/91	WHP
STR0008100T00L	WWC*925	11/18/91	11/18/91	12.5		12/06/91	WHP
STR000910AC00L	WWC*926	11/18/91	11/18/91	18.7		12/06/91	WHP
STR0009100D00L	WWC*927	11/18/91	11/18/91	22.0		12/06/91	WHP
STR0009100K00L	WWC*928	11/18/91	11/18/91	27.6		12/06/91	WHP
STR0009100L00L	WWC*929	11/18/91	11/18/91	22.4		12/06/91	WHP
STR0009100M00L	WWC*930	11/18/91	11/18/91	5.0		12/06/91	WHP
STR0009100N00L	WWC*931	11/18/91	11/18/91	4.4		12/06/91	WHP
STR0009100T00L	WWC*932	11/18/91	11/18/91	18.7		12/06/91	WHP
SEL1715100A00L	WWC*933	11/19/91	11/19/91	22.8		12/06/91	WHP
SEL1715100B00L	WWC*934	11/19/91	11/19/91	21.9		12/06/91	WHP
SEL1715100C00L	WWC*935	11/19/91	11/19/91	18.4		12/06/91	WHP
SEL1715200A00L	WWC*936	11/19/91	11/19/91	21.0		12/06/91	WHP
SEL1715200B00L	WWC*937	11/19/91	11/19/91	19.3		12/06/91	WHP
SEL1715200C00L	WWC*938	11/19/91	11/19/91	18.3		12/06/91	WHP
SEL1717100A00L	WWC*939	11/19/91	11/19/91	24.2		12/06/91	WHP
SEL1717100B00L	WWC*940	11/19/91	11/19/91	22.0		12/06/91	WHP
SEL1717100C00L	WWC*941	11/19/91	11/19/91	20.1		12/06/91	WHP
SEL1717200A00L	WWC*942	11/19/91	11/19/91	20.5		12/06/91	WHP
SEL1717200B00L	WWC*943	11/19/91	11/19/91	17.7		12/06/91	WHP
SEL1717200C00L	WWC*944	11/19/91	11/19/91	18.1		12/06/91	WHP

Environmental Science & Engineering Inc

St Louis Chemistry Laboratory

Analytical Chemistry Res

1405 Lilburn Park Road
St Louis Missouri 63146-3535

Phone 314 567-4600
Fax 314 567-5030

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
EL1717200C00L	WWC*944	11/19/91	11/19/91	18.1		12/06/91	WHP
EL1723100A00L	WWC*945	11/19/91	11/19/91	20		12/06/91	WHP
SEL1723100B00L	WWC*946	11/19/91	11/19/91	17		12/06/91	WHP
SEL1723100C00L	WWC*947	11/19/91	11/19/91	19		12/06/91	WHP
EL1725100A00L	WWC*948	11/19/91	11/19/91	19.1		12/06/91	WHP
EL1725100B00L	WWC*949	11/19/91	11/19/91	17.2		12/06/91	WHP
SEL1725100C00L	WWC*950	11/19/91	11/19/91	17.4		12/06/91	WHP
SEL1725200A00L	WWC*951	11/19/91	11/19/91	23.4		12/06/91	WHP
EL1725200B00L	WWC*952	11/19/91	11/19/91	20.3		12/06/91	WHP
EL1725200C00L	WWC*953	11/19/91	11/19/91	20.7		12/06/91	WHP
SEL1920200A00L	WWC*954	11/19/91	11/19/91	20.4		12/06/91	WHP
SEL1920200A0LM	WWC*955	11/19/91	11/19/91	20.3		12/06/91	WHP
EL1920200A0LX	WWC*956	11/19/91	11/19/91	22.0		12/06/91	WHP
EL1920200B00L	WWC*957	11/19/91	11/19/91	20.2		12/06/91	WHP
SEL1920200B0LM	WWC*958	11/19/91	11/19/91	19.3		12/06/91	WHP
SEL1920200B0LX	WWC*959	11/19/91	11/19/91	20.0		12/06/91	WHP
EL1920200C00L	WWC*960	11/19/91	11/19/91	21.4		12/06/91	WHP
EL1920200C0LM	WWC*961	11/19/91	11/19/91	21.3		12/06/91	WHP
SEL1920200C0LX	WWC*962	11/19/91	11/19/91	22.1		12/06/91	WHP
SEL1918200A00L	WWC*963	11/19/91	11/19/91	22.4		12/06/91	WHP
EL1918200B00L	WWC*964	11/19/91	11/19/91	21.7		12/06/91	WHP
EL1918200C00L	WWC*965	11/19/91	11/19/91	21.8		12/06/91	WHP
SGW1001100A00L	WWC*966	11/19/91	11/19/91	19.1		12/06/91	WHP
SGW1001100B00L	WWC*967	11/19/91	11/19/91	16.2		12/06/91	WHP
GW1001100C00L	WWC*968	11/19/91	11/19/91	15.4		12/06/91	WHP
SGW1001200A00L	WWC*969	11/19/91	11/19/91	18.6		12/06/91	WHP
SGW1001200B00L	WWC*970	11/19/91	11/19/91	18.0		12/06/91	WHP
SGW1001200C00L	WWC*971	11/19/91	11/19/91	22.7		12/06/91	WHP
STR000510AC00L	WWC*972	11/19/91	11/19/91	13.1		12/06/91	WHP
STR0005100D00L	WWC*973	11/19/91	11/19/91	12.6		12/06/91	WHP
STR0005100K00L	WWC*974	11/19/91	11/19/91	10.5		12/06/91	WHP
STR0005100L00L	WWC*975	11/19/91	11/19/91	27.2		12/06/91	WHP
STR0005100M00L	WWC*976	11/19/91	11/19/91	29.1		12/06/91	WHP
STR0005100N00L	WWC*977	11/19/91	11/19/91	25.3		12/06/91	WHP
STR0005100T00L	WWC*978	11/19/91	11/19/91	8.7		12/06/91	WHP
STR000210AC00L	WWC*979	11/19/91	11/19/91	11.1		12/06/91	WHP
STR0002100D00L	WWC*980	11/19/91	11/19/91	9.5 J		12/06/91	WHP
STR0002100K00L	WWC*981	11/19/91	11/19/91	18.4		12/06/91	WHP
STR0002100L00L	WWC*982	11/19/91	11/19/91	25.2		12/06/91	WHP
STR0002100M00L	WWC*983	11/19/91	11/19/91	28.2		12/06/91	WHP
STR0002100N00L	WWC*984	11/19/91	11/19/91	26.5		12/06/91	WHP
STR0002100T00L	WWC*985	11/19/91	11/19/91	10.1		12/06/91	WHP
STR0002100T0LD	WWC*986	11/19/91	11/19/91	10.6		12/06/91	WHP

ANALYTICAL RESULTS

LEAD ANALYSES

Pages 25 - 48

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314/567-4600
Fax 314/567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1713100A00L	WWC*1	11/04/91	11/04/91	156	11/12/91	11/22/91	JWC
SMP1713100B00L	WWC*2	11/04/91	11/04/91	446	11/12/91	11/22/91	JWC
SMP1713100C00L	WWC*3	11/04/91	11/04/91	381	11/12/91	11/22/91	JWC
SMP1713200A00L	WWC*4	11/04/91	11/04/91	423	11/12/91	11/22/91	JWC
SMP1713200B00L	WWC*5	11/04/91	11/04/91	660	11/12/91	11/22/91	JWC
SMP1713200C00L	WWC*6	11/04/91	11/04/91	328	11/12/91	11/22/91	JWC
SMP1716100A00L	WWC*7	11/04/91	11/04/91	556	11/12/91	11/22/91	JWC
SMP1716100B00L	WWC*8	11/04/91	11/04/91	296	11/12/91	11/22/91	JWC
SMP1716100C00L	WWC*9	11/04/91	11/04/91	198	11/12/91	11/22/91	JWC
SMP1716200A00L	WWC*10	11/04/91	11/04/91	60.6	11/12/91	11/22/91	JWC
SMP1716200B00L	WWC*11	11/04/91	11/04/91	85.8	11/12/91	11/22/91	JWC
SMP1716200C00L	WWC*12	11/04/91	11/04/91	211	11/12/91	11/22/91	JWC
SMP1720100A00L	WWC*13	11/04/91	11/04/91	901	11/12/91	11/22/91	JWC
SMP1720100B00L	WWC*14	11/04/91	11/04/91	778	11/12/91	11/22/91	JWC
SMP1720100C00L	WWC*15	11/04/91	11/04/91	402	11/12/91	11/22/91	JWC
SMP1720200A00L	WWC*16	11/04/91	11/04/91	300	11/12/91	11/22/91	JWC
SMP1720200B00L	WWC*17	11/04/91	11/04/91	290	11/12/91	11/22/91	JWC
SMP1720200C00L	WWC*18	11/04/91	11/04/91	77.2	11/12/91	11/22/91	JWC
SMP1602100A00L	WWC*19	11/04/91	11/04/91	308	11/12/91	11/22/91	JWC
SMP1602100B00L	WWC*20	11/04/91	11/04/91	314	11/12/91	11/22/91	JWC
SMP1602100C00L	WWC*21	11/04/91	11/04/91	460	11/12/91	11/22/91	JWC
SMP1602200A00L	WWC*22	11/04/91	11/04/91	316	11/12/91	11/22/91	JWC
SMP1602200B00L	WWC*23	11/04/91	11/04/91	215	11/12/91	11/22/91	JWC
SMP1602200C00L	WWC*24	11/04/91	11/04/91	160	11/12/91	11/22/91	JWC
SMP1610100A00L	WWC*25	11/04/91	11/04/91	542	11/12/91	11/22/91	JWC
SMP1610100B00L	WWC*26	11/04/91	11/04/91	350	11/12/91	11/22/91	JWC
SMP1610100C00L	WWC*27	11/04/91	11/04/91	122	11/12/91	11/22/91	JWC
SMP1610200A00L	WWC*28	11/04/91	11/04/91	413	11/12/91	11/22/91	JWC
SMP1610200B00L	WWC*29	11/04/91	11/04/91	644	11/12/91	11/22/91	JWC
SMP1610200C00L	WWC*30	11/04/91	11/04/91	203	11/12/91	11/22/91	JWC
SMP1622100A00L	WWC*31	11/04/91	11/04/91	271	11/12/91	11/22/91	JWC
SMP1622100B00L	WWC*32	11/04/91	11/04/91	183	11/12/91	11/22/91	JWC
SMP1622100C00L	WWC*33	11/04/91	11/04/91	139	11/12/91	11/22/91	JWC
SMP1622200A00L	WWC*34	11/04/91	11/04/91	251	11/12/91	11/22/91	JWC
SMP1622200B00L	WWC*35	11/04/91	11/04/91	239	11/12/91	11/22/91	JWC
SMP1622200C00L	WWC*36	11/04/91	11/04/91	128	11/12/91	11/22/91	JWC
SMP1640100A00L	WWC*37	11/04/91	11/04/91	317	11/12/91	11/22/91	JWC
SMP1640100B00L	WWC*38	11/04/91	11/04/91	1790	11/12/91	11/22/91	JWC
SMP1640100C00L	WWC*39	11/04/91	11/04/91	231	11/12/91	11/22/91	JWC
SMP1640200A00L	WWC*40	11/04/91	11/04/91	368	11/12/91	11/22/91	JWC
SMP1640200B00L	WWC*41	11/04/91	11/04/91	295	11/12/91	11/22/91	JWC
SMP1640200C00L	WWC*42	11/04/91	11/04/91	76.5	11/12/91	11/22/91	JWC

Environmental Science & Engineering, Inc

St Louis Chemistry Labora:

Analytical Chemistry Re

Hon5 Lilburn Park Road
St Louis Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
MP1640200C00L	WWC*42	11/04/91	11/04/91	76.5	11/12/91	11/22/91	JWC
MP1643100A00L	WWC*43	11/05/91	11/05/91	506	11/12/91	11/22/91	JWC
SMP1643100B00L	WWC*44	11/05/91	11/05/91	326	11/12/91	11/22/91	JWC
SMP1643100C00L	WWC*45	11/05/91	11/05/91	183	11/12/91	11/22/91	JWC
MP1647100A00L	WWC*46	11/05/91	11/05/91	321	11/12/91	11/22/91	JWC
MP1647100B00L	WWC*47	11/05/91	11/05/91	318	11/12/91	11/22/91	JWC
SMP1647100C00L	WWC*48	11/05/91	11/05/91	227	11/12/91	11/22/91	JWC
SMP1643200A00L	WWC*49	11/05/91	11/05/91	231	11/12/91	11/22/91	JWC
MP1643200B00L	WWC*50	11/05/91	11/05/91	320	11/12/91	11/22/91	JWC
MP1643200C00L	WWC*51	11/05/91	11/05/91	92.1	11/12/91	11/22/91	JWC
SMP1644100A00L	WWC*52	11/05/91	11/05/91	299	11/12/91	11/22/91	JWC
SMP1644100B00L	WWC*53	11/05/91	11/05/91	151	11/12/91	11/22/91	JWC
MP1644100C00L	WWC*54	11/05/91	11/05/91	167	11/12/91	11/22/91	JWC
MP1644200A00L	WWC*55	11/05/91	11/05/91	2420	11/12/91	11/22/91	JWC
SMP1644200B00L	WWC*56	11/05/91	11/05/91	819	11/12/91	11/22/91	JWC
SMP1644200C00L	WWC*57	11/05/91	11/05/91	487	11/12/91	11/22/91	JWC
MP1648100A00L	WWC*58	11/05/91	11/05/91	396	11/12/91	11/22/91	JWC
MP1648100B00L	WWC*59	11/05/91	11/05/91	397	11/12/91	11/22/91	JWC
SMP1648100C00L	WWC*60	11/05/91	11/05/91	504 J	11/12/91	11/22/91	JWC
SMP1648200A00L	WWC*61	11/05/91	11/05/91	1470	11/12/91	11/22/91	JWC
MP1648200B00L	WWC*62	11/05/91	11/05/91	569	11/12/91	11/22/91	JWC
MP1648200C00L	WWC*63	11/05/91	11/05/91	316	11/12/91	11/22/91	JWC
SOL1601100A00L	WWC*64	11/05/91	11/05/91	498	11/12/91	11/22/91	JWC
SOL1601100B00L	WWC*65	11/05/91	11/05/91	297	11/12/91	11/22/91	JWC
SOL1601100C00L	WWC*66	11/05/91	11/05/91	105	11/12/91	11/22/91	JWC
SOL1601200A00L	WWC*67	11/05/91	11/05/91	398	11/12/91	11/22/91	JWC
SOL1601200B00L	WWC*68	11/05/91	11/05/91	378	11/12/91	11/22/91	JWC
SOL1601200C00L	WWC*69	11/05/91	11/05/91	83.7	11/12/91	11/22/91	JWC
SOL1625100A00L	WWC*70	11/05/91	11/05/91	126	11/12/91	11/22/91	JWC
SOL1625100B00L	WWC*71	11/05/91	11/05/91	41.8	11/12/91	11/22/91	JWC
SOL1625100C00L	WWC*72	11/05/91	11/05/91	246	11/12/91	11/22/91	JWC
SOL1625200A00L	WWC*73	11/05/91	11/05/91	665	11/12/91	11/22/91	JWC
SOL1625200B00L	WWC*74	11/05/91	11/05/91	447	11/12/91	11/22/91	JWC
SOL1625200C00L	WWC*75	11/05/91	11/05/91	2600	11/12/91	11/22/91	JWC
SOL1629100A00L	WWC*76	11/05/91	11/05/91	560	11/12/91	11/22/91	JWC
SOL1629100B00L	WWC*77	11/05/91	11/05/91	328	11/12/91	11/22/91	JWC
SOL1629100C00L	WWC*78	11/05/91	11/05/91	80.4	11/12/91	11/22/91	JWC
SOL1629200A00L	WWC*79	11/05/91	11/05/91	344	11/12/91	11/22/91	JWC
SOL1629200B00L	WWC*80	11/05/91	11/05/91	238 J	11/12/91	11/22/91	JWC
SOL1629200C00L	WWC*81	11/05/91	11/05/91	125	11/15/91	11/25/91	JWC
SMP1730100A00L	WWC*82	11/05/91	11/05/91	979	11/15/91	11/25/91	JWC
SMP1730100B00L	WWC*83	11/05/91	11/05/91	831	11/15/91	11/25/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1365 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1730100B00L	WWC*83	11/05/91	11/05/91	831	11/15/91	11/25/91	JWC
SMP1730100C00L	WWC*84	11/05/91	11/05/91	774	11/15/91	11/25/91	JWC
SMP1730200A00L	WWC*85	11/05/91	11/05/91	475	11/15/91	11/25/91	JWC
SMP1730200B00L	WWC*86	11/05/91	11/05/91	266	11/15/91	11/25/91	JWC
SMP1730200C00L	WWC*87	11/05/91	11/05/91	159	11/15/91	11/25/91	JWC
SMP1738100A00L	WWC*88	11/05/91	11/05/91	339	11/15/91	11/25/91	JWC
SMP1738100B00L	WWC*89	11/05/91	11/05/91	284	11/15/91	11/25/91	JWC
SMP1738100C00L	WWC*90	11/05/91	11/05/91	370	11/15/91	11/25/91	JWC
SMP1738200A00L	WWC*91	11/05/91	11/05/91	303	11/15/91	11/25/91	JWC
SMP1738200B00L	WWC*92	11/05/91	11/05/91	997	11/15/91	11/25/91	JWC
SMP1738200C00L	WWC*93	11/05/91	11/05/91	277	11/15/91	11/25/91	JWC
SMP1739100A00L	WWC*94	11/05/91	11/05/91	569	11/15/91	11/25/91	JWC
SMP1739100B00L	WWC*95	11/05/91	11/05/91	179	11/15/91	11/25/91	JWC
SMP1739100C00L	WWC*96	11/05/91	11/05/91	104	11/15/91	11/25/91	JWC
SMP1739200A00L	WWC*97	11/05/91	11/05/91	340	11/15/91	11/25/91	JWC
SMP1739200B00L	WWC*98	11/05/91	11/05/91	126	11/15/91	11/25/91	JWC
SMP1739200C00L	WWC*99	11/05/91	11/05/91	181	11/15/91	11/25/91	JWC
SMP1741100A00L	WWC*100	11/05/91	11/05/91	392	11/15/91	11/25/91	JWC
SMP1741100B00L	WWC*101	11/05/91	11/05/91	242	11/14/91	11/26/91	JWC
SMP1741100C00L	WWC*102	11/05/91	11/05/91	86.3	11/14/91	11/26/91	JWC
SMP1741200A00L	WWC*103	11/05/91	11/05/91	477	11/14/91	11/26/91	JWC
SMP1741200B00L	WWC*104	11/05/91	11/05/91	452	11/14/91	11/26/91	JWC
SMP1741200C00L	WWC*105	11/05/91	11/05/91	312	11/14/91	11/26/91	JWC
SMP1742100A00L	WWC*106	11/05/91	11/05/91	341	11/14/91	11/26/91	JWC
SMP1742100B00L	WWC*107	11/05/91	11/05/91	305	11/14/91	11/26/91	JWC
SMP1742100C00L	WWC*108	11/05/91	11/05/91	142	11/14/91	11/26/91	JWC
SMP1742200A00L	WWC*109	11/05/91	11/05/91	180	11/14/91	11/26/91	JWC
SMP1742200B00L	WWC*110	11/05/91	11/05/91	105	11/14/91	11/26/91	JWC
SMP1742200C00L	WWC*111	11/05/91	11/05/91	75.8	11/14/91	11/26/91	JWC
SMP1747100A00L	WWC*112	11/05/91	11/05/91	351	11/14/91	11/26/91	JWC
SMP1747100B00L	WWC*113	11/05/91	11/05/91	276	11/14/91	11/26/91	JWC
SMP1747100C00L	WWC*114	11/05/91	11/05/91	137	11/14/91	11/26/91	JWC
SMP1747200A00L	WWC*115	11/05/91	11/05/91	461	11/14/91	11/26/91	JWC
SMP1747200B00L	WWC*116	11/05/91	11/05/91	439	11/14/91	11/26/91	JWC
SMP1747200C00L	WWC*117	11/05/91	11/05/91	342	11/14/91	11/26/91	JWC
SMP1744100A00L	WWC*118	11/06/91	11/06/91	503	11/14/91	11/26/91	JWC
SMP1744100B00L	WWC*119	11/06/91	11/06/91	373	11/26/91	12/02/91	JWC
SMP1744100C00L	WWC*120	11/06/91	11/06/91	205	11/14/91	11/26/91	JWC
SMP1744200A00L	WWC*121	11/06/91	11/06/91	435	11/15/91	11/25/91	JWC
SMP1744200B00L	WWC*122	11/06/91	11/06/91	392	11/15/91	11/25/91	JWC
SMP1744200C00L	WWC*123	11/06/91	11/06/91	303	11/15/91	11/25/91	JWC
SOL1712100A00L	WWC*124	11/06/91	11/06/91	353	11/15/91	11/25/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SOL1712100A00L	WWC*124	11/06/91	11/06/91	353	11/15/91	11/25/91	JWC
SOL1712100B00L	WWC*125	11/06/91	11/06/91	216	11/15/91	11/25/91	JWC
SOL1712100C00L	WWC*126	11/06/91	11/06/91	127	11/15/91	11/25/91	JWC
SOL1712200A00L	WWC*127	11/06/91	11/06/91	659	11/15/91	11/25/91	JWC
SOL1712200B00L	WWC*128	11/06/91	11/06/91	335	11/15/91	11/25/91	JWC
SOL1712200C00L	WWC*129	11/06/91	11/06/91	279	11/15/91	11/25/91	JWC
SOL1713100A00L	WWC*130	11/06/91	11/06/91	417	11/15/91	11/25/91	JWC
SOL1713100B00L	WWC*131	11/06/91	11/06/91	356	11/15/91	11/25/91	JWC
SOL1713100C00L	WWC*132	11/06/91	11/06/91	88.8	11/15/91	11/25/91	JWC
SOL1713200A00L	WWC*133	11/06/91	11/06/91	323	11/15/91	11/25/91	JWC
SOL1713200B00L	WWC*134	11/06/91	11/06/91	235	11/15/91	11/25/91	JWC
SOL1713200C00L	WWC*135	11/06/91	11/06/91	51.6	11/15/91	11/25/91	JWC
SOL1717100A00L	WWC*136	11/06/91	11/06/91	454	11/15/91	11/25/91	JWC
717100A0LD	WWC*137	11/06/91	11/06/91	392	11/15/91	11/25/91	JWC
SOL1717100B00L	WWC*138	11/06/91	11/06/91	476	11/15/91	11/25/91	JWC
SOL1717100B0LD	WWC*139	11/06/91	11/06/91	486	11/15/91	11/25/91	JWC
SOL1717100C00L	WWC*140	11/06/91	11/06/91	189	11/15/91	11/25/91	JWC
SOL1717100C0LD	WWC*141	11/06/91	11/06/91	174	11/15/91	11/25/91	JWC
SOL1717200A00L	WWC*142	11/06/91	11/06/91	258	11/15/91	11/25/91	JWC
SOL1717200A0LM	WWC*143	11/06/91	11/06/91	267	11/15/91	11/25/91	JWC
SOL1717200A0LX	WWC*144	11/06/91	11/06/91	319	11/15/91	11/25/91	JWC
SOL1717200B00L	WWC*145	11/06/91	11/06/91	203	11/15/91	11/25/91	JWC
SOL1717200B0LM	WWC*146	11/06/91	11/06/91	280	11/15/91	11/25/91	JWC
SOL1717200B0LX	WWC*147	11/06/91	11/06/91	214	11/15/91	11/25/91	JWC
SOL1717200C00L	WWC*148	11/06/91	11/06/91	279	11/15/91	11/25/91	JWC
SOL1717200C0LM	WWC*149	11/06/91	11/06/91	240	11/15/91	11/25/91	JWC
SOL1717200C0LX	WWC*150	11/06/91	11/06/91	276	11/15/91	11/25/91	JWC
SOL1734100A00L	WWC*151	11/06/91	11/06/91	537	11/15/91	11/25/91	JWC
SOL1734100B00L	WWC*152	11/06/91	11/06/91	470	11/15/91	11/25/91	JWC
SOL1734100C00L	WWC*153	11/06/91	11/06/91	486	11/15/91	11/25/91	JWC
SOL1734200A00L	WWC*154	11/06/91	11/06/91	656	11/15/91	11/25/91	JWC
SOL1734200B00L	WWC*155	11/06/91	11/06/91	633	11/15/91	11/25/91	JWC
SOL1734200C00L	WWC*156	11/06/91	11/06/91	252	11/15/91	11/25/91	JWC
SOL1744100A00L	WWC*157	11/06/91	11/06/91	574	11/15/91	11/25/91	JWC
SOL1744100B00L	WWC*158	11/06/91	11/06/91	435	11/15/91	11/25/91	JWC
SOL1744100C00L	WWC*159	11/06/91	11/06/91	214	11/15/91	11/25/91	JWC
SOL1744200A00L	WWC*160	11/06/91	11/06/91	579	11/15/91	11/25/91	JWC
SOL1744200B00L	WWC*161	11/06/91	11/06/91	559	11/15/91	11/25/91	JWC
SOL1744200C00L	WWC*162	11/06/91	11/06/91	655	11/15/91	11/25/91	JWC
SOL1639100A00L	WWC*163	11/06/91	11/06/91	259	11/15/91	11/25/91	JWC
SOL1639100B00L	WWC*164	11/06/91	11/06/91	220	11/15/91	11/25/91	JWC
SOL1639100C00L	WWC*165	11/06/91	11/06/91	320	11/15/91	11/25/91	JWC

SOL1717100C0LD

Environmental Science & Engineering Inc.

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SOL1639100C00L	WWC*165	11/06/91	11/06/91	320	11/15/91	11/25/91	JWC
SOL1639200A00L	WWC*166	11/06/91	11/06/91	252	11/15/91	11/25/91	JWC
SOL1639200B00L	WWC*167	11/06/91	11/06/91	251	11/15/91	11/25/91	JWC
SOL1639200C00L	WWC*168	11/06/91	11/06/91	87.5	11/15/91	11/25/91	JWC
SOL1634100A00L	WWC*169	11/06/91	11/06/91	887	11/15/91	11/25/91	JWC
SOL1634100B00L	WWC*170	11/06/91	11/06/91	634	11/15/91	11/25/91	JWC
SOL1634100C00L	WWC*171	11/06/91	11/06/91	199	11/15/91	11/25/91	JWC
SOL1634200A00L	WWC*172	11/06/91	11/06/91	464	11/15/91	11/25/91	JWC
SOL1634200B00L	WWC*173	11/06/91	11/06/91	429	11/15/91	11/25/91	JWC
SOL1634200C00L	WWC*174	11/06/91	11/06/91	2140	11/15/91	11/25/91	JWC
SOL1636100A00L	WWC*175	11/06/91	11/06/91	678	11/15/91	11/25/91	JWC
SOL1636100B00L	WWC*176	11/06/91	11/06/91	361	11/15/91	11/25/91	JWC
SOL1636100C00L	WWC*177	11/06/91	11/06/91	229	11/15/91	11/25/91	JWC
SOL1636200A00L	WWC*178	11/06/91	11/06/91	474	11/15/91	11/25/91	JWC
SOL1636200B00L	WWC*179	11/06/91	11/06/91	1100	11/15/91	11/25/91	JWC
SOL1636200C00L	WWC*180	11/06/91	11/06/91	346	11/15/91	11/25/91	JWC
SOL1638100A00L	WWC*181	11/06/91	11/06/91	756	11/15/91	11/25/91	JWC
SOL1638100B00L	WWC*182	11/06/91	11/06/91	575	11/15/91	11/25/91	JWC
SOL1638100C00L	WWC*183	11/06/91	11/06/91	332	11/15/91	11/25/91	JWC
SOL1640100A00L	WWC*184	11/06/91	11/06/91	425	11/15/91	11/25/91	JWC
SOL1640100B00L	WWC*185	11/06/91	11/06/91	273	11/15/91	11/25/91	JWC
SOL1640100C00L	WWC*186	11/06/91	11/06/91	141	11/15/91	11/25/91	JWC
SOL1640200A00L	WWC*187	11/06/91	11/06/91	458	11/15/91	11/25/91	JWC
SOL1640200B00L	WWC*188	11/06/91	11/06/91	88.1	11/15/91	11/25/91	JWC
SOL1640200C00L	WWC*189	11/06/91	11/06/91	83.3	11/15/91	11/25/91	JWC
SCH1731100A00L	WWC*190	11/06/91	11/06/91	592	11/15/91	11/25/91	JWC
SCH1731100B00L	WWC*191	11/06/91	11/06/91	498	11/15/91	11/25/91	JWC
SCH1731100C00L	WWC*192	11/06/91	11/06/91	263	11/15/91	11/25/91	JWC
SCH1731200A00L	WWC*193	11/06/91	11/06/91	1260	11/15/91	11/25/91	JWC
SCH1731200B00L	WWC*194	11/06/91	11/06/91	1000	11/15/91	11/25/91	JWC
SCH1731200C00L	WWC*195	11/06/91	11/06/91	665	11/15/91	11/25/91	JWC
SCH1735100A00L	WWC*196	11/06/91	11/06/91	407	11/15/91	11/25/91	JWC
SCH1735100B00L	WWC*197	11/06/91	11/06/91	287	11/15/91	11/25/91	JWC
SCH1735100C00L	WWC*198	11/06/91	11/06/91	211	11/15/91	11/25/91	JWC
SCH1735200A00L	WWC*199	11/06/91	11/06/91	420	11/15/91	11/25/91	JWC
SCH1735200B00L	WWC*200	11/06/91	11/06/91	396	11/15/91	11/25/91	JWC
SCH1735200C00L	WWC*201	11/06/91	11/06/91	222	11/21/91	11/27/91	JWC
SCH1739100A00L	WWC*202	11/06/91	11/06/91	821	11/21/91	11/27/91	JWC
SCH1739100B00L	WWC*203	11/06/91	11/06/91	559	11/21/91	11/27/91	JWC
SCH1739100C00L	WWC*204	11/06/91	11/06/91	200	11/21/91	11/27/91	JWC
SCH1739200A00L	WWC*205	11/06/91	11/06/91	774	11/21/91	11/27/91	JWC
SCH1739200B00L	WWC*206	11/06/91	11/06/91	633	11/21/91	11/27/91	JWC

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
CH1739200B00L	WWC#206	11/06/91	11/06/91	633	11/21/91	11/27/91	JWC
CH1739200C00L	WWC#207	11/06/91	11/06/91	261	11/21/91	11/27/91	JWC
CH1728100A00L	WWC#208	11/06/91	11/06/91	500	11/21/91	11/27/91	JWC
SCH1728100B00L	WWC#209	11/06/91	11/06/91	208	11/21/91	11/27/91	JWC
CH1728100C00L	WWC#210	11/06/91	11/06/91	412	11/21/91	11/27/91	JWC
CH1728200A00L	WWC#211	11/06/91	11/06/91	305	11/21/91	11/27/91	JWC
SCH1728200B00L	WWC#212	11/06/91	11/06/91	317	11/21/91	11/27/91	JWC
SCH1728200C00L	WWC#213	11/06/91	11/06/91	96.3	11/21/91	11/27/91	JWC
SP1648100A00L	WWC#214	11/07/91	11/07/91	271	11/21/91	11/27/91	JWC
SP1648100B00L	WWC#215	11/07/91	11/07/91	170	11/21/91	11/27/91	JWC
SSP1648100C00L	WWC#216	11/07/91	11/07/91	44.0	11/21/91	11/27/91	JWC
SSP1648200A00L	WWC#217	11/07/91	11/07/91	422	11/21/91	11/27/91	JWC
SP1648200B00L	WWC#218	11/07/91	11/07/91	283	11/21/91	11/27/91	JWC
SP1648200C00L	WWC#219	11/07/91	11/07/91	104	11/21/91	11/27/91	JWC
SSP1638100A00L	WWC#220	11/07/91	11/07/91	390	11/21/91	11/27/91	JWC
SSP1638100B00L	WWC#221	11/07/91	11/07/91	250	11/21/91	11/27/91	JWC
SP1638100C00L	WWC#222	11/07/91	11/07/91	24.4	11/21/91	11/27/91	JWC
SP1638200A00L	WWC#223	11/07/91	11/07/91	255	11/21/91	11/27/91	JWC
SSP1638200B00L	WWC#224	11/07/91	11/07/91	433	11/21/91	11/27/91	JWC
SSP1638200C00L	WWC#225	11/07/91	11/07/91	860	11/21/91	11/27/91	JWC
SP1626100A00L	WWC#226	11/07/91	11/07/91	1520	11/21/91	11/27/91	JWC
SP1626100B00L	WWC#227	11/07/91	11/07/91	194	11/21/91	11/27/91	JWC
SSP1626100C00L	WWC#228	11/07/91	11/07/91	66.6	11/21/91	11/27/91	JWC
SP1626200A00L	WWC#229	11/07/91	11/07/91	277	11/21/91	11/27/91	JWC
SP1626200B00L	WWC#230	11/07/91	11/07/91	240	11/21/91	11/27/91	JWC
SP1626200C00L	WWC#231	11/07/91	11/07/91	118	11/21/91	11/27/91	JWC
SSP1634100A00L	WWC#232	11/07/91	11/07/91	387	11/21/91	11/27/91	JWC
SP1634100B00L	WWC#233	11/07/91	11/07/91	404	11/21/91	11/27/91	JWC
SP1634100C00L	WWC#234	11/07/91	11/07/91	40.9	11/21/91	11/27/91	JWC
SP1634200A00L	WWC#235	11/07/91	11/07/91	653	11/21/91	11/27/91	JWC
SSP1634200B00L	WWC#236	11/07/91	11/07/91	741	11/21/91	11/27/91	JWC
SP1634200C00L	WWC#237	11/07/91	11/07/91	5.83	11/21/91	11/27/91	JWC
CH1719100A00L	WWC#238	11/07/91	11/07/91	314	11/21/91	11/27/91	JWC
SCH1719100B00L	WWC#239	11/07/91	11/07/91	5.38	11/21/91	11/27/91	JWC
SCH1719100C00L	WWC#240	11/07/91	11/07/91	182	11/21/91	11/27/91	JWC
CH1719200A00L	WWC#241	11/07/91	11/07/91	485	11/21/91	11/27/91	JWC
CH1719200B00L	WWC#242	11/07/91	11/07/91	338	11/21/91	11/27/91	JWC
SCH1719200C00L	WWC#243	11/07/91	11/07/91	344	11/21/91	11/27/91	JWC
SCH1714100A00L	WWC#244	11/07/91	11/07/91	610	11/21/91	11/27/91	JWC
CH1714100B00L	WWC#245	11/07/91	11/07/91	347	11/21/91	11/27/91	JWC
CH1714100C00L	WWC#246	11/07/91	11/07/91	539	11/21/91	11/27/91	JWC
SCH1714200A00L	WWC#247	11/07/91	11/07/91	714	11/21/91	11/27/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1055 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCH1714200A00L	WWC*247	11/07/91	11/07/91	714	11/21/91	11/27/91	JWC
SCH1714200B00L	WWC*248	11/07/91	11/07/91	598	11/21/91	11/27/91	JWC
SCH1714200C00L	WWC*249	11/07/91	11/07/91	237	11/21/91	11/27/91	JWC
SCH1718100A00L	WWC*250	11/07/91	11/07/91	13.4	11/21/91	11/27/91	JWC
SCH1718100B00L	WWC*251	11/07/91	11/07/91	13.0	11/21/91	11/27/91	JWC
SCH1718100C00L	WWC*252	11/07/91	11/07/91	74.2	11/21/91	11/27/91	JWC
SCH1718200A0LM	WWC*253	11/07/91	11/07/91	15.7	11/21/91	11/27/91	JWC
SCH1718200B0LM	WWC*254	11/07/91	11/07/91	41.4	11/21/91	11/27/91	JWC
SCH1718200C0LM	WWC*255	11/07/91	11/07/91	52.7	11/21/91	11/27/91	JWC
SCH1718200A0LX	WWC*256	11/07/91	11/07/91	20.8	11/21/91	11/27/91	JWC
SCH1718200B0LX	WWC*257	11/07/91	11/07/91	20.6	11/21/91	11/27/91	JWC
SCH1718200C0LX	WWC*258	11/07/91	11/07/91	114	11/21/91	11/27/91	JWC
SCH1718200A00L	WWC*259	11/07/91	11/07/91	16.1	11/21/91	11/27/91	JWC
SCH1718200B00L	WWC*260	11/07/91	11/07/91	56.3	11/21/91	11/27/91	JWC
SCH1718200C00L	WWC*261	11/07/91	11/07/91	80.3	11/21/91	11/27/91	JWC
SCH1715100A00L	WWC*262	11/07/91	11/07/91	598	11/21/91	11/27/91	JWC
SCH1715100B00L	WWC*263	11/07/91	11/07/91	311	11/21/91	11/27/91	JWC
SCH1715100C00L	WWC*264	11/07/91	11/07/91	234	11/21/91	11/27/91	JWC
SCH1715200A0LM	WWC*265	11/07/91	11/07/91	766	11/21/91	11/27/91	JWC
SCH1715200A0LX	WWC*266	11/07/91	11/07/91	721	11/21/91	11/27/91	JWC
SCH1715200B0LM	WWC*267 B	11/07/91	11/07/91	634	11/21/91	11/27/91	JWC
SCH1715200A0LX	WWC*268	11/07/91	11/07/91	612	11/21/91	11/27/91	JWC
SCH1715200C0LM	WWC*269	11/07/91	11/07/91	1720	11/21/91	11/27/91	JWC
SCH1715200C0LX	WWC*270	11/07/91	11/07/91	1390	11/21/91	11/27/91	JWC
SCH1715200A00L	WWC*271	11/07/91	11/07/91	644	11/21/91	11/27/91	JWC
SCH1715200B00L	WWC*272	11/07/91	11/07/91	852	11/21/91	11/27/91	JWC
SCH1715200C00L	WWC*273	11/07/91	11/07/91	2920	11/21/91	11/27/91	JWC
SCH1719100A0LD	WWC*274 LD	11/07/91	11/07/91	330	11/21/91	11/27/91	JWC
SCH1719100B0LD	WWC*275	11/07/91	11/07/91	251	11/21/91	11/27/91	JWC
SCH1719100C0LD	WWC*276	11/07/91	11/07/91	118	11/21/91	11/27/91	JWC
SCH1714100A0LD	WWC*277	11/07/91	11/07/91	598	11/21/91	11/27/91	JWC
SCH1714100B0LD	WWC*278	11/07/91	11/07/91	653	11/21/91	11/27/91	JWC
SCH1714100C0LD	WWC*279	11/07/91	11/07/91	485	11/21/91	11/27/91	JWC
SOL1719100A00L	WWC*280	11/11/91	11/11/91	508	11/21/91	11/27/91	JWC
SOL1719100B00L	WWC*281	11/11/91	11/11/91	383	11/21/91	11/27/91	JWC
SOL1719100C00L	WWC*282	11/11/91	11/11/91	206	11/21/91	11/27/91	JWC
SOL1719100A0LD	WWC*283	11/11/91	11/11/91	770	11/21/91	11/27/91	JWC
SOL1719100B0LD	WWC*284	11/11/91	11/11/91	365	11/21/91	11/27/91	JWC
SOL1719100C0LD	WWC*285	11/11/91	11/11/91	204	11/21/91	11/27/91	JWC
SOL1719200A00L	WWC*286	11/11/91	11/11/91	302	11/21/91	11/27/91	JWC
SOL1719200B00L	WWC*287	11/11/91	11/11/91	333	11/21/91	11/27/91	JWC
SOL1719200C00L	WWC*288	11/11/91	11/11/91	166	11/21/91	11/27/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SOL1719200C00L	WWC*288	11/11/91	11/11/91	166	11/21/91	11/27/91	JWC
OL1719200A0LM	WWC*289	11/11/91	11/11/91	351	11/21/91	11/27/91	JWC
SOL1719200A0LX	WWC*290	11/11/91	11/11/91	307	11/21/91	11/27/91	JWC
SOL1719200B0LM	WWC*291	11/11/91	11/11/91	312	11/21/91	11/27/91	JWC
OL1719200B0LX	WWC*292	11/11/91	11/11/91	322	11/21/91	11/27/91	JWC
OL1719200C0LM	WWC*293	11/11/91	11/11/91	152	11/21/91	11/27/91	JWC
SOL1719200C0LX	WWC*294	11/11/91	11/11/91	167	11/21/91	11/27/91	JWC
SOL1721100A00L	WWC*295	11/11/91	11/11/91	369	11/21/91	11/27/91	JWC
OL1721100B00L	WWC*296	11/11/91	11/11/91	444	11/21/91	11/27/91	JWC
OL1721100C00L	WWC*297	11/11/91	11/11/91	153	11/21/91	11/27/91	JWC
SOL1721200A00L	WWC*298	11/11/91	11/11/91	1370	11/21/91	11/27/91	JWC
SOL1721200B00L	WWC*299	11/11/91	11/11/91	1350	11/21/91	11/27/91	JWC
OL1721200C00L	WWC*300	11/11/91	11/11/91	654 J	11/21/91	11/27/91	JWC
OL1720100A00L	WWC*301	11/11/91	11/11/91	175	11/21/91	11/27/91	JWC
SOL1720100B00L	WWC*302	11/11/91	11/11/91	415	11/21/91	11/27/91	JWC
SOL1720100C00L	WWC*303	11/11/91	11/11/91	712	11/21/91	11/27/91	JWC
OL1720200A00L	WWC*304	11/11/91	11/11/91	114	11/21/91	11/27/91	JWC
OL1720200B00L	WWC*305	11/11/91	11/11/91	426	11/21/91	11/27/91	JWC
SOL1720200C00L	WWC*306	11/11/91	11/11/91	424	11/21/91	11/27/91	JWC
SSP1732100A00L	WWC*307	11/11/91	11/11/91	637	11/21/91	11/27/91	JWC
SP1732100B00L	WWC*308	11/11/91	11/11/91	557	11/21/91	11/27/91	JWC
SP1732100C00L	WWC*309	11/11/91	11/11/91	482	11/21/91	11/27/91	JWC
SSP1732200A00L	WWC*310	11/11/91	11/11/91	469	11/21/91	11/27/91	JWC
SSP1732200B00L	WWC*311	11/11/91	11/11/91	434	11/21/91	11/27/91	JWC
SP1732200C00L	WWC*312	11/11/91	11/11/91	216	11/21/91	11/27/91	JWC
SSP1732200A0LM	WWC*313	11/11/91	11/11/91	421	11/21/91	11/27/91	JWC
SSP1732200A0LX	WWC*314	11/11/91	11/11/91	431	11/21/91	11/27/91	JWC
SSP1732200B0LM	WWC*315	11/11/91	11/11/91	333	11/21/91	11/27/91	JWC
SP1732200B0LX	WWC*316	11/11/91	11/11/91	349	11/21/91	11/27/91	JWC
SSP1732200C0LM	WWC*317	11/11/91	11/11/91	302	11/21/91	11/27/91	JWC
SSP1732200C0LX	WWC*318	11/11/91	11/11/91	328	11/21/91	11/27/91	JWC
SSP1754100A00L	WWC*319	11/11/91	11/11/91	309	11/21/91	11/27/91	JWC
SP1754100B00L	WWC*320	11/11/91	11/11/91	221	11/21/91	11/27/91	JWC
SSP1754100C00L	WWC*321	11/11/91	11/11/91	100.0	11/21/91	11/27/91	JWC
SSP1754200A00L	WWC*322	11/11/91	11/11/91	463	11/21/91	11/27/91	JWC
SP1754200B00L	WWC*323	11/11/91	11/11/91	254	11/21/91	11/27/91	JWC
SP1754200C00L	WWC*324	11/11/91	11/11/91	88.3	11/21/91	11/27/91	JWC
SSP1754200A0LD	WWC*325	11/11/91	11/11/91	306	11/21/91	11/27/91	JWC
SSP1754200B0LD	WWC*326	11/11/91	11/11/91	292	11/21/91	11/27/91	JWC
SP1754200C0LD	WWC*327	11/11/91	11/11/91	217	11/21/91	11/27/91	JWC
SP1744100A00L	WWC*328	11/11/91	11/11/91	282	11/21/91	11/27/91	JWC
SSP1744100B00L	WWC*329	11/11/91	11/11/91	260	11/21/91	11/27/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SSP1744100B00L	WWC*329	11/11/91	11/11/91	260	11/21/91	11/27/91	JWC
SP1744100C00L	WWC*330	11/11/91	11/11/91	230	11/21/91	11/27/91	JWC
SP1744100A0LD	WWC*331	11/11/91	11/11/91	236	11/21/91	11/27/91	JWC
SSP1744100B0LD	WWC*332	11/11/91	11/11/91	289	11/21/91	11/27/91	JWC
SP1744100C0LD	WWC*333	11/11/91	11/11/91	207	11/21/91	11/27/91	JWC
SP1744200A00L	WWC*334	11/11/91	11/11/91	268	11/21/91	11/27/91	JWC
SP1744200B00L	WWC*335	11/11/91	11/11/91	263	11/21/91	11/27/91	JWC
SSP1744200C00L	WWC*336	11/11/91	11/11/91	235	11/21/91	11/27/91	JWC
MP1607100A00L	WWC*337	11/11/91	11/11/91	460	11/21/91	11/27/91	JWC
MP1607100B00L	WWC*338	11/11/91	11/11/91	342	11/21/91	11/27/91	JWC
SMP1607100C00L	WWC*339	11/11/91	11/11/91	88.4	11/21/91	11/27/91	JWC
SMP1607200A00L	WWC*340	11/11/91	11/11/91	578	11/21/91	11/27/91	JWC
MP1607200B00L	WWC*341	11/11/91	11/11/91	436	11/21/91	11/26/91	JWC
MP1607200C00L	WWC*342	11/11/91	11/11/91	307	11/21/91	11/26/91	JWC
SCL1642100A00L	WWC*343	11/11/91	11/11/91	1220	11/21/91	11/26/91	JWC
SCL1642100B00L	WWC*344	11/11/91	11/11/91	1180	11/21/91	11/26/91	JWC
CL1642100C00L	WWC*345	11/11/91	11/11/91	1700	11/21/91	11/26/91	JWC
CL1642200A00L	WWC*346	11/11/91	11/11/91	1010	11/21/91	11/26/91	JWC
SCL1642200B00L	WWC*347	11/11/91	11/11/91	995	11/21/91	11/26/91	JWC
SCL1642200C00L	WWC*348	11/11/91	11/11/91	763	11/21/91	11/26/91	JWC
DE1624100A00L	WWC*349	11/11/91	11/11/91	1460	11/21/91	11/26/91	JWC
DE1624100B00L	WWC*350	11/11/91	11/11/91	830	11/21/91	11/26/91	JWC
SDE1624100C00L	WWC*351	11/11/91	11/11/91	690	11/21/91	11/26/91	JWC
SDE1624200A00L	WWC*352	11/11/91	11/11/91	2570	11/21/91	11/26/91	JWC
DE1624200B00L	WWC*353	11/11/91	11/11/91	2950	11/21/91	11/26/91	JWC
DE1624200C00L	WWC*354	11/11/91	11/11/91	983	11/21/91	11/26/91	JWC
SCH1747200A00L	WWC*355	11/11/91	11/11/91	816	11/21/91	11/26/91	JWC
SCH1747200B00L	WWC*356	11/11/91	11/11/91	508	11/21/91	11/26/91	JWC
CH1747200C00L	WWC*357	11/11/91	11/11/91	342	11/21/91	11/26/91	JWC
CH1747100A00L	WWC*358	11/11/91	11/11/91	455	11/21/91	11/26/91	JWC
SCH1747100B00L	WWC*359	11/11/91	11/11/91	372	11/21/91	11/26/91	JWC
CH1747100C00L	WWC*360	11/11/91	11/11/91	219	11/21/91	11/26/91	JWC
CH1743100A00L	WWC*361	11/11/91	11/11/91	544	11/21/91	11/26/91	JWC
CH1743100B00L	WWC*362	11/11/91	11/11/91	250	11/21/91	11/26/91	JWC
SCH1743100C00L	WWC*363	11/11/91	11/11/91	150	11/21/91	11/26/91	JWC
CH1743200A00L	WWC*364	11/11/91	11/11/91	326	11/21/91	11/26/91	JWC
CH1743200B00L	WWC*365	11/11/91	11/11/91	503	11/21/91	11/26/91	JWC
SCH1743200C00L	WWC*366	11/11/91	11/11/91	64.8	11/21/91	11/26/91	JWC
SCH1750100A00L	WWC*367	11/11/91	11/11/91	505	11/21/91	11/26/91	JWC
CH1750100A0LD	WWC*368	11/11/91	11/11/91	507	11/21/91	11/26/91	JWC
CH1750100B00L	WWC*369	11/11/91	11/11/91	407	11/21/91	11/26/91	JWC
SCH1750100B0LD	WWC*370	11/11/91	11/11/91	379	11/21/91	11/26/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1005 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCH1750100B0LD	WWC*370	11/11/91	11/11/91	379	11/21/91	11/26/91	JWC
SCH1750100C00L	WWC*371	11/11/91	11/11/91	194	11/21/91	11/26/91	JWC
SCH1750100C0LD	WWC*372	11/11/91	11/11/91	160	11/21/91	11/26/91	JWC
SCH1750200A00L	WWC*373	11/11/91	11/11/91	553	11/21/91	11/26/91	JWC
SCH1750200A0LM	WWC*374	11/11/91	11/11/91	568	11/21/91	11/26/91	JWC
SCH1750200A0LX	WWC*375	11/11/91	11/11/91	565	11/21/91	11/26/91	JWC
SCH1750200B00L	WWC*376	11/11/91	11/11/91	411	11/21/91	11/26/91	JWC
SCH1750200B0LM	WWC*377	11/11/91	11/11/91	376	11/21/91	11/26/91	JWC
SCH1750200B0LX	WWC*378	11/11/91	11/11/91	463	11/21/91	11/26/91	JWC
SCH1750200C0LM	WWC*379	11/11/91	11/11/91	451	11/21/91	11/26/91	JWC
SCH1750200C0LX	WWC*380	11/11/91	11/11/91	424	11/21/91	11/26/91	JWC
SCH1750200C00L	WWC*381	11/11/91	11/11/91	456	11/21/91	11/26/91	JWC
SCH1723100A00L	WWC*382	11/11/91	11/11/91	337	11/21/91	11/26/91	JWC
SCH1723100A0LD	WWC*383	11/11/91	11/11/91	311	11/21/91	11/26/91	JWC
SCH1723100B00L	WWC*384	11/11/91	11/11/91	371	11/21/91	11/26/91	JWC
SCH1723100B0LD	WWC*385	11/11/91	11/11/91	357	11/21/91	11/26/91	JWC
SCH1723100C00L	WWC*386	11/11/91	11/11/91	422	11/21/91	11/26/91	JWC
SCH1723100C0LD	WWC*387	11/11/91	11/11/91	341	11/21/91	11/26/91	JWC
SCH1723200A00L	WWC*388	11/11/91	11/11/91	413	11/21/91	11/26/91	JWC
SCH1723200B00L	WWC*389	11/11/91	11/11/91	392	11/21/91	11/26/91	JWC
SCH1723200C00L	WWC*390	11/11/91	11/11/91	256	11/21/91	11/26/91	JWC
SNI0821100A00L	WWC*391	11/11/91	11/11/91	440	11/21/91	11/26/91	JWC
SNI0821100A0LD	WWC*392	11/11/91	11/11/91	512	11/21/91	11/26/91	JWC
SNI0821100B00L	WWC*393	11/11/91	11/11/91	388	11/21/91	11/26/91	JWC
SNI0821100B0LD	WWC*394	11/11/91	11/11/91	295	11/21/91	11/26/91	JWC
SNI0821100C00L	WWC*395	11/11/91	11/11/91	367	11/21/91	11/26/91	JWC
SNI0821100C0LD	WWC*396	11/11/91	11/11/91	117	11/21/91	11/26/91	JWC
SNI0821200A00L	WWC*397	11/11/91	11/11/91	146	11/21/91	11/26/91	JWC
SNI0821200A0LM	WWC*398	11/11/91	11/11/91	526	11/21/91	11/26/91	JWC
SNI0821200A0LX	WWC*399	11/11/91	11/11/91	433	11/21/91	11/26/91	JWC
SNI0821200B00L	WWC*400	11/11/91	11/11/91	209	11/21/91	11/26/91	JWC
SNI0821200B0LM	WWC*401	11/11/91	11/11/91	286	11/21/91	11/26/91	JWC
SNI0821200B0LX	WWC*402	11/11/91	11/11/91	284	11/21/91	11/26/91	JWC
SNI0821200C00L	WWC*403	11/11/91	11/11/91	69.1	11/21/91	11/26/91	JWC
SNI0821200C0LM	WWC*404	11/11/91	11/11/91	71.8	11/21/91	11/26/91	JWC
SNI0821200C0LX	WWC*405	11/11/91	11/11/91	75.7	11/21/91	11/26/91	JWC
SNI0834100A00L	WWC*406	11/11/91	11/11/91	578	11/21/91	11/26/91	JWC
SNI0834100B00L	WWC*407	11/11/91	11/11/91	276	11/21/91	11/26/91	JWC
SNI0834100C00L	WWC*408	11/11/91	11/11/91	95.9	11/21/91	11/26/91	JWC
SNI0834200A00L	WWC*409	11/11/91	11/11/91	1110	11/21/91	11/26/91	JWC
SNI0834200B00L	WWC*410	11/11/91	11/11/91	560	11/21/91	11/26/91	JWC
SNI0834200C00L	WWC*411	11/11/91	11/11/91	203	11/21/91	11/26/91	JWC

Environmental Science & Engineering Inc

St Louis Chemistry Laboratory

1165 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
NI0834200C00L	WWC*411	11/11/91	11/11/91	203	11/21/91	11/26/91	JWC
WA1717100A00L	WWC*412	11/11/91	11/11/91	1520	11/21/91	11/26/91	JWC
SWA1717100B00L	WWC*413	11/11/91	11/11/91	1260	11/21/91	11/26/91	JWC
SWA1717100C00L	WWC*414	11/11/91	11/11/91	429	11/21/91	11/26/91	JWC
WA1717200A00L	WWC*415	11/11/91	11/11/91	693	11/21/91	11/26/91	JWC
WA1717200B00L	WWC*416	11/11/91	11/11/91	524	11/21/91	11/26/91	JWC
SWA1717200C00L	WWC*417	11/11/91	11/11/91	450	11/21/91	11/26/91	JWC
SWA1721100A00L	WWC*418	11/11/91	11/11/91	1420	11/21/91	11/26/91	JWC
WA1721100B00L	WWC*419	11/11/91	11/11/91	979	11/21/91	11/26/91	JWC
WA1721100C00L	WWC*420	11/11/91	11/11/91	157	11/21/91	11/26/91	JWC
SWA1721200A00L	WWC*421	11/11/91	11/11/91	1000	11/21/91	11/26/91	JWC
SWA1721200B00L	WWC*422	11/11/91	11/11/91	924	11/21/91	11/26/91	JWC
WA1721200C00L	WWC*423	11/11/91	11/11/91	168	11/21/91	11/26/91	JWC
BE1928100A00L	WWC*424	11/12/91	11/12/91	835	11/21/91	11/26/91	JWC
SBE1928100B00L	WWC*425	11/12/91	11/12/91	167	11/21/91	11/26/91	JWC
SBE1928100C00L	WWC*426	11/12/91	11/12/91	45.2	11/21/91	11/26/91	JWC
BE1928200A00L	WWC*427	11/12/91	11/12/91	404	11/21/91	11/26/91	JWC
BE1928200B00L	WWC*428	11/12/91	11/12/91	141	11/21/91	11/26/91	JWC
SBE1928200C00L	WWC*429	11/12/91	11/12/91	32.5	11/21/91	11/26/91	JWC
SBE1930100A00L	WWC*430	11/12/91	11/12/91	570	11/21/91	11/26/91	JWC
BE1930100B00L	WWC*431	11/12/91	11/12/91	459	11/21/91	11/26/91	JWC
BE1930100C00L	WWC*432	11/12/91	11/12/91	183	11/21/91	11/26/91	JWC
SBE1930200A00L	WWC*433	11/12/91	11/12/91	420	11/21/91	11/26/91	JWC
SBE1930200B00L	WWC*434	11/12/91	11/12/91	574	11/21/91	11/26/91	JWC
BE1930200C00L	WWC*435	11/12/91	11/12/91	136	11/21/91	11/26/91	JWC
BE1943100A00L	WWC*436	11/12/91	11/12/91	520	11/21/91	11/26/91	JWC
SBE1943100B00L	WWC*437	11/12/91	11/12/91	244	11/21/91	11/26/91	JWC
BE1943100C00L	WWC*438	11/12/91	11/12/91	43.0	11/21/91	11/26/91	JWC
BE1943200A00L	WWC*439	11/12/91	11/12/91	447	11/21/91	11/26/91	JWC
SBE1943200B00L	WWC*440	11/12/91	11/12/91	317	11/21/91	11/26/91	JWC
SBE1943200C00L	WWC*441	11/12/91	11/12/91	115	11/21/91	11/26/91	JWC
BE1939100A00L	WWC*442	11/12/91	11/12/91	409	11/21/91	11/26/91	JWC
BE1939100B00L	WWC*443	11/12/91	11/12/91	275	11/21/91	11/26/91	JWC
SBE1939100C00L	WWC*444	11/12/91	11/12/91	121	11/21/91	11/26/91	JWC
SBE1939200A00L	WWC*445	11/12/91	11/12/91	284	11/21/91	11/26/91	JWC
BE1939200B00L	WWC*446	11/12/91	11/12/91	434	11/21/91	11/26/91	JWC
BE1939200C00L	WWC*447	11/12/91	11/12/91	298	11/21/91	11/26/91	JWC
SBE1937100A00L	WWC*448	11/12/91	11/12/91	168	11/21/91	11/26/91	JWC
SBE1937100B00L	WWC*449	11/12/91	11/12/91	184	11/21/91	11/26/91	JWC
BE1937100C00L	WWC*450	11/12/91	11/12/91	135	11/21/91	11/26/91	JWC
BE1937200A00L	WWC*451	11/12/91	11/12/91	668	11/21/91	11/26/91	JWC
SBE1937200B00L	WWC*452	11/12/91	11/12/91	573	11/21/91	11/26/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE1937200B00L	WWC*452	11/12/91	11/12/91	573	11/21/91	11/26/91	JWC
BE1937200C00L	WWC*453	11/12/91	11/12/91	180	11/21/91	11/26/91	JWC
AD1942100A00L	WWC*454	11/12/91	11/12/91	476	11/21/91	11/26/91	JWC
AD1942100B00L	WWC*455	11/12/91	11/12/91	323	11/21/91	11/26/91	JWC
AD1942100C00L	WWC*456	11/12/91	11/12/91	51.1	11/21/91	11/26/91	JWC
AD1942200A00L	WWC*457	11/12/91	11/12/91	385	11/21/91	11/26/91	JWC
AD1942200B00L	WWC*458	11/12/91	11/12/91	357	11/21/91	11/26/91	JWC
SAD1942200C00L	WWC*459	11/12/91	11/12/91	113	11/21/91	11/26/91	JWC
AD1938100A00L	WWC*460	11/12/91	11/12/91	261	11/21/91	11/26/91	JWC
AD1938100B00L	WWC*461	11/12/91	11/12/91	249	11/21/91	11/26/91	JWC
SAD1938100C00L	WWC*462	11/12/91	11/12/91	74.9	11/21/91	11/26/91	JWC
SAD1938200A00L	WWC*463	11/12/91	11/12/91	388	11/21/91	11/26/91	JWC
AD1938200B00L	WWC*464	11/12/91	11/12/91	262	11/21/91	11/26/91	JWC
AD1938200C00L	WWC*465	11/12/91	11/12/91	47.0	11/21/91	11/26/91	JWC
SAD1930100A00L	WWC*466	11/12/91	11/12/91	365	11/21/91	11/26/91	JWC
SAD1930100B00L	WWC*467	11/12/91	11/12/91	109	11/21/91	11/26/91	JWC
AD1930100C00L	WWC*468	11/12/91	11/12/91	29.0	11/21/91	11/26/91	JWC
AD1930200A00L	WWC*469	11/12/91	11/12/91	305	11/21/91	11/26/91	JWC
SAD1930200B00L	WWC*470	11/12/91	11/12/91	313	11/21/91	11/26/91	JWC
SAD1930200C00L	WWC*471	11/12/91	11/12/91	151	11/21/91	11/26/91	JWC
CL1704100A00L	WWC*472	11/12/91	11/12/91	512	11/21/91	11/26/91	JWC
CL1704100B00L	WWC*473	11/12/91	11/12/91	250	11/21/91	11/26/91	JWC
CL1704100C00L	WWC*474	11/12/91	11/12/91	768	11/21/91	11/26/91	JWC
CL1704200A00L	WWC*475	11/12/91	11/12/91	110	11/21/91	11/26/91	JWC
CL1704200B00L	WWC*476	11/12/91	11/12/91	76.1	11/21/91	11/26/91	JWC
CL1704200C00L	WWC*477	11/12/91	11/12/91	307	11/21/91	11/26/91	JWC
SCL1708100A00L	WWC*478	11/12/91	11/12/91	1390	11/21/91	11/26/91	JWC
SCL1708100B00L	WWC*479	11/12/91	11/12/91	1110	11/21/91	11/26/91	JWC
CL1708100C00L	WWC*480	11/12/91	11/12/91	887	11/21/91	11/26/91	JWC
CL1708200A00L	WWC*481	11/12/91	11/12/91	102	11/26/91	12/02/91	JWC
SCL1708200B00L	WWC*482	11/12/91	11/12/91	846	11/26/91	12/02/91	JWC
CL1708200C00L	WWC*483	11/12/91	11/12/91	695	11/26/91	12/02/91	JWC
CL1710100A00L	WWC*484	11/12/91	11/12/91	1230	11/26/91	12/02/91	JWC
CL1710100B00L	WWC*485	11/12/91	11/12/91	432	11/26/91	12/02/91	JWC
SCL1710100C00L	WWC*486	11/12/91	11/12/91	152	11/26/91	12/02/91	JWC
CL1710200A00L	WWC*487	11/12/91	11/12/91	1350	11/26/91	12/02/91	JWC
CL1710200B00L	WWC*488	11/12/91	11/12/91	662	11/26/91	12/02/91	JWC
SCL1710200C00L	WWC*489	11/12/91	11/12/91	177	11/26/91	12/02/91	JWC
SDE1728100A00L	WWC*490	11/12/91	11/12/91	946	11/26/91	12/02/91	JWC
DE1728100B00L	WWC*491	11/12/91	11/12/91	557	11/26/91	12/02/91	JWC
DE1728100C00L	WWC*492	11/12/91	11/12/91	262	11/26/91	12/02/91	JWC
SDE1728200A00L	WWC*493	11/12/91	11/12/91	1340	11/26/91	12/02/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1728200A00L	WWC*493	11/12/91	11/12/91	1340	11/26/91	12/02/91	JWC
SDE1728200B00L	WWC*494	11/12/91	11/12/91	1080	11/26/91	12/02/91	JWC
SDE1728200C00L	WWC*495	11/12/91	11/12/91	295	11/26/91	12/02/91	JWC
SDE1717100A00L	WWC*496	11/12/91	11/12/91	1510	11/26/91	12/02/91	JWC
SDE1717100B00L	WWC*497	11/12/91	11/12/91	560	11/26/91	12/02/91	JWC
SDE1717100C00L	WWC*498	11/12/91	11/12/91	243	11/26/91	12/02/91	JWC
SDE1717200A00L	WWC*499	11/12/91	11/12/91	1130	11/26/91	12/02/91	JWC
SDE1717200B00L	WWC*500	11/12/91	11/12/91	708 J	11/26/91	12/02/91	JWC
SDE1717200C00L	WWC*501	11/12/91	11/12/91	211	11/26/91	12/02/91	JWC
SDE1704100A00L	WWC*502	11/12/91	11/12/91	1420	11/26/91	12/02/91	JWC
SDE1704100B00L	WWC*503	11/12/91	11/12/91	348	11/26/91	12/02/91	JWC
SDE1704100C00L	WWC*504	11/12/91	11/12/91	155	11/26/91	12/02/91	JWC
SDE1704200A00L	WWC*505	11/12/91	11/12/91	907	11/26/91	12/02/91	JWC
SDE1704200B00L	WWC*506	11/12/91	11/12/91	626	11/26/91	12/02/91	JWC
SDE1704200C00L	WWC*507	11/12/91	11/12/91	265	11/26/91	12/02/91	JWC
SDE1643100A00L	WWC*508	11/12/91	11/12/91	1150	11/26/91	12/02/91	JWC
SDE1643100B00L	WWC*509	11/12/91	11/12/91	279	11/26/91	12/02/91	JWC
SDE1643100C00L	WWC*510	11/12/91	11/12/91	46.7	11/26/91	12/02/91	JWC
SDE1643200A00L	WWC*511	11/12/91	11/12/91	1100	11/26/91	12/02/91	JWC
SDE1643200B00L	WWC*512	11/12/91	11/12/91	450	11/26/91	12/02/91	JWC
SDE1643200C00L	WWC*513	11/12/91	11/12/91	235	11/26/91	12/02/91	JWC
SDE1644100A00L	WWC*514	11/12/91	11/12/91	970	11/26/91	12/02/91	JWC
SDE1644100B00L	WWC*515	11/12/91	11/12/91	298	11/26/91	12/02/91	JWC
SDE1644100C00L	WWC*516	11/12/91	11/12/91	497	11/26/91	12/02/91	JWC
SDE1644200A00L	WWC*517	11/12/91	11/12/91	899	11/26/91	12/02/91	JWC
SDE1644200B00L	WWC*518	11/12/91	11/12/91	95.2	11/26/91	12/02/91	JWC
SDE1644200C00L	WWC*519	11/12/91	11/12/91	162	11/26/91	12/02/91	JWC
SDE1707100A00L	WWC*520	11/12/91	11/12/91	1460	11/26/91	12/02/91	JWC
SDE1707100B00L	WWC*521	11/12/91	11/12/91	96.6	11/26/91	12/02/91	JWC
SDE1707100C00L	WWC*522	11/12/91	11/12/91	169	11/26/91	12/02/91	JWC
SDE1707200A00L	WWC*523	11/12/91	11/12/91	1090	11/26/91	12/02/91	JWC
SDE1707200B00L	WWC*524	11/12/91	11/12/91	1280	11/26/91	12/02/91	JWC
SDE1707200C00L	WWC*525	11/12/91	11/12/91	463	11/26/91	12/02/91	JWC
SDE1703100A00L	WWC*526	11/12/91	11/12/91	956	11/26/91	12/02/91	JWC
SDE1703100B00L	WWC*527	11/12/91	11/12/91	826	11/26/91	12/02/91	JWC
SDE1703100C00L	WWC*528	11/12/91	11/12/91	397	11/26/91	12/02/91	JWC
SDE1703200A00L	WWC*529	11/12/91	11/12/91	1270	11/26/91	12/02/91	JWC
SDE1703200B00L	WWC*530	11/12/91	11/12/91	650	11/26/91	12/02/91	JWC
SDE1703200C00L	WWC*531	11/12/91	11/12/91	233	11/26/91	12/02/91	JWC
SED1704100A00L	WWC*532	11/13/91	11/13/91	2330	11/26/91	12/02/91	JWC
SED1704100B00L	WWC*533	11/13/91	11/13/91	434	11/26/91	12/02/91	JWC
SED1704100C00L	WWC*534	11/13/91	11/13/91	245	11/26/91	12/02/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
ED1704100C00L	WWC*534	11/13/91	11/13/91	245	11/26/91	12/02/91	JWC
ED1704200A00L	WWC*535	11/13/91	11/13/91	944	11/26/91	12/02/91	JWC
ED1704200B00L	WWC*536	11/13/91	11/13/91	776	11/26/91	12/02/91	JWC
ED1704200C00L	WWC*537	11/13/91	11/13/91	201	11/26/91	12/02/91	JWC
ED1715100A00L	WWC*538	11/13/91	11/13/91	1260	11/26/91	12/02/91	JWC
ED1715100B00L	WWC*539	11/13/91	11/13/91	1060	11/26/91	12/02/91	JWC
SED1715100C00L	WWC*540	11/13/91	11/13/91	422 J	11/26/91	12/02/91	JWC
SED1715200A00L	WWC*541	11/13/91	11/13/91	940	11/26/91	12/02/91	JWC
ED1715200B00L	WWC*542	11/13/91	11/13/91	1250	11/26/91	12/02/91	JWC
ED1715200C00L	WWC*543	11/13/91	11/13/91	452	11/26/91	12/02/91	JWC
SED1709100A00L	WWC*544	11/13/91	11/13/91	970	11/26/91	12/02/91	JWC
SED1709100B00L	WWC*545	11/13/91	11/13/91	449	11/26/91	12/02/91	JWC
ED1709100C00L	WWC*546	11/13/91	11/13/91	147	11/26/91	12/02/91	JWC
ED1709200A00L	WWC*547	11/13/91	11/13/91	980	11/26/91	12/02/91	JWC
SED1709200B00L	WWC*548	11/13/91	11/13/91	1010	11/26/91	12/02/91	JWC
SED1709200C00L	WWC*549	11/13/91	11/13/91	422	11/26/91	12/02/91	JWC
DE1747100A00L	WWC*550	11/13/91	11/13/91	899	11/26/91	12/02/91	JWC
DE1747100B00L	WWC*551	11/13/91	11/13/91	1510	11/26/91	12/02/91	JWC
SDE1747100C00L	WWC*552	11/13/91	11/13/91	239	11/26/91	12/02/91	JWC
SCL2215100A00L	WWC*553	11/13/91	11/13/91	349	11/26/91	12/02/91	JWC
CL2215100B00L	WWC*554	11/13/91	11/13/91	234	11/26/91	12/02/91	JWC
CL2215100C00L	WWC*555	11/13/91	11/13/91	81.8	11/26/91	12/02/91	JWC
CL2215200A00L	WWC*556	11/13/91	11/13/91	192	11/26/91	12/02/91	JWC
CL2215200B00L	WWC*557	11/13/91	11/13/91	441	11/26/91	12/02/91	JWC
CL2215200C00L	WWC*558	11/13/91	11/13/91	413	11/26/91	12/02/91	JWC
SBE2248100A00L	WWC*559	11/13/91	11/13/91	524	11/26/91	12/02/91	JWC
SBE2248100B00L	WWC*560	11/13/91	11/13/91	317	11/26/91	12/02/91	JWC
SBE2248100C00L	WWC*561	11/13/91	11/13/91	62.5	11/26/91	12/02/91	JWC
SBE2252100A00L	WWC*562	11/13/91	11/13/91	436	11/26/91	12/02/91	JWC
SBE2252100B00L	WWC*563	11/13/91	11/13/91	423	11/26/91	12/02/91	JWC
SBE2252100C00L	WWC*564	11/13/91	11/13/91	84.7	11/26/91	12/02/91	JWC
SBE2254100A00L	WWC*565	11/13/91	11/13/91	319	11/26/91	12/02/91	JWC
SBE2254100B00L	WWC*566	11/13/91	11/13/91	188	11/26/91	12/02/91	JWC
SBE2254100C00L	WWC*567	11/13/91	11/13/91	42.7	11/26/91	12/02/91	JWC
SBE2254200A00L	WWC*568	11/13/91	11/13/91	331	11/26/91	12/02/91	JWC
SBE2254200B00L	WWC*569	11/13/91	11/13/91	199	11/26/91	12/02/91	JWC
SBE2254200C00L	WWC*570	11/13/91	11/13/91	303	11/26/91	12/02/91	JWC
SBE2258100A00L	WWC*571	11/13/91	11/13/91	349	11/26/91	12/02/91	JWC
SBE2258100B00L	WWC*572	11/13/91	11/13/91	222	11/26/91	12/02/91	JWC
SBE2258100C00L	WWC*573	11/13/91	11/13/91	106	11/26/91	12/02/91	JWC
SBE2258200A00L	WWC*574	11/13/91	11/13/91	289	11/26/91	12/02/91	JWC
SBE2258200B00L	WWC*575	11/13/91	11/13/91	300	11/26/91	12/02/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Rest

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2258200B00L	WWC*575	11/13/91	11/13/91	300	11/26/91	12/02/91	JWC
BE2258200C00L	WWC*576	11/13/91	11/13/91	109	11/26/91	12/02/91	JWC
CL2157100A00L	WWC*577	11/13/91	11/13/91	271	11/26/91	12/02/91	JWC
SCL2157100B00L	WWC*578	11/13/91	11/13/91	306	11/26/91	12/02/91	JWC
CL2157100C00L	WWC*579	11/13/91	11/13/91	127	11/26/91	12/02/91	JWC
CL2157200A00L	WWC*580	11/13/91	11/13/91	345 J	11/26/91	12/02/91	JWC
CL2157200B00L	WWC*581	11/13/91	11/13/91	458	11/26/91	12/02/91	JWC
SCL2157200C00L	WWC*582	11/13/91	11/13/91	327	11/26/91	12/02/91	JWC
BE2123100A00L	WWC*583	11/13/91	11/13/91	345	11/26/91	12/02/91	JWC
BE2123100B00L	WWC*584	11/13/91	11/13/91	510	11/26/91	12/02/91	JWC
BE2123100C00L	WWC*585	11/13/91	11/13/91	109	11/26/91	12/02/91	JWC
SBE2123200A00L	WWC*586	11/13/91	11/13/91	541	11/26/91	12/02/91	JWC
BE2123200B00L	WWC*587	11/13/91	11/13/91	464	11/26/91	12/02/91	JWC
BE2123200C00L	WWC*588	11/13/91	11/13/91	360	11/26/91	12/02/91	JWC
AD2034200C00L	WWC*589	11/13/91	11/13/91	119	11/26/91	12/02/91	JWC
SCL1938100A00L	WWC*590	11/13/91	11/13/91	55.5	11/26/91	12/02/91	JWC
CL1938100B00L	WWC*591	11/13/91	11/13/91	60.6	11/26/91	12/02/91	JWC
CL1938100C00L	WWC*592	11/13/91	11/13/91	13.6	11/26/91	12/02/91	JWC
SCL1938200A00L	WWC*593	11/13/91	11/13/91	20.8	11/26/91	12/02/91	JWC
SCL1938200B00L	WWC*594	11/13/91	11/13/91	13.9	11/26/91	12/02/91	JWC
CL1938200C00L	WWC*595	11/13/91	11/13/91	76.1	11/26/91	12/02/91	JWC
CL1934100A00L	WWC*596	11/13/91	11/13/91	10.5	11/26/91	12/02/91	JWC
SCL1934100B00L	WWC*597	11/13/91	11/13/91	16.9	11/26/91	12/02/91	JWC
SCL1934100C00L	WWC*598	11/13/91	11/13/91	105	11/26/91	12/02/91	JWC
CL1934200A00L	WWC*599	11/13/91	11/13/91	73.8	11/26/91	12/02/91	JWC
CL1934200B00L	WWC*600	11/13/91	11/13/91	138	11/26/91	12/02/91	JWC
SCL1934200C00L	WWC*601	11/13/91	11/13/91	113	11/26/91	12/02/91	JWC
SCL1930100A00L	WWC*602	11/13/91	11/13/91	466	11/26/91	12/02/91	JWC
CL1930100B00L	WWC*603	11/13/91	11/13/91	374	11/26/91	12/02/91	JWC
CL1930100C00L	WWC*604	11/13/91	11/13/91	135	11/26/91	12/02/91	JWC
SCL1930200A00L	WWC*605	11/13/91	11/13/91	598	11/26/91	12/02/91	JWC
CL1930200B00L	WWC*606	11/13/91	11/13/91	378	11/26/91	12/02/91	JWC
CL1930200C00L	WWC*607	11/13/91	11/13/91	107	11/26/91	12/02/91	JWC
CL1919100A00L	WWC*608	11/13/91	11/13/91	1110	11/26/91	12/02/91	JWC
SCL1919100B00L	WWC*609	11/13/91	11/13/91	331	11/26/91	12/02/91	JWC
CL1919100C00L	WWC*610	11/13/91	11/13/91	35.3	11/26/91	12/02/91	JWC
CL1919200A00L	WWC*611	11/13/91	11/13/91	793	11/26/91	12/02/91	JWC
BE1911100A00L	WWC*612	11/13/91	11/13/91	915	11/26/91	12/02/91	JWC
SBE1911100B00L	WWC*613	11/13/91	11/13/91	255	11/26/91	12/02/91	JWC
BE1911100C00L	WWC*614	11/13/91	11/13/91	143	11/26/91	12/02/91	JWC
BE1911200A00L	WWC*615	11/13/91	11/13/91	111	11/26/91	12/02/91	JWC
BE1911200B00L	WWC*616	11/13/91	11/13/91	176	11/26/91	12/02/91	JWC

Environmental
Science &
Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE1911200B00L	WWC*616	11/13/91	11/13/91	176	11/26/91	12/02/91	JWC
SBE1911200C00L	WWC*617	11/13/91	11/13/91	299	11/26/91	12/02/91	JWC
SBE1918100A00L	WWC*618	11/13/91	11/13/91	692	11/26/91	12/02/91	JWC
SBE1918100B00L	WWC*619	11/13/91	11/13/91	533	11/26/91	12/02/91	JWC
SBE1918100C00L	WWC*620	11/13/91	11/13/91	187	11/26/91	12/02/91	JWC
SBE1918200A00L	WWC*621	11/13/91	11/13/91	1110	11/27/91	12/03/91	JWC
SBE1918200B00L	WWC*622	11/13/91	11/13/91	987	11/27/91	12/03/91	JWC
SBE1918200C00L	WWC*623	11/13/91	11/13/91	382	11/27/91	12/03/91	JWC
SBE1927100A00L	WWC*624	11/13/91	11/13/91	626	11/27/91	12/03/91	JWC
SBE1927100B00L	WWC*625	11/13/91	11/13/91	335	11/27/91	12/03/91	JWC
SBE1927100C00L	WWC*626	11/13/91	11/13/91	116	11/27/91	12/03/91	JWC
SBE1927200A00L	WWC*627	11/13/91	11/13/91	916	11/27/91	12/03/91	JWC
SBE1927200B00L	WWC*628	11/13/91	11/13/91	347	11/27/91	12/03/91	JWC
SBE1927200C00L	WWC*629	11/13/91	11/13/91	327	11/27/91	12/03/91	JWC
SAD2034100A00L	WWC*630	11/13/91	11/13/91	264	11/27/91	12/03/91	JWC
SAD2034100B00L	WWC*631	11/13/91	11/13/91	223	11/27/91	12/03/91	JWC
SAD2034100C00L	WWC*632	11/13/91	11/13/91	183	11/27/91	12/03/91	JWC
SAD2034200A00L	WWC*633	11/13/91	11/13/91	227	11/27/91	12/03/91	JWC
SAD2034200B00L	WWC*634	11/13/91	11/13/91	217	11/27/91	12/03/91	JWC
SCL1919200B00L	WWC*635	11/13/91	11/13/91	249	11/27/91	12/03/91	JWC
SCL1919200C00L	WWC*636	11/13/91	11/13/91	62.4	11/27/91	12/03/91	JWC
SNI1255100A00L	WWC*637	11/13/91	11/13/91	290	11/27/91	12/03/91	JWC
SNI1255100B00L	WWC*638	11/13/91	11/13/91	225	11/27/91	12/03/91	JWC
SNI1255100C00L	WWC*639	11/13/91	11/13/91	48.0	11/27/91	12/03/91	JWC
SNI1255200A00L	WWC*640	11/13/91	11/13/91	696	11/27/91	12/03/91	JWC
SNI1255200B00L	WWC*641	11/13/91	11/13/91	377	11/27/91	12/03/91	JWC
SNI1255200C00L	WWC*642	11/13/91	11/13/91	76.6	11/27/91	12/03/91	JWC
SBE2228100A00L	WWC*643	11/14/91	11/14/91	700	11/27/91	12/03/91	JWC
SBE2228100B00L	WWC*644	11/14/91	11/14/91	226	11/27/91	12/03/91	JWC
SBE2228100C00L	WWC*645	11/14/91	11/14/91	83.3	11/27/91	12/03/91	JWC
SBE2228200A00L	WWC*646	11/14/91	11/14/91	689	11/27/91	12/03/91	JWC
SBE2228200B00L	WWC*647	11/14/91	11/14/91	337	11/27/91	12/03/91	JWC
SBE2228200C00L	WWC*648	11/14/91	11/14/91	154	11/27/91	12/03/91	JWC
SBE2230100A00L	WWC*649	11/14/91	11/14/91	1640	11/27/91	12/03/91	JWC
SBE2230100B00L	WWC*650	11/14/91	11/14/91	461	11/27/91	12/03/91	JWC
SBE2230100C00L	WWC*651	11/14/91	11/14/91	37.3	11/27/91	12/03/91	JWC
SBE2230200A00L	WWC*652	11/14/91	11/14/91	745	11/27/91	12/03/91	JWC
SBE2230200B00L	WWC*653	11/14/91	11/14/91	811	11/27/91	12/03/91	JWC
SBE2230200C00L	WWC*654	11/14/91	11/14/91	581	11/27/91	12/03/91	JWC
SBE2232100A00L	WWC*655	11/14/91	11/14/91	614	11/27/91	12/03/91	JWC
SBE2232100B00L	WWC*656	11/14/91	11/14/91	57.1	11/27/91	12/03/91	JWC
SBE2232100C00L	WWC*657	11/14/91	11/14/91	28.5	11/27/91	12/03/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1405 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2232100C00L	WWC*657	11/14/91	11/14/91	28.5	11/27/91	12/03/91	JWC
BE2232200A00L	WWC*658	11/14/91	11/14/91	806	11/27/91	12/03/91	JWC
SBE2232200B00L	WWC*659	11/14/91	11/14/91	391	11/27/91	12/03/91	JWC
SBE2232200C00L	WWC*660	11/14/91	11/14/91	153	11/27/91	12/03/91	JWC
SBE2158100A00L	WWC*661	11/14/91	11/14/91	353	11/27/91	12/03/91	JWC
BE2158100B00L	WWC*662	11/14/91	11/14/91	183	11/27/91	12/03/91	JWC
SBE2158100C00L	WWC*663	11/14/91	11/14/91	60.9	11/27/91	12/03/91	JWC
SBE2158200A00L	WWC*664	11/14/91	11/14/91	555	11/27/91	12/03/91	JWC
SBE2158200B00L	WWC*665	11/14/91	11/14/91	524	11/27/91	12/03/91	JWC
BE2158200C00L	WWC*666	11/14/91	11/14/91	257	11/27/91	12/03/91	JWC
SBE2157100A00L	WWC*667	11/14/91	11/14/91	294	11/27/91	12/03/91	JWC
SBE2157100B00L	WWC*668	11/14/91	11/14/91	206	11/27/91	12/03/91	JWC
BE2157100C00L	WWC*669	11/14/91	11/14/91	87.6	11/27/91	12/03/91	JWC
BE2157200A00L	WWC*670	11/14/91	11/14/91	301	11/27/91	12/03/91	JWC
SBE2157200B00L	WWC*671	11/14/91	11/14/91	324	11/27/91	12/03/91	JWC
SBE2157200C00L	WWC*672	11/14/91	11/14/91	282	11/27/91	12/03/91	JWC
GR1918100A00L	WWC*673	11/14/91	11/14/91	628	11/27/91	12/03/91	JWC
GR1918100B00L	WWC*674	11/14/91	11/14/91	419	11/27/91	12/03/91	JWC
SGR1918100C00L	WWC*675	11/14/91	11/14/91	219	11/27/91	12/03/91	JWC
SGR1918200A00L	WWC*676	11/14/91	11/14/91	655	11/27/91	12/03/91	JWC
GR1918200B00L	WWC*677	11/14/91	11/14/91	524	11/27/91	12/03/91	JWC
GR1918200C00L	WWC*678	11/14/91	11/14/91	346	11/27/91	12/03/91	JWC
SMA2023100A00L	WWC*679	11/14/91	11/14/91	375	11/27/91	12/03/91	JWC
SMA2023100B00L	WWC*680	11/14/91	11/14/91	1050 J	11/27/91	12/03/91	JWC
MA2023100C00L	WWC*681 2	11/14/91	11/14/91	441	12/02/91	12/03/91	JWC
MA2023200A00L	WWC*682	11/14/91	11/14/91	746	12/02/91	12/03/91	JWC
SMA2023200B00L	WWC*683	11/14/91	11/14/91	770	12/02/91	12/03/91	JWC
SMA2023200C00L	WWC*684	11/14/91	11/14/91	239	12/02/91	12/03/91	JWC
MA2017100A00L	WWC*685	11/14/91	11/14/91	1820	12/02/91	12/03/91	JWC
MA2017100B00L	WWC*686	11/14/91	11/14/91	616	12/02/91	12/03/91	JWC
SMA2017100C00L	WWC*687	11/14/91	11/14/91	172	12/02/91	12/03/91	JWC
MA2017200A00L	WWC*688	11/14/91	11/14/91	1350	12/02/91	12/03/91	JWC
MA2017200B00L	WWC*689	11/14/91	11/14/91	400	12/02/91	12/03/91	JWC
MA2017200C00L	WWC*690	11/14/91	11/14/91	136	12/02/91	12/03/91	JWC
SBE2121100A00L	WWC*691	11/14/91	11/14/91	338	12/02/91	12/03/91	JWC
BE2121100B00L	WWC*692	11/14/91	11/14/91	415	12/02/91	12/03/91	JWC
BE2121100C00L	WWC*693	11/14/91	11/14/91	148	12/02/91	12/03/91	JWC
SBE2121200A00L	WWC*694	11/14/91	11/14/91	745	12/02/91	12/03/91	JWC
SBE2121200B00L	WWC*695	11/14/91	11/14/91	455	12/02/91	12/03/91	JWC
BE2121200C00L	WWC*696	11/14/91	11/14/91	325	12/02/91	12/03/91	JWC
BE2133100A00L	WWC*697	11/14/91	11/14/91	560	12/02/91	12/03/91	JWC
SBE2133100B00L	WWC*698	11/14/91	11/14/91	604	12/02/91	12/03/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

AMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
^BE2133100B00L	WWC*698	11/14/91	11/14/91	604	12/02/91	12/03/91	JWC
BE2133100C00L	WWC*699	11/14/91	11/14/91	347	12/02/91	12/03/91	JWC
,BE2133200A00L	WWC*700	11/14/91	11/14/91	341	12/02/91	12/03/91	JWC
`E2133200B00L	WWC*701	11/14/91	11/14/91	243	12/02/91	12/03/91	JWC
E2133200C00L	WWC*702	11/14/91	11/14/91	60.6	12/02/91	12/03/91	JWC
BE2131100A00L	WWC*703	11/14/91	11/14/91	429	12/02/91	12/03/91	JWC
,BE2131100B00L	WWC*704	11/14/91	11/14/91	480	12/02/91	12/03/91	JWC
SBE2131100C00L	WWC*705	11/14/91	11/14/91	312	12/02/91	12/03/91	JWC
BE2131200A00L	WWC*706	11/14/91	11/14/91	586	12/02/91	12/03/91	JWC
BE2131200B00L	WWC*707	11/14/91	11/14/91	472	12/02/91	12/03/91	JWC
SBE2131200C00L	WWC*708	11/14/91	11/14/91	159	12/02/91	12/03/91	JWC
SCL2027100A00L	WWC*709	11/14/91	11/14/91	481	12/02/91	12/03/91	JWC
CL2027100B00L	WWC*710	11/14/91	11/14/91	263	12/02/91	12/03/91	JWC
CL2027100C00L	WWC*711	11/14/91	11/14/91	176	12/02/91	12/03/91	JWC
SCL2029100A00L	WWC*712	11/14/91	11/14/91	995	12/02/91	12/03/91	JWC
SCL2029100B00L	WWC*713	11/14/91	11/14/91	535	12/02/91	12/03/91	JWC
CL2029100C00L	WWC*714	11/14/91	11/14/91	155	12/02/91	12/03/91	JWC
CL2029200A00L	WWC*715	11/14/91	11/14/91	194	12/02/91	12/03/91	JWC
SCL2029200B00L	WWC*716	11/14/91	11/14/91	104	12/02/91	12/03/91	JWC
SCL2029200C00L	WWC*717	11/14/91	11/14/91	32.3	12/02/91	12/03/91	JWC
CL2055100A00L	WWC*718	11/14/91	11/14/91	340	12/02/91	12/03/91	JWC
CL2055100B00L	WWC*719	11/14/91	11/14/91	235	12/02/91	12/03/91	JWC
^L2055100C00L	WWC*720	11/14/91	11/14/91	289	12/02/91	12/03/91	JWC
L2055200A00L	WWC*721	11/14/91	11/14/91	715	12/02/91	12/03/91	JWC
CL2055200B00L	WWC*722	11/14/91	11/14/91	411	12/02/91	12/03/91	JWC
,CL2055200C00L	WWC*723	11/14/91	11/14/91	194	12/02/91	12/03/91	JWC
SCL2032100A00L	WWC*724	11/14/91	11/14/91	452	12/02/91	12/03/91	JWC
^CL2032100B00L	WWC*725	11/14/91	11/14/91	237	12/02/91	12/03/91	JWC
:CL2032100C00L	WWC*726	11/14/91	11/14/91	55.3	12/02/91	12/03/91	JWC
,CL2032200A00L	WWC*727	11/14/91	11/14/91	717	12/02/91	12/03/91	JWC
SCL2032200B00L	WWC*728	11/14/91	11/14/91	345	12/02/91	12/03/91	JWC
:CL2032200C00L	WWC*729	11/14/91	11/14/91	90.4	12/02/91	12/03/91	JWC
'WS2027100A00L	WWC*730	11/14/91	11/14/91	766	12/02/91	12/03/91	JWC
,WS2027100B00L	WWC*731	11/14/91	11/14/91	299	12/02/91	12/03/91	JWC
SWS2027100C00L	WWC*732	11/14/91	11/14/91	68.6	12/02/91	12/03/91	JWC
WS2027200A00L	WWC*733	11/14/91	11/14/91	670	12/02/91	12/03/91	JWC
.WS2027200B00L	WWC*734	11/14/91	11/14/91	661	12/02/91	12/03/91	JWC
SWS2027200C00L	WWC*735	11/14/91	11/14/91	363	12/02/91	12/03/91	JWC
SWS2033100A00L	WWC*736	11/14/91	11/14/91	961	12/02/91	12/03/91	JWC
:WS2033100B00L	WWC*737	11/14/91	11/14/91	585	12/02/91	12/03/91	JWC
'WS2033100C00L	WWC*738	11/14/91	11/14/91	178	12/02/91	12/03/91	JWC
SWS2033200A00L	WWC*739	11/14/91	11/14/91	276	12/02/91	12/03/91	JWC

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
WS2033200A00L	WWC★739	11/14/91	11/14/91	276	12/02/91	12/03/91	JWC
WS2033200B00L	WWC★740	11/14/91	11/14/91	105	12/02/91	12/03/91	JWC
WS2033200C00L	WWC★741	11/14/91	11/14/91	53	12/02/91	12/	
SWS2040100A00L	WWC★742	11/14/91	11/14/91	7	12/02/91	12/0	
WS2040100B00L	WWC★743	11/14/91	11/14/91	01	12/02/91	12/0	
WS2040100C00L	WWC★744	11/14/91	11/14/91	41.2	12/02/91	12/03/91	
SWS2040200A00L	WWC★745	11/14/91	11/14/91	709	12/02/91	12/03/91	
SWS2040200B00L	WWC★746	11/14/91	11/14/91	706	12/02/91	12/03/91	
WS2040200C00L	WWC★747	11/14/91	11/14/91	207	12/02/91	12/03/91	
WS2038100A00L	WWC★748	11/14/91	11/14/91	1790	12/02/91	12/03/91	JWC
SWS2038100B00L	WWC★749	11/14/91	11/14/91	865	12/02/91	12/03/91	JWC
SWS2038100C00L	WWC★750	11/14/91	11/14/91	202	12/02/91	12/03/91	JWC
WS2038200A00L	WWC★751	11/14/91	11/14/91	546	12/02/91	12/03/91	JWC
WS2038200B00L	WWC★752	11/14/91	11/14/91	426	12/02/91	12/03/91	JWC
SWS2038200C00L	WWC★753	11/14/91	11/14/91	505	12/02/91	12/03/91	JWC
SLE2029100A00L	WWC★754	11/15/91	11/15/91	874	12/02/91	12/03/91	JWC
LE2029100B00L	WWC★755	11/15/91	11/15/91	737	12/02/91	12/03/91	JWC
LE2029100C00L	WWC★756	11/15/91	11/15/91	611	12/02/91	12/03/91	JWC
SLE2029200A00L	WWC★757	11/15/91	11/15/91	195	12/02/91	12/03/91	JWC
SLE2029200B00L	WWC★758	11/15/91	11/15/91	230	12/02/91	12/03/91	JWC
LE2029200C00L	WWC★759	11/15/91	11/15/91	71.6	12/02/91	12/03/91	JWC
LE2037100A00L	WWC★760	11/15/91	11/15/91	683	12/02/91	12/03/91	JWC
SLE2037100B00L	WWC★761	11/15/91	11/15/91	454	12/03/91	12/05/91	JWC
SLE2037100C00L	WWC★762	11/15/91	11/15/91	306	12/03/91	12/05/91	JWC
LE2037200A00L	WWC★763	11/15/91	11/15/91	1070	12/03/91	12/05/91	JWC
LE2037200B00L	WWC★764	11/15/91	11/15/91	810	12/03/91	12/05/91	JWC
SLE2037200C00L	WWC★765	11/15/91	11/15/91	278	12/03/91	12/05/91	JWC
LE2045100A00L	WWC★766	11/15/91	11/15/91	442	12/03/91	12/05/91	JWC
LE2045100A0LD	WWC★767	11/15/91	11/15/91	479	12/03/91	12/05/91	JWC
LE2045100B00L	WWC★768	11/15/91	11/15/91	403	12/03/91	12/05/91	JWC
SLE2045100B0LD	WWC★769	11/15/91	11/15/91	426	12/03/91	12/05/91	JWC
LE2045100C00L	WWC★770	11/15/91	11/15/91	241	12/03/91	12/05/91	JWC
LE2045100C0LD	WWC★771	11/15/91	11/15/91	172	12/03/91	12/05/91	JWC
LE2045200A00L	WWC★772	11/15/91	11/15/91	614	12/03/91	12/05/91	JWC
SLE2045200B00L	WWC★773	11/15/91	11/15/91	433	12/03/91	12/05/91	JWC
LE2045200C00L	WWC★774	11/15/91	11/15/91	148	12/03/91	12/05/91	JWC
LE2047100A00L	WWC★775	11/15/91	11/15/91	715	12/03/91	12/05/91	JWC
SLE2047100B00L	WWC★776	11/15/91	11/15/91	628	12/03/91	12/05/91	JWC
SLE2047100C00L	WWC★777	11/15/91	11/15/91	453	12/03/91	12/05/91	JWC
LE2047200A00L	WWC★778	11/15/91	11/15/91	465	12/03/91	12/05/91	JWC
LE2047200B00L	WWC★779	11/15/91	11/15/91	419	12/03/91	12/05/91	JWC
SLE2047200C00L	WWC★780	11/15/91	11/15/91	216	12/03/91	12/05/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
LE2047200C00L	WWC*780	11/15/91	11/15/91	216	12/03/91	12/05/91	JWC
LE2143100A00L	WWC*781	11/15/91	11/15/91	912	12/03/91	12/05/91	JWC
LE2143100B00L	WWC*782	11/15/91	11/15/91	730	12/03/91	12/05/91	JWC
2143100C00L	WWC*783	11/15/91	11/15/91	132	12/03/91	12/05/91	JWC
2143200A00L	WWC*784	11/15/91	11/15/91	381	12/03/91	12/05/91	JWC
LE2143200B00L	WWC*785	11/15/91	11/15/91	300	12/03/91	12/05/91	JWC
LE2143200C00L	WWC*786	11/15/91	11/15/91	130	12/03/91	12/05/91	JWC
SLE2151100A00L	WWC*787	11/15/91	11/15/91	141	12/03/91	12/05/91	JWC
LE2161100A0LD	WWC*788	11/15/91	11/15/91	324	12/03/91	12/05/91	JWC
LE2151100B00L	WWC*789	11/15/91	11/15/91	68.2	12/03/91	12/05/91	JWC
SLE2161100B0LD	WWC*790	11/15/91	11/15/91	370	12/03/91	12/05/91	JWC
SLE2151100C00L	WWC*791	11/15/91	11/15/91	148	12/03/91	12/05/91	JWC
LE2161100C0LD	WWC*792	11/15/91	11/15/91	178	12/03/91	12/05/91	JWC
LE2151200A00L	WWC*793	11/15/91	11/15/91	269	12/03/91	12/05/91	JWC
SLE2151200B00L	WWC*794	11/15/91	11/15/91	169	12/03/91	12/05/91	JWC
SLE2151200C00L	WWC*795	11/15/91	11/15/91	219	12/03/91	12/05/91	JWC
LE2161100A00L	WWC*796	11/15/91	11/15/91	384	12/03/91	12/05/91	JWC
LE2161100B00L	WWC*797	11/15/91	11/15/91	816	12/03/91	12/05/91	JWC
SLE2161100C00L	WWC*798	11/15/91	11/15/91	263	12/03/91	12/05/91	JWC
SBE2148100A00L	WWC*799	11/15/91	11/15/91	155	12/03/91	12/05/91	JWC
BE2148100B00L	WWC*800	11/15/91	11/15/91	114	12/03/91	12/05/91	JWC
BE2148100C00L	WWC*801	11/15/91	11/15/91	75.1	12/03/91	12/05/91	JWC
2148200A00L	WWC*802	11/15/91	11/15/91	282	12/03/91	12/05/91	JWC
2148200B00L	WWC*803	11/15/91	11/15/91	182	12/03/91	12/05/91	JWC
BE2148200C00L	WWC*804	11/15/91	11/15/91	135	12/03/91	12/05/91	JWC
AD2108100A00L	WWC*805	11/15/91	11/15/91	135	12/03/91	12/05/91	JWC
SAD2108100B00L	WWC*806	11/15/91	11/15/91	182	12/03/91	12/05/91	JWC
AD2108100C00L	WWC*807	11/15/91	11/15/91	96.9	12/03/91	12/05/91	JWC
AD2120100A00L	WWC*808	11/15/91	11/15/91	639	12/03/91	12/05/91	JWC
AD2120100A0LD	WWC*809	11/15/91	11/15/91	715	12/03/91	12/05/91	JWC
SAD2120100B00L	WWC*810	11/15/91	11/15/91	465	12/03/91	12/05/91	JWC
AD2120100B0LD	WWC*811	11/15/91	11/15/91	496	12/03/91	12/05/91	JWC
AD2120100C00L	WWC*812	11/15/91	11/15/91	454	12/03/91	12/05/91	JWC
AD2120100C0LD	WWC*813	11/15/91	11/15/91	717	12/03/91	12/05/91	JWC
SAD2120200A00L	WWC*814	11/15/91	11/15/91	1020	12/03/91	12/05/91	JWC
AD2120200B00L	WWC*815	11/15/91	11/15/91	1080	12/03/91	12/05/91	JWC
AD2120200C00L	WWC*816	11/15/91	11/15/91	436	12/03/91	12/05/91	JWC
SAD2134100A00L	WWC*817	11/15/91	11/15/91	547	12/03/91	12/05/91	JWC
SAD2134100B00L	WWC*818	11/15/91	11/15/91	434	12/03/91	12/05/91	JWC
AD2134100C00L	WWC*819	11/15/91	11/15/91	535	12/03/91	12/05/91	JWC
AD2134200A00L	WWC*820	11/15/91	11/15/91	2650	12/03/91	12/05/91	JWC
SAD2134200B00L	WWC*821	11/15/91	11/15/91	454	12/03/91	12/05/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1055 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SAD2134200B00L	WWC*821	11/15/91	11/15/91	454	12/03/91	12/05/91	JWC
SAD2134200C00L	WWC*822	11/15/91	11/15/91	152	12/03/91	12/05/91	JWC
SAD2138100A00L	WWC*823	11/15/91	11/15/91	199	12/03/91	12/05/91	JWC
SAD2138100A0LD	WWC*824	11/15/91	11/15/91	203	12/03/91	12/05/91	JWC
SAD2138100B00L	WWC*825	11/15/91	11/15/91	174	12/03/91	12/05/91	JWC
SAD2138100B0LD	WWC*826	11/15/91	11/15/91	188	12/03/91	12/05/91	JWC
SAD2138100C00L	WWC*827	11/15/91	11/15/91	148	12/03/91	12/05/91	JWC
SAD2138100C0LD	WWC*828	11/15/91	11/15/91	127	12/03/91	12/05/91	JWC
SAD2138200A00L	WWC*829	11/15/91	11/15/91	183	12/03/91	12/05/91	JWC
SAD2138200B00L	WWC*830	11/15/91	11/15/91	105	12/03/91	12/05/91	JWC
SAD2138200C00L	WWC*831	11/15/91	11/15/91	233	12/03/91	12/05/91	JWC
SAD2152100A00L	WWC*832	11/15/91	11/15/91	395	12/03/91	12/05/91	JWC
SAD2152100B00L	WWC*833	11/15/91	11/15/91	294	12/03/91	12/05/91	JWC
SAD2152100C00L	WWC*834	11/15/91	11/15/91	95.4	12/03/91	12/05/91	JWC
SAD2152200A00L	WWC*835	11/15/91	11/15/91	466	12/03/91	12/05/91	JWC
SAD2152200B00L	WWC*836	11/15/91	11/15/91	481	12/03/91	12/05/91	JWC
SAD2152200C00L	WWC*837	11/15/91	11/15/91	164	12/03/91	12/05/91	JWC
SAD2144100A00L	WWC*838	11/15/91	11/15/91	246	12/03/91	12/05/91	JWC
SAD2144100B00L	WWC*839	11/15/91	11/15/91	126	12/03/91	12/05/91	JWC
SAD2144100C00L	WWC*840	11/15/91	11/15/91	98.6	12/03/91	12/05/91	JWC
SAD2144200A00L	WWC*841	11/15/91	11/15/91	556	12/03/91	12/05/91	JWC
SAD2144200B00L	WWC*842	11/15/91	11/15/91	606	12/03/91	12/05/91	JWC
SAD2144200C00L	WWC*843	11/15/91	11/15/91	506	12/03/91	12/05/91	JWC
STR001010AC00L	WWC*844	11/15/91	11/15/91	68.7	12/03/91	12/05/91	JWC
TR0010100D00L	WWC*845	11/15/91	11/15/91	95.0	12/03/91	12/05/91	JWC
TR0010100K00L	WWC*846	11/15/91	11/15/91	23.0	12/03/91	12/05/91	JWC
STR0010100L00L	WWC*847	11/15/91	11/15/91	26.5	12/03/91	12/05/91	JWC
STR0010100M00L	WWC*848	11/15/91	11/15/91	5.19	12/03/91	12/05/91	JWC
TR0010100N00L	WWC*849	11/15/91	11/15/91	5.19	12/03/91	12/05/91	JWC
TR0010100T00L	WWC*850	11/15/91	11/15/91	6.00	12/03/91	12/05/91	JWC
SMA2021100A00L	WWC*851	11/18/91	11/18/91	2400	12/03/91	12/05/91	JWC
SMA2021100B00L	WWC*852	11/18/91	11/18/91	896	12/03/91	12/05/91	JWC
SMA2021100C00L	WWC*853	11/18/91	11/18/91	139	12/03/91	12/05/91	JWC
SMA2021200A00L	WWC*854	11/18/91	11/18/91	2110	12/03/91	12/05/91	JWC
SMA2021200B00L	WWC*855	11/18/91	11/18/91	387	12/03/91	12/05/91	JWC
SMA2021200C00L	WWC*856	11/18/91	11/18/91	115	12/03/91	12/05/91	JWC
SWS2008100A00L	WWC*857	11/18/91	11/18/91	905	12/03/91	12/05/91	JWC
SWS2008100B00L	WWC*858	11/18/91	11/18/91	1280	12/03/91	12/05/91	JWC
SWS2008100C00L	WWC*859	11/18/91	11/18/91	167	12/03/91	12/05/91	JWC
SWS2008200A00L	WWC*860	11/18/91	11/18/91	393	12/03/91	12/05/91	JWC
SWS2008200B00L	WWC*861	11/18/91	11/18/91	380	12/04/91	12/05/91	JWC
SWS2008200C00L	WWC*862	11/18/91	11/18/91	150	12/04/91	12/05/91	JWC

Environmental Science & Engineering, Inc

St Louis Chemistry Laboratory

1005 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SWS2008200C00L	WWC*862	11/18/91	11/18/91	150	12/04/91	12/05/91	JWC
SWS2036100A00L	WWC*863	11/18/91	11/18/91	895	12/04/91	12/05/91	JWC
SWS2036100B00L	WWC*864	11/18/91	11/18/91	992	12/04/91	12/05/91	JWC
SWS2036100C00L	WWC*865	11/18/91	11/18/91	334	12/04/91	12/05/91	JWC
SWS2104100A00L	WWC*866	11/18/91	11/18/91	596	12/04/91	12/05/91	JWC
SWS2104100B00L	WWC*867	11/18/91	11/18/91	514	12/04/91	12/05/91	JWC
SWS2104100C00L	WWC*868	11/18/91	11/18/91	156	12/04/91	12/05/91	JWC
SWS2104200A00L	WWC*869	11/18/91	11/18/91	436	12/04/91	12/05/91	JWC
SWS2104200B00L	WWC*870	11/18/91	11/18/91	550	12/04/91	12/05/91	JWC
SWS2104200C00L	WWC*871	11/18/91	11/18/91	243	12/04/91	12/05/91	JWC
SGR1923100A00L	WWC*872	11/18/91	11/18/91	1250	12/04/91	12/05/91	JWC
SGR1923100B00L	WWC*873	11/18/91	11/18/91	1330	12/04/91	12/05/91	JWC
SGR1923100C00L	WWC*874	11/18/91	11/18/91	797	12/04/91	12/05/91	JWC
SGR1923200A00L	WWC*875	11/18/91	11/18/91	759	12/04/91	12/05/91	JWC
SGR1923200B00L	WWC*876	11/18/91	11/18/91	446	12/04/91	12/05/91	JWC
SGR1923200C00L	WWC*877	11/18/91	11/18/91	214	12/04/91	12/05/91	JWC
SGR2149100A00L	WWC*878	11/18/91	11/18/91	352	12/04/91	12/05/91	JWC
SGR2149100B00L	WWC*879	11/18/91	11/18/91	256	12/04/91	12/05/91	JWC
SGR2149100C00L	WWC*880	11/18/91	11/18/91	75.7	12/04/91	12/05/91	JWC
SGR2149200A00L	WWC*881	11/18/91	11/18/91	963	12/04/91	12/05/91	JWC
SGR2149200B00L	WWC*882	11/18/91	11/18/91	1100	12/04/91	12/05/91	JWC
SGR2149200C00L	WWC*883	11/18/91	11/18/91	114	12/04/91	12/05/91	JWC
SED1627100A00L	WWC*884	11/18/91	11/18/91	2070	12/04/91	12/05/91	JWC
SED1627100B00L	WWC*885	11/18/91	11/18/91	1280	12/04/91	12/05/91	JWC
SED1627100C00L	WWC*886	11/18/91	11/18/91	426	12/04/91	12/05/91	JWC
SED1627200A00L	WWC*887	11/18/91	11/18/91	1050	12/04/91	12/05/91	JWC
SED1627200B00L	WWC*888	11/18/91	11/18/91	1040	12/04/91	12/05/91	JWC
SED1627200C00L	WWC*889	11/18/91	11/18/91	630	12/04/91	12/05/91	JWC
SED1635100A00L	WWC*890	11/18/91	11/18/91	2640	12/04/91	12/05/91	JWC
SED1635100B00L	WWC*891	11/18/91	11/18/91	1910	12/04/91	12/05/91	JWC
SED1635100C00L	WWC*892	11/18/91	11/18/91	953	12/04/91	12/05/91	JWC
SED1635200A00L	WWC*893	11/18/91	11/18/91	1910	12/04/91	12/05/91	JWC
SED1635200B00L	WWC*894	11/18/91	11/18/91	1010	12/04/91	12/05/91	JWC
SED1635200C00L	WWC*895	11/18/91	11/18/91	246	12/04/91	12/05/91	JWC
SED1639100A00L	WWC*896	11/18/91	11/18/91	1280	12/04/91	12/05/91	JWC
SED1639100B00L	WWC*897	11/18/91	11/18/91	843	12/04/91	12/05/91	JWC
SED1639100C00L	WWC*898	11/18/91	11/18/91	210	12/04/91	12/05/91	JWC
SED1639200A00L	WWC*899	11/18/91	11/18/91	1520	12/04/91	12/05/91	JWC
SED1639200B00L	WWC*900	11/18/91	11/18/91	467 J	12/04/91	12/05/91	JWC
SED1639200C00L	WWC*901	11/18/91	11/18/91	136	12/04/91	12/06/91	JWC
STR000610AC00L	WWC*902	11/18/91	11/18/91	9790	12/04/91	12/06/91	JWC
STR0006100D00L	WWC*903	11/18/91	11/18/91	1920	12/04/91	12/06/91	JWC

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: WOODWARD-CLYDE

PROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
STR0006100D00L	WWC*903	11/18/91	11/18/91	1920	12/04/91	12/06/91	JWC
STR0006100K00L	WWC*904	11/18/91	11/18/91	214	12/04/91	12/06/91	JWC
STR0006100L00L	WWC*905	11/18/91	11/18/91	238	12/04/91	12/06/91	JWC
STR0006100M00L	WWC*906	11/18/91	11/18/91	22.9	12/04/91	12/06/91	JWC
STR0006100N00L	WWC*907	11/18/91	11/18/91	21.6	12/04/91	12/06/91	JWC
STR0006100N0LX	WWC*908	11/18/91	11/18/91	22.5	12/04/91	12/06/91	JWC
STR0006100N0LM	WWC*909	11/18/91	11/18/91	18.7	12/04/91	12/06/91	JWC
STR0006100T00L	WWC*910	11/18/91	11/18/91	4.82	12/04/91	12/06/91	JWC
STR000710AC00L	WWC*911	11/18/91	11/18/91	15300	12/04/91	12/06/91	JWC
STR0007100D00L	WWC*912	11/18/91	11/18/91	2950	12/04/91	12/06/91	JWC
STR0007100K00L	WWC*913	11/18/91	11/18/91	1620	12/04/91	12/06/91	JWC
STR0007100L00L	WWC*914	11/18/91	11/18/91	62.2	12/04/91	12/06/91	JWC
STR0007100L0LD	WWC*915	11/18/91	11/18/91	135	12/04/91	12/06/91	JWC
STR0007100M00L	WWC*916	11/18/91	11/18/91	19.0	12/04/91	12/06/91	JWC
STR0007100N00L	WWC*917	11/18/91	11/18/91	58.3	12/04/91	12/06/91	JWC
STR0007100T00L	WWC*918	11/18/91	11/18/91	9.16	12/04/91	12/06/91	JWC
STR000810AC00L	WWC*919	11/18/91	11/18/91	8.84	12/04/91	12/06/91	JWC
STR0008100D00L	WWC*920	11/18/91	11/18/91	395 J	12/04/91	12/06/91	JWC
STR0008100K00L	WWC*921	11/18/91	11/18/91	384	12/05/91	12/06/91	JWC
STR0008100L00L	WWC*922	11/18/91	11/18/91	43.1	12/05/91	12/06/91	JWC
STR0008100M00L	WWC*923	11/18/91	11/18/91	23.4	12/05/91	12/06/91	JWC
STR0008100N00L	WWC*924	11/18/91	11/18/91	8.40	12/05/91	12/06/91	JWC
STR0008100T00L	WWC*925	11/18/91	11/18/91	2.58	12/05/91	12/06/91	JWC
STR000910AC00L	WWC*926	11/18/91	11/18/91	2880	12/05/91	12/06/91	JWC
STR0009100D00L	WWC*927	11/18/91	11/18/91	445	12/05/91	12/06/91	JWC
STR0009100K00L	WWC*928	11/18/91	11/18/91	115	12/05/91	12/06/91	JWC
STR0009100L00L	WWC*929	11/18/91	11/18/91	11.7	12/05/91	12/06/91	JWC
STR0009100M00L	WWC*930	11/18/91	11/18/91	4.19	12/05/91	12/06/91	JWC
STR0009100N00L	WWC*931	11/18/91	11/18/91	4.32	12/05/91	12/06/91	JWC
STR0009100T00L	WWC*932	11/18/91	11/18/91	5.47	12/05/91	12/06/91	JWC
SEL1715100A00L	WWC*933	11/19/91	11/19/91	206	12/05/91	12/06/91	JWC
SEL1715100B00L	WWC*934	11/19/91	11/19/91	149	12/05/91	12/06/91	JWC
SEL1715100C00L	WWC*935	11/19/91	11/19/91	154	12/05/91	12/06/91	JWC
SEL1715200A00L	WWC*936	11/19/91	11/19/91	261	12/05/91	12/06/91	JWC
SEL1715200B00L	WWC*937	11/19/91	11/19/91	173	12/05/91	12/06/91	JWC
SEL1715200C00L	WWC*938	11/19/91	11/19/91	227	12/05/91	12/06/91	JWC
SEL1717100A00L	WWC*939	11/19/91	11/19/91	184	12/05/91	12/06/91	JWC
SEL1717100B00L	WWC*940	11/19/91	11/19/91	93.2	12/05/91	12/06/91	JWC
SEL1717100C00L	WWC*941	11/19/91	11/19/91	19.4	12/04/91	12/06/91	JWC
SEL1717200A00L	WWC*942	11/19/91	11/19/91	98.2	12/04/91	12/06/91	JWC
SEL1717200B00L	WWC*943	11/19/91	11/19/91	100.0	12/04/91	12/06/91	JWC
SEL1717200C00L	WWC*944	11/19/91	11/19/91	98.9	12/04/91	12/06/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: WOODWARD-CLYDE

ROJECT NUMBER: 5912031 0100

REPORT DATE: 12-30-91

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SEL1717200C00L	WWC*944	11/19/91	11/19/91	98.9	12/04/91	12/06/91	JWC
SEL1723100A00L	WWC*945	11/19/91	11/19/91	282	12/04/91	12/06/91	JWC
SEL1723100B00L	WWC*946	11/19/91	11/19/91	233	12/04/91	12/06/91	JWC
EL1723100C00L	WWC*947	11/19/91	11/19/91	224	12/05/91	12/06/91	JWC
SEL1725100A00L	WWC*948	11/19/91	11/19/91	209	12/05/91	12/06/91	JWC
SEL1725100B00L	WWC*949	11/19/91	11/19/91	165	12/05/91	12/06/91	JWC
SEL1725100C00L	WWC*950	11/19/91	11/19/91	126	12/05/91	12/06/91	JWC
SEL1725200A00L	WWC*951	11/19/91	11/19/91	262	12/05/91	12/06/91	JWC
SEL1725200B00L	WWC*952	11/19/91	11/19/91	121	12/05/91	12/06/91	JWC
SEL1725200C00L	WWC*953	11/19/91	11/19/91	46.4	12/05/91	12/06/91	JWC
SEL1920200A00L	WWC*954	11/19/91	11/19/91	240	12/05/91	12/06/91	JWC
SEL1920200A0LM	WWC*955	11/19/91	11/19/91	240	12/05/91	12/06/91	JWC
SEL1920200A0LX	WWC*956	11/19/91	11/19/91	1070	12/05/91	12/06/91	JWC
SEL1920200B00L	WWC*957	11/19/91	11/19/91	442	12/05/91	12/06/91	JWC
SEL1920200B0LM	WWC*958	11/19/91	11/19/91	845	12/05/91	12/06/91	JWC
SEL1920200B0LX	WWC*959	11/19/91	11/19/91	507	12/05/91	12/06/91	JWC
SEL1920200C00L	WWC*960	11/19/91	11/19/91	543 J	12/05/91	12/06/91	JWC
SEL1920200C0LM	WWC*961	11/19/91	11/19/91	482	12/05/91	12/10/91	JWC
SEL1920200C0LX	WWC*962	11/19/91	11/19/91	609	12/05/91	12/10/91	JWC
SEL1918200A00L	WWC*963	11/19/91	11/19/91	404	12/05/91	12/10/91	JWC
SEL1918200B00L	WWC*964	11/19/91	11/19/91	307	12/05/91	12/10/91	JWC
SEL1918200C00L	WWC*965	11/19/91	11/19/91	169	12/05/91	12/10/91	JWC
GW1001100A00L	WWC*966	11/19/91	11/19/91	85.2	12/05/91	12/10/91	JWC
SGW1001100B00L	WWC*967	11/19/91	11/19/91	128	12/05/91	12/10/91	JWC
SGW1001100C00L	WWC*968	11/19/91	11/19/91	26.7	12/05/91	12/10/91	JWC
SGW1001200A00L	WWC*969	11/19/91	11/19/91	215	12/05/91	12/10/91	JWC
SGW1001200B00L	WWC*970	11/19/91	11/19/91	234	12/05/91	12/10/91	JWC
SGW1001200C00L	WWC*971	11/19/91	11/19/91	314	12/05/91	12/10/91	JWC
STR000510AC00L	WWC*972	11/19/91	11/19/91	7300	12/05/91	12/10/91	JWC
STR0005100D00L	WWC*973	11/19/91	11/19/91	1410	12/05/91	12/10/91	JWC
STR0005100K00L	WWC*974	11/19/91	11/19/91	404	12/05/91	12/10/91	JWC
STR0005100L00L	WWC*975	11/19/91	11/19/91	93.5	12/05/91	12/10/91	JWC
STR0005100M00L	WWC*976	11/19/91	11/19/91	21.5	12/05/91	12/10/91	JWC
STR0005100N00L	WWC*977	11/19/91	11/19/91	26.4	12/05/91	12/10/91	JWC
STR0005100T00L	WWC*978	11/19/91	11/19/91	6.93	12/05/91	12/10/91	JWC
STR000210AC00L	WWC*979	11/19/91	11/19/91	345000	12/05/91	12/10/91	JWC
STR0002100D00L	WWC*980	11/19/91	11/19/91	82.3	12/05/91	12/10/91	JWC
STR0002100K00L	WWC*981	11/19/91	11/19/91	323	12/05/91	12/10/91	JWC
STR0002100L00L	WWC*982	11/19/91	11/19/91	28.1	12/05/91	12/10/91	JWC
STR0002100M00L	WWC*983	11/19/91	11/19/91	20.9	12/05/91	12/10/91	JWC
STR0002100N00L	WWC*984	11/19/91	11/19/91	17.5	12/05/91	12/10/91	JWC
STR0002100T00L	WWC*985	11/19/91	11/19/91	5.68	12/05/91	12/10/91	JWC
STR0002100T0LD	WWC*986	11/19/91	11/19/91	19.8	12/05/91	12/10/91	JWC

QC SUMMARY

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
MOISTURE	%WET WT	70320*S1	S6472	MB*NONE*1	11/12/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6473	MB*NONE*1	11/13/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6474	MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6475	MB*NONE*1	11/14/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6477	MB*NONE*1	11/15/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6483	MB*NONE*1	11/21/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6485	MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6486	MB*NONE*1	11/20/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6487	MB*NONE*1	11/22/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6488	MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6508	MB*NONE*1	11/26/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6509	MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6510	MB*NONE*1	11/27/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6519	MB*NONE*1	11/29/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S6523	MB*NONE*1	12/03/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT		S6534	MB*NONE*1	12/04/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*7		0.0	
MOISTURE	%WET WT		S6545	MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*7		0.0	
MOISTURE	%WET WT		S6562	MB*NONE*1	12/06/91	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT		S6568	MB*NONE*1		0.0	
LEAD	MG/KG-DRY	1051*SMTLS	S6476	MB*NONE*1	11/22/91	0.01	
LEAD	MG/KG-DRY			MB*NONE*2		0.009	
LEAD	MG/KG-DRY			MB*NONE*3		0.02	
LEAD	MG/KG-DRY			MB*NONE*4		0.02	
LEAD	MG/KG-DRY		S6481	MB*NONE*1	11/25/91	0.0	
LEAD	MG/KG-DRY		S6489	MB*NONE*3		0.0	
LEAD	MG/KG-DRY			MB*NONE*4		0.005	

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
LEAD	MG/KG-DRY	1051*SMTLS	S6489	MB*NONE*5	11/25/91	0.0	
LEAD	MG/KG-DRY			MB*NONE*6		0.0	
LEAD	MG/KG-DRY			MB*NONE*7		0.0	
LEAD	MG/KG-DRY		S6494	MB*NONE*1	11/27/91	0.0	
LEAD	MG/KG-DRY			MB*NONE*2		0.0	
LEAD	MG/KG-DRY			MB*NONE*3		0.0006	
LEAD	MG/KG-DRY			MB*NONE*4		0.0	
LEAD	MG/KG-DRY			MB*NONE*5		0.02	
LEAD	MG/KG-DRY			MB*NONE*6		0.04	
LEAD	MG/KG-DRY			MB*NONE*7		0.002	
LEAD	MG/KG-DRY		S6507	MB*NONE*1	11/26/91	0.01	
LEAD	MG/KG-DRY			MB*NONE*2		0.02	
LEAD	MG/KG-DRY			MB*NONE*3		0.04	
LEAD	MG/KG-DRY			MB*NONE*4		0.03	
LEAD	MG/KG-DRY			MB*NONE*5		0.07	
LEAD	MG/KG-DRY			MB*NONE*6		0.02	
LEAD	MG/KG-DRY			MB*NONE*7		0.008	
LEAD	MG/KG-DRY		S6517	MB*NONE*1	12/02/91	0.0	
LEAD	MG/KG-DRY			MB*NONE*2		0.03	
LEAD	MG/KG-DRY			MB*NONE*3		0.01	
LEAD	MG/KG-DRY			MB*NONE*4		0.02	
LEAD	MG/KG-DRY			MB*NONE*5		0.02	
LEAD	MG/KG-DRY			MB*NONE*6		0.006	
LEAD	MG/KG-DRY			MB*NONE*7		0.003	
LEAD	MG/KG-DRY		S6532	MB*NONE*1	11/26/91	0.01	
LEAD	MG/KG-DRY		S6533	MB*NONE*1	12/03/91	0.01	
LEAD	MG/KG-DRY			MB*NONE*2		0.01	
LEAD	MG/KG-DRY			MB*NONE*3		0.02	
LEAD	MG/KG-DRY			MB*NONE*4		0.02	
LEAD	MG/KG-DRY			MB*NONE*5		0.03	
LEAD	MG/KG-DRY			MB*NONE*6		0.02	
LEAD	MG/KG-DRY			MB*NONE*7		0.02	
LEAD	MG/KG-DRY		S6551	MB*NONE*1	12/05/91	0.01	
LEAD	MG/KG-DRY			MB*NONE*2		0.02	
LEAD	MG/KG-DRY			MB*NONE*3		0.01	
LEAD	MG/KG-DRY			MB*NONE*4		0.01	
LEAD	MG/KG-DRY			MB*NONE*5		0.0	
LEAD	MG/KG-DRY			MB*NONE*6		0.009	
LEAD	MG/KG-DRY			MB*NONE*7		0.005	
LEAD	MG/KG-DRY		S6560	MB*NONE*1		0.0	
LEAD	MG/KG-DRY			MB*NONE*2		0.0	
LEAD	MG/KG-DRY			MB*NONE*3		0.002	
LEAD	MG/KG-DRY		S6565	MB*NONE*1	12/10/91	0.0	
LEAD	MG/KG-DRY			MB*NONE*2		5.51	(1)
LEAD	MG/KG-DRY			MB*NONE*3		0.01	
LEAD	MG/KG-DRY			MB*NONE*4		0.02	
LEAD	MG/KG-DRY			MB*NONE*5		0.004	
LEAD	MG/KG-DRY		S6581	MB*NONE*1		0.02	
LEAD	MG/KG-DRY			MB*NONE*2		0.03	
LEAD	MG/KG-DRY			MB*NONE*3		0.05	
LEAD	MG/KG-DRY			MB*NONE*4		0.03	
LEAD	MG/KG-DRY			MB*NONE*5		0.03	
LEAD	MG/KG-DRY			MB*NONE*6		0.04	
LEAD	MG/KG-DRY			MB*NONE*7		0.02	
LEAD	MG/KG-DRY			MB*[illegible]		0.006	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD	MG/KG-DRY	1051*SMTLS	S6476	CCV*CCVB*1	11/22/91	2.00	1.90	95.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*2		2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*3		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*4		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*5		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*6		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*7		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*8		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*9		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*10		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*11		2.00	1.90	95.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*12		2.00	1.86	93.0	75-125	
LEAD	MG/KG-DRY		S6481	CCV*CCVB*1	11/25/91	2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*1		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*6		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY		S6489	CCV*CCVB*1		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*6		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*7		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*9		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*10		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*11		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*12		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*13		2.00	1.90	95.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*14		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*15		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*16		2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY		S6494	CCV*CCVB*1	11/27/91	2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*1		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*3		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*4		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*5		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*6		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*7		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*9		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*10		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*11		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*12		2.00	1.88	94.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*13		2.00	1.89	94.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*14		2.00	1.89	94.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*15		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*16		2.00	1.88	94.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*17		2.00	1.90	95.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*18		2.00	1.90	95.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*19		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY		S6507	CCV*CCVB*1	11/26/91	2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*3		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*4		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*5		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*6		2.00	1.94	97.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*7		2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.98	99.0	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD	MG/KG-DRY	1051*SMTLS	S6507	CCV*CCVC*9	11/26/91	2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*10		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*11		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*12		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*13		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*14		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*15		2.00	2.01	101	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*16		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*17		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*18		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*19		2.00	2.09	105	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*20		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY		S6517	CCV*CCVB*1	12/02/91	2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*3		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*1		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*4		2.00	1.95	97.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*5		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*6		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*7		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*9		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*10		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*12		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*13		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*14		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*15		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*16		2.00	2.08	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*17		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*19		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY		S6532	CCV*CCVB*1	11/26/91	2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*1		2.00	1.91	95.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*3		2.00	1.92	96.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*4		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY		S6533	CCV*CCVB*1	12/03/91	2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*2		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*3		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*4		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*5		2.00	2.02	101	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*6		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*7		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*9		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*10		2.00	2.05	103	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*11		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*12		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*13		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*14		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*15		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*16		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*17		2.00	2.05	103	75-125	
LEAD	MG/KG-DRY			CCV*CCVC*18		2.00	2.09	105	75-125	
LEAD	MG/KG-DRY			CCV*CCVB*19		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV* *20		2.00	2.00	10[illegible]	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD	MG/KG-DRY	1051=SMTLS	S6551	CCV=CCVB=1	12/05/91	2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.01	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.02	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.08	104	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=8		2.00	2.02	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=9		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=10		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=11		2.00	2.05	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=12		2.00	2.02	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=13		2.00	2.08	104	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=14		2.00	2.12	106	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=15		2.00	2.11	106	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=16		2.00	2.10	105	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=17		2.00	2.06	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=18		2.00	2.25	113	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=19		2.00	2.20	110	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=20		2.00	2.07	104	75-125	
LEAD	MG/KG-DRY		S6560	CCV=CCVB=1	12/06/91	2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=2		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.14	107	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=4		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=5		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=6		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=7		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=8		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=9.		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=10		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY		S6565	CCV=CCVB=1	12/10/91	2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.05	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.06	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.06	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=5		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=8		2.00	2.03	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=9		2.00	2.05	103	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=10		2.00	2.04	102	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=11		2.00	2.01	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=12		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=12		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY		S6581	CCV=CCVB=1		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=2		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=3		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.00	100.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=5		2.00	1.96	98.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=6		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.02	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=8		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=9		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=10		2.00	1.98	99.0	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=11		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=12		2.00	2.10	105	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=13		2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=14		2.00	1.95	97.5	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD	MG/KG-DRY	1051=SMTLS	S6581	CCV=CCVC=15	12/10/91	2.00	1.99	99.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=16		2.00	1.97	98.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=17		2.00	2.01	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVC=18		2.00	2.01	101	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=19		2.00	1.93	96.5	75-125	
LEAD	MG/KG-DRY			CCV=CCVB=20		2.00	1.98	99.0	75-125	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD	MG/KG-DRY	1051=SMTLS	S6476	SP=NONE=1	11/22/91	10.00	9.09	90.9	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		10.00	9.09	90.9	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	4.76	95.2	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.36	87.2	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6481	SP=NONE=1	11/25/91	5.00	4.91	98.2	75-125		20	
LEAD	MG/KG-DRY		S6489	SP=NONE=3		5.00	4.87	97.4	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.87	97.3	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.84	96.8	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	4.82	96.4	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6494	SP=NONE=1	11/27/91	5.00	5.05	101	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	4.88	97.6	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	4.94	98.8	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.79	95.8	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.59	91.8	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	4.67	93.4	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=7		5.00	4.75	95.0	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6507	SP=NONE=1	11/26/91	5.00	4.74	94.8	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	4.89	97.7	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	4.84	96.9	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.91	98.2	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.69	93.9	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	4.82	96.4	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=7		5.00	4.96	99.2	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6517	SP=NONE=1	12/02/91	5.00	4.87	97.4	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	4.79	95.8	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	4.82	96.3	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	5.07	101	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.87	97.3	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	4.98	99.7	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=7		5.00	5.02	100	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6532	SP1=NONE=1	11/26/91	5.00	4.91	98.2	75-125		20	
LEAD	MG/KG-DRY		S6533	SP=NONE=1	12/03/91	5.00	4.92	98.3	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	4.98	99.6	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	5.09	102	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.88	97.6	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	5.04	101	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	5.01	100	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=7		5.00	4.87	97.4	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6551	SP=NONE=1	12/05/91	5.00	5.06	101	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	5.14	103	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	5.00	100.0	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	4.98	99.5	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	5.14	103	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=N[illegible]=6		5.00	5.24	10[illegible]	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=[illegible]		5.00	5.36	[illegible]	75-125	RPD=1	20	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD	MG/KG-DRY		S6560	SP=NONE=1	12/06/91	5.00	5.06	101	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	5.18	104	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	5.07	101	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6565	SP=NONE=1	12/10/91	5.00	5.06	101	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	-.12	-2.37	75-125	RPD=1	20	(2)
LEAD	MG/KG-DRY			SP=NONE=3		5.00	5.11	102	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=4		5.00	5.05	101	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.39	87.7	75-125	RPD=1	20	
LEAD	MG/KG-DRY		S6581	SP=NONE=1		5.00	4.99	99.7	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=2		5.00	4.85	97.1	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=3		5.00	4.84	96.9	75-125	RPD=1	20	
LEAD	MG/KG-DRY	1051=SMTLS	S6581	SP=NONE=4	12/10/91	5.00	4.95	98.9	75-125		20	
LEAD	MG/KG-DRY			SP=NONE=5		5.00	4.72	94.5	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=6		5.00	4.76	95.1	75-125	RPD=1	20	
LEAD	MG/KG-DRY			SP=NONE=7		5.00	4.78	95.6	75-125	RPD=1	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD	MG/KG-DRY	1051=SMTLS	S6476	SPM1=WWC=20	11/22/91	1150	1030	89.3	75-125	314		20	
LEAD	MG/KG-DRY			SPM2=WWC=20		1150	1020	88.3	75-125	314	1.01	20	
LEAD	MG/KG-DRY			SPM1=WWC=40		1210	1080	89.3	75-125	368		20	
LEAD	MG/KG-DRY			SPM2=WWC=40		1240	1120	90.8	75-125	368	1.55	20	
LEAD	MG/KG-DRY			SPM1=WWC=60		539	310	57.5	75-125	504		20	(3)
LEAD	MG/KG-DRY			SPM2=WWC=60		573	229	40.0	75-125	504	35.9	20	(3)
LEAD	MG/KG-DRY			SPM1=WWC=80		567	489	86.2	75-125	238		20	
LEAD	MG/KG-DRY			SPM2=WWC=80		619	1550	251	75-125	238	97.7	20	(3)
LEAD	MG/KG-DRY		S6481	SPM1=WWC=100	11/25/91	651	638	98.0	75-125	392		20	
LEAD	MG/KG-DRY			SPM2=WWC=100		650	628	96.7	75-125	392	1.34	20	
LEAD	MG/KG-DRY		S6489	SPM1=WWC=140		559	521	93.3	75-125	189		20	
LEAD	MG/KG-DRY			SPM2=WWC=140		592	483	81.6	75-125	189	13.3	20	
LEAD	MG/KG-DRY			SPM1=WWC=160		602	631	105	75-125	579		20	
LEAD	MG/KG-DRY			SPM2=WWC=160		553	491	88.7	75-125	579	16.8	20	
LEAD	MG/KG-DRY			SPM1=WWC=180		598	664	111	75-125	346		20	
LEAD	MG/KG-DRY			SPM2=WWC=180		679	774	114	75-125	346	2.67	20	
LEAD	MG/KG-DRY			SPM1=WWC=200		638	585	91.7	75-125	396		20	
LEAD	MG/KG-DRY			SPM2=WWC=200		592	542	91.5	75-125	396	0.22	20	
LEAD	MG/KG-DRY		S6494	SPM1=WWC=220	11/27/91	611	660	108	75-125	390		20	
LEAD	MG/KG-DRY			SPM2=WWC=220		608	603	99.1	75-125	390	8.59	20	
LEAD	MG/KG-DRY			SPM1=WWC=240		573	538	93.9	75-125	182		20	
LEAD	MG/KG-DRY			SPM2=WWC=240		561	528	94.1	75-125	182	0.21	20	
LEAD	MG/KG-DRY			SPM1=WWC=260		564	497	88.1	75-125	56.3		20	
LEAD	MG/KG-DRY			SPM2=WWC=260		603	549	91.0	75-125	56.3	3.24	20	
LEAD	MG/KG-DRY			SPM1=WWC=280		572	472	82.5	75-125	508		20	
LEAD	MG/KG-DRY			SPM2=WWC=280		572	552	96.5	75-125	508	15.6	20	
LEAD	MG/KG-DRY			SPM1=WWC=300		617	1370	221	75-125	654		20	(3)
LEAD	MG/KG-DRY			SPM2=WWC=300		594	526	88.6	75-125	654	85.5	20	
LEAD	MG/KG-DRY			SPM1=WWC=320		721	682	94.6	75-125	221		20	
LEAD	MG/KG-DRY			SPM2=WWC=320		675	598	88.6	75-125	221	6.55	20	
LEAD	MG/KG-DRY			SPM1=WWC=340		597	612	102	75-125	578		20	
LEAD	MG/KG-DRY			SPM2=WWC=340		621	542	87.3	75-125	578	16.5	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT	FOOTNOTE
LEAD	MG/KG-DRY		S6507	SPN1*WWC*360	11/26/91	541	521	96.2	75-125	219		20	
LEAD	MG/KG-DRY			SPN2*WWC*360		543	540	99.4	75-125	219	3.17	20	
LEAD	MG/KG-DRY			SPN1*WWC*380		592	557	94.1	75-125	424		20	
LEAD	MG/KG-DRY			SPN2*WWC*380		556	530	95.4	75-125	424	1.37	20	
LEAD	MG/KG-DRY			SPN1*WWC*400		512	555	109	75-125	209		20	
LEAD	MG/KG-DRY			SPN2*WWC*400		597	592	99.1	75-125	209	8.59	20	
LEAD	MG/KG-DRY			SPN1*WWC*420		592	639	108	75-125	157		20	
LEAD	MG/KG-DRY			SPN2*WWC*420		528	539	102	75-125	157	5.71	20	
LEAD	MG/KG-DRY			SPN1*WWC*440		533	544	102	75-125	317		20	
LEAD	MG/KG-DRY			SPN2*WWC*440		589	559	94.8	75-125	317	7.32	20	
LEAD	MG/KG-DRY			SPN1*WWC*460		594	637	107	75-125	261		20	
LEAD	MG/KG-DRY			SPN2*WWC*460		624	707	113	75-125	261	5.45	20	
LEAD	MG/KG-DRY			SPN1*WWC*480		623	883	142	75-125	887		20	(3)
LEAD	MG/KG-DRY			SPN2*WWC*480		617	743	120	75-125	887	16.8	20	
LEAD	MG/KG-DRY		S6517	SPN1*WWC*500	12/02/91	605	822	136	75-125	708		20	(3)
LEAD	MG/KG-DRY			SPN2*WWC*500		661	952	144	75-125	708	5.71	20	(3)
LEAD	MG/KG-DRY			SPN1*WWC*520		569	570	100	75-125	1460		20	
LEAD	MG/KG-DRY			SPN2*WWC*520		615	730	119	75-125	1460	17.4	20	
LEAD	MG/KG-DRY			SPN1*WWC*540		584	471	80.6	75-125	422		20	
LEAD	MG/KG-DRY			SPN2*WWC*540		559	396	70.9	75-125	422	12.9	20	(3)
LEAD	MG/KG-DRY			SPN1*WWC*560		624	637	102	75-125	317		20	
LEAD	MG/KG-DRY			SPN2*WWC*560		569	539	94.7	75-125	317	7.42	20	
LEAD	MG/KG-DRY			SPN1*WWC*580		553	1460	263	75-125	345		20	(3)
LEAD	MG/KG-DRY			SPN2*WWC*580		543	548	101	75-125	345	89.0	20	
LEAD	MG/KG-DRY	1051*SMTLS	S6517	SPN1*WWC*600	12/02/91	587	624	106	75-125	138		20	
LEAD	MG/KG-DRY			SPN2*WWC*600		525	469	89.3	75-125	138	17.1	20	
LEAD	MG/KG-DRY			SPN1*WWC*620		563	548	97.4	75-125	187		20	
LEAD	MG/KG-DRY			SPN2*WWC*620		577	567	98.2	75-125	187	0.92	20	
LEAD	MG/KG-DRY		S6532	SPN*WWC*120	11/26/91	597	690	116	75-125	205		20	
LEAD	MG/KG-DRY			SPN2*WWC*120		594	582	98.0	75-125	205		20	
LEAD	MG/KG-DRY		S6533	SPN1*WWC*640	12/03/91	601	564	93.8	75-125	696		20	
LEAD	MG/KG-DRY			SPN2*WWC*640		591	564	95.5	75-125	696	1.80	20	
LEAD	MG/KG-DRY			SPN1*WWC*660		524	511	97.5	75-125	153		20	
LEAD	MG/KG-DRY			SPN2*WWC*660		552	555	101	75-125	153	3.52	20	
LEAD	MG/KG-DRY			SPN1*WWC*680		551	440	79.9	75-125	1050		20	
LEAD	MG/KG-DRY			SPN2*WWC*680		581	820	141	75-125	1050	55.3	20	(3)
LEAD	MG/KG-DRY			SPN1*WWC*700		605	586	96.9	75-125	341		20	
LEAD	MG/KG-DRY			SPN2*WWC*700		605	574	94.9	75-125	341	2.09	20	
LEAD	MG/KG-DRY			SPN1*WWC*720		552	461	83.5	75-125	289		20	
LEAD	MG/KG-DRY			SPN2*WWC*720		569	515	90.5	75-125	289	8.05	20	
LEAD	MG/KG-DRY			SPN1*WWC*740		552	498	90.2	75-125	305		20	
LEAD	MG/KG-DRY			SPN2*WWC*740		589	559	95.0	75-125	305	5.18	20	
LEAD	MG/KG-DRY			SPN1*WWC*760		598	597	99.8	75-125	683		20	
LEAD	MG/KG-DRY			SPN2*WWC*760		583	587	101	75-125	683	1.20	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD	MG/KG-DRY		S6551	SPM1=WMC=780	12/05/91	576	562	97.6	75-125	216		20	
LEAD	MG/KG-DRY			SPM2=WMC=780		593	512	86.4	75-125	216	12.2	20	
LEAD	MG/KG-DRY			SPM1=WMC=800		552	573	104	75-125	114		20	
LEAD	MG/KG-DRY			SPM2=WMC=800		579	581	100	75-125	114	3.92	20	
LEAD	MG/KG-DRY			SPM1=WMC=820		537	-1460	-272	75-125	2650		20	(4)
LEAD	MG/KG-DRY			SPM2=WMC=820		623	-1350	-217	75-125	2650		20	(4)
LEAD	MG/KG-DRY			SPM1=WMC=840		563	571	101	75-125	98.6		20	
LEAD	MG/KG-DRY			SPM2=WMC=840		586	591	101	75-125	98.6	0.0	20	
LEAD	MG/KG-DRY			SPM1=WMC=860		540	472	87.4	75-125	393		20	
LEAD	MG/KG-DRY			SPM2=WMC=860		648	637	98.3	75-125	393	11.7	20	
LEAD	MG/KG-DRY			SPM1=WMC=880		562	704	125	75-125	75.7		20	
LEAD	MG/KG-DRY			SPM2=WMC=880		562	610	109	75-125	75.7	13.7	20	
LEAD	MG/KG-DRY			SPM1=WMC=900		589	743	126	75-125	467		20	(3)
LEAD	MG/KG-DRY			SPM2=WMC=900		639	703	110	75-125	467	13.6	20	
LEAD	MG/KG-DRY		S6560	SPM1=WMC=920	12/06/91	581	427	73.5	75-125	395		20	(3)
LEAD	MG/KG-DRY			SPM2=WMC=920		561	197	35.1	75-125	395	70.7	20	(3)
LEAD	MG/KG-DRY			SPM1=WMC=940		616	612	99.3	75-125	93.2		20	
LEAD	MG/KG-DRY			SPM2=WMC=940		588	590	100	75-125	93.2	0.70	20	
LEAD	MG/KG-DRY			SPM1=WMC=960		625	537	85.9	75-125	543		20	
LEAD	MG/KG-DRY			SPM2=WMC=960		584	637	109	75-125	543	23.7	20	
LEAD	MG/KG-DRY		S6565	SPM1=WMC=980	12/10/91	477	671	141	75-125	82.3		20	(5)
LEAD	MG/KG-DRY			SPM2=WMC=980		482	593	123	75-125	82.3	13.6	20	
LEAD	MG/KG-DRY			SPM1=WMC=986		504	497	98.7	75-125	19.8		20	
LEAD	MG/KG-DRY			SPM2=WMC=986		547	542	99.1	75-125	19.8	0.40	20	
LEAD	MG/KG-DRY			SPM1=WMC2=20		638	614	96.2	75-125	255		20	
LEAD	MG/KG-DRY			SPM2=WMC2=20		608	575	94.5	75-125	255	1.78	20	
LEAD	MG/KG-DRY			SPM1=WMC2=40		620	546	88.1	75-125	233		20	
LEAD	MG/KG-DRY			SPM2=WMC2=40		615	589	95.8	75-125	233	8.37	20	
LEAD	MG/KG-DRY			SPM1=WMC2=60		542	900	166	75-125	42.4		20	(3)
LEAD	MG/KG-DRY			SPM2=WMC2=60		566	553	97.6	75-125	42.4	51.9	20	
LEAD	MG/KG-DRY		S6581	SPM1=WMC2=80		524	500	95.5	75-125	12.7		20	
LEAD	MG/KG-DRY			SPM2=WMC2=80		504	468	92.8	75-125	12.7	2.87	20	
LEAD	MG/KG-DRY			SPM1=WMC2=100		609	701	115	75-125	329		20	
LEAD	MG/KG-DRY			SPM2=WMC2=100		714	589	82.5	75-125	329	32.9	20	
LEAD	MG/KG-DRY			SPM1=WMC2=120		572	554	96.8	75-125	94.1		20	
LEAD	MG/KG-DRY			SPM2=WMC2=120		582	572	98.3	75-125	94.1	1.54	20	
LEAD	MG/KG-DRY	1051=SMTLS	S6581	SPM1=WMC2=140	12/10/91	665	148	22.3	75-125	912		20	(3)
LEAD	MG/KG-DRY			SPM2=WMC2=140		669	208	31.1	75-125	912	33.0	20	(3)
LEAD	MG/KG-DRY			SPM1=WMC2=160		602	310	51.5	75-125	1520		20	(3)
LEAD	MG/KG-DRY			SPM2=WMC2=160		693	200	28.9	75-125	1520	56.2	20	(3)
LEAD	MG/KG-DRY			SPM1=WMC2=180		644	658	102	75-125	218		20	
LEAD	MG/KG-DRY			SPM2=WMC2=180		634	689	109	75-125	218	6.64	20	
LEAD	MG/KG-DRY			SPM1=WMC2=200		684	600	87.8	75-125	89.6		20	
LEAD	MG/KG-DRY			SPM2=WMC2=200		664	580	87.4	75-125	89.6	0.46	20	

(1)- Sample carry-over. Method blank reanalyzed as sample MB=MONE=8 in batch S6581 and demonstrated acceptable recovery.
(2)- Sample recovery corrected using a falsely high background (see note 1). Sample demonstrates acceptable recovery when the proper background is used.
(3)- Sample inhomogeneity.
(4)- Not applicable, the concentration of the target compound in the sample matrix was found to be > 4 times the spiking level.

WNC/WNC-R

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 1

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	11/4	1000	S MP1713 1 00A 00L	1	X			
2		1005	S MP1713 1 00B 00L	1	X			
3		1010	S MP1713 1 00C 00L	1	X			
4		1050	S MP1713 2 00A 00L	1	X			
5		1055	S MP1713 2 00B 00L	1	X			
6		1100	S MP1713 2 00C 00L	1	X			
7		1140	S MP1716 1 00A 00L	1	X			
8		1145	S MP1716 1 00B 00L	1	X			
9		1150	S MP1716 1 00C 00L	1	X			
10		1225	S MP1716 2 00A 00L	1	X			
11		1234	S MP1716 2 00B 00L	1	X			
12		1242	S MP1716 2 00C 00L	1	X			
13		2:56	S MP1720 1 00A 00L	1	X			
14		3:01	S MP1720 1 00B 00L	1	X			
15		3:10	S MP1720 1 00C 00L	1	X			
16		3:40	S MP1720 2 00A 00L	1	X			
17		3:43	S MP1720 2 00B 00L	1	X			
18		3:45	S MP1720 2 00C 00L	1	X			
1		4:30	W DEIONIZED 1	1				500 ml Total Metals
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/4/91 4:30		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]		[signature]	11/4/91 6:10
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WC/WWC-R

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of ___

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] / Peg W Schmer

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
19	11/4/91	1005	S	MPL6C	1	CCA	DOL	1	X			
20	11/4/91	1007	S	MPL6C	1	CCB	DOL	1	X			
21	11/4/91	1010	S	MPL6C	1	CCC	DOL	1	X			
22	11/4/91	1045	S	MPL6C	2	CCA	DOL	1	X			
23	11/4/91	1045	S	MPL6C	2	CCB	DOL	1	X			
24	11/4/91	1047	S	MPL6C	2	CCC	DOL	1	X			
25	11/4/91	1126	S	MPL6LC	1	CCA	DOL	1	X			
26	11/4/91	1130	S	MPL6LC	1	CCB	DOL	1	X			
27	11/4/91	1135	S	MPL6LC	1	CCC	DOL	1	X			
28	11/4/91	1150	S	MPL6LC	2	CCA	DOL	1	X			
29	11/4/91	1153	S	MPL6LC	2	CCB	DOL	1	X			
30	11/4/91	1157	S	MPL6LC	2	CCC	DOL	1	X			
31	11/4/91	1422	S	MPL6Z2	1	CCA	DOL	1	X			
32	11/4/91	1427	S	MPL6Z2	1	CCB	DOL	1	X			
33	11/4/91	1425	S	MPL6Z2	1	CCC	DOL	1	X			
34	11/4/91	1440	S	MPL6Z2	2	CCA	DOL	1	X			
35	11/4/91	1445	S	MPL6Z2	2	CCB	DOL	1	X			
36	11/4/91	1450	S	MPL6Z2	2	CCC	DOL	1	X			
37	11/4/91	1535	S	MPL6LC	1	CCA	DOL	1	X			
38	11/4/91	1540	S	MPL6LC	1	CCB	DOL	1	X			
39	11/4/91	1545	S	MPL6LC	1	CCC	DOL	1	X			
40	11/4/91	1605	S	MPL6LC	2	CCA	DOL	1	X			
41	11/4/91	1609	S	MPL6LC	2	CCB	DOL	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Moyer	11/4/91 5:05		
RELINQUISHED BY: (Signature) [illegible]	DATE / TIME	RECEIVED AT LAB BY: (Signature) [illegible]	DATE / TIME 11/4/91 6:10
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WMC/WMC-R

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of ___

OJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

MPLER'S: (Signatures) [signatures]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
11/1	1612	S	08L640	2	[illegible]	[illegible]	1	X			
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/4/91 5:05		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]		[signature]	11/4/91 6:10 PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

COOLE E RECEIPT FORM

1 10/7/91 WWC/WWC-

ESE Cooler # ✓ 134
Client Cooler # _____
No Cooler _____

roject: Woodward-Clyde _____ Date/Time Received: 11-4-91 1810

SE OTHER SIDE OF THIS FORM TO NOTE FURTHER D ILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY CTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

F INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-5-91 830

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a ipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and ente arrier and air bill number here: _____
3. Were custody seals on ou side of cooler? . . . . . YES NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-4-91, seal name: Mark Wallace, Ray Schener
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? sec'd by Ethan Litsey . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-5-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

. Describe packing: samples in ice
12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
. Were correct containers used for the tests indicated? . . . . . YES NO
18. Were correct preservatives used when required? . . . . . YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
   Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
   Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
   Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

Sample rejection criteria

\CHEMCOM\CRF.01

SMP1716100Cool, the time rubbed out on lable

WWC

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
43	11/5/91	0820	S	MP1643	1	00A	00L	/	1	X ✓			
44	11/5/91	0825	S	MP1643	1	00B	00L	/	1	X ✓			
45	11/5/91	0828	S	MP1643	1	00C	00L	/	1	X ✓			
46	11/5/91	0845	S	MP1647	1	00A	00L	/	1	X ✓			
47	11/5/91	0847	S	MP1647	1	00B	00L	/	1	X ✓			
48	11/5/91	0842	S	MP1647	1	00C	00L	/	1	X ✓			
49	11/5/91	0905	S	MP1643	2	00A	00L	/	1	X ✓			
50	11/5/91	0910	S	MP1643	2	00B	00L	/	1	X ✓			
51	11/5/91	0915	S	MP1643	2	00C	00L	/	1	X ✓			
52	11/5/91	0935	S	MP1644	1	00A	00L	/	1	X ✓			
53	11/5/91	0945	S	MP1644	1	00B	00L	/	1	X ✓			
54	11/5/91	0940	S	MP1644	1	00C	00L	/	1	X ✓			
55	11/5/91	0954	S	MP1644	2	00A	00L	/	1	X ✓			
56	11/5/91	0957	S	MP1644	2	00B	00L	/	1	X ✓			
57	11/5/91	1000	S	MP1644	2	00C	00L	/	1	X ✓			
58	11/5/91	1025	S	MP1648	1	00A	00L	/	1	X ✓			
59	11/5/91	1030	S	MP1648	1	00B	00L	/	1	X ✓			
60	11/5/91	1033	S	MP1648	1	00C	00L	/	1	X ✓			
61	11/5/91	1050	S	MP1648	2	00A	00L	/	1	X ✓			
62	11/5/91	1053	S	MP1648	2	00B	00L	/	1	X ✓			
63	11/5/91	1057	S	MP1648	2	00C	00L	/	1	X ✓			
64	11/5/91	1300	S	OL1601	1	00A	00L	/	1	X ✓			
65	11/5/91	1304	S	OL1601	1	00B	00L	/	1	X ✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/5/91 5:40		11/5 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/5 630	Ethan Litsey	11/5 6:30 PM
METHOD OF SHIPMENT: WWC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
66	11/5/91	1310	S	0L1601	1	00C	00L	-	1	X			
67	11/5/91	1324	S	0L1601	2	00A	00L	-	1	X			
68	11/5/91	1328	S	0L1601	2	00B	00L	-	1	X			
69	11/5/91	1333	S	0L1601	2	00C	00L	-	1	X			
70	11/5/91	1351	S	0L1625	1	00A	00L	-	1	X			
71	11/5/91	1355	S	0L1625	1	00B	00L	-	1	X			
72	11/5/91	1400	S	0L1625	1	00C	00L	-	1	X			
73	11/5/91	1415	S	0L1625	2	00A	00L	-	1	X			
74	11/5/91	1420	S	0L1625	2	00B	00L	-	1	X			
75	11/5/91	1425	S	0L1625	2	00C	00L	-	1	X			
76	11/5/91	1444	S	0L1629	1	00A	00L	-	1	X			
77	11/5/91	1447	S	0L1629	1	00B	00L	-	1	X			
78	11/5/91	1450	S	0L1629	1	00C	00L	-	1	X			
79	11/5/91	1500	S	0L1629	2	00A	00L	-	1	X			
80	11/5/91	1505	S	0L1629	2	00B	00L	-	1	X			
81	11/5/91	1508	S	0L1629	2	00C	00L	-	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/5/91 5:40		11/5 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/5 630		11/5 6:30

METHOD OF SHIPMENT: WCC Employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 1

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
82	11/5	8:40	S MP1730 1 00A 00L	1	X			
83		8:45	S MP1730 1 00B 00L	1	X			
84		8:52	S MP1730 1 00C 00L	1	X			
85		9:25	S MP1730 2 00A 00L	1	X			
86		9:30	S MP1730 2 00B 00L	1	X			
87		9:36	S MP1730 2 00C 00L	1	X			
88		10:15	S MP1738 1 00A 00L	1	X			
89		10:20	S MP1738 1 00B 00L	1	X			
90		10:25	S MP1738 1 00C 00L	1	X			
91		10:55	S MP1738 2 00A 00L	1	X			
92		11:05	S MP1738 2 00B 00L	1	X			
93		11:10	S MP1738 2 00C 00L	1	X			
94		11:30	S MP1739 1 00A 00L	1	X			
95		11:35	S MP1739 1 00B 00L	1	X			
96		11:40	S MP1739 1 00C 00L	1	X			
97		11:50	S MP1739 2 00A 00L	1	X			
98		12:00	S MP1739 2 00B 00L	1	X			
99		12:05	S MP1739 2 00C 00L	1	X			
100		2:15	S MP1741 1 00A 00L	1	X			
101		2:20	S MP1741 1 00B 00L	1	X			
102		2:25	S MP1741 1 00C 00L	1	X			
103		2:35	S MP1741 2 00A 00L	1	X			
104		2:40	S MP1741 2 00B 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/5/91 5:16	[illegible signature]	11/5 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible signature]	11/5 638	Ethan [illegible]	11/5 6:30P
METHOD OF SHIPMENT: WCC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	11/5	2:45	S	AP1741	2	00C	00L	1	X			
06		2:55	S	MP1742	1	00A	00L	1	X			
7		3:00	S	MP1742	1	00B	00L	1	X			
08		3:05	S	MP1742	1	00C	00L	1	X			
9		3:10	S	MP1742	2	00A	00L	1	X			
10		3:15	S	MP1742	2	00B	00L	1	X			
11		3:20	S	MP1742	2	00C	00L	1	X			
12		3:50	S	MP1747	1	00A	00L	1	X			
13		3:55	S	MP1747	1	00B	00L	1	X			
14		4:00	S	MP1747	1	00C	00L	1	X			
15		4:15	S	MP1747	2	00A	00L	1	X			
16		4:20	S	MP1747	2	00B	00L	1	X			
17		4:25	S	MP1747	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/5/91 5:16	[illegible]	11/5 5:40
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/5 6:30	Ethan [illegible]	11/5 6:30 PM

METHOD OF SHIPMENT: WCC Employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____
No Cooler _____

Project: Woodward - Clyde Consultants Date/Time Received: 11-5-91 1830

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-6-91 830

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-5-91, seal name: Mark Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc® bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
*9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-6-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

U:\WP\CHEMCOM\CRF.01

*) Time Rubbed out on sample #'s labels 1738200 AOOL, 1739100
1742200 BOOL, 1747200 BOOL
*9) - Ethan Litsey signed

CHAIN OF CUSTODY RECORD

WWC

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 OF 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
118	11/6	7:30	S AP1744 1 00A 00L	1	X			
119		7:36	S AP1744 1 00B 00L	1	X			
120		7:40	S AP1744 1 00C 00L	1	X			
121		8:00	S MP1744 2 00A 00L	1	X			
122		8:05	S MP1744 2 00B 00L	1	X			
123		8:10	S MP1744 2 00C 00L	1	X			*
124		9:10	S OL1712 1 00A 00L	1	X			sample ID
125		9:15	S OL1712 1 00B 00L	1	X			attached to
126		9:20	S OL1712 1 00C 00L	1	X			the lid.
127		9:50	S OL1712 2 00A 00L	1	X			Record before
128		9:55	S OL1712 2 00B 00L	1	X			opening.
129		10:00	S OL1712 2 00C 00L	1	X			
130		10:30	S OL1713 1 00A 00L	1	X			
131		10:35	S OL1713 1 00B 00L	1	X			
132		10:40	S OL1713 1 00C 00L	1	X			
133		10:55	S OL1713 2 00A 00L	1	X			
134		11:00	S OL1713 2 00B 00L	1	X			
135		11:05	S OL1713 2 00C 00L	1	X			
136		11:40	S OL1712 2 00A 00L	1	X			
137		11:40	S OL1712 1 00A 00L	1	X			
138		11:45	S OL1712 1 00B 00L	1	X			
139		11:45	S OL1712 1 00B 00L	1	X			
140		11:50	S OL1712 1 00C 00L	1	X			

per Cynthia at Woodward Clyde, the first 6 characters in these samples should be OL1713. SGW 11/07
this one should be OL1712.

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Mygel	11/6 5:30	[illegible]	11/6/91 530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/6 6:30	Ethan Lutsey	11-6 6:30
METHOD OF SHIPMENT: WCC Empl		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

WWC

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
141	11/6	11:50	S 02L212 1 00C02D	1	X			
142		12:25	S 02L212 2 00A00L	1	X			
143		12:25	S 02L212 2 00A02M	1	X			
144		12:25	S 02L212 2 00A02X	1	X			
145		12:30	S 02L212 2 00B00L	1	X			
146		12:30	S 02L212 2 00B02M	1	X			
147		12:30	S 02L212 2 00B02X	1	X			
148		12:35	S 02L212 2 00C00L	1	X			
149		12:35	S 02L212 2 00C02M	1	X			
150		12:35	S 02L212 2 00C02X	1	X			
151		2:45	S 02L234 1 00A00L	1	X			
152		2:50	S 02L234 1 00B00L	1	X			
153		3:10	S 02L234 1 00C00L	1	X			
154		3:25	S 02L234 2 00A00L	1	X			
155		3:30	S 02L234 2 00B00L	1	X			
156		3:35	S 02L234 2 00C00L	1	X			
157		3:40	S 02L244 1 00A00L	1	X			
158		3:45	S 02L244 1 00B00L	1	X			
159		3:50	S 02L244 1 00C00L	1	X			
160		3:55	S 02L244 2 00A00L	1	X			
161		4:00	S 02L244 2 00A00L	1	X			
162		4:05	S 02L244 2 00C00L	1	X			
			S _____					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meeker	11/6 5:30	[illegible]	11/6/91 530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/6/91 630	Ethan [illegible]	11-6 6:30PM

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 6

WWC

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
163	11/6/91	0740	S	OL1634	1	00A	00L	1	X			
164	11/6/91	0743	S	OL1632	1	00B	00L	1	X			
165	11/6/91	0747	S	OL1632	1	00C	00L	1	X			
166	11/6/91	0750	S	OL1632	2	00A	00L	1	X			
167	11/6/91	0753	S	OL1632	2	00B	00L	1	X			
168	11/6/91	0756	S	OL1632	2	00C	00L	1	X			
169	11/6/91	0815	S	OL1634	1	00A	00L	1	X			
170	11/6/91	0829	S	OL1634	1	00B	00L	1	X			
171	11/6/91	0824	S	OL1634	1	00C	00L	1	X			
172	11/6/91	0835	S	OL1634	2	00A	00L	1	X			
173	11/6/91	0842	S	OL1634	2	00B	00L	1	X			
174	11/6/91	0838	S	OL1634	2	00C	00L	1	X			
175	11/6/91	0912	S	OL1636	1	00A	00L	1	X			
176	11/6/91	0916	S	OL1636	1	00B	00L	1	X			
177	11/6/91	0919	S	OL1636	1	00C	00L	1	X			
178	11/6/91	0938	S	OL1636	2	00A	00L	1	X			
179	11/6/91	0942	S	OL1636	2	00B	00L	1	X			
180	11/6/91	0934	S	OL1636	2	00C	00L	1	X			
181	11/6/91	1005	S	OL1638	1	00A	00L	1	X			
182	11/6/91	1010	S	OL1638	1	00B	00L	1	X			
183	11/6/91	1013	S	OL1638	1	00C	00L	1	X			
184	11/6/91	1020	S	OL1640	1	00A	00L	1	X			
185	11/6/91	1023	S	OL1640	1	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Hawkins	11/6/91 5:30pm		11/6/91 5:30
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/6/91 6:30		11-6 6:30

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

WWC

SHEET 4 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	11/6/91	1027	S	DL L640	L	00C	00L	✓	1	X			
7	11/6/91	1036	S	DL L640	2	00A	00L	✓	1	X			
8	11/6/91	1040	S	DL L640	2	00B	00L	✓	1	X			
189	11/6/91	1044	S	DL L640	2	00C	00L	✓	1	X			
90	11/6/91	1302	S	CH L731	1	00A	00L	✓	1	X			
91	11/6/91	1305	S	CH L731	1	00B	00L	✓	1	X			
92	11/6/91	1310	S	CH L731	1	00C	00L	✓	1	X			
93	11/6/91	1325	S	CH L731	2	00A	00L	✓	1	X			
194	11/6/91	1323	S	CH L731	2	00B	00L	✓	1	X			
95	11/6/91	1319	S	CH L731	2	00C	00L	✓	1	X			
196	11/6/91	1352	S	CH L735	1	00A	00L	✓	1	X			
97	11/6/91	1356	S	CH L735	1	00B	00L	✓	1	X			
98	11/6/91	1400	S	CH L735	1	00C	00L	✓	1	X			
99	11/6/91	1422	S	CH L735	2	00A	00L	✓	1	X			
200	11/6/91	1416	S	CH L735	2	00B	00L	✓	1	X			
01	11/6/91	1412	S	CH L735	2	00C	00L	✓	1	X			
02	11/6/91	1452	S	CH L739	1	00A	00L	✓	1	X			
203	11/6/91	1455	S	CH L739	1	00B	00L	✓	1	X			
04	11/6/91	1448	S	CH L739	1	00C	00L	✓	1	X			
205	11/6/91	1500	S	CH L739	2	00A	00L	✓	1	X			
06	11/6/91	1505	S	CH L739	2	00B	00L	✓	1	X			
207	11/6/91	1510	S	CH L739	2	00C	00L	✓	1	X			
08	11/6/91	1528	S	CH L728	1	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pamplin	11/6/91 5:30pm	[illegible]	11/6/91 5:30
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/6/91 6:30	[illegible]	11-6 6:30

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET ~~3~~ 5 of 6

WWC

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
9	11/6/91	1531	S	CH1728	1	00B	00L	1	X			
210	11/6/91	1535	S	CH1728	1	00C	00L	1	X			
1	11/6/91	1543	S	CH1728	2	00A	00L	1	X			
212	11/6/91	1546	S	CH1728	2	00B	00L	1	X			
3	11/6/91	1538	S	CH1728	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/6/91 5:30pm	[signature]	11/6/91 530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/6/91 630	[signature]	11-6 6:30

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 159
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Consultants Date/Time Received: 11-6-91 1830

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-7-91 1015

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-6-91, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
* 9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-7-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO SGN
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

*9) Ethan Litzy signed papers.

*16) ESE # 130-136 had an extra character in sample I.D. JFG & D →

called Cynthia at WWC to verify sample I.D.s correct
numbers are on the logsheet. SH

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of [illegible]

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
14	11-7-91	10:35	S	SP1645	1	00A	00L	1	X			
15		10:45	S	SP1645	1	00B	00L	1	X			
16		10:50	S	SP1645	1	00C	00L	1	X			
17		11:10	S	SP1645	2	00A	00L	1	X			
18		11:15	S	SP1645	2	00B	00L	1	X			
19		11:[illegible]	S	SP1645	2	00C	00L	1	X			
20		11:40	S	SP1638	1	00A	00L	1	X			
21		11:45	S	SP1638	1	00B	00L	1	X			
22		11:50	S	SP1638	1	00C	00L	1	X			
23		12:15	S	SP1638	2	00A	00L	1	X			
24		12:20	S	SP1638	2	00B	00L	1	X			
25		12:25	S	SP1638	2	00C	00L	1	X			
26		2:00	S	SP1626	1	00A	00L	1	X			
27		2:05	S	SP1626	1	00B	00L	1	X			
28		2:10	S	SP1626	1	00C	00L	1	X			
29		2:25	S	SP1626	2	00A	00L	1	X			
30		2:30	S	SP1626	2	00B	00L	1	X			
31		2:35	S	SP1626	2	00C	00L	1	X			
32		2:55	S	SP1634	1	00A	00L	1	X			
33		3:00	S	SP1634	1	00B	00L	1	X			
34		3:05	S	SP1634	1	00C	00L	1	X			
35		3:15	S	SP1634	2	00A	00L	1	X			
36		3:20	S	SP1634	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Moser	11/7 5:35	[illegible]	11/7 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/7 645	Jeffrey White	11-7-91 18:45

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
11-7-91	3:25	S	SBL634	2	00C	00L	1	X			
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/7 5:35		11/7 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/7 645		11-7-91 18:45

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

Copies 1-7

SHEET 3 of 4

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
38	11/7/91	1036	S	CM1719	1	00A	00	1	X			
39	11/7/91	1041	S	CM1719	1	00B	00	1	X			
40	11/7/91	1045	S	CM1719	1	00C	00	1	X			
241	11/7/91	1104	S	CM1719	2	00A	00	1	X			
42	11/7/91	1106	S	CM1719	2	00B	00	1	X			
43	11/7/91	1113	S	CM1719	2	00C	00	1	X			
244	11/7/91	1153	S	CM1714	1	00A	00	1	X			
45	11/7/91	1200	S	CM1714	1	00B	00	1	X			
246	11/7/91	1208	S	CM1714	1	00C	00	1	X			
47	11/7/91	1243	S	CM1714	2	00A	00	1	X			
248	11/7/91	1247	S	CM1714	2	00B	00	1	X			
249	11/7/91	1252	S	CM1714	2	00C	00	1	X			
50	11/7/91	1432	S	CM1715	1	00A	00	1	X			
51	11/7/91	1435	S	CM1718	1	00B	00	1	X			
52	11/7/91	1500	S	CM1718	1	00C	00	1	X			
53	11/7/91	1514	S	CM1715	2	00A	00	1	X			
54	11/7/91	1520	S	CM1718	2	00B	00	1	X			
255	11/7/91	1525	S	CM1718	2	00C	00	1	X			
56	11/7/91	1574	S	CM1715	2	00A	00	1	X			
257	11/7/91	1520	S	CM1715	2	00B	00	1	X			
58	11/7/91	1525	S	CM1715	2	00C	00	1	X			
59	11/7/91	1574	S	CM1715	2	00A	00	1	X			
60	11/7/91	1580	S	CM1715	2	00B	00	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Moyer	11/7 545	[illegible]	545 11/7
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/7 645	[illegible]	11-7-91 18:45
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

4

SHEET 2 of 4

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	11/7/91	1525	S	CH1715	2	00C	00L	/	1	X			
62	11/7/91	1550	S	CH1715	1	00A	00L	/	1	X			
3	11/7/91	1535	S	CH1715	1	00B	00L	/	1	X			
64	11/7/91	1539	S	CH1715	1	00C	00L	/	1	X			
5	11/7/91	1608 1613	S	CH1715	2	00A	0LA	/	1	X			
6	11/7/91	1613 1613	S	CH1715	2	00A	0LX	/	1	X			
67	11/7/91	1619 1618	S	CH1715	2	00A	0LA	/	1	X			
8	11/7/91	1618	S	CH1715	2	00A	0LX	/	1	X			
69	11/7/91	1622	S	CH1715	2	00C	0LA	/	1	X			
0	11/7/91	1622	S	CH1715	2	00C	0LX	/	1	X			
71	11/7/91	1613	S	CH1715	2	00A	0CL	/	1	X			
2	11/7/91	1625 1625	S	CH1715	2	00B	00L	/	1	X			
73	11/7/91	1622 1625	S	CH1715	2	00C	00L	/	1	X			
74	11/7/91	1035	S	CH1719	1	00A	0LD	/	1	X			
75	11/7/91	1041	S	CH1719	1	00B	0LD	/	1	X			
76	11/7/91	1045	S	CH1719	1	00C	0LD	/	1	X			
7	11/7/91	1153	S	CH1714	1	00A	0LD	/	1	X			
78	11/7/91	1200	S	CH1714	1	00B	0LD	/	1	X			
9	11/7/91	1205	S	CH1714	1	00C	0LD	/	1	X			
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/7 5:45	[illegible]	11/7 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/7 645	[illegible]	11-7-91 18:45
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # _____
Client Cooler # _____
No Cooler _____

Project: Woodward - Clyde Date/Time Received: 11-7-91 1845

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-8-91 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-7-91, seal name: _____
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
*9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-8-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
*15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES (NO)
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

/:\WP\CHEMCOM\CRF.01

*9 (Jeff W. Sirio signed custody papers
*15 no time on CH1718200B00L, CH1718200C00L

CHAIN OF CUSTODY RECORD

3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
80	11/11	7:34	S 0L1719 1 001 00L	1	X			
281		7:40	S 0L1719 1 00B 00L	1	X			
282		7:43	S 0L1719 1 00C 00L	1	X			
283		7:35	S 0L1719 1 00A 0LD	1	X			
		~~7:35~~	~~S 0L1719 1 00A 0LG~~	1	X		GLH	
284		7:41	S 0L1719 1 00B 0LD	1	X			
		~~7:42~~	~~S 0L1719 1 00B 0LG~~	1	X		GLH	
85		7:44	S 0L1719 1 00C 0LD	1	X			
		~~7:44~~	~~S 0L1719 1 00C 0LG~~	1	X		GLH	
86		7:45	S 0L1719 2 00A 00L	1	X			
287		7:47	S 0L1719 2 00B 00L	1	X			
288		7:49	S 0L1719 2 00C 00L	1	X			
289		7:44	S 0L1719 2 00A 0LM	1	X			
90		7:44	S 0L1719 2 00A 0LX	1	X			
291		7:47	S 0L1719 2 00B 0LM	1	X			
292		7:48	S 0L1719 2 00B 0LX	1	X			
93		7:49	S 0L1719 2 00C 0LM	1	X			
294		7:50	S 0L1719 2 00C 0LX	1	X			
95		8:00	S 0L1721 1 00A 00L	1	X			
296		8:05	S 0L1721 1 00B 00L	1	X			
97		8:10	S 0L1721 1 00C 00L	1	X			
298		8:15	S 0L1721 2 00A 00L	1	X			
99		8:20	S 0L1721 2 00B 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11/11 1800	[illegible]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/11 7AM	Ethan [illegible]	11/11 7:45P
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

3

SHEET 2 of 4

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
0	11/11	8:25	S	OL1721	3	00C	00L	1	X			
1		8:40	S	OL1720	1	00A	00L	1	X			
02		8:45	S	OL1720	1	00B	00L	1	X			
03		8:50	S	OL1720	1	00C	00L	1	X			
304		8:50	S	OL1720	2	00A	00L	1	X			
05		8:55	S	OL1720	2	00B	00L	1	X			
306		9:00	S	OL1720	2	00C	00L	1	X			
07		9:40	S	SP1732	1	00A	00L	1	X			
308		9:45	S	SP1732	1	01B	00L	1	X			
09		9:50	S	SP1732	1	00C	00L	1	X			
310		1005	S	SP1732	2	00A	00L	1	X			
11		1010	S	SP1732	2	00B	00L	1	X			
12		1015	S	SP1732	2	00C	00L	1	X			
13		1005	S	SP1732	2	00A	0LM	1	X			
14		1005	S	SP1732	2	00A	0LX	1	X			
315		1010	S	SP1732	2	00B	0LM	1	X			
16		1010	S	SP1732	2	00B	0LX	1	X			
317		1015	S	SP1732	2	00C	0LM	1	X			
18		1015	S	SP1732	2	00C	0LX	1	X			
319		1105	S	SP1754	1	00A	00L	1	X			
20		1110	S	SP1754	1	00B	00L	1	X			
21		1115	S	SP1754	1	00C	00L	1	X			
22		1130	S	SP1754	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11/11 1900	[signature]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/11 746	[signature]	11/11 7:45

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
323	11/11	1135	S SL1754 2 00B00L	1	X			
324		1140	S SL1754 2 00C00L	1	X			
325		1130	S SL1754 3 01A01D	1	X			
		~~1130~~	~~S SL1754 2 00A00G~~	1	X	GLH		
326		1135	S SL1754 2 01B01D	1	X			
		~~1135~~	~~S SL1754 2 00B00G~~	1	X	GLH		
327		1140	S SL1754 3 00C01D	1	X			
		~~1140~~	~~S SL1754 2 00C00G~~	1	X	GLH		
328		1205	S SL1744 1 00A00L	1	X			
329		1210	S SL1744 1 00B00L	1	X			
330		1215	S SL1744 1 00C00L	1	X			
331		1205	S SL1744 1 00A01D	1	X			
		~~1205~~	~~S SL1744 1 00A00G~~	1	X	GLH		
332		1210	S SL1744 1 00B01D	1	X			
		~~1210~~	~~S SL1744 1 00B00G~~	1	X	GLH		
333		1215	S SL1744 1 00C01D	1	X			
		~~1215~~	~~S SL1744 1 00C00G~~	1	X	GLH		
334		1215	S SL1744 2 00A00L	1	X			
335		1220	S SL1744 2 00B00L	1	X			
336		1225	S SL1744 2 00C00L	1	X			
337		2:00	S ML1627 1 00A00L	1	X			
338		2:05	S ML1627 1 00B00L	1	X			
339		2:10	S ML1627 1 00C00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11/11 1900	[illegible]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/11 745	Esther [illegible]	11/11 7:45

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
:0	11/11	2:20	S	MP1607	3	00A	00L	1	X			
'		2:25	S	MP1607	3	00B	00L	1	X			
12		2:30	S	MP1607	2	00C	00L	1	X			
343		2:50	S	CL1642	1	00A	00L	1	X			
44		2:55	S	CL1642	1	00B	00L	1	X			
45		3:00	S	CL1642	1	00C	00L	1	X			
46		3:10	S	CL1642	2	00A	00L	1	X			
47		3:15	S	CL1642	2	00B	00L	1	X			
348		3:20	S	CL1642	2	00C	00L	1	X			
19		3:40	S	DE1624	1	00A	00L	1	X			
350		3:45	S	DE1624	1	00B	00L	1	X			
51		3:50	S	DE1624	1	00C	00L	1	X			
52		4:00	S	DE1624	2	00A	00L	1	X			
53		4:05	S	DE1624	2	00B	00L	1	X			
54		4:10	S	DE1624	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

Nothing Follows
GREGG Hogarty
Gregg Hogarty
11-11-91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hogarty	11/11 1900	[illegible]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/11 745	[illegible]	11/11 7:45
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 15 of 8

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
55	11/11/91	0735	S	CH1747	2	00A	00L	✓	1	X			
356	11/11/91	0740	S	CH1747	2	00B	00L	✓	1	X			
57	11/11/91	0745	S	CH1747	2	00C	00L	✓	1	X			
358	11/11/91	0755	S	CH1747	1	00A	00L	✓	1	X			
59	11/11/91	0800	S	CH1747	1	00B	00L	✓	1	X			
60	11/11/91	0805	S	CH1747	1	00C	00L	✓	1	X			
261	11/11/91	0840	S	CH1743	1	00A	00L	✓	1	X			
62	11/11/91	0845	S	CH1743	1	00B	00L	✓	1	X			
363	11/11/91	0850	S	CH1743	1	00C	00L	✓	1	X			
64	11/11/91	0857	S	CH1743	2	00A	00L	✓	1	X			
365	11/11/91	0902	S	CH1743	2	00B	00L	✓	1	X			
66	11/11/91	0907	S	CH1743	2	00C	00L	✓	1	X			
367	11/11/91	0940	S	CH1750	1	00A	00L	✓	1	X			
68	11/11/91	0940	S	CH1750	1	00A	OLD	✓	1	X			
	~~11/11/91~~	~~0940~~	~~S~~	~~CH1750~~	~~1~~	~~00A~~	~~OLD~~	~~well~~	~~1~~	~~X~~			
69	11/11/91	0945	S	CH1750	1	00B	00L	✓	1	X			
70	11/11/91	0945	S	CH1750	1	00B	OLD	✓	1	X			
	~~11/11/91~~	~~0945~~	~~S~~	~~CH1750~~	~~1~~	~~00B~~	~~OLD~~	~~well~~	~~1~~	~~X~~			
71	11/11/91	0950	S	CH1750	1	00C	00L	✓	1	X			
372	11/11/91	0950	S	CH1750	1	00C	OLD	✓	1	X			
	~~11/11/91~~	~~0950~~	~~S~~	~~CH1750~~	~~1~~	~~00C~~	~~OLD~~	~~well~~	~~1~~	~~X~~			
73	11/11/91	1000	S	CH1750	2	00A	00L	✓	1	X			
74	11/11/91	1000	S	CH1750	2	00A	OLD	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11/11 1900	[signature]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/11 745	Ethan Lotsey	11/11 7:45P

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 8

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
75	11/11/91	1000	S	CM1722	2	00A	0-X	✓	1	X			
76	11/11/91	1005	S	CM1722	2	00B	00L	✓	1	X			
77	11/11/91	1005	S	CM1722	2	00B	0LM	✓	1	X			
378	11/11/91	1005	S	CM1722	2	00B	0LX	✓	1	X			
79	11/11/91	1010	S	CM1722	2	00C	0LM	✓	1	X			
380	11/11/91	1010	S	CM1722	2	00C	0LX	✓	1	X			
381	11/11/91	~~1020~~	S	CM1722	2	00C	00L	✓	1	X			
382	11/11/91	1100	S	CM1723	1	00A	00L	✓	1	X			
383	11/11/91	1100	S	CM1723	1	00A	0LD	✓	1	X			
	~~11/11/91~~	~~1100~~	~~S~~	~~CM1723~~	~~1~~	~~00A~~	~~0LR~~	✓	~~1~~	~~X~~			
384	11/11/91	1105	S	CM1723	1	00B	00L		1	X			
85	11/11/91	1105	S	CM1723	1	00B	0LD	✓	1	X			
	~~11/11/91~~	~~1105~~	~~S~~	~~CM1723~~	~~1~~	~~00B~~	~~0LR~~		~~1~~	~~X~~			
6	11/11/91	1110	S	CM1723	1	00C	00L	✓	1	X			
387	11/11/91	1110	S	CM1723	1	00C	0LD	✓	1	X			
	~~11/11/91~~	~~1110~~	~~S~~	~~CM1723~~	~~1~~	~~00C~~	~~0LR~~		~~1~~	~~X~~			
88	11/11/91	~~1115~~ 1110	S	CM1723	2	00A	00L	✓	1	X			
389	11/11/91	1130	S	CM1723	2	00B	00L	✓	1	X			
90	11/11/91	1135	S	CM1723	2	00C	00L	✓	1	X			
391	11/11/91	1320	S	NI0821	1	00A	00L	✓	1	X			
92	11/11/91	1320	S	NI0821	1	00A	0LD	✓	1	X			
393	11/11/91	1325	S	NI0821	1	00B	00L	✓	1	X			
94	11/11/91	1325	S	NI0821	1	00B	0LD	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11/11 1900	[illegible]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/11 745	[illegible]	11/11 7:45
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

SHEET 7 of 8

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
75	11/11/91	1330	S	NI0821	1	00C	00L	✓	1	X			
396	11/11/91	1330	S	NI0821	1	00C	OLD	✓	1	X			
97	11/11/91	1320 GLH	S	NI0821	2	00A	00L	✓	1	X			
398	11/11/91	1340 GLH	S	NI0821	2	~~00B~~ 00A	~~00L~~ OLM	✓	1	X			
99	11/11/91	1320 GLH	S	NI0821	2	~~00A~~ 00B	~~00L~~ OLX	✓	1	X			
400	11/11/91	1345 GLH	S	NI0821	2	~~00B~~ 00C	~~00L~~ 00L	✓	1	X			
401	11/11/91	1345 GLH	S	NI0821	2	00B	OLM	✓	1	X			
402	11/11/91	1345 GLH	S	NI0821	2	00B	OLX	✓	1	X			
403	11/11/91	1350 GLH	S	NI0821	2	00C	00L	✓	1	X			
404	11/11/91	1350 GLH	S	NI0821	2	00C	OLM	✓	1	X			
405	11/11/91	1350 GLH	S	NI0821	2	00C	OLX	✓	1	X			
406	11/11/91	1420	S	NI0834	1	00A	00L	✓	1	X			
407	11/11/91	1425	S	NI0834	1	00B	00L	✓	1	X			
408	11/11/91	1430	S	NI0834	1	00C	00L	✓	1	X			
409	11/11/91	1435	S	NI0834	2	00A	00L	✓	1	X			
410	11/11/91	1440	S	NI0834	2	00B	00L	✓	1	X			
411	11/11/91	1445	S	NI0834	2	00C	00L	✓	1	X			
412	11/11/91	1525	S	WA1717	1	00A	00L	✓	1	X			
413	11/11/91	1530	S	WA1717	1	00B	00L	✓	1	X			
414	11/11/91	1535	S	WA1717	1	00C	00L	✓	1	X			
415	11/11/91	1539	S	WA1717	2	00A	00L	✓	1	X			
416	11/11/91	1542	S	WA1717	2	00B	00L	✓	1	X			
17	11/11/91	1547	S	WA1717	2	00C	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11/11 1900	[signature]	11/11 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/11 745	Ethan Litary	11/11 7:45

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

SHEET ~~4~~ 3 of 8

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signature) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
8	11/11/91	1604	S	WA1721	1	00A	00L	✓	1	X			
9	11/11/91	1607	S	WA1721	1	00B	00L	✓	1	X			
20	11/11/91	1610	S	WA1721	1	00C	00L	✓	1	X			
+21	11/11/91	1620	S	WA1721	2	00A	00L	✓	1	X			
2	11/11/91	1624	S	WA1721	2	00B	00L	✓	1	X			
+23	11/11/91	1628	S	WA1721	2	00C	00L	✓	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

Nothing Follows
Gregg Hagerty
11-11-91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11/11 1900	[signature]	11/11 1900
RELINQUISHED BY: (Signature) [signature]	DATE / TIME 11/11 745	RECEIVED AT LAB BY: (Signature)	DATE / TIME 11/11 7:45
METHOD OF SHIPMENT: WCL employee		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler #
No Cooler

Project: Woodward-Clyde Date/Time Received: 11-11-91 1945

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-12-91 845

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-11-91, seal name: Can't read
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-12-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. .... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review:

* Sample rejection criteria

U:\WP\CHEMCOM\CRF.01

* 9. Ethan Litsey signed custody papers

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
24	11/12/91	0740	S	BEL928	1	00A	00L	✓	1	X			
5	11/12/91	0745	S	BEL928	1	00B	00L	✓	1	X			
26	11/12/91	0750	S	BEL928	1	00C	00L		1	X			
27	11/12/91	0800	S	BEL928	2	00A	00L	✓	1	X			
28	11/12/91	0805	S	BEL928	2	00B	00L	✓	1	X			
29	11/12/91	0810	S	BEL928	2	00C	00L	✓	1	X			
30	11/12/91	0830	S	BEL930	1	00A	00L	✓	1	X			
31	11/12/91	0835	S	BEL930	1	00B	00L	✓	1	X			
432	11/12/91	0840	S	BEL930	1	00C	00L	✓	1	X			
33	11/12/91	0845	S	BEL930	2	00A	00L	✓	1	X			
434	11/12/91	0850	S	BEL930	2	00B	00L	✓	1	X			
35	11/12/91	0855	S	BEL930	2	00C	00L		1	X			
36	11/12/91	0925	S	BEL943	1	00A	00L	✓	1	X			
37	11/12/91	0930	S	BEL943	1	00B	00L	✓	1	X			
438	11/12/91	0935	S	BEL943	1	00C	00L	✓	1	X			
439	11/12/91	0940	S	BEL943	2	00A	00L	✓	1	X			
440	11/12/91	0945	S	BEL943	2	00B	00L	✓	1	X			
441	11/12/91	0950	S	BEL943	2	00C	00L	✓	1	X			
42	11/12/91	1020	S	BEL939	1	00A	00L	✓	1	X			
443	11/12/91	1025	S	BEL939	1	00B	00L	✓	1	X			
44	11/12/91	1030	S	BEL939	1	00C	00L	✓	1	X			
445	11/12/91	1036	S	BEL939	2	00A	00L	✓	1	X			
46	11/12/91	1039	S	BEL939	2	00B	00L		1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11-12 1745		11/12 595
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/12 630		11-12 6:3
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
47	11/12/91	1042	S	BE1939	2	00C	00L	1	X	~~X~~		
48	11/12/91	1110	S	BE1937	1	00A	00L	1	X			
49	11/12/91	1115	S	BE1937	1	00B	00L	1	X			
50	11/12/91	1120	S	BE1937	1	00C	00L	1	X			
51	11/12/91	1125	S	BE1937	2	00A	00L	1	X			
52	11/12/91	1129	S	BE1937	2	00B	00L	1	X			
53	11/12/91	1133	S	BE1937	2	00C	00L	1	X			
54	11/12/91	1300	S	AD1942	1	00A	00L	1	X			
55	11/12/91	1303	S	AD1942	1	00B	00L	1	X			
56	11/12/91	1305	S	AD1942	1	00C	00L	1	X			
57	11/12/91	1312	S	AD1942	2	00A	00L	1	X			
58	11/12/91	1316	S	AD1942	2	00B	00L	1	X			
59	11/12/91	1320	S	AD1942	2	00C	00L	1	X			
60	11/12/91	1345	S	AD1938	1	00A	00L	1	X			
61	11/12/91	1350	S	AD1938	1	00B	00L	1	X			
62	11/12/91	1355	S	AD1938	1	00C	00L	1	X			
63	11/12/91	1400	S	AD1938	2	00A	00L	1	X			
64	11/12/91	1405	S	AD1938	2	00B	00L	1	X			
65	11/12/91	1410	S	AD1938	2	00C	00L	1	X			
66	11/12/91	1430	S	AD1930	1	00A	00L	1	X			
67	11/12/91	1435	S	AD1930	1	00B	00L	1	X			
68	11/12/91	1440	S	AD1930	1	00C	00L	1	X			
69	11/12/91	1450	S	AD1930	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11-12 1745	[illegible]	11/12 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/12 630	Ethan Litsey	11-12 6:30 PM

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
70	11/12/91	1455	S	A01930	2	00B	00L	✓	1	X			
71	11/12/91	1500	S	A01930	2	00C	00L	✓	1	X			
			S							Nothing Follows			
			S							Gregg Hagerty			
			S							11-12-91			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11-12 1745	[signature]	11/12 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/12 630	Ethan Litsey	11-12 6530

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
12	11/12	8:15	S	CL1704	1	00A	00L	1	X			
473		8:20	S	CL1704	1	00B	00L	1	X			
74		8:25	S	CL1704	1	00C	00L	1	X			
475		8:26	S	CL1704	2	00A	00L	1	X			
76		8:30	S	CL1704	2	00B	00L	1	X			
477		8:35	S	CL1704	2	00C	00L	1	X			
78		8:40	S	CL1708	1	00A	00L	1	X			
79		8:45	S	CL1708	1	00B	00L	1	X			
480		8:50	S	CL1708	1	00C	00L	1	X			
81		8:55	S	CL1708	2	00A	00L	1	X			
482		9:00	S	CL1708	2	00B	00L	1	X			
83		9:05	S	CL1708	2	00C	00L	1	X			
484		9:15	S	CL1710	1	00A	00L	1	X			
85		9:20	S	CL1710	1	00B	00L	1	X			
486		9:25	S	CL1710	1	00C	00L	1	X			
87		9:30	S	CL1710	2	00A	00L	1	X			
88		9:35	S	CL1710	2	00B	00L	1	X			
489		9:40	S	CL1710	2	00C	00L	1	X			
90		1030	S	DE1728	1	00A	00L	1	X			
491		1035	S	DE1728	1	00B	00L	1	X			
92		1040	S	DE1728	1	00C	00L	1	X			
493		1042	S	DE1728	2	00A	00L	1	X			
74		1045	S	DE1728	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11-12 1745	[signature]	11/12 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/12 630	Ethan [signature]	11-12 6:30 P

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
95	11/12	1050	S	DE1728	2	00C	00L	1	X			
96		1100	S	DE1717	1	00A	00L	1	X			
97		1105	S	DE1717	1	00B	00L	1	X			
498		1110	S	DE1717	1	00C	00L	1	X			
99		1112	S	DE1717	2	00A	00L	1	X			
500		1115	S	DE1717	2	00B	00L	1	X			
01		1120	S	DE1717	2	00C	00L	1	X			
02		1:00	S	DE1724	1	00A	00L	1	X			
03		1:05	S	DE1724	1	00B	00L	1	X			
04		1:10	S	DE1724	1	00C	00L	1	X			
505		1:15	S	DE1724	2	00A	00L	1	X			
06		1:20	S	DE1724	2	00B	00L	1	X			
07		1:25	S	DE1724	2	00C	00L	1	X			
08		1:35	S	DE1743	1	00A	00L	1	X			
509		1:40	S	DE1643	1	00B	00L	1	X			
10		1:45	S	DE1643	1	00C	00L	1	X			
11		1:46	S	DE1643	2	00A	00L	1	X			
12		1:50	S	DE1643	2	00B	00L	1	X			
13		1:55	S	DE1643	2	00C	00L	1	X			
514		2:10	S	DE1644	1	00A	00L	1	X			
15		2:12	S	DE1644	1	00B	00L	1	X			
516		2:15	S	DE1644	1	00C	00L	1	X			
17		2:20	S	DE1644	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-12 1745		11/12 595
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/12 630	Ethan Litzey	11-12 6:3
METHOD OF SHIPMENT: NCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 6 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
18	11/12/91	2:25	S	DEL644	2	00B	00L	✓	1	X			
19		2:30	S	DEL644	2	00C	00L	✓	1	X			
20		2:45	S	DEL707	1	00A	00L	✓	1	X			
21		2:50	S	DEL702	1	00B	00L	✓	1	X			
22		2:55	S	DEL702	1	00C	00L	✓	1	X			
23		3:00	S	DEL702	2	00A	00L	✓	1	X			
24		3:02	S	DEL702	2	00B	00L	✓	1	X			
25		3:05	S	DEL702	2	00C	00L	✓	1	X			
26		3:25	S	DEL703	1	00A	00L	✓	1	X			
27		3:30	S	DEL703	1	00B	00L	✓	1	X			
28		3:35	S	DEL703	1	00C	00L	✓	1	X			
29		3:40	S	DEL703	2	00A	00L	✓	1	X			
30		3:45	S	DEL703	2	00B	00L	✓	1	X			
31		3:47	S	DEL703	2	00C	00L	✓	1	X			
			S										
			S							Nothing Follows			
			S							Greg Hagerty			
			S							11-12-91			
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-12 1745		11/12 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/12 630	Ethan Lintsey	11-12 6:30

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 11-12-91 18:30

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and ckecked: 11-13-91

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-12-91, seal name: Wallace Erie Page
4. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
5. Was chain-of-custody provided? ..... YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... YES NO
*7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES NO
*9. Did you sign custody papers in the appropriate place? ..... YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-13-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
*14. Did all bottles arrive unbroken and in good condition? ..... YES NO
*15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

:\WP\CHEMCOM\CRF.01

*7.0 They changed on the lables from a DE to a CL on samples CL1708100B00L, CL1708100C00L, CL1708200A00L, CL1708200B00L. To match chain of custody

*9) Ethan Litsey signed custody papers

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
32	11/13	7:20	S	ED1704	1	00A	00L	1	X			
533		7:25	S	ED1704	1	00B	00L	1	X			
34		7:30	S	ED1704	1	00C	00L	1	X			
535		7:34	S	ED1704	2	00A	00L	1	X			
36		7:40	S	ED1704	2	00B	00L	1	X			
37		7:45	S	ED1704	2	00C	00L	1	X			
38		7:50	S	ED1715	1	00A	00L	1	X			
39		7:55	S	ED1715	1	00B	00L	1	X			
540		8:00	S	ED1715	1	00C	00L	1	X			
41		8:05	S	ED1715	2	00A	00L	1	X			
542		8:10	S	ED1715	2	00B	00L	1	X			
43		8:15	S	ED1715	2	00C	00L	1	X			
544		8:35	S	ED1709	1	00A	00L	1	X			
45		8:40	S	ED1709	1	00B	00L	1	X			
546		8:45	S	ED1709	1	00C	00L	1	X			
547		8:47	S	ED1709	2	00A	00L	1	X			
48		8:50	S	ED1709	2	00B	00L	1	X			
549		8:55	S	ED1709	2	00C	00L	1	X			
50		9:40	S	DE1747	1	00A	00L	1	X			
551		9:45	S	DE1747	1	00B	00L	1	X			
52		9:50	S	DE1747	1	00C	00L	1	X			
553		10:15	S	CL2215	1	00A	00L	1	X			
54		10:20	S	CL2215	1	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11-13 1740	[signature]	11/13 7:05
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
55	11/13	1025	S	CL2215	1	00S	00L	1	X			
56		1027	S	CL2215	2	00A	00L	1	X			
57		1030	S	CL2215	2	00B	00L	1	X			
58		1035	S	CL2215	2	00C	00L	1	X			
59		1210	S	BE2248	1	00A	00L	1	X			
60		1215	S	BE2248	1	00B	00L	1	X			
61		1220	S	BE2248	1	00S	00L	1	X			
62		1223	S	BE2252	1	00A	00L	1	X			
63		1225	S	BE2252	1	00B	00L	1	X			
64		1230	S	BE2252	1	00C	00L	1	X			
65		1235	S	BE2254	1	00A	00L	1	X			
66		1240	S	BE2254	1	00B	00L	1	X			
67		1245	S	BE2254	1	00C	00L	1	X			
68		1250	S	BE2254	2	00A	00L	1	X			
69		1255	S	BE2254	2	00B	00L	1	X			
70		1:00	S	BE2254	2	00C	00L	1	X			
71		1:15	S	BE2258	1	00A	00L	1	X			
72		1:20	S	BE2258	1	00B	00L	1	X			
73		1:25	S	BE2258	1	00C	00L	1	X			
74		1:26	S	BE2258	2	00A	00L	1	X			
75		1:30	S	BE2258	2	00B	00L	1	X			
76		1:35	S	BE2258	2	00C	00L	1	X			
77		2:10	S	CL2157	1	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11-13 1740	[illegible]	11/15 7:05
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYL[illegible] HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 6

PROJECT NO.: 89MC114V

PROJECT NAM: NL/TARACORP SU[illegible] FUND SITE PREDESIGN FIELD [illegible]VESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3	11/13	2:15	S	CL2157	1	00B	00L	1	X			
79		2:20	S	CL2157	1	00C	00L	1	X			
0		2:18	S	CL2157	2	00A	00L	1	X			
81		2:20	S	CL2157	2	00B	00L	1	X			
82		2:25	S	CL2157	2	00C	00L	1	X			
3		2:40	S	BE2123	1	00A	00L	1	X			
84		2:45	S	BE2123	1	00B	00L	1	X			
5		2:50	S	BE2123	1	00C	00L	1	X			
86		2:55	S	BE2123	2	00A	00L	1	X			
7		3:00	S	BE2123	2	00B	00L	1	X			
88		3:05	S	BE2123	2	00C	00L	1	X			
			S						NOTHING FOLLOWS			
			S						Greg Hogarty			
			S						11-13-94			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hogarty	11-13 1740	John Demoules	11/13 7:65
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
89	11/3/91	1058	S	4D2234	2	00C	00L	✓	1	X			
90		1226	S	CL1938	1	00A	00L	✓	1	X			
91		1230	S	CL1938	1	00B	00L	✓	1	X			
92		1234	S	CL1938	1	00C	00L	✓	1	X			
93		1240	S	CL1938	2	00A	00L	✓	1	X			
94		1244	S	CL1938	2	00B	00L	✓	1	X			
95		1248	S	CL1938	2	00C	00L	✓	1	X			
96		1338	S	CL1934	1	00A	00L	✓	1	X			
97		1342	S	CL1934	1	00B	00L	✓	1	X			
98		1346	S	CL1934	1	00C	00L	✓	1	X			
99		1311	S	CL1934	2	00A	00L	✓	1	X			
00		1314	S	CL1934	2	00B	00L	✓	1	X			
01		1317	S	CL1934	2	00C	00L	✓	1	X			
02		1413	S	CL1930	1	00A	00L	✓	1	X			
03		1417	S	CL1930	1	00B	00L	✓	1	X			
04		1421	S	CL1930	1	00C	00L	✓	1	X			
05		1426	S	CL1930	2	00A	00L	✓	1	X			
06		1429	S	CL1930	2	00B	00L	✓	1	X			
07		1432	S	CL1930	2	00C	00L	✓	1	X			
08		1505	S	CL1919	1	00A	00L	✓	1	X			
09		1508	S	CL1919	1	00B	00L	✓	1	X			
10		1512	S	CL1919	1	00C	00L	✓	1	X			
11		1527	S	CL1919	2	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11-13 1740	[illegible]	11/13 7:05
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] / [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2	11/13/91	0715	S	BE1911	1	00A	00L	✓	1	X			
13		0719	S	BE1911	1	00B	00L	✓	1	X			
14		0723	S	BE1911	1	00C	00L	✓	1	X			
15		0730	S	BE1911	2	00A	00L	✓	1	X			
16		0734	S	BE1911	2	00B	00L	✓	1	X			
17		0738	S	BE1911	2	00C	00L	✓	1	X			
18		0804	S	BE1918	1	00A	00L	✓	1	X			
19		0808	S	BE1918	1	00B	00L	✓	1	X			
20		0812	S	BE1918	1	00C	00L	✓	1	X			
21		0819	S	BE1918	2	00A	00L	✓	1	X			
22		0823	S	BE1918	2	00B	00L	✓	1	X			
23		0827	S	BE1918	2	00C	00L	✓	1	X			
24		0902	S	BE1927	1	00A	00L	✓	1	X			
25		0907	S	BE1927	1	00B	00L	✓	1	X			
26		0912	S	BE1927	1	00C	00L	✓	1	X			
27		0920	S	BE1927	2	00A	00L	✓	1	X			
28		0925	S	BE1927	2	00B	00L	✓	1	X			
29		0930	S	BE1927	2	00C	00L	✓	1	X			
30		1039	S	AD2034	1	00A	00L	✓	1	X			
31		1042	S	AD2034	1	00B	00L	✓	1	X			
32		1045	S	AD2034	1	00C	00L	✓	1	X			
33		1052	S	AD2034	2	00A	00L	✓	1	X			
34		1055	S	AD2034	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11-13 1740	[signature]	11/13 7:05
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 6 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	11/13/91	1526	S	CL1919	2	008	00L	✓	1	X			
6		1530	S	CL1919	2	00C	00L	✓	1	X			
37		1629	S	NI1255	1	00A	00L	✓	1	X			
38		1632	S	NI1255	1	00B	00L	✓	1	X			
39		1635	S	NI1255	1	00C	00L	✓	1	X			
40		1604	S	NI1255	2	00A	00L	✓	1	X			
41		1608	S	NI1255	2	00B	00L	✓	1	X			
42		1612	S	NI1255	2	00C	00L	✓	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

Nothing Follows
Gregg Hagerty
11-13-91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11-13 1740	[signature]	11/13 7:05
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 163
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 11-13-91 1905

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-14-91 845

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-13-91 seal name: Gregg Hagerty other no cont
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) (NO)
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
*9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-14-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Coolers with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

/:\WP\CHEMCOM\CRF.01

#9 John Simonens signed custody papers.

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
43	11/14	7:25	S	BE2228	1	00A	00L	✓	1	X			
44		7:30	S	BE2228	1	00B	00L	✓	1	X			
45		7:35	S	BE2228	1	00C	00L	✓	1	X			
646		7:37	S	BE2228	2	00A	00L	✓	1	X			
47		7:40	S	BE2228	2	00B	00L	✓	1	X			
648		7:45	S	BE2228	2	00C	00L	✓	1	X			
49		8:00	S	BE2230	1	00A	00L	✓	1	X			
50		8:05	S	BE2230	1	00B	00L	✓	1	X			
51		8:10	S	BE2230	1	00C	00L	✓	1	X			
52		8:20	S	BE2230	2	00A	00L	✓	1	X			
53		8:25	S	BE2230	2	00B	00L	✓	1	X			
54		8:30	S	BE2230	2	00C	00L	✓	1	X			
55		9:10	S	BE2232	1	00A	00L	✓	1	X			
56		9:20	S	BE2232	1	00B	00L	✓	1	X			
57		9:25	S	BE2232	1	00C	00L	✓	1	X			
58		9:27	S	BE2232	2	00A	00L	✓	1	X			
59		9:30	S	BE2232	2	00B	00L	✓	1	X			
60		9:35	S	BE2232	2	00C	00L	✓	1	X			
61		10:35	S	BE2158	1	00A	00L	✓	1	X			
62		10:40	S	BE2158	1	00B	00L	✓	1	X			
63		10:45	S	BE2158	1	00C	00L	✓	1	X			
64		10:47	S	BE2158	2	00A	00L	✓	1	X			
65		10:50	S	BE2158	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pauline	11/14/91 5:36pm		11/14 541
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/14 630		11/14 6
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
66	11/14	1055	S	BE21582	2	00C	00L	✓	1	X			
67		1100	S	BE21571	1	00A	00L	✓	1	X			
68		1105	S	BE21571	1	00B	00L	✓	1	X			
69		1110	S	BE21571	1	00C	00L	✓	1	X			
70		1112	S	BE21572	2	00A	00L	✓	1	X			
71		1115	S	BE21572	2	00B	00L	✓	1	X			
72		1120	S	BE21572	2	00C	00L	✓	1	X			
73		1235	S	GR1918	1	00A	00L	✓	1	X			
74		1240	S	GR1918	1	00B	00L	✓	1	X			
75		1245	S	GR1918	1	00C	00L	✓	1	X			
76		1247	S	GR1918	2	00A	00L	✓	1	X			
77		1250	S	GR1918	2	00B	00L	✓	1	X			
78		1255	S	GR1918	2	00C	00L	✓	1	X			
79		130	S	MA2023	1	00A	00L	✓	1	X			
80		135	S	MA2023	1	00B	00L	✓	1	X			
81		140	S	MA2023	1	00C	00L		1	X			per Karen Meier - change i.d. on jar to match i.d. on log sheet. SW 11/15/91
82		145	S	MA2023	2	00A	00L	✓	1	X			
83		150	S	MA2023	2	00B	00L	✓	1	X			
84		155	S	MA2023	2	00C	00L	✓	1	X			
85		200	S	MA2017	1	00A	00L	✓	1	X			
86		205	S	MA2017	1	00B	00L	✓	1	X			
87		210	S	MA2017	1	00C	00L	✓	1	X			
88		215	S	MA2017	2	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parker	11/14/91 5:30		11/14 5:40
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/14 6:20		11/14 6:30
METHOD OF SHIPMENT: Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
39	11/14	220	S	MA2017	2	00B	00L	1	X			
0		225	S	MA2017	2	00C	00L	1	X			
71		305	S	BE2121	1	00A	00L	1	X			
692		310	S	BE2121	1	00B	00L	1	X			
73		315	S	BE2121	1	00C	00L	1	X			
694		317	S	BE2121	2	00A	00L	1	X			
75		320	S	BE2121	2	00B	00L	1	X			
76		325	S	BE2121	2	00C	00L	1	X			
697		330	S	BE2133	1	00A	00L	1	X			
98		335	S	BE2133	1	00B	00L	1	X			
699		340	S	BE2133	1	00C	00L	1	X			
00		342	S	BE2133	2	00A	00L	1	X			
1		345	S	BE2133	2	00B	00L	1	X			
12		350	S	BE2133	2	00C	00L	1	X			
703		400	S	BE2131	1	00A	00L	1	X			
04		405	S	BE2131	1	00B	00L	1	X			
05		410	S	BE2131	1	00C	00L	1	X			
706		411	S	BE2131	2	00A	00L	1	X			
07		413	S	BE2131	2	00B	00L	1	X			
708		415	S	BE2131	2	00C	00L	1	X			
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/14/91 5:36 pm	[signature]	11/14 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/14 630	[signature]	11/14 630
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
709	11/14/91	0734	S	CL2029	1	00A	00L	✓	1	X			
710		0738	S	CL2027	1	00B	00L	✓	1	X			
711		0742	S	CL2027	1	00C	00L	✓	1	X			
712		0805	S	CL2029	1	00A	00L	✓	1	X			
713		0808	S	CL2029	1	00B	00L	✓	1	X			
714		0811	S	CL2029	1	00C	00L	✓	1	X			
715		0917	S	CL2029	2	00A	00L	✓	1	X			
716		0921	S	CL2029	2	00B	00L	✓	1	X			
717		0925	S	CL2029	2	00C	00L	✓	1	X			
718		0842	S	CL2055	1	00A	00L	✓	1	X			
719		0846	S	CL2055	1	00B	00L	✓	1	X			
720		0850	S	CL2055	1	00C	00L	✓	1	X			
721		0858	S	CL2055	2	00A	00L	✓	1	X			
722		0901	S	CL2055	2	00B	00L	✓	1	X			
723		0905	S	CL2055	2	00C	00L	✓	1	X			
724		0927	S	CL2032	1	00A	00L	✓	1	X			
725		0931	S	CL2032	1	00B	00L	✓	1	X			
726		0935	S	CL2032	1	00C	00L	✓	1	X			
727		0942	S	CL2032	2	00A	00L	✓	1	X			
728		0946	S	CL2032	2	00B	00L	✓	1	X			
729		0950	S	CL2032	2	00C	00L	✓	1	X			
730		1258	S	WS2027	1	00A	00L	✓	1	X			
731	✓	1302	S	WS2027	1	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Powell	11/14/91 5:30pm		11/14 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/14 630		11/14 6:30

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
32	11/14/91	1306	S	WS 2027	1	00C	00L	✓	1	X			
33		1318	S	WS 2027	2	00A	00L	✓	1	X			
34		1321	S	WS 2027	2	00B	00L	✓	1	X			
735		1324	S	WS 2027	2	00C	00L	✓	1	X			
			~~S~~	~~WS 2027~~					WER				
36		1356	S	WS 2033	1	00A	00L	✓	1	X			
37		1400	S	WS 2033	1	00B	00L	✓	1	X			
38		1404	S	WS 2033	1	00C	00L	✓	1	X			
739		1410	S	WS 2033	2	00A	00L	✓	1	X			
40		1414	S	WS 2033	2	00B	00L	✓	1	X			
741		1418	S	WS 2033	2	00C	00L	✓	1	X			
42		1458	S	WS 2040	1	00A	00L	✓	1	X			
43		1504	S	WS 2040	1	00B	00L	✓	1	X			
44		1508	S	WS 2040	1	00C	00L	✓	1	X			
145		1520	S	WS 2040	2	00A	00L	✓	1	X			
46		1524	S	WS 2040	2	00B	00L	✓	1	X			
47		1528	S	WS 2040	2	00C	00L	✓	1	X			
748		1602	S	WS 2038	1	00A	00L	✓	1	X			
49		1606	S	WS 2038	1	00B	00L	✓	1	X			
750		1610	S	WS 2038	1	00C	00L	✓	1	X			
51		1619	S	WS 2038	2	00A	00L	✓	1	X			
752		1623	S	WS 2038	2	00B	00L	✓	1	X			
53		1627	S	WS 2038	2	00C	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavlik	11/14/91 5:36pm	[signature]	11/14 540
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/14 630	[signature]	11/14 6:30
METHOD OF SHIPMENT: WCL employee		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # _____
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-14-91 18:30

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-15-91 08:30

by (print) James Cash (sign) James Cash

1. List courier delivering samples . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-14-91 , seal name: Mark Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. * Did you sign custody papers in the appropriate place? . Cathy Gunther . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-15-91 by (all those involved must sign below):

(print) James Cash (sign) James Cash

11. Describe packing: blue ice and samples stacked
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
*16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

I:\WP\CHEMCOM\CRF.01

* Cathy signed for papers

#16 NO. (called Karen Myer. change I.D. on jar to match MA20231 00C 00C)

CHAIN OF CUSTODY RECORD

WWC

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
54	11/15/91	0838	S LE2029 1 00A 00L	1	X			
55		0842	S LE2029 1 00B 00L	1	X			
56		0846	S LE2029 1 00C 00L	1	X			
57		0852	S LE2029 2 00A 00L	1	X			
58		0855	S LE2029 2 00B 00L	1	X			
59		0904	S LE2029 2 00C 00L	1	X			
760		0929	S LE2037 1 00A 00L	1	X			
61		0933	S LE2037 1 00B 00L	1	X			
762		0937	S LE2037 1 00C 00L	1	X			
63		0946	S LE2037 2 00A 00L	1	X			
764		0948	S LE2037 2 00B 00L	1	X			
65		0957	S LE2037 2 00C 00L	1	X			
766		1021	S LE2045 1 00A 00L	1	X			
67		1021	S LE2045 1 00A 00D	1	X			
68		1025	S LE2045 1 00B 00L	1	X			
769		1025	S LE2045 1 00B 00D	1	X			
70		1029	S LE2045 1 00C 00L	1	X			
771		1029	S LE2045 1 00C 00D	1	X			
72		1040	S LE2045 2 00A 00L	1	X			
773		1044	S LE2045 2 00B 00L	1	X			
74		1050	S LE2045 2 00C 00L	1	X			
775		1109	S LE2047 1 00A 00L	1	X			
76	✓	1112	S LE2047 1 00B 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11-15 1720	[signature]	11/15 520
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/15 600	[signature]	11/15 6:00
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] Greg Hogarty

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
77	11/15/90	1115	S	LE2047	1	00C	00L	1	X			
78		1126	S	LE2047	2	00A	00L	1	X			
79		1130	S	LE2047	2	00B	00L	1	X			
80		1134	S	LE2047	2	00C	00L	1	X			
81		1328	S	LE2143	1	00A	00L	1	X			
82		1332	S	LE2143	1	00B	00L	1	X			
83		1336	S	LE2143	1	00C	00L	1	X			
84		1342	S	LE2143	2	00A	00L	1	X			
85		1346	S	LE2143	2	00B	00L	1	X			
86		1352	S	LE2143	2	00C	00L	1	X			
87		1417	S	LE2157	1	00A	00L	1	X			
88		1422	S	LE2187	1	00A	00D	1	X			
89		1425	S	LE2157	1	00B	00L	1	X			
90		1500	S	LE2187	1	00B	00D	1	X			
91		1421	S	LE2157	1	00C	00L	1	X			
92		1456	S	LE2187	1	00C	00D	1	X			
93		1426	S	LE2157	2	00A	00L	1	X			
94		1430	S	LE2157	2	00B	00L	1	X			
95		1436	S	LE2157	2	00C	00L	1	X			
96		1452	S	LE2161	1	00A	00L	1	X			
97		1500	S	LE2161	1	00B	00L	1	X			
98		1506	S	LE2161	1	00C	00L	1	X			
			S					1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hogarty	11-15 1720	[illegible]	11/15 520
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/15 600	John Gonzalez	11/16/6:00

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Walker

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
799	11-15-91	8:15	S	BE2148	1	00A	00L	1	X			
800		8:18	S	BE2148	1	00B	00L	1	X			
801		8:22	S	BE2148	1	00C	00L	1	X			
802		8:28	S	BE2148 GCH	2	00A	00L	1	X			
803		8:30	S	BE2148	2	00B	00L	1	X			
804		8:35	S	BE2148 GCH	2	00C	00L	1	X			
805		9:15	S	AD2108	1	00A	00L	1	X			
806		9:18	S	AD2108	1	00B	00L	1	X			
807		9:20	S	AD2108	1	00C	00L	1	X			
808		9:40	S	AD2120	1	00A	00L	1	X			
809		9:40	S	AD2120	1	00A	0LD	1	X			
810		9:43	S	AD2120	1	00B	00L	1	X			
811		9:43	S	AD2120	1	00B	0LD	1	X			
812		9:46	S	AD2120	1	00C	00L	1	X			
813		9:46	S	AD2120	1	00C	0LD	1	X			
814		9:50	S	AD2120	2	00A	00L	1	X			
815		9:55	S	AD2120	2	00B	00L	1	X			
816		10:00	S	AD2120	2	00C	00L	1	X			
817		10:32 GCH	S	AD2134	1	00A	00L	1	X			
818		10:35	S	AD2134	1	00B	00L	1	X			
819		10:39	S	AD2134	1	00C	00L	1	X			
820		10:40	S	AD2134	2	00A	00L	1	X			
821		10:44	S	AD2134	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-15 1720	[illegible]	11/15 520
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/15 600	[illegible]	11/15 600

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable) /

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
822	11-15-91	10:47	S	AD2138	2	00C	00L	1	X			
823		11:15	S	AD2138	1	00A	00L	1	X			
824		11:15	S	AD2138	1	00A	0LD	1	X			
825		11:19	S	AD2138	1	00B	00L	1	X			
826		11:19	S	AD2138	1	00B	0LD	1	X			
827		11:28	S	AD2138	1	00C	00L	1	X			
828		11:28	S	AD2138	1	00C	0LD	1	X			
829		11:28	S	AD2138	2	00A	00L	1	X			
830		11:32	S	AD2138	2	00B	00L	1	X			
831		11:35	S	AD2138	2	00C	00L	1	X			
832		11:51	S	BD2152	1	00A	00L	1	X			
833		11:54	S	BD2152	1	00B	00L	1	X			
834		11:58	S	BD2152	1	00C	00L	1	X			
835		12:05	S	BD2152	2	00A	00L	1	X			
836		12:08	S	BD2152	2	00B	00L	1	X			
837		12:11	S	BD2152	2	00C	00L	1	X			
838		12:33	S	BD2144	1	00A	00L	1	X			
839		12:36	S	BD2144	1	00B	00L	1	X			
840		12:39	S	BD2144	1	00C	00L	1	X			
841		12:45	S	BD2144	2	00A	00L	1	X			
842		12:49	S	BD2144	2	00B	00L	1	X			
843		12:51	S	BD2144	2	00C	00L	1	X			
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-15 1720	[illegible]	11/15 1720
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/15 600	[illegible]	11/15 6:00
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) Jorge Damia

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
14	11/15	1340	S TR0010 1 00A 00L	1	X			
15	11/15	1341	S TR0010 1 00D 00L	1	X			
16	11/15	1350	S TR0010 1 00K 00L	1	X			
847	11/15	1355	S TR0010 1 00L 00L	1	X			
18	11/15	1405	S TR0010 1 00M 00L	1	X			
019	11/15	1415	S TR0010 1 00N 00L	1	X			
20	11/15	1425	S TR0010 1 00T 00L	1	X			
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

Nothing Follows
Jorge Hagerty 11-15-9

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Jorge Hagerty	11-15 1120	[illegible]	11/15 520
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/15 600	[illegible]	11/16 6:00

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____ #1
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-15-91 18:00

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-18-91 830

by (print) James Cash (sign) James Cash

1. List courier delivering samples . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on Front
   If YES, enter the following: seal date: 11-15-91, seal name: mark Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplock™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-18-91 by (all those involved must sign below):
(print) James Cash (sign) James Cash

11. Describe packing: Blue ice + samples stacked
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . NA . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# NA . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

f:\WP\CHEMCOK\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
851	11/18	735	S	MA2021	1	00A	00L	1	X			
852		740	S	MA2021	1	00B	00L	1	X			
853		745	S	MA2021	1	00C	00L	1	X			
854		747	S	MA2021	2	00A	00L	1	X			
855		750	S	MA2021	2	00B	00L	1	X			
856		755	S	MA2021	2	00C	00L	1	X			
857		845	S	WS2028	1	00A	00L	1	X			
858		850	S	WS2028	1	00B	00L	1	X			
859		855	S	WS2028	1	00C	00L	1	X			
860		856	S	WS2028	2	00A	00L	1	X			
861		858	S	WS2028	2	00B	00L	1	X			
862		900	S	WS2028	2	00C	00L	1	X			
863		928	S	WS2036	1	00A	00L	1	X			
864		930	S	WS2036	1	00B	00L	1	X			
865		935	S	WS2036	1	00C	00L	1	X			
866		1019	S	WS2104	1	00A	00L	1	X			
867		1020	S	WS2104	1	00B	00L	1	X			
868		1025	S	WS2104	1	00C	00L	1	X			
869		1027	S	WS2104	2	00A	00L	1	X			
870		1029	S	WS2104	2	00B	00L	1	X			
871		1030	S	WS2104	2	00C	00L	1	X			
872		1105	S	GB1923	1	00A	00L	1	X			
873		1110	S	GB1923	1	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Mayer	11/18 4:27	[illegible]	11/18 1[illegible]
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/18 1915	[illegible]	

METHOD OF SHIPMENT: WWC Employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 36

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
74	11/18	1115	S	GR1923	1	00C	00L	1	X			
875		1116	S	GR1923	3	00A	00L	1	X			
76		1118	S	GR1923	2	00B	00L	1	X			
877		1120	S	GR1923	2	00C	00L	1	X			
78		1158	S	GR2149	1	00A	00L	1	X			
879		1200	S	GR2149	1	00B	00L	1	X			
80		1205	S	GR2149	1	00C	00L	1	X			
881		1207	S	GR2149	3	00A	00L	1	X			
882		1209	S	GR2149	2	00B	00L	1	X			
83		1211	S	GR2149	2	00C	00L	1	X			
884		145	S	ED1627	1	00A	00L	1	X			
85		147	S	ED1627	1	00B	00L	1	X			
886		150	S	ED1627	1	00C	00L	1	X			
87		155	S	ED1627	2	00A	00L	1	X			
888		158	S	ED1627	2	00B	00L	1	X			
89		200	S	ED1627	2	00C	00L	1	X			
890		210	S	ED1635	1	00A	00L	1	X			
891		215	S	ED1635	1	00B	00L	1	X			
892		220	S	ED1635	1	00C	00L	1	X			
893		225	S	ED1635	2	00A	00L	1	X			
894		228	S	ED1635	2	00B	00L	1	X			
895		230	S	ED1635	2	00C	00L	1	X			
			~~S~~	~~ED1631~~	~~1~~	~~001~~	~~00L~~	~~1~~	~~X~~			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/18 4:30		11/18 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/18 1915		11/18 1915
METHOD OF SHIPMENT: WWC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 36

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	11/18	253	S ED1639 1 00A 00L /	1	X			
77		257	S ED1639 1 00B 00L /	1	X			
78		300	S ED1639 1 00C 00L /	1	X			
899		305	S ED1639 2 00A 00L /	1	X			
30		308	S ED1639 2 00B 00L /	1	X			
.01		310	S ED1639 2 00C 00L /	1	X			
		210	S ED1635 1 00A OLD /	1	X	NOT REC'D BY LAB.		Kmm
		215	S ED1635 1 00B OLD /	1	X			Kmm
		220	S ED1635 1 00C OLD /	1	X			Kmm
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

Nothing follows
Karen Meyer
11/18/91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/18 4:25	[illegible]	11/18 1830
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/18 1915	[illegible]	11/18 1915
METHOD OF SHIPMENT: WWC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2	11/10	1622	SIR0006 1 00AC00L	1	X			
703		1620	SIR0006 L 00D00L	1	X			
4		1630	SIR0006 L 00K00L	1	X			
705		1640	SIR0006 L 00L00L	1	X			
6		1645	SIR0006 L 00M00L	1	X			
707		1655	SIR0006 L 00N00L	1	X			
8		1655	SIR0006 L 00N01X	1	X			
9		1655	SIR0006 L 00N01M	1	X			
710		1705	SIR0006 L 00I00L	1	X			
11		1349	SIR0007 L 00AC00L	1	X			
912		1350	SIR0007 L 00D00L	1	X			
13		1415	SIR0007 L 00K00L	1	X			
914		1420	SIR0007 L 00L00L	1	X			
15		1420	SIR0007 L 00L01D	1	X			
16		1425	SIR0007 L 00M00L	1	X			
17		1435	SIR0007 L 00N00L	1	X			
18		1450	SIR0007 L 00I00L	1	X			
919		1037	SIR0008 L 00AC00L	1	X			
20		1038	SIR0008 L 00D00L	1	X			
921		1045	SIR0008 L 00K00L	1	X			
22		1100	SIR0008 L 00L00L	1	X			
923		1110	SIR0008 L 00M00L	1	X			
24		1120	SIR0008 L 00N00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/18 6:32		11/18 1830
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/18 1915		11/18 19[illegible]
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Mallory / [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
33	11/19/91	8:10	S EL1715 1 00B 00L ✓	1	X			
34		8:15	S EL1715 1 00B 00L ✓	1	X			
35		8:20	S EL1715 1 00C 00L ✓	1	X			
936		8:30	S EL1715 2 00B 00L ✓	1	X			
37		8:35	S EL1715 2 00B 00L ✓	1	X			
38		8:40	S EL1715 2 00C 00L ✓	1	X			
39		9:00	S EL1717 1 00A 00L ✓	1	X			
40		9:05	S EL1717 1 00B 00L ✓	1	X			
941		9:10	S EL1717 1 00C 00L ✓	1	X			
42		9:20	S EL1717 2 00A 00L ✓	1	X			
943		9:25	S EL1717 2 00B 00L ✓	1	X			
44		9:30	S EL1717 2 00C 00L ✓	1	X			
45		9:45	S EL1723 1 00A 00L ✓	1	X			
46		9:47	S EL1723 1 00B 00L ✓	1	X			
47		9:50	S EL1723 1 00C 00L ✓	1	X			
948		10:05	S EL1725 1 00A 00L ✓	1	X			
49		10:08	S EL1725 1 00B 00L ✓	1	X			
950		10:10	S EL1725 1 00C 00L ✓	1	X			
51		10:15	S EL1725 2 00A 00L ✓	1	X			
952		10:17	S EL1725 2 00B 00L ✓	1	X			
53		10:20	S EL1725 2 00C 00L ✓	1	X			
954		10:50	S EL1720 1 00A 00L ✓	1	X			
55		10:61	S EL1720 1 00A 00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11/19 1144	[illegible]	11/19 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/19 630	[illegible]	11/19 6:30
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Walker, R. Steele

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
56	11-19-91	10:50	S	EL1920	2	00A	02X	✓	1	X			
257		10:55	S	EL1920	2	00B	02L	✓	1	X			
58		10:55	S	EL1920	2	00B	02M	✓	1	X			
459		10:55	S	EL1920	2	00B	02X	✓	1	X			
60		11:00	S	EL1920	2	00C	02L	✓	1	X			
61		11:00	S	EL1920	2	00C	02M	✓	1	X			
62		11:00	S	EL1920	2	00C	02X	✓	1	X			
63		11:40	S	EL1918	2	00A	02L	✓	1	X			
964		11:45	S	EL1918	2	00B	02L	✓	1	X			
65		11:48	S	EL1918	2	00C	02L	✓	1	X			
966		144	S	GW102L	1	00A	02L	✓	1	X			
67		150	S	GW102L	1	00B	02L	✓	1	X			
968		155	S	GW102L	1	00C	02L	✓	1	X			
69		156	S	GW102L	2	00A	02L	✓	1	X			
70		158	S	GW102L	2	00B	02L	✓	1	X			
071		200	S	GW102L	2	00C	02L	✓	1	X			
			S	~~EL1920~~					1	X			
			S	~~EL1920~~					1	X			
			S	~~EL1920~~					1	X			
			S						1	X		R. Steele	
			S						1	X			
			S						1	X			
			S						1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11-19 1744	[signature]	11/19 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/19 630	Esther Litsey	11/19 6:30P
METHOD OF SHIPMENT: WCC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2 11/19	1115	S IR0005 L 00C00L -	1	X			
973	1116	S IR0005 L 00D00L -	1	X			
.4	1120	S IR0005 L 00K00L -	1	X			
.75	1130	S IR0005 L 00L00L -	1	X			
	~~1130~~	~~S IR0005 L 00L00LQ~~	~~1~~	~~X~~			MRD LIMS 1019
.76	1135	S IR0005 L 00M00L -	1	X			
977	1144	S IR0005 L 00N00L -	1	X			
78	1155	S IR0005 L 00T00L -	1	X			
979	1410	S IR0002 L 00C00L -	1	X			
80	1412	S IR0002 L 00D00L -	1	X			
981	1418	S IR0002 L 00K00L -	1	X			
82	1425	S IR0002 L 00L00L -	1	X			
.83	1435	S IR0002 L 00M00L -	1	X			
4	1507	S IR0002 L 00N00L -	1	X			
.85	1515	S IR0002 L 00T00L -	1	X			
986	1515	S IR0002 L 00T00LQ -	1	X			
		S		Nothing Follows			
		S		Greg Hogarty			
		S		11-19-91			
		S					
		S					
		S					
		S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hogarty	11/19 1744	[signature]	11/19 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/19 930	[signature]	11/19 6:30
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 172
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 11-19-91 1830

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-20-91 1000

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-19-91, seal name: Gregg Hagerty
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc® bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-20-91 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Coolers with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

\\WP\CHEMCOM\CRF.01

#9) Ethan Litsey signed custody papers.

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	11/16	1130	S IR0009 1 00I 00L /	1 ✓	X			
26		850	S IR0009 1 00C 00L /	1 ✓	X			
27		851	S IR0009 1 00D 00L /	1 ✓	X			
28		854	S IR0009 1 00K 00L /	1 ✓	X			
29		900	S IR0009 1 00L 00L /	1 ✓	X			
30		905	S IR0009 1 00M 00L /	1 ✓	X			
31		910	S IR0009 1 00N 00L /	1 ✓	X			
32	↓	925	S IR0009 1 00T 00L /	1 ✓	X			
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/18 6:32		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/18 1915		11/18 1915
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # V #16
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-18-91 19:15

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-19-91 09:05

by (print) James Cash (sign) James Cash

1. List courier delivering samples . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-18-91, seal name: Cris Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
*7. Were entries on custody papers completed? YES NO. If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-19-91 by (all those involved must sign below):
(print) James Cash (sign) James Cash

11. Describe packing: Blue ice stacked samples Filters in Bag
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# DA . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

Notified Karen Meyer @ WWC. She said that these 3 samples got put into wrong cooler. I told her I would mark COC as not rec[illegible] by [illegible]

\WP\CHEMCOM\CRF.01

* Samples we're missing SED 1635 100A OLD BOLD

11

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

January 29, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C1C0
NO. OF SAMPLES/
MATRIX 200/soil
Analysis Date: 12/10/91

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	(1)				
5. MATRIX SPIKE	(2)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (2) WWC2*60, WWC2*100, WWC2*140, WWC2*160 RPD outside of control range. WWC*980, % recovery outside control range. Corresponding samples qualified as estimated (J).

COMMENTS: (1) Negative recovery reported for one sample; lab attributed to correction using a falsely high background. Sample demonstrated acceptable recovery using the proper background - data not affected.

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. NA
NO. OF SAMPLES/
MATRIX 239 / soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 3/3/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES					
2. BLANKS					
3. CCV					
4. STANDARD MATRIX SPIKE					
5. MATRIX SPIKE					
6. OTHER QC					
7. OVERALL ASSESSMENT					

Not Applicable

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: Review of % Moisture calculations — all of the attached calculations were checked for accuracy. No errors were found.
Dana Doerfler

Environmental Science & Engineering, Inc.

Letter of Transmitta

X 11665 Lilburn Park Rd
St. Louis, MO 63146
(314) 567-4600
FAX 314-567-5030

8230 Marshall Dr
Lenexa, KS 66214
(913) 492-6554
FAX 913-492-9256

701 E. 2nd St
Des Moines, IA 50309
(515) 282-9607
FAX 515-282-9610

DATE 2-24-92 JOB NO.

ATTENTION

Dave Pate
Woodward - Clyde

① Corrected Method Blank QC page.

② 10% of WWC & WWC2 moisture sample logs.

WE ARE SENDING YOU X Attached ___ Under separate cover via _____ the following items

___ Shop drawings ___ Prints ___ Plans ___ Samples ___ Specifications

___ Copy of letter ___ Change order ___

COPIES	LATEST DATE	NO.	DESCRIPTION
1			① Replacement QC Summary page (page 2). for Method Blank QC 12/31/91 & 1/1/92.
			② Moisture logs.

THESE ARE TRANSMITTED as checked below:

___ For approval ___ No exception taken ___ Revise and submit ___ copies

___ For your use ___ Make corrections noted ___ Submit ___ copies for distribution

X As requested ___ Rejected ___ Return ___ corrected prints

___ For review and comment ___

___ FOR BIDS DUE _____ 19___ ___ PRINTS RETURNED AFTER LOAN TO US

REMARKS Lead analyses performed on 12/31/91 - 1/1/92 were in batch S6702. Method Blanks are reported in the QC Summary for this batch, however, the analysis date did not show on this report. The problem has been corrected and enclosed is the corrected QC Summary page.

We apologize for any confusion this may have caused. If you have any questions please call.

Also enclosed: 10% of moisture sample preparation logs. Batch S6534 has 139 samples; batch S6567 has 100 samples.

COPY TO File

Signed Ethan C Lutsey

If enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - tec

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
LEAD	MG/KG-DRY	1051*SMILS	S6581	MB*NONE*7	12/10/91	0.02	
LEAD	MG/KG-DRY			MB*NONE*8		0.006	
LEAD	MG/KG-DRY		S6612	MB*NONE*1	12/12/91	0.004	
LEAD	MG/KG-DRY			MB*NONE*2		0.01	
LEAD	MG/KG-DRY			MB*NONE*3		0.01	
LEAD	MG/KG-DRY			MB*NONE*4		0.0	
LEAD	MG/KG-DRY			MB*NONE*5		0.007	
LEAD	MG/KG-DRY			MB*NONE*6		0.007	
LEAD	MG/KG-DRY			MB*NONE*7		0.004	
LEAD	MG/KG-DRY			MB*NONE*8		0.01	
LEAD	MG/KG-DRY		S6625	MB*NONE*11	12/13/91	0.007	
LEAD	MG/KG-DRY			MB*NONE*2		0.01	
LEAD	MG/KG-DRY			MB*NONE*3		0.0	
LEAD	MG/KG-DRY			MB*NONE*4		0.009	
LEAD	MG/KG-DRY		S6627	MB*NONE*5	12/14/91	0.0005	
LEAD	MG/KG-DRY			MB*NONE*6		0.0	
LEAD	MG/KG-DRY			MB*NONE*7		0.007	
LEAD	MG/KG-DRY		S6634	MB*NONE*8	12/15/91	0.008	
LEAD	MG/KG-DRY		S6648	MB*NONE*1	12/16/91	0.008	
LEAD	MG/KG-DRY			MB*NONE*2		0.005	
LEAD	MG/KG-DRY			MB*NONE*3		0.02	
LEAD	MG/KG-DRY			MB*NONE*4		0.004	
LEAD	MG/KG-DRY			MB*NONE*5		0.003	
LEAD	MG/KG-DRY			MB*NONE*6		0.005	
LEAD	MG/KG-DRY			MB*NONE*7		0.02	
LEAD	MG/KG-DRY			MB*NONE*8		0.01	
LEAD	MG/KG-DRY		S6683	MB*NONE*1		0.0	
LEAD	MG/KG-DRY			MB*NONE*2		0.002	
LEAD	MG/KG-DRY			MB*NONE*3		0.0	
LEAD	MG/KG-DRY			MB*NONE*4		0.02	
LEAD	MG/KG-DRY			MB*NONE*5		0.0	
LEAD	MG/KG-DRY		S6702	MB*NONE*4	12/31/91	0.09	
LEAD	MG/KG-DRY			MB*NONE*5		0.02	
LEAD	MG/KG-DRY			MB*NONE*6		0.01	
LEAD	MG/KG-DRY			MB*NONE*7		0.002	
LEAD	MG/KG-DRY			MB*NONE*8		0.14	
LEAD	MG/KG-DRY			MB*NONE*9	01/01/92	0.02	

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 32

Date Start: 12/3/91 Chem. Int.: WWP Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture	
1	WWC-0621	4	N	mix	dirt	1.3476	5.1664	5.4123	21.32	✓
2	0622					1.3506	5.4105	5.7372	18.92	✓
3	0623					1.3530	5.6713	6.1725	15.02	✓
4	0624					1.3457	6.2429	6.2341	21.70	✓
5	0625					1.3464	5.3087	5.7487	17.38	✓
6	0626					1.3577	5.3301	5.9781	13.20	✓
7	0627					1.3497	6.0440	6.6379	29.10	✓
8	0628					1.3499	5.2484	5.3523	24.38	✓
9	0629					1.3509	8.0971	7.9197	18.87	✓
10	0630					1.3516	5.4142	5.6774	20.10	✓
11	0631					1.3459	5.3927	5.6897	18.70	✓
12	0632					1.3454	5.3000	5.7627	16.65	✓
13	0633					1.3422	5.9843	6.1707	19.31	
14	0634					1.3425	6.4790	6.7590	16.80	✓
15	0635					1.3444	6.0055	6.1723	19.61	✓
16	0636					1.3390	6.8032	7.1241	14.96	✓
17	0637					1.3379	5.8247	6.0017	19.93	✓
18	0638					1.3355	5.7042	6.1452	15.68	✓
19	0639					1.3370	5.1744	5.8222	13.32	✓
20	0640					1.3368	5.7767	5.9574	20.01	✓
21	MB					1.3393	—	1.3388	0	✓
22	RP WWC-0640	↓	↓	↓	↓	1.3433	5.7170	5.9229	19.90	✓

\wp\chemcom\metdigst.frm.3

Batch 56534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 33

Date Start: 12/3/91 Chem. Int.: [illegible] Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture	
1	WWC 641	7	N	mix	dirt	1.3398	5.5101	5.4683	15.46	✓
2	642					1.3421	5.9749	6.3081	16.88	✓
3	643					1.3464	6.2648	6.3956	19.80	✓
4	644					1.3380	6.6490	6.7945	17.92	✓
5	645					1.3387	6.7069	7.2764	11.47	✓
6	646					1.3406	5.8992	5.9528	21.82	✓
7	647					1.3465	6.4110	6.6496	17.28	✓
8	648					1.3449	5.0559	5.6836	14.18	✓
9	649					1.3414	5.3508	5.4460	23.29	✓
0	650					1.3412	5.9766	6.3450	16.28	✓
11	651					1.3368	5.7645	6.5746	9.14	✓
2	652					1.3329	5.9333	6.0941	19.75	✓
13	653					1.3309	6.4973	6.7961	15.88	✓
4	654					1.3299	5.6821	6.2479	13.45	✓
15	655					1.3286	5.7200	6.1759	15.20	✓
6	656					1.3379	6.6523	7.3377	9.73	✓
7	657					1.3276	5.1445	6.0400	8.40	✓
8	658					1.3303	5.4298	5.6196	21.80	✓
19	659					1.3341	6.4472	6.7969	15.27	✓
0	660					1.3399	5.3275	6.0668	11.27	✓
21	MB					1.3468	—	1.3402	0	✓
2	RP WWC 660					1.3430	6.4094	7.0163	11.48	✓

\wp\chemcom\metdiget.frm.3

Batch 56534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 34

Date Start: 12/3/91 Chem. Int.: WAP Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC * 661	S	N	mix	dirt	1.3440	5.8038	6.0619	19.98
2	* 662					1.3399	5.3653	5.8133	16.62
3	* 663					1.3406	5.9478	6.4530	14.38
4	* 664					1.3398	5.1101	5.3763	21.01
5	* 665					1.3397	5.0251	5.2754	21.68
6	* 666					1.3399	5.1991	5.5034	19.92
7	* 667					1.3353	6.8994	7.0076	17.78
8	* 668					1.3483	8.4536	8.2881	17.91
9	* 669					1.3484	5.9135	6.3324	16.84
10	* 670					1.3353	6.2481	6.3099	20.38
11	* 671					1.3[illegible]	5.1046	5.4078	20.29
12	* 672					1.3405	5.6064	5.8472	19.62
13	* 673					1.3361	5.6857	5.4853	26.95
14	* 674					1.3348	5.1846	5.1681	26.06
15	* 675					1.3330	6.2167	5.4[illegible]	29.89
16	* 676					1.3312	5.0961	5.0382	27.26
17	* 677					1.3343	5.6743	5.5952	24.91
18	* 678					1.3345	5.2420	5.3785	22.85
19	* 679					1.3336	5.1045	5.3055	22.19
20	* 680					1.3356	5.8097	5.8741	21.87
21	MB					1.3358		1.3352	0
22	RP WWC * 680					1.3348	5.2761	5.3411	24.07

\wp\chemcom\metdigst.frm.3

Batch 36534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 35

Date Start: 12/3/91 Chem. Int.: WP Date End: 12/4/91 Chem. Int: KG Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC # 681	G	N	MIX	dirt	1.3423	5.0716	5.4156	19.68
2	# 682					1.3467	5.5533	5.5892	23.60
3	# 683					1.3521	5.4813	5.5934	22.62
4	# 684					1.3544	5.0394	5.2816	21.99
5	# 685					1.3545	5.0491	4.8805	30.16
6	# 686					1.3500	5.1455	5.1784	25.60
7	# 687					1.3439	5.9208	6.0494	20.52
8	# 688					1.3469	6.6412	5.4412	27.42
9	# 689					1.3445	6.0802	5.9835	23.70
10	# 690					1.3419	6.2150	6.4031	18.56
11	# 691					1.3384	6.8666	6.6562	22.56
12	# 692					1.3310	5.4153	5.6398	20.43
13	# 693					1.3341	6.8068	6.8840	18.46
14	# 694					1.3315	5.7103	5.6221	24.86
15	# 695					1.3324	6.4863	6.5853	19.02
16	# 696					1.3322	6.6411	6.9127	15.97
17	# 697					1.3349	5.0135	5.3324	19.25
18	# 698					1.3324	5.1363	5.5444	18.00
19	# 699					1.3353	6.0454	6.3638	16.82
20	# 700					1.3334	6.0542	6.2632	18.58
21	MB					1.3352	—	1.3348	0
22	RP (WWC # 700)					1.3325	5.6706	5.9781	18.08

\wp\chemcom\metdiget.frm.3

Batch 56534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 36

Date Start: 12/3/91 Chem. Int.: LAC Date End: 12/4/91 Chem. Int: [illegible] Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC #701	2	N	mix	dirt	1.3202	5.2140	5.6227	17.48
2	#702					1.3237	5.1222	5.4854	18.75
3	#703					1.3286	5.3270	5.6454	19.53
4	#704					1.3333	5.7463	6.0366	18.15
5	#705					1.3331	5.3340	5.7479	17.23
6	#706					1.3328	5.2802	5.6619	18.01
7	#707					1.3261	5.0886	5.5978	16.05
8	#708					1.3425	5.1606	5.6141	17.23
9	#709					1.3428	5.4480	5.6454	21.02
10	#710					1.3414	5.0127	5.3328	20.37
11	#711					1.3481	5.2291	5.6004	19.68
12	#712					1.3503	5.3450	5.2474	26.71
13	#713					1.3526	5.5308	5.7452	20.58
14	#714					1.3616	5.2029	5.5559	19.38
15	#715					1.3583	5.4486	6.1504	12.05
16	#716					1.3610	5.7126	6.2121	15.08
17	#717					1.3581	5.3209	5.8567	15.45
18	#718					1.3546	5.6980	5.9211	19.86
19	#719					1.3525	5.3347	5.7876	16.86
20	#720					1.3579	5.6873	6.0389	17.69
	MB					1.3530	—	1.3526	0
22	RP WWC #720				dirt	1.3511	5.2414	5.6323	18.32

wp\chemcom\metdiget.frm.3

Batch 56534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 37

Date Start: 12/3/91 Chem. Int.: LAC Date End: 12/4/91 Chem. Int: MC Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	UWC X721	3	N	mix	dirt	1.3535	5.1339	5.3523	22.11
2	X722					1.3461	5.2350	5.5829	19.07
3	X723					1.3394	5.5954	5.8635	19.16
4	X724					1.3377	5.2322	5.5335	19.81
5	X725					1.3372	5.0263	5.4105	18.96
6	X726					1.3370	5.5783	5.8873	18.43
	X727					1.3347	5.6313	5.7573	21.46
8	X728					1.3350	6.0221	6.2296	19.72
9	X729					1.3395	5.2767	5.7105	17.16
10	X730					1.3430	5.4748	5.4679	24.66
11	X731					1.3431	5.1396	5.3685	21.68
12	X732					1.3479	6.1033	6.2739	19.29
13	X733					1.3544	5.8300	5.7622	24.39
14	X734					1.3585	5.1222	5.4340	20.43
15	X735					1.3535	5.1188	5.3950	21.04
16	X736					1.3503	5.4408	5.5405	23.02
	X737					1.3539	5.5780	5.7832	20.59
18	X738					1.3480	5.2346	5.4686	21.28
19	X739					1.3459	5.5121	5.6751	21.46
20	UWC X740					1.3425	5.5873	5.7802	20.58
21	MB					1.3524	—	1.3520	0
22	RP UWC X740					1.3452	5.1320	5.4214	20.57

\wp\chemcom\metdigst.frm.3

Batch 56534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 38

ate Start: 12/3/91 Chem. Int.: WHP Date End: 12/4/91 Chem. Int: KC Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
	WWC 741	1	N	mix	dirt	1.3422	5.1245	5.3866	21.08
2	742					1.3452	5.2423	5.6024	18.79
	743					1.3399	5.3021	5.6806	18.13
4	744					1.3423	5.0142	5.4778	17.54
	745					1.3466	5.4450	5.4597	24.46
6	746					1.3495	6.1525	6.1173	22.51
	747					1.3471	5.3196	5.6429	19.24
8	748					1.3459	5.6142	5.5385	25.32
	749					1.3465	5.0328	5.4475	18.51
0	750					1.3447	6.0310	6.3518	16.98
	751					1.3452	7.2365	6.8915	23.36
2	752					1.3394	5.3553	5.8336	16.08
	753					1.3445	5.3690	5.4252	29.00
4	754					1.3490	5.7088	5.2024	23.74
	755					1.3535	5.0438	5.3615	20.54
6	756					1.3550	5.8658	6.0271	20.35
	757					1.3559	5.6126	5.7980	20.85
8	758					1.3508	5.4044	5.9154	15.54
	759					1.3510	5.1916	5.5381	19.35
0	760					1.3508	5.8186	5.7893	23.72
	MB					1.3423	—	1.3422	0
2	RP WWC 760					1.3434	5.1306	5.2541	23.74

p\chemcom\metdigst.frm.3

Batch 5534

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 46

Date Start: 12/5/91 Chem. Int.: [illegible] Date End: 12/6/91 Chem. Int.: [illegible] Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC2 → 1	7	N	mix	dirt	1.3388	6.3321	6.3667	20.6
2	→ 2					1.3446	5.8649	6.0015	20.6
3	→ 3					1.3440	5.4245	5.6089	21.4
4	→ 4					1.3547	5.5948	5.6535	23.1
5	→ 5					1.3494	5.7682	5.8882	21.3
6	→ 6					1.3536	6.7393	6.5373	23.1
7	→ 7					1.3542	6.4967	6.2563	24.5
8	→ 8					1.3531	5.5860	5.8631	19.3
9	→ 9					1.3556	6.2207	6.2318	21.6
10	→ 10					1.3575	7.8780	7.3939	23.4
11	→ 11					1.3578	6.7801	6.6323	22.2
12	→ 12					1.3534	5.9874	5.6551	21.6
13	→ 13					1.3456	6.5929	6.3316	24.4
14	→ 14					1.3470	5.6285	5.7009	22.7
15	→ 15					1.3453	5.9830	6.0406	21.5
16	→ 16					1.3439	5.3489	5.6234	19.9
17	→ 17					1.3440	5.1616	5.2313	24.7
18	→ 18					1.3442	5.5867	5.2409	30.2
19	→ 19					1.3327	5.9071	5.8259	19.8
20	WWC2 → 20					1.3519	5.6000	5.7181	22.0
21	MB					1.3533	—	1.3531	0
22	RP WWC2 → 20	→	→	→	→	1.3506	5.2480	5.3961	22.9

\wp\chemcom\metdigst.frm.3

56567

A

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 47

Date Start: 12/5/91 Chem. Int.: WHP Date End: 12/6/91 Chem. Int: WHP Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC2 ▲21	5	N	MIX	dirt	1.3598	5.3048	5.5765	70.3
2	▲22					1.3474	5.7149	5.3967	29.1
3	▲23					1.3469	5.4757	5.1706	30.2
4	▲24					1.3392	5.6525	5.4299	27.6
5	▲25					1.3342	5.6367	5.7800	21.1
6	▲26					1.3302	5.7589	6.0179	18.6
7	▲27					1.3333	5.5887	5.8824	18.5
8	▲28					1.3399	6.6868	6.8031	18.3
9	▲29					1.3465	5.8559	6.2249	16.7
10	▲30					1.3507	7.0650	7.3884	14.6
11	▲31					1.3507	7.2473	6.9784	22.4
12	▲32					1.3512	5.8967	6.0036	21.1
13	▲33					1.3323	5.1598	5.2087	24.6
14	▲34					1.3313	5.1513	5.3350	22.3
15	▲35					1.3506	5.4205	5.7246	14.3
16	▲36					1.3513	6.0843	6.0834	22.7
17	▲37					1.3401	7.2568	6.8829	23.6
18	▲38					1.3427	6.3938	6.4077	20.9
19	▲39					1.3467	6.1287	6.3942	17.6
20	▲40					1.3469	5.8057	5.6390	26.1
21	MB					1.3462	—	1.3458	0
22	RP WWC ▲40	↓	↓	↓	↓	1.3429	5.2642	5.2400	26.0

\wp\chemcom\metdigst.frm.3

56567

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 48

Date Start: 12/5/91 Chem. Int.: [illegible] Date End: 12/6/91 Chem. Int.: [illegible] Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry sample & Container C	% Moisture
	WWC2 41	G	Y	mix	dirt	1.3431	7.5152	7.080	23.6
2	42					1.3422	7.2247	7.2903	17.7
	43					1.3324	6.0506	6.046	22.1
4	44					1.3301	5.7578	5.9264	20.1
	45					1.3184	5.2749	5.3642	20.1
6	46					1.3469	5.5325	5.6946	21.4
	47					1.3633	5.5300	5.7008	21.6
8	48					1.3664	6.7020	6.7690	19.4
	49					1.3495	7.1213	6.8814	22.3
10	50					1.3580	5.5722	5.8114	20.1
	51					1.3485	5.1874	5.5206	19.6
12	52					1.3645	6.6681	6.5082	22.9
	53					1.3640	6.8221	6.7788	20.6
14	54					1.3600	5.2955	5.6269	18.0
	55					1.3600	9.1027	8.4303	22.3
	56					1.3562	6.0988	6.2135	20.3
	57					1.3524	7.2500	7.2319	18.9
18	58					1.3535	6.6690	6.5994	21.5
	59					1.3486	5.8106	5.9898	20.1
20	60					1.3713	7.2900	7.3332	18.2
	MB					1.3761	—	1.3760	0
22	RP WWC2 60					1.3752	5.3650	5.7377	18.7

wp\chemcom\metdigst.frm.3

56567

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 49

Date Start: 12/5/91 Chem. Int.: WKP | Date End: 12/6/91 Chem. Int: WKP | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
	WWC2-61	1	N	mix	dirt	1.3704	6.4713	6.4147	21.6
2	62					1.3666	5.3074	5.5047	22.4
	63					1.3611	5.8816	6.0951	19.8
4	64					1.3513	5.5233	5.7346	20.3
	65					1.3493	7.3382	7.2588	19.5
6	66					1.3474	5.7134	5.9513	19.4
	67					1.3516	5.2668	5.2469	26.0
8	68					1.3549	5.1132	5.3129	22.6
	69					1.3590	5.4436	5.5544	22.9
10	70					1.3537	5.9040		Spilled
	71					1.3586	5.7097	5.8490	21.4
12	72					1.3612	5.0666	5.2614	23.0
	73					1.3714	5.9495	6.7447	9.68
14	74					1.3729	5.5722	6.5746	6.74
	75					1.3720	5.6260	5.5794	25.2
16	76					1.3629	5.1162	5.2030	24.9
	77					1.3605	6.3694	6.1215	25.2
18	78					1.3691	5.4482	5.4123	26.0
	79					1.3558	6.2253	6.8791	11.3
20	80					1.3852	5.1920	5.8966	11.5
	MB					1.3601	6.4415	1.3601	0
22	RP WWC2-80					1.3741	6.4451	~~4.177~~ 7.0528	11.8

wp\chemcom\metdigst.frm.3

RPT

WWC2-70

10:20 A
2:20 P

56567

1.3500 5.4084 5.3590 25.9

PERCENT MOISTURE DETERMINATION

Notebook: 2072 Page#: 50

ate Start: 12/5/91 Chem. Int.: WAP Date End: 12/6/91 Chem. Int: WAP Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
	WWCZ 81	21	N	mix	soil	1.3657	5.8386	5.9441	21.6
2	82					1.3675	6.8468	7.1429	15.6
	83					1.3706	5.2789	5.2428	26.6
4	84					1.3807	7.4386	6.6847	28.7
	85					1.3829	5.6318	5.3107	30.3
	86					1.3812	6.6492	7.1223	13.7
	87					1.3786	5.6951	6.1449	16.3
8	88					1.3800	6.0068	6.5291	14.3
	89					1.3795	5.2992	5.8984	14.6
10	90					1.3779	6.7250	6.9392	17.3
	91					1.3769	6.2264	5.8846	27.6
12	92					1.3726	6.3056	5.9506	27.4
3	93					1.3698	7.2591	6.5503	28.6
14	94					1.3713	5.7378	5.4093	29.6
5	95					1.3699	5.8203	5.8824	22.5
	96					1.3611	6.1199	6.8554	10.7
7	97					1.3560	5.3727	5.5815	21.4
18	98					1.3823	6.6672	7.1500	13.5
9	99					1.3734	6.1583	6.4057	18.3
20	↓ $100					1.3710	5.6271	5.2854	30.4
1	MB					1.3381		1.3380	0
22	RP WWCZ 100	↓	↓	↓	↓	1.3787	5.1158	4.9775	29.6

\wp\chemcom\metdigst.frm.3

S6567

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 591203:0100
NO. OF SAMPLES/
MATRIX 160/Soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Ilenda
REVIEWER'S NAME Kim Ilenda
COMPLETION DATE 1-30-92

Analysis Date - 12/12/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(1) ✓				
6. OTHER QC	—				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: (1) Negative values should be discarded, because the concentration of the target compound in the sample matrix was found to be > 4 times the spiking level.

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031010 0
NO. OF SAMPLES/
MATRIX 17/soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Ilenda
REVIEWER'S NAME Kim Ilenda
COMPLETION DATE 1-30-92

Analysis Date - 12-13-91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	✓				
6. OTHER QC	—				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 59120310100
NO. OF SAMPLES/
MATRIX 55/Soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Ilenda
REVIEWER'S NAME [illegible]
COMPLETION DATE 1-30-92

Analysis Date - 12-14-91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	✓				
6. OTHER QC	–				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 591203101 00
NO. OF SAMPLES/
MATRIX 28 / Soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Ikeda
REVIEWER'S NAME Kim Ikeda
COMPLETION DATE 1-3-93

Analysis Date - 12-15-91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	✓				
6. OTHER QC	—				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 59120310100
NO. OF SAMPLES/
MATRIX 260/soil
Analysis date: 12/16/91

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	✓				
3. CCV	(1)				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(2)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (2) WWC2 * 751 RPD outside control limits; corresponding data qualified as estimated.

COMMENTS: (1) CCV outside control limits for one sample; lab indicated that this was due to incorrect programming of autosampler; data not affected.

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31C1CC
NO. OF SAMPLES/
MATRIX 83 /soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Dana Doerfler
REVIEWER'S NAME Dana Doerfler
COMPLETION DATE 2/11/92

Analysis date: 12/31/91

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	(1)				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	(2)				
6. OTHER QC	NA				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) Blank data not included in QA report.
(2) WWC2*831, WWC2*891 RPD outside control limits; WWC2*871 % recovery outside control limits Matrix interference established, corresponding sample results qualified as estimated.

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 59/2031010O
NO. OF SAMPLES/
MATRIX 28/Soil

SITE NL/TARACORP SUPERFUND SITE

REVIEWER Kim Ilenda
REVIEWER'S NAME Kim Ilenda
COMPLETION DATE 1-30-92

Analysis Date - 1-1-92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES	✓				
2. BLANKS	No blanks listed				
3. CCV	✓				
4. STANDARD MATRIX SPIKE	✓				
5. MATRIX SPIKE	✓				
6. OTHER QC	—				
7. OVERALL ASSESSMENT	O				

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

Environmental
Science &
Engineering, Inc.

January 29, 1992
ESE No. 5912031 0100

Ms. Cynthia Pavelka
Woodward-Clyde Consultants
2318 Millpark Dr.
Maryland Heights, MO 63043

RE: Report of Analytical Chemistry Results,
Woodward-Clyde Consultants - Report 2
NL/Taracorp Project

Dear Ms. Pavelka:

Enclosed is the complete report of results for eight hundred ninety-one (891) soil samples received in the ESE St. Louis Laboratory from November 20 to December 9, 1991. The preliminary results have been reported to you as they became available. The samples were analyzed in accordance with the approved EPA methods as indicated in the report. Results for TCLP lead samples received during this period will be included under a separate cover.

The QC results are composed of two parts, precision and accuracy. The % recovery is used to assess the accuracy of the analytical method. The % recovery limits for each of the control compounds are tabulated in the following report along with the actual % recovery for the spiked sample. The difference of the recoveries of the duplicate samples are calculated as replicate % difference which is used to measure the precision of the analytical method. Both % recovery limits and replicate % difference limits used in this analysis are set forth by the United States Environmental Protection Agency as the criteria of laboratory quality control for this type of analysis.

The QC results have been reviewed by the analysts and the Laboratory Manager. Explanations for QC results that did not fall within the QC criteria are provided in the summary.

We appreciate the opportunity to be of technical service to you. If there are any questions with regard to this report, please feel free to call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

John F. Gemoules

John F. Gemoules
Laboratory Project Manager

JFG/pl/REPORT/WWC2.RP1

Enclosures

11665 Lilburn Park Road St. Louis, MO 63146-3535 Phone (314) 567-4600 Fax (314) 567-5030

MOISTURE

Pages 1 - 22

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry R

1065 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314/567-4010
Fax 314/567-3030

STATUS: FINAL PAGE# 1

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SWS0911100A00L	WWC2*1	11/20/91	11/20/91	20.6		12/05/91	WHP
SWS0911100B00L	WWC2*2	11/20/91	11/20/91	20.6		12/05/91	WHP
SWS0911100C00L	WWC2*3	11/20/91	11/20/91	21.4		12/05/91	WHP
SWS0911200A00L	WWC2*4	11/20/91	11/20/91	23.1		12/05/91	WHP
SWS0911200B00L	WWC2*5	11/20/91	11/20/91	21.3		12/05/91	WHP
SWS0911200C00L	WWC2*6	11/20/91	11/20/91	23.1		12/05/91	WHP
SWS0917100A00L	WWC2*7	11/20/91	11/20/91	24.5		12/05/91	WHP
SWS0917100B00L	WWC2*8	11/20/91	11/20/91	19.3		12/05/91	WHP
SWS0917100C00L	WWC2*9	11/20/91	11/20/91	21.6		12/05/91	WHP
SWS0917200A00L	WWC2*10	11/20/91	11/20/91	23.4		12/05/91	WHP
SWS0917200B00L	WWC2*11	11/20/91	11/20/91	22.2		12/05/91	WHP
SWS0917200C00L	WWC2*12	11/20/91	11/20/91	21.6		12/05/91	WHP
SWS0919100A00L	WWC2*13	11/20/91	11/20/91	24.4		12/05/91	WHP
SWS0919100B00L	WWC2*14	11/20/91	11/20/91	22.7		12/05/91	WHP
SWS0919100C00L	WWC2*15	11/20/91	11/20/91	21.5		12/05/91	WHP
SWS0919200A00L	WWC2*16	11/20/91	11/20/91	19.9		12/05/91	WHP
SWS0919200B00L	WWC2*17	11/20/91	11/20/91	24.7		12/05/91	WHP
SWS0919200C00L	WWC2*18	11/20/91	11/20/91	30.2		12/05/91	WHP
SWS0921100A00L	WWC2*19	11/20/91	11/20/91	23.9		12/05/91	WHP
SWS0921100B00L	WWC2*20	11/20/91	11/20/91	22.0		12/05/91	WHP
SWS0921100C00L	WWC2*21	11/20/91	11/20/91	20.3		12/05/91	WHP
SWS0921200A00L	WWC2*22	11/20/91	11/20/91	29.1		12/05/91	WHP
SWS0921200B00L	WWC2*23	11/20/91	11/20/91	30.2		12/05/91	WHP
SWS0921200C00L	WWC2*24	11/20/91	11/20/91	27.6		12/05/91	WHP
SWS0813100A00L	WWC2*25	11/20/91	11/20/91	21.1		12/05/91	WHP
SWS0813100B00L	WWC2*26	11/20/91	11/20/91	18.6		12/05/91	WHP
SWS0813100C00L	WWC2*27	11/20/91	11/20/91	18.5		12/05/91	WHP
SWS0813200A00L	WWC2*28	11/20/91	11/20/91	18.3		12/05/91	WHP
SWS0813200B00L	WWC2*29	11/20/91	11/20/91	16.7		12/05/91	WHP
SWS0813200C00L	WWC2*30	11/20/91	11/20/91	14.6		12/05/91	WHP
SWS1001100A00L	WWC2*31	11/20/91	11/20/91	22.4		12/05/91	WHP
SWS1001100B00L	WWC2*32	11/20/91	11/20/91	21.1		12/05/91	WHP
SWS1001100C00L	WWC2*33	11/20/91	11/20/91	24.6		12/05/91	WHP
SWS1001200A00L	WWC2*34	11/20/91	11/20/91	22.3		12/05/91	WHP
SWS1001200B00L	WWC2*35	11/20/91	11/20/91	19.3		12/05/91	WHP
SWS1001200C00L	WWC2*36	11/20/91	11/20/91	22.2		12/05/91	WHP
SKE1609100A00L	WWC2*37	11/20/91	11/20/91	23.6		12/05/91	WHP
SKE1609100B00L	WWC2*38	11/20/91	11/20/91	20.9		12/05/91	WHP
SKE1609100C00L	WWC2*39	11/20/91	11/20/91	17.6		12/05/91	WHP
SKE1609200A00L	WWC2*40	11/20/91	11/20/91	26.1		12/05/91	WHP
SKE1609200B00L	WWC2*41	11/20/91	11/20/91	23.6		12/05/91	WHP
SKE1609200C00L	WWC2*42	11/20/91	11/20/91	17.7		12/05/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SKE1722100A00L	WWC2*43	11/20/91	11/20/91	22.1		12/05/91	WHP
SKE1722100B00L	WWC2*44	11/20/91	11/20/91	20.1		12/05/91	WHP
SKE1722100C00L	WWC2*45	11/20/91	11/20/91	20.1		12/05/91	WHP
SKE1722200A00L	WWC2*46	11/20/91	11/20/91	21.4		12/05/91	WHP
SKE1722200B00L	WWC2*47	11/20/91	11/20/91	21.6		12/05/91	WHP
SKE1722200C00L	WWC2*48	11/20/91	11/20/91	19.4		12/05/91	WHP
SKE1720100A00L	WWC2*49	11/20/91	11/20/91	22.3		12/05/91	WHP
SKE1720100B00L	WWC2*50	11/20/91	11/20/91	20.1		12/05/91	WHP
SKE1720100C00L	WWC2*51	11/20/91	11/20/91	19.6		12/05/91	WHP
SKE1720200A00L	WWC2*52	11/20/91	11/20/91	22.9		12/05/91	WHP
SKE1720200B00L	WWC2*53	11/20/91	11/20/91	20.6		12/05/91	WHP
SKE1720200C00L	WWC2*54	11/20/91	11/20/91	18.0		12/05/91	WHP
SKE1711100A00L	WWC2*55	11/20/91	11/20/91	22.3		12/05/91	WHP
SKE1711100B00L	WWC2*56	11/20/91	11/20/91	20.3		12/05/91	WHP
SKE1711100C00L	WWC2*57	11/20/91	11/20/91	18.9		12/05/91	WH'
SKE1711200A00L	WWC2*58	11/20/91	11/20/91	21.5		12/05/91	WH.
SKE1711200B00L	WWC2*59	11/20/91	11/20/91	20.1		12/05/91	WHP
SKE1711200C00L	WWC2*60	11/20/91	11/20/91	18.2		12/05/91	WHP
SKE1612100A00L	WWC2*61	11/20/91	11/20/91	21.6		12/05/91	WHP
SKE1612100B00L	WWC2*62	11/20/91	11/20/91	22.4		12/05/91	WHP
SKE1612100C00L	WWC2*63	11/20/91	11/20/91	19.8		12/05/91	WHP
SKE1612200A00L	WWC2*64	11/20/91	11/20/91	20.3		12/05/91	WHP
SKE1612200B00L	WWC2*65	11/20/91	11/20/91	19.5		12/05/91	WHP
SKE1612200C00L	WWC2*66	11/20/91	11/20/91	19.4		12/05/91	WHP
SKE1616100A00L	WWC2*67	11/20/91	11/20/91	26.0		12/05/91	WHP
SKE1616100B00L	WWC2*68	11/20/91	11/20/91	22.6		12/05/91	WHP
SKE1616100C00L	WWC2*69	11/20/91	11/20/91	22.9		12/05/91	WHP
SKE1616200A00L	WWC2*70	11/20/91	11/20/91	25.9		12/05/91	WHP
SKE1616200B00L	WWC2*71	11/20/91	11/20/91	21.4		12/05/91	WHP
SKE1616200C00L	WWC2*72	11/20/91	11/20/91	23.0		12/05/91	WHP
STR000110AC00L	WWC2*73	11/20/91	11/20/91	9.7		12/05/91	WHP
STR0001100D00L	WWC2*74	11/20/91	11/20/91	6.7		12/05/91	WHP
STR0001100K00L	WWC2*75	11/20/91	11/20/91	25.2		12/05/91	WHP
STR0001100L00L	WWC2*76	11/20/91	11/20/91	24.9		12/05/91	WHP
STR0001100M00L	WWC2*77	11/20/91	11/20/91	25.2		12/05/91	WHP
STR0001100N00L	WWC2*78	11/20/91	11/20/91	26.0		12/05/91	WHP
STR0001100T00L	WWC2*79	11/20/91	11/20/91	11.3		12/05/91	WHP
STR0001100T0LD	WWC2*80	11/20/91	11/20/91	11.5		12/05/91	WHP
STR000310AC00L	WWC2*81	11/20/91	11/20/91	21.6		12/05/91	WHP
STR0003100D00L	WWC2*82	11/20/91	11/20/91	15.6		12/05/91	WHP
STR0003100K00L	WWC2*83	11/20/91	11/20/91	26.6		12/05/91	WHP
STR0003100L00L	WWC2*84	11/20/91	11/20/91	28.7		12/05/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

[illegible] Laburn Park Road
St. Louis, Missouri 63146-3535

Phone [illegible]
Fax [illegible]

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
STR0003100M00L	WWC2*85	11/20/91	11/20/91	30.3		12/05/91	WHP
STR0003100N00L	WWC2*86	11/20/91	11/20/91	13.7		12/05/91	WHP
STR0003100T00L	WWC2*87	11/20/91	11/20/91	16.3		12/05/91	WHP
STR0003100T0LM	WWC2*88	11/20/91	11/20/91	14.3		12/05/91	WHP
STR0003100T0LX	WWC2*89	11/20/91	11/20/91	14.6		12/05/91	WHP
STR000410AC00L	WWC2*90	11/20/91	11/20/91	17.3		12/05/91	WHP
STR0004100D00L	WWC2*91	11/20/91	11/20/91	27.6		12/05/91	WHP
STR0004100K00L	WWC2*92	11/20/91	11/20/91	27.4		12/05/91	WHP
STR0004100L00L	WWC2*93	11/20/91	11/20/91	28.6		12/05/91	WHP
STR0004100M00L	WWC2*94	11/20/91	11/20/91	29.6		12/05/91	WHP
STR0004100M0LD	WWC2*95	11/20/91	11/20/91	22.5		12/05/91	WHP
STR0004100N00L	WWC2*96	11/20/91	11/20/91	10.2		12/05/91	WHP
STR0004100T00L	WWC2*97	11/20/91	11/20/91	21.4		12/05/91	WHP
SRO000110AC00L	WWC2*98	11/20/91	11/20/91	13.5		12/05/91	WHP
SRO00001100D00L	WWC2*99	11/20/91	11/20/91	18.3		12/05/91	WHP
SRO00001100K00L	WWC2*100	11/20/91	11/20/91	30.4		12/05/91	WHP
SRO00001100K0LD	WWC2*101	11/20/91	11/20/91	29.6		12/06/91	WHP
SRO00001100L00L	WWC2*102	11/20/91	11/20/91	28.0		12/06/91	WHP
SRO00001100M00L	WWC2*103	11/20/91	11/20/91	25.6		12/06/91	WHP
SRO00001100N00L	WWC2*104	11/20/91	11/20/91	25.4		12/06/91	WHP
SRO00001100T00L	WWC2*105	11/20/91	11/20/91	18.1		12/06/91	WHP
SGW1014100A00L	WWC2*106	11/21/91	11/21/91	24.9		12/06/91	WHP
SGW1014100B00L	WWC2*107	11/21/91	11/21/91	20.8		12/06/91	WHP
SGW1014100C00L	WWC2*108	11/21/91	11/21/91	18.7		12/06/91	WHP
SGW1014200A00L	WWC2*109	11/21/91	11/21/91	25.2		12/06/91	WHP
SGW1014200B00L	WWC2*110	11/21/91	11/21/91	25.0		12/06/91	WHP
SGW1014200C00L	WWC2*111	11/21/91	11/21/91	23.6		12/06/91	WHP
SGW1018100A00L	WWC2*112	11/21/91	11/21/91	27.0		12/06/91	WHP
SGW1018100B00L	WWC2*113	11/21/91	11/21/91	22.3		12/06/91	WHP
SGW1018100C00L	WWC2*114	11/21/91	11/21/91	24.2		12/06/91	WHP
SGW1018200A00L	WWC2*115	11/21/91	11/21/91	25.1		12/06/91	WHP
SGW1018200B00L	WWC2*116	11/21/91	11/21/91	22.5		12/06/91	WHP
SGW1018200C00L	WWC2*117	11/21/91	11/21/91	22.7		12/06/91	WHP
SGW1036100A00L	WWC2*118	11/21/91	11/21/91	24.3		12/06/91	WHP
SGW1036100B00L	WWC2*119	11/21/91	11/21/91	20.4		12/06/91	WHP
SGW1036100C00L	WWC2*120	11/21/91	11/21/91	18.8		12/06/91	WHP
SGW1036200A00L	WWC2*121	11/21/91	11/21/91	26.5		12/06/91	WHP
SGW1036200B00L	WWC2*122	11/21/91	11/21/91	22.7		12/06/91	WHP
SGW1036200C00L	WWC2*123	11/21/91	11/21/91	21.3		12/06/91	WHP
SGW1024100A00L	WWC2*124	11/21/91	11/21/91	23.2		12/06/91	WHP
SGW1024100B00L	WWC2*125	11/21/91	11/21/91	22.7		12/06/91	WHP
SGW1024100C00L	WWC2*126	11/21/91	11/21/91	20.4		12/06/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1365 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone: 314/567-4900
Fax: 314/567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGW1024200A00L	WWC2*127	11/21/91	11/21/91	27.4		12/06/91	WHP
SGW1024200B00L	WWC2*128	11/21/91	11/21/91	23.7		12/06/91	WHP
SGW1024200C00L	WWC2*129	11/21/91	11/21/91	22.1		12/06/91	WHP
SGW0940100A00L	WWC2*130	11/21/91	11/21/91	21.5		12/06/91	WHP
SGW0940100B00L	WWC2*131	11/21/91	11/21/91	21.4		12/06/91	WHP
SGW0940100C00L	WWC2*132	11/21/91	11/21/91	20.1		12/06/91	WHP
SGW0940200A00L	WWC2*133	11/21/91	11/21/91	23.0		12/06/91	WHP
SGW0940200B00L	WWC2*134	11/21/91	11/21/91	22.2		12/06/91	WHP
SGW0940200C00L	WWC2*135	11/21/91	11/21/91	21.5		12/06/91	WHP
SGW1009100A00L	WWC2*136	11/21/91	11/21/91	24.6		12/06/91	WHP
SGW1009100B00L	WWC2*137	11/21/91	11/21/91	21.3		12/06/91	WHP
SGW1009100C00L	WWC2*138	11/21/91	11/21/91	20.8		12/06/91	WHP
SGW1009200A00L	WWC2*139	11/21/91	11/21/91	25.9		12/06/91	WHP
SGW1009200B00L	WWC2*140	11/21/91	11/21/91	25.4		12/06/91	WHP
SGW1009200C00L	WWC2*141	11/21/91	11/21/91	22.3		12/06/91	WHP
SGW1006100A00L	WWC2*142	11/21/91	11/21/91	21.8		12/06/91	WHP
SGW1006100B00L	WWC2*143	11/21/91	11/21/91	22.3		12/06/91	WHP
SGW1006100C00L	WWC2*144	11/21/91	11/21/91	20.5		12/06/91	WHP
SGW1006200A00L	WWC2*145	11/21/91	11/21/91	19.7		12/06/91	WHP
SGW1006200B00L	WWC2*146	11/21/91	11/21/91	17.3		12/06/91	WHP
SGW1006200C00L	WWC2*147	11/21/91	11/21/91	18.5		12/06/91	WHP
SGR1312100A00L	WWC2*148	11/21/91	11/21/91	23.3		12/06/91	WHP
SGR1312100B00L	WWC2*149	11/21/91	11/21/91	21.5		12/06/91	WHP
SGR1312100C00L	WWC2*150	11/21/91	11/21/91	20.6		12/06/91	WHP
SGR1312200A00L	WWC2*151	11/21/91	11/21/91	22.5		12/06/91	WHP
SGR1312200B00L	WWC2*152	11/21/91	11/21/91	20.0		12/06/91	WHP
SGR1312200C00L	WWC2*153	11/21/91	11/21/91	21.1		12/06/91	WHP
SGR1318100A00L	WWC2*154	11/21/91	11/21/91	21.6		12/06/91	WHP
SGR1318100B00L	WWC2*155	11/21/91	11/21/91	20.0		12/06/91	WHP
SGR1318100C00L	WWC2*156	11/21/91	11/21/91	17.7		12/06/91	WHP
SGR1318200A00L	WWC2*157	11/21/91	11/21/91	22.8		12/06/91	WHP
SGR1318200B00L	WWC2*158	11/21/91	11/21/91	16.8		12/06/91	WHP
SGR1318200C00L	WWC2*159	11/21/91	11/21/91	19.9		12/06/91	WHP
SGR1325100A00L	WWC2*160	11/21/91	11/21/91	27.7		12/06/91	WHP
SGR1325100B00L	WWC2*161	11/21/91	11/21/91	26.8		12/07/91	WHP
SGR1325100C00L	WWC2*162	11/21/91	11/21/91	29.3		12/07/91	WHP
SGR1325200A00L	WWC2*163	11/21/91	11/21/91	21.2		12/07/91	WHP
SGR1325200B00L	WWC2*164	11/21/91	11/21/91	23.2		12/07/91	WHP
SGR1325200C00L	WWC2*165	11/21/91	11/21/91	23.5		12/07/91	WHP
SGR1323100A00L	WWC2*166	11/21/91	11/21/91	22.4		12/07/91	WHP
SGR1323100B00L	WWC2*167	11/21/91	11/21/91	20.0		12/07/91	WHP
SGR1323100C00L	WWC2*168	11/21/91	11/21/91	19.1		12/07/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

Phone 314-[illegible]
Fax 314-[illegible]

STATUS: FINAL PAGE# 5

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR1323200A00L	WWC2*169	11/21/91	11/21/91	26.8		12/07/91	WHP
SGR1323200B00L	WWC2*170	11/21/91	11/21/91	23.3		12/07/91	WHP
SGR1323200C00L	WWC2*171	11/21/91	11/21/91	21.9		12/07/91	WHP
SGR1309100A00L	WWC2*172	11/21/91	11/21/91	20.9		12/07/91	WHP
SGR1309100B00L	WWC2*173	11/21/91	11/21/91	20.7		12/07/91	WHP
SGR1309100C00L	WWC2*174	11/21/91	11/21/91	20.3		12/07/91	WHP
SGR1309200A00L	WWC2*175	11/21/91	11/21/91	23.4		12/07/91	WHP
SGR1309200B00L	WWC2*176	11/21/91	11/21/91	21.7		12/07/91	WHP
SGR1309200C00L	WWC2*177	11/21/91	11/21/91	19.7		12/07/91	WHP
SGR1105100A00L	WWC2*178	11/21/91	11/21/91	21.2		12/07/91	WHP
SGR1105100B00L	WWC2*179	11/21/91	11/21/91	20.2		12/07/91	WHP
SGR1105100C00L	WWC2*180	11/21/91	11/21/91	22.8		12/07/91	WHP
SGR1105200A00L	WWC2*181	11/21/91	11/21/91	28.7		12/07/91	WHP
SGR1105200B00L	WWC2*182	11/21/91	11/21/91	24.0		12/07/91	WHP
SGR1105200C00L	WWC2*183	11/21/91	11/21/91	25.4		12/07/91	WHP
SGR1009100A00L	WWC2*184	11/21/91	11/21/91	20.0		12/07/91	WHP
SGR1009100B00L	WWC2*185	11/21/91	11/21/91	18.4		12/07/91	WHP
SGR1009100C00L	WWC2*186	11/21/91	11/21/91	19.9		12/07/91	WHP
SGR1009200A00L	WWC2*187	11/21/91	11/21/91	23.0		12/07/91	WHP
SGR1009200B00L	WWC2*188	11/21/91	11/21/91	22.1		12/07/91	WHP
SGR1009200C00L	WWC2*189	11/21/91	11/21/91	23.0		12/07/91	WHP
SGR1020100A00L	WWC2*190	11/21/91	11/21/91	25.1		12/07/91	WHP
SGR1020100B00L	WWC2*191	11/21/91	11/21/91	22.5		12/07/91	WHP
SGR1020100C00L	WWC2*192	11/21/91	11/21/91	24.2		12/07/91	WHP
SGR1020200A00L	WWC2*193	11/21/91	11/21/91	38.3		12/07/91	WHP
SGR1020200B00L	WWC2*194	11/21/91	11/21/91	29.4		12/07/91	WHP
SGR1020200C00L	WWC2*195	11/21/91	11/21/91	33.9		12/07/91	WHP
SRO000210AC00L	WWC2*196	11/21/91	11/21/91	20.3		12/07/91	WHP
SRO0002100D00L	WWC2*197	11/21/91	11/21/91	19.9		12/07/91	WHP
SRO0002100K00L	WWC2*198	11/21/91	11/21/91	31.7		12/07/91	WHP
SRO0002100L00L	WWC2*199	11/21/91	11/21/91	28.5		12/07/91	WHP
SRO0002100M00L	WWC2*200	11/21/91	11/21/91	28.0		12/07/91	WHP
SRO0002100N00L	WWC2*201	11/21/91	11/21/91	25.2		12/07/91	WHP
SRO0002100N0LM	WWC2*202	11/21/91	11/21/91	23.9		12/07/91	WHP
SRO0002100N0LX	WWC2*203	11/21/91	11/21/91	22.7		12/07/91	WHP
SRO0002100T00L	WWC2*204	11/21/91	11/21/91	16.0		12/07/91	WHP
SBV000110AC00L	WWC2*205	11/21/91	11/21/91	13.0		12/07/91	WHP
SBV0001100D00L	WWC2*206	11/21/91	11/21/91	15.6		12/07/91	WHP
SBV0001100K00L	WWC2*207	11/21/91	11/21/91	22.6		12/07/91	WHP
SBV0001100L00L	WWC2*208	11/21/91	11/21/91	27.1		12/07/91	WHP
SBV0001100L00L	WWC2*209	11/21/91	11/21/91	26.2		12/07/91	WHP
SBV0001100M00L	WWC2*210	11/21/91	11/21/91	28.8		12/07/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1003 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone [illegible]
Fax [illegible]

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBV0001100N00L	WWC2*211	11/21/91	11/21/91	21.8		12/07/91	WHP
SBV0001100T00L	WWC2*212	11/21/91	11/21/91	11.1		12/07/91	WHP
SBV0001100T0LM	WWC2*213	11/21/91	11/21/91	10.7		12/07/91	WHP
SBV0001100T0LX	WWC2*214	11/21/91	11/21/91	10.7		12/07/91	WHP
SBV000210AC00L	WWC2*215	11/21/91	11/21/91	11.1		12/07/91	WHP
SBV0002100D00L	WWC2*216	11/21/91	11/21/91	18.1		12/07/91	WHP
SBV0002100K00L	WWC2*217	11/21/91	11/21/91	10.5		12/07/91	WHP
SBV0002100L00L	WWC2*218	11/21/91	11/21/91	8.6		12/07/91	WHP
SBV0002100M00L	WWC2*219	11/21/91	11/21/91	9.4		12/07/91	WHP
SBV0002100N00L	WWC2*220	11/21/91	11/21/91	18.9		12/07/91	WHP
SBV0002100T00L	WWC2*221	11/21/91	11/21/91	7.6		12/12/91	WHP
SST1102100A00L	WWC2*222	11/22/91	11/22/91	20.9		12/12/91	WHP
SST1102100B00L	WWC2*223	11/22/91	11/22/91	19.9		12/12/91	WHP
SST1102100C00L	WWC2*224	11/22/91	11/22/91	18.4		12/12/91	WHP
SST1102100A0LD	WWC2*225	11/22/91	11/22/91	21.8		12/12/91	WHP
SST1102100B0LD	WWC2*226	11/22/91	11/22/91	19.8		12/12/91	WHP
SST1102100C0LD	WWC2*227	11/22/91	11/22/91	19.0		12/12/91	WHP
SST1102200A00L	WWC2*228	11/22/91	11/22/91	22.9		12/12/91	WHP
SST1102200B00L	WWC2*229	11/22/91	11/22/91	22.8		12/12/91	WHP
SST1102200C00L	WWC2*230	11/22/91	11/22/91	25.8		12/12/91	WHP
SST0816100A00L	WWC2*231	11/22/91	11/22/91	20.1		12/12/91	WHP
SST0816100B00L	WWC2*232	11/22/91	11/22/91	17.1		12/12/91	WHP
SST0816100C00L	WWC2*233	11/22/91	11/22/91	18.0		12/12/91	WHP
SST0816100A0LD	WWC2*234	11/22/91	11/22/91	21.5		12/12/91	WHP
SST0816100B0LD	WWC2*235	11/22/91	11/22/91	18.0		12/12/91	WHP
SST0816100C0LD	WWC2*236	11/22/91	11/22/91	17.9		12/12/91	WHP
SST0816200A00L	WWC2*237	11/22/91	11/22/91	25.1		12/12/91	WHP
SST0816200B00L	WWC2*238	11/22/91	11/22/91	21.7		12/12/91	WHP
SST0816200C00L	WWC2*239	11/22/91	11/22/91	15.4		12/12/91	WHP
SST0818100A00L	WWC2*240	11/22/91	11/22/91	27.9		12/12/91	WHP
SST0818100B00L	WWC2*241	11/22/91	11/22/91	23.9		12/12/91	WHP
SST0818100C00L	WWC2*242	11/22/91	11/22/91	21.8		12/12/91	WHP
SST0818200A00L	WWC2*243	11/22/91	11/22/91	20.8		12/12/91	WHP
SST0818200B00L	WWC2*244	11/22/91	11/22/91	18.5		12/12/91	WHP
SST0818200C00L	WWC2*245	11/22/91	11/22/91	18.2		12/12/91	WHP
SBV000310AC00L	WWC2*246	11/22/91	11/22/91	13.2		12/12/91	WHP
SBV0003100D00L	WWC2*247	11/22/91	11/22/91	15.4		12/12/91	WHP
SBV0003100K00L	WWC2*248	11/22/91	11/22/91	22.0		12/12/91	WHP
SBV0003100L00L	WWC2*249	11/22/91	11/22/91	28.3		12/12/91	WHP
SBV0003100M00L	WWC2*250	11/22/91	11/22/91	24.0		12/12/91	WHP
SBV0003100N00L	WWC2*251	11/22/91	11/22/91	29.6		12/12/91	WHP
SBV0003100T00L	WWC2*252	11/22/91	11/22/91	6.9		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Re

1055 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone [illegible]
Fax [illegible]

STATUS: FINAL PAGE# [illegible]

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SRE1016100A00L	WWC2*253	11/22/91	11/22/91	25.3		12/12/91	WHP
SRE1016100A0LD	WWC2*254	11/22/91	11/22/91	24.8		12/12/91	WHP
SRE1016100B00L	WWC2*255	11/22/91	11/22/91	20.8		12/12/91	WHP
SRE1016100B0LD	WWC2*256	11/22/91	11/22/91	21.5		12/12/91	WHP
SRE1016100C00L	WWC2*257	11/22/91	11/22/91	21.3		12/12/91	WHP
SRE1016100C0LD	WWC2*258	11/22/91	11/22/91	20.9		12/12/91	WHP
SRE1016200A00L	WWC2*259	11/22/91	11/22/91	25.5		12/12/91	WHP
SRE1016200B00L	WWC2*260	11/22/91	11/22/91	22.3		12/12/91	WHP
SRE1016200C00L	WWC2*261	11/22/91	11/22/91	20.8		12/12/91	WHP
SRE1032100A00L	WWC2*262	11/22/91	11/22/91	23.0		12/12/91	WHP
SRE1032100B00L	WWC2*263	11/22/91	11/22/91	22.0		12/12/91	WHP
SRE1032100C00L	WWC2*264	11/22/91	11/22/91	20.8		12/12/91	WHP
SRE1032200A00L	WWC2*265	11/22/91	11/22/91	23.7		12/12/91	WHP
SRE1032200B00L	WWC2*266	11/22/91	11/22/91	21.4		12/12/91	WHP
SRE1032200C00L	WWC2*267	11/22/91	11/22/91	19.8		12/12/91	WHP
SRE1030100A00L	WWC2*268	11/22/91	11/22/91	21.0		12/12/91	WHP
SRE1030100B00L	WWC2*269	11/22/91	11/22/91	20.9		12/12/91	WHP
SRE1030100C00L	WWC2*270	11/22/91	11/22/91	19.9		12/12/91	WHP
SRE1030200A00L	WWC2*271	11/22/91	11/22/91	25.9		12/12/91	WHP
SRE1030200B00L	WWC2*272	11/22/91	11/22/91	20.9		12/12/91	WHP
SRE1030200C00L	WWC2*273	11/22/91	11/22/91	16.3		12/12/91	WHP
SRE1026100A00L	WWC2*274	11/22/91	11/22/91	22.8		12/12/91	WHP
SRE1026100B00L	WWC2*275	11/22/91	11/22/91	21.3		12/12/91	WHP
SRE1026100C00L	WWC2*276	11/22/91	11/22/91	20.5		12/12/91	WHP
SRE1026200A00L	WWC2*277	11/22/91	11/22/91	22.8		12/12/91	WHP
SRE1026200B00L	WWC2*278	11/22/91	11/22/91	19.2		12/12/91	WHP
SRE1026200C00L	WWC2*279	11/22/91	11/22/91	21.1		12/12/91	WHP
SAD2156100A00L	WWC2*280	11/22/91	11/22/91	18.6		12/12/91	WHP
SAD2156100B00L	WWC2*281	11/22/91	11/22/91	19.3		12/12/91	WHP
SAD2156100C00L	WWC2*282	11/22/91	11/22/91	18.9		12/12/91	WHP
SAD2156200A00L	WWC2*283	11/22/91	11/22/91	18.4		12/12/91	WHP
SAD2156200B00L	WWC2*284	11/22/91	11/22/91	18.6		12/12/91	WHP
SAD2156200C00L	WWC2*285	11/22/91	11/22/91	19.0		12/12/91	WHP
SAD2160100A00L	WWC2*286	11/22/91	11/22/91	19.0		12/12/91	WHP
SAD2160100B00L	WWC2*287	11/22/91	11/22/91	17.2		12/12/91	WHP
SAD2160100C00L	WWC2*288	11/22/91	11/22/91	17.2		12/12/91	WHP
SAD2160200A00L	WWC2*289	11/22/91	11/22/91	26.4		12/12/91	WHP
SAD2160200B00L	WWC2*290	11/22/91	11/22/91	17.0		12/12/91	WHP
SAD2160200C00L	WWC2*291	11/22/91	11/22/91	15.1		12/12/91	WHP
SBE2151100A00L	WWC2*292	11/22/91	11/22/91	16.2		12/12/91	WHP
SBE2151100B00L	WWC2*293	11/22/91	11/22/91	14.6		12/12/91	WHP
SBE2151100C00L	WWC2*294	11/22/91	11/22/91	11.5		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314/567-4000
Fax 314/567-5031

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2151200A00L	WWC2*295	11/22/91	11/22/91	22.2		12/12/91	WHP
SBE2151200B00L	WWC2*296	11/22/91	11/22/91	17.9		12/12/91	WHP
SBE2151200C00L	WWC2*297	11/22/91	11/22/91	19.0		12/12/91	WHP
SBE2163100A00L	WWC2*298	11/22/91	11/22/91	15.7		12/12/91	WHP
SBE2163100B00L	WWC2*299	11/22/91	11/22/91	11.7		12/12/91	WHP
SBE2163100C00L	WWC2*300	11/22/91	11/22/91	8.9		12/12/91	WHP
SBE2163200A00L	WWC2*301	11/22/91	11/22/91	21.8		12/12/91	WHP
SBE2163200B00L	WWC2*302	11/22/91	11/22/91	19.3		12/12/91	WHP
SBE2163200C00L	WWC2*303	11/22/91	11/22/91	19.4		12/12/91	WHP
SCL2201100A00L	WWC2*304	11/22/91	11/22/91	22.6		12/12/91	WHP
SCL2201100B00L	WWC2*305	11/22/91	11/22/91	19.8		12/12/91	WHP
SCL2201100C00L	WWC2*306	11/22/91	11/22/91	16.6		12/12/91	WHP
SCL2201200A00L	WWC2*307	11/22/91	11/22/91	19.6		12/12/91	WHP
SCL2201200B00L	WWC2*308	11/22/91	11/22/91	16.2		12/12/91	WHP
SCL2201200C00L	WWC2*309	11/22/91	11/22/91	15.0		12/12/91	WHP
SEL1711100A00L	WWC2*310	11/25/91	11/25/91	22.5		12/12/91	WHP
SEL1711100B00L	WWC2*311	11/25/91	11/25/91	19.9		12/12/91	WHP
SEL1711100C00L	WWC2*312	11/25/91	11/25/91	20.1		12/12/91	WHP
SEL1711200A00L	WWC2*313	11/25/91	11/25/91	21.1		12/12/91	WHP
SEL1711200B00L	WWC2*314	11/25/91	11/25/91	20.2		12/12/91	WHP
SEL1711200C00L	WWC2*315	11/25/91	11/25/91	21.9		12/12/91	WHP
SEL1709100A00L	WWC2*316	11/25/91	11/25/91	25.1		12/12/91	WHP
SEL1709100B00L	WWC2*317	11/25/91	11/25/91	22.2		12/12/91	WHP
SEL1709100C00L	WWC2*318	11/25/91	11/25/91	22.1		12/12/91	WHP
SEL1709200A00L	WWC2*319	11/25/91	11/25/91	24.6		12/12/91	WHP
SEL1709200B00L	WWC2*320	11/25/91	11/25/91	20.6		12/12/91	WHP
SEL1709200C00L	WWC2*321	11/25/91	11/25/91	24.9		12/12/91	WHP
SRE1000100A00L	WWC2*322	11/25/91	11/25/91	22.3		12/12/91	WHP
SRE1000100B00L	WWC2*323	11/25/91	11/25/91	27.7		12/12/91	WHP
SRE1000100C00L	WWC2*324	11/25/91	11/25/91	18.1		12/12/91	WHP
SRE1000200A00L	WWC2*325	11/25/91	11/25/91	20.7		12/12/91	WHP
SRE1000200B00L	WWC2*326	11/25/91	11/25/91	21.3		12/12/91	WHP
SRE1000200C00L	WWC2*327	11/25/91	11/25/91	19.8		12/12/91	WHP
SRE1136100A00L	WWC2*328	11/25/91	11/25/91	17.8		12/12/91	WHP
SRE1136100B00L	WWC2*329	11/25/91	11/25/91	17.3		12/12/91	WHP
SRE1136100C00L	WWC2*330	11/25/91	11/25/91	19.8		12/12/91	WHP
SRE1136200B00L	WWC2*331	11/25/91	11/25/91	23.0		12/12/91	WHP
SRE1136200B00L	WWC2*332	11/25/91	11/25/91	20.2		12/12/91	WHP
SRE1136200C00L	WWC2*333	11/25/91	11/25/91	21.9		12/12/91	WHP
SEL1703100A00L	WWC2*334	11/25/91	11/25/91	26.8		12/12/91	WHP
SEL1703100B00L	WWC2*335	11/25/91	11/25/91	22.9		12/12/91	WHP
SEL1703100C00L	WWC2*336	11/25/91	11/25/91	17.3		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SEL1703200A00L	WWC2*337	11/25/91	11/25/91	24.9		12/12/91	WHP
SEL1703200B00L	WWC2*338	11/25/91	11/25/91	23.1		12/12/91	WHP
SEL1703200C00L	WWC2*339	11/25/91	11/25/91	27.8		12/12/91	WHP
SEL1707100A00L	WWC2*340	11/25/91	11/25/91	27.8		12/12/91	WHP
SEL1707100B00L	WWC2*341	11/25/91	11/25/91	22.0		12/12/91	WHP
SEL1707100C00L	WWC2*342	11/25/91	11/25/91	21.5		12/12/91	WHP
SEL1707200A00L	WWC2*343	11/25/91	11/25/91	22.8		12/12/91	WHP
SEL1707200B00L	WWC2*344	11/25/91	11/25/91	21.5		12/12/91	WHP
SEL1707200C00L	WWC2*345	11/25/91	11/25/91	22.9		12/12/91	WHP
SIO0825200C00L	WWC2*346	11/25/91	11/25/91	17.3		12/12/91	WHP
SIO0909100A00L	WWC2*347	11/25/91	11/25/91	17.9		12/12/91	WHP
SIO0909100B00L	WWC2*348	11/25/91	11/25/91	17.7		12/12/91	WHP
SIO0909100C00L	WWC2*349	11/25/91	11/25/91	18.5		12/12/91	WHP
SIO0909200A00L	WWC2*350	11/25/91	11/25/91	17.8		12/12/91	WHP
SIO0909200B00L	WWC2*351	11/25/91	11/25/91	17.9		12/12/91	WHP
SIO0909200C00L	WWC2*352	11/25/91	11/25/91	19.7		12/12/91	WHP
SIO0912100A00L	WWC2*353	11/25/91	11/25/91	20.2		12/12/91	WHP
SIO0912100B00L	WWC2*354	11/25/91	11/25/91	18.6		12/12/91	WHP
SIO0912100C00L	WWC2*355	11/25/91	11/25/91	18.4		12/12/91	WHP
SIO0912200A00L	WWC2*356	11/25/91	11/25/91	22.5		12/12/91	WHP
SIO0912200B00L	WWC2*357	11/25/91	11/25/91	22.8		12/12/91	WHP
SIO0912200C00L	WWC2*358	11/25/91	11/25/91	21.4		12/12/91	WHP
SIO0820100A00L	WWC2*359	11/25/91	11/25/91	18.5		12/12/91	WHP
SIO0820100B00L	WWC2*360	11/25/91	11/25/91	18.7		12/12/91	WHP
SIO0820100C00L	WWC2*361	11/25/91	11/25/91	18.3		12/12/91	WHP
SIO0820200A00L	WWC2*362	11/25/91	11/25/91	17.3		12/12/91	WHP
SIO0820200B00L	WWC2*363	11/25/91	11/25/91	15.5		12/12/91	WHP
SIO0820200C00L	WWC2*364	11/25/91	11/25/91	12.4		12/12/91	WHP
SIO0816100A00L	WWC2*365	11/25/91	11/25/91	21.6		12/12/91	WHP
SIO0816100B00L	WWC2*366	11/25/91	11/25/91	19.8		12/12/91	WHP
SIO0816100C00L	WWC2*367	11/25/91	11/25/91	19.1		12/12/91	WHP
SIO0816200A00L	WWC2*368	11/25/91	11/25/91	20.4		12/12/91	WHP
SIO0816200B00L	WWC2*369	11/25/91	11/25/91	18.0		12/12/91	WHP
SIO0816200C00L	WWC2*370	11/25/91	11/25/91	14.9		12/12/91	WHP
SIO0812100A00L	WWC2*371	11/25/91	11/25/91	17.7		12/12/91	WHP
SIO0812100B00L	WWC2*372	11/25/91	11/25/91	17.9		12/12/91	WHP
SIO0812100C00L	WWC2*373	11/25/91	11/25/91	18.6		12/12/91	WHP
SIO0812200A00L	WWC2*374	11/25/91	11/25/91	14.1		12/12/91	WHP
SIO0812200B00L	WWC2*375	11/25/91	11/25/91	13.8		12/12/91	WHP
SIO0812200C00L	WWC2*376	11/25/91	11/25/91	10.8		12/12/91	WHP
SIO0825100A00L	WWC2*377	11/25/91	11/25/91	17.4		12/12/91	WHP
SIO0825100B00L	WWC2*378	11/25/91	11/25/91	17.9		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1265 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone
Fax

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO0825100C00L	WWC2*379	11/25/91	11/25/91	16.4		12/12/91	WHP
SIO0825200A00L	WWC2*380	11/25/91	11/25/91	22.6		12/12/91	WHP
SIO0825200B00L	WWC2*381	11/25/91	11/25/91	16.5		12/12/91	WHP
SIO1311100A00L	WWC2*382	11/26/91	11/26/91	20.6		12/12/91	WHP
SIO1311100B00L	WWC2*383	11/26/91	11/26/91	19.5		12/12/91	WHP
SIO1311100C00L	WWC2*384	11/26/91	11/26/91	19.0		12/12/91	WHP
SIO1311200A00L	WWC2*385	11/26/91	11/26/91	15.5		12/12/91	WHP
SIO1311200B00L	WWC2*386	11/26/91	11/26/91	20.9		12/12/91	WHP
SIO1311200C00L	WWC2*387	11/26/91	11/26/91	23.0		12/12/91	WHP
SIO1302100A00L	WWC2*388	11/26/91	11/26/91	15.9		12/12/91	WHP
SIO1302100B00L	WWC2*389	11/26/91	11/26/91	15.8		12/12/91	WHP
SIO1302100C00L	WWC2*390	11/26/91	11/26/91	12.9		12/12/91	WHP
SIO1302200A00L	WWC2*391	11/26/91	11/26/91	15.3		12/12/91	WHP
SIO1302200B00L	WWC2*392	11/26/91	11/26/91	13.2		12/12/91	WHP
SIO1302200C00L	WWC2*393	11/26/91	11/26/91	12.4		12/12/91	WHP
SIO1302200A0LM	WWC2*394	11/26/91	11/26/91	15.6		12/12/91	WHP
SIO1302200B0LM	WWC2*395	11/26/91	11/26/91	12.8		12/12/91	WHP
SIO1302200C0LM	WWC2*396	11/26/91	11/26/91	12.0		12/12/91	WHP
SIO1302200A0LX	WWC2*397	11/26/91	11/26/91	15.3		12/12/91	WHP
SIO1302200B0LX	WWC2*398	11/26/91	11/26/91	13.8		12/12/91	WHP
SIO1302200C0LX	WWC2*399	11/26/91	11/26/91	12.7		12/12/91	WHP
SIO1316100A00L	WWC2*400	11/26/91	11/26/91	19.2		12/12/91	WHP
SIO1316100B00L	WWC2*401	11/26/91	11/26/91	17.9		12/12/91	WHP
SIO1316100C00L	WWC2*402	11/26/91	11/26/91	18.0		12/12/91	WHP
SIO1316200A00L	WWC2*403	11/26/91	11/26/91	18.8		12/12/91	WHP
SIO1316200B00L	WWC2*404	11/26/91	11/26/91	13.8		12/12/91	WHP
SIO1316200C00L	WWC2*405	11/26/91	11/26/91	12.2		12/12/91	WHP
SIO1324100A00L	WWC2*406	11/26/91	11/26/91	21.9		12/12/91	WHP
SIO1324100B00L	WWC2*407	11/26/91	11/26/91	21.2		12/12/91	WHP
SIO1324100C00L	WWC2*408	11/26/91	11/26/91	20.3		12/12/91	WHP
SIO1324200A00L	WWC2*409	11/26/91	11/26/91	19.9		12/12/91	WHP
SIO1324200B00L	WWC2*410	11/26/91	11/26/91	19.4		12/12/91	WHP
SIO1324200C00L	WWC2*411	11/26/91	11/26/91	18.8		12/12/91	WHP
SIO1324200A0LM	WWC2*412	11/26/91	11/26/91	20.4		12/12/91	WHP
SIO1324200B0LM	WWC2*413	11/26/91	11/26/91	19.4		12/12/91	WHP
SIO1324200C0LM	WWC2*414	11/26/91	11/26/91	19.6		12/12/91	WHP
SIO1324200A0LX	WWC2*415	11/26/91	11/26/91	20.1		12/12/91	WHP
SIO1324200B0LX	WWC2*416	11/26/91	11/26/91	19.0		12/12/91	WHP
SIO1324200C0LX	WWC2*417	11/26/91	11/26/91	19.0		12/12/91	WHP
SIO1224100A00L	WWC2*418	11/26/91	11/26/91	18.3		12/12/91	WHP
SIO1224100B00L	WWC2*419	11/26/91	11/26/91	19.5		12/12/91	WHP
SIO1224100C00L	WWC2*420	11/26/91	11/26/91	13.3		12/12/91	WHP

Louis Chemistry Laboratory

Analytical Chemistry Re

STATUS: FINAL PAGE# 11

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO1224200A00L	WWC2*421	11/26/91	11/26/91	23.0		12/12/91	WHP
SIO1224200B00L	WWC2*422	11/26/91	11/26/91	26.9		12/12/91	WHP
SIO1224200C00L	WWC2*423	11/26/91	11/26/91	22.5		12/12/91	WHP
SEL1606100A00L	WWC2*424	11/26/91	11/26/91	16.6		12/12/91	WHP
SEL1606100B00L	WWC2*425	11/26/91	11/26/91	14.5		12/12/91	WHP
SEL1606100C00L	WWC2*426	11/26/91	11/26/91	10.0		12/12/91	WHP
SEL1606200A00L	WWC2*427	11/26/91	11/26/91	23.5		12/12/91	WHP
SEL1606200B00L	WWC2*428	11/26/91	11/26/91	20.5		12/12/91	WHP
SEL1606200C00L	WWC2*429	11/26/91	11/26/91	19.1		12/12/91	WHP
SEL1609100A00L	WWC2*430	11/26/91	11/26/91	21.4		12/12/91	WHP
SEL1609100B00L	WWC2*431	11/26/91	11/26/91	19.4		12/12/91	WHP
SEL1609100C00L	WWC2*432	11/26/91	11/26/91	18.6		12/12/91	WHP
SEL1609200A00L	WWC2*433	11/26/91	11/26/91	22.3		12/12/91	WHP
SEL1609200B00L	WWC2*434	11/26/91	11/26/91	19.9		12/12/91	WHP
SEL1609200C00L	WWC2*435	11/26/91	11/26/91	28.9		12/12/91	WHP
SAL1218100A00L	WWC2*436	11/26/91	11/26/91	20.4		12/12/91	WHP
SAL1218100B00L	WWC2*437	11/26/91	11/26/91	19.1		12/12/91	WHP
SAL1218100C00L	WWC2*438	11/26/91	11/26/91	18.8		12/12/91	WHP
SAL1218200A00L	WWC2*439	11/26/91	11/26/91	23.6		12/12/91	WHP
SAL1218200A0LM	WWC2*440	11/26/91	11/26/91	23.2		12/12/91	WHP
SAL1218200A0LX	WWC2*441	11/26/91	11/26/91	23.3		12/12/91	WHP
SAL1218200B00L	WWC2*442	11/26/91	11/26/91	22.8		12/12/91	WHP
SAL1218200B0LM	WWC2*443	11/26/91	11/26/91	23.6		12/12/91	WHP
SAL1218200B0LX	WWC2*444	11/26/91	11/26/91	22.5		12/12/91	WHP
SAL1218200C00L	WWC2*445	11/26/91	11/26/91	21.3		12/12/91	WHP
SAL1218200C0LM	WWC2*446	11/26/91	11/26/91	25.8		12/12/91	WHP
SAL1218200C0LX	WWC2*447	11/26/91	11/26/91	21.5		12/12/91	WHP
SAL1224100A00L	WWC2*448	11/26/91	11/26/91	21.1		12/12/91	WHP
SAL1224100B00L	WWC2*449	11/26/91	11/26/91	21.4		12/12/91	WHP
SAL1224100C00L	WWC2*450	11/26/91	11/26/91	20.9		12/12/91	WHP
SAL1224200A00L	WWC2*451	11/26/91	11/26/91	21.9		12/12/91	WHP
SAL1224200B00L	WWC2*452	11/26/91	11/26/91	20.9		12/12/91	WHP
SAL1224200C00L	WWC2*453	11/26/91	11/26/91	22.0		12/12/91	WHP
SRE1114100A00L	WWC2*454	11/26/91	11/26/91	17.4		12/12/91	WHP
SRE1114100B00L	WWC2*455	11/26/91	11/26/91	17.3		12/12/91	WHP
SRE1114100C00L	WWC2*456	11/26/91	11/26/91	16.7		12/12/91	WHP
SRE1114200A00L	WWC2*457	11/26/91	11/26/91	12.9		12/12/91	WHP
SRE1114200B00L	WWC2*458	11/26/91	11/26/91	14.5		12/12/91	WHP
SRE1114200C00L	WWC2*459	11/26/91	11/26/91	18.7		12/12/91	WHP
SGW1108100A00L	WWC2*460	11/26/91	11/26/91	26.5		12/12/91	WHP
SGW1108100B00L	WWC2*461	11/26/91	11/26/91	23.2		12/12/91	WHP
SGW1108100C00L	WWC2*462	11/26/91	11/26/91	21.7		12/12/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

[illegible] Lilburn Park Road
St. Louis, Missouri 63146-3533

Phone [illegible]
Fax [illegible]

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGW1108200A00L	WWC2*463	11/26/91	11/26/91	25.9		12/12/91	WHP
SGW1108200B00L	WWC2*464	11/26/91	11/26/91	20.3		12/12/91	WHP
SGW1108200C00L	WWC2*465	11/26/91	11/26/91	17.1		12/12/91	WHP
SGW1105100A00L	WWC2*466	11/26/91	11/26/91	21.6		12/12/91	WHP
SGW1105100B00L	WWC2*467	11/26/91	11/26/91	21.5		12/12/91	WHP
SGW1105100C00L	WWC2*468	11/26/91	11/26/91	21.7		12/12/91	WHP
SGW1105200A00L	WWC2*469	11/26/91	11/26/91	23.3		12/12/91	WHP
SGW1105200B00L	WWC2*470	11/26/91	11/26/91	21.9		12/12/91	WHP
SGW1105200C00L	WWC2*471	11/26/91	11/26/91	28.6		12/12/91	WHP
SAL1200100A00L	WWC2*472	11/27/91	11/27/91	22.5		12/12/91	WHP
SAL1200100A0LD	WWC2*473	11/27/91	11/27/91	23.0		12/12/91	WHP
SAL1200100B00L	WWC2*474	11/27/91	11/27/91	19.2		12/12/91	WHP
SAL1200100B0LD	WWC2*475	11/27/91	11/27/91	19.3		12/12/91	WHP
SAL1200100C00L	WWC2*476	11/27/91	11/27/91	19.4		12/12/91	WHP
SAL1200100C0LD	WWC2*477	11/27/91	11/27/91	17.2		12/12/91	WHP
SAL1200200A00L	WWC2*478	11/27/91	11/27/91	26.8		12/12/91	WHP
SAL1200200B00L	WWC2*479	11/27/91	11/27/91	22.3		12/12/91	WHP
SAL1200200C00L	WWC2*480	11/27/91	11/27/91	20.9		12/12/91	WHP
STL1920100A00L	WWC2*481	11/27/91	11/27/91	19.8		12/12/91	WHP
STL1920100A0LD	WWC2*482	11/27/91	11/27/91	19.8		12/12/91	WHP
STL1920100B00L	WWC2*483	11/27/91	11/27/91	19.0		12/12/91	WHP
STL1920100B0LD	WWC2*484	11/27/91	11/27/91	19.1		12/12/91	WHP
STL1920100C00L	WWC2*485	11/27/91	11/27/91	18.1		12/12/91	WHP
STL1920100C0LD	WWC2*486	11/27/91	11/27/91	18.6		12/12/91	WHP
STL1920200A00L	WWC2*487	11/27/91	11/27/91	26.7		12/12/91	WHP
STL1920200B00L	WWC2*488	11/27/91	11/27/91	13.7		12/12/91	WHP
STL1920200C00L	WWC2*489	11/27/91	11/27/91	19.0		12/12/91	WHP
SMC1033100A00L	WWC2*490	11/27/91	11/27/91	23.6		12/12/91	WHP
SMC1033100A0LD	WWC2*491	11/27/91	11/27/91	22.5		12/12/91	WHP
SMC1033100B00L	WWC2*492	11/27/91	11/27/91	20.1		12/12/91	WHP
SMC1033100B0LD	WWC2*493	11/27/91	11/27/91	17.7		12/12/91	WHP
SMC1033100C00L	WWC2*494	11/27/91	11/27/91	18.1		12/12/91	WHP
SMC1033100C0LD	WWC2*495	11/27/91	11/27/91	17.3		12/12/91	WHP
SMC1033200A00L	WWC2*496	11/27/91	11/27/91	22.1		12/12/91	WHP
SMC1033200B00L	WWC2*497	11/27/91	11/27/91	21.9		12/12/91	WHP
SMC1033200C00L	WWC2*498	11/27/91	11/27/91	20.8		12/12/91	WHP
SED1635100A0LD	WWC2*499	11/18/91	11/27/91	20.9		12/12/91	WHP
SED1635100C0LD	WWC2*500	11/18/91	11/27/91	19.0		12/12/91	WHP
SED1635100B0LD	WWC2*501	11/18/91	11/27/91	22.7		12/12/91	WHP
SIO0801100A00L	WWC2*502	12/02/91	12/02/91	22.6		12/12/91	WHP
SIO0801100B00L	WWC2*503	12/02/91	12/02/91	19.4		12/12/91	WHP
SIO0801100C00L	WWC2*504	12/02/91	12/02/91	18.8		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

1665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO0801200A00L	WWC2*505	12/02/91	12/02/91	27.8		12/12/91	WHP
SIO0801200B00L	WWC2*506	12/02/91	12/02/91	20.8		12/12/91	WHP
SIO0801200C00L	WWC2*507	12/02/91	12/02/91	19.9		12/12/91	WHP
SIO1002100A00L	WWC2*508	12/02/91	12/02/91	22.4		12/12/91	WHP
SIO1002100B00L	WWC2*509	12/02/91	12/02/91	21.0		12/12/91	WHP
SIO1002100C00L	WWC2*510	12/02/91	12/02/91	20.9		12/12/91	WHP
SIO1002200A00L	WWC2*511	12/02/91	12/02/91	21.0		12/12/91	WHP
SIO1002200B00L	WWC2*512	12/02/91	12/02/91	15.6		12/12/91	WHP
SIO1002200C00L	WWC2*513	12/02/91	12/02/91	18.1		12/12/91	WHP
SIO1002100A0LD	WWC2*514	12/02/91	12/02/91	22.0		12/12/91	WHP
SIO1002100B0LD	WWC2*515	12/02/91	12/02/91	21.3		12/12/91	WHP
SIO1002100C0LD	WWC2*516	12/02/91	12/02/91	21.1		12/12/91	WHP
SIO1235100A00L	WWC2*527	12/03/91	12/03/91	21.9		12/12/91	WHP
SIO1235100B00L	WWC2*528	12/03/91	12/03/91	19.6		12/12/91	WHP
SIO1235100C00L	WWC2*529	12/03/91	12/03/91	18.5		12/12/91	WHP
SIO1235200A00L	WWC2*530	12/03/91	12/03/91	22.4		12/12/91	WHP
SIO1235200B00L	WWC2*531	12/03/91	12/03/91	19.8		12/12/91	WHP
SIO1235200C00L	WWC2*532	12/03/91	12/03/91	20.5		12/12/91	WHP
SIO1234100A00L	WWC2*533	12/03/91	12/03/91	17.2		12/12/91	WHP
SIO1234100B00L	WWC2*534	12/03/91	12/03/91	16.1		12/12/91	WHP
SIO1234100C00L	WWC2*535	12/03/91	12/03/91	14.0		12/12/91	WHP
SIO1234200A00L	WWC2*536	12/03/91	12/03/91	22.0		12/12/91	WHP
SIO1234200B00L	WWC2*537	12/03/91	12/03/91	20.4		12/12/91	WHP
SIO1234200C00L	WWC2*538	12/03/91	12/03/91	19.6		12/12/91	WHP
SIO1230100A00L	WWC2*539	12/03/91	12/03/91	21.3		12/12/91	WHP
SIO1230100B00L	WWC2*540	12/03/91	12/03/91	19.8		12/12/91	WHP
SIO1230100C00L	WWC2*541	12/03/91	12/03/91	16.1		12/12/91	WHP
SIO1230200A00L	WWC2*542	12/03/91	12/03/91	21.7		12/12/91	WHP
SIO1230200B00L	WWC2*543	12/03/91	12/03/91	18.8		12/12/91	WHP
SIO1230200C00L	WWC2*544	12/03/91	12/03/91	18.8		12/12/91	WHP
SIO1031100A00L	WWC2*545	12/03/91	12/03/91	21.0		12/12/91	WHP
SIO1031100B00L	WWC2*546	12/03/91	12/03/91	19.9		12/12/91	WHP
SIO1031100C00L	WWC2*547	12/03/91	12/03/91	20.7		12/12/91	WHP
SIO1031200A00L	WWC2*548	12/03/91	12/03/91	19.6		12/12/91	WHP
SIO1031200B00L	WWC2*549	12/03/91	12/03/91	19.2		12/12/91	WHP
SIO1122100A00L	WWC2*550	12/03/91	12/03/91	20.2		12/12/91	WHP
SIO1122100B00L	WWC2*551	12/03/91	12/03/91	16.6		12/12/91	WHP
SIO1122100C00L	WWC2*552	12/03/91	12/03/91	14.4		12/12/91	WHP
SIO1122200A00L	WWC2*553	12/03/91	12/03/91	22.6		12/12/91	WHP
SIO1122200B00L	WWC2*554	12/03/91	12/03/91	20.4		12/12/91	WHP
SIO1122200C00L	WWC2*555	12/03/91	12/03/91	17.7		12/12/91	WHP
SIO1124100A00L	WWC2*556	12/03/91	12/03/91	23.9		12/12/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314) 567-4600
Fax 314) 567-5030

Analytical Chemistry Resu'

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO1124100B00L	WWC2*557	12/03/91	12/03/91	20.9		12/12/91	WHP
SIO1124100C00L	WWC2*558	12/03/91	12/03/91	20.1		12/12/91	WHP
SIO1124200A00L	WWC2*559	12/03/91	12/03/91	21.6		12/12/91	WHP
SIO1124200B00L	WWC2*560	12/03/91	12/03/91	19.1		12/12/91	WHP
SIO1124200C00L	WWC2*561	12/03/91	12/03/91	17.6		12/12/91	WHP
SIO0913100A00L	WWC2*562	12/03/91	12/03/91	20.5		12/12/91	WHP
SIO0913100B00L	WWC2*563	12/03/91	12/03/91	19.9		12/12/91	WHP
SIO0913100C00L	WWC2*564	12/03/91	12/03/91	19.1		12/12/91	WHP
SIO0913200A00L	WWC2*565	12/03/91	12/03/91	20.9		12/12/91	WHP
SIO0913200B00L	WWC2*566	12/03/91	12/03/91	19.9		12/12/91	WHP
SIO0913200C00L	WWC2*567	12/03/91	12/03/91	20.1		12/12/91	WHP
SIO1211100A00L	WWC2*568	12/03/91	12/03/91	21.2		12/12/91	WHP
SIO1211100B00L	WWC2*569	12/03/91	12/03/91	18.5		12/12/91	WHP
SIO1211100C00L	WWC2*570	12/03/91	12/03/91	17.1		12/12/91	WHP
SIO1211200A00L	WWC2*571	12/03/91	12/03/91	25.7		12/12/91	WHP
SIO1211200B00L	WWC2*572	12/03/91	12/03/91	23.0		12/12/91	WHP
SIO1211200C00L	WWC2*573	12/03/91	12/03/91	18.8		12/12/91	WHP
SWS1029100A00L	WWC2*574	12/03/91	12/03/91	20.4		12/12/91	WHP
SWS1029100B00L	WWC2*575	12/03/91	12/03/91	20.4		12/12/91	WHP
SWS1029100C00L	WWC2*576	12/03/91	12/03/91	20.4		12/12/91	WHP
SWS1029200A00L	WWC2*577	12/03/91	12/03/91	18.9		12/12/91	WHP
SWS1029200B00L	WWC2*578	12/03/91	12/03/91	22.3		12/12/91	WHP
SWS1029200C00L	WWC2*579	12/03/91	12/03/91	21.0		12/12/91	WHP
SIO1031200C00L	WWC2*580	12/03/91	12/03/91	19.7		12/12/91	WHP
SRE1017100A00L	WWC2*581	12/03/91	12/03/91	25.4		12/16/91	WHP
SRE1017100B00L	WWC2*582	12/03/91	12/03/91	20.5		12/16/91	WHP
SRE1017100C00L	WWC2*583	12/03/91	12/03/91	17.3		12/16/91	WHP
SRE1017200A00L	WWC2*584	12/03/91	12/03/91	23.3		12/16/91	WHP
SRE1017200B00L	WWC2*585	12/03/91	12/03/91	20.0		12/16/91	WHP
SRE1017200C00L	WWC2*586	12/03/91	12/03/91	21.1		12/16/91	WHP
SKE1706100A00L	WWC2*587	12/03/91	12/03/91	23.8		12/16/91	WHP
SKE1706100B00L	WWC2*588	12/03/91	12/03/91	21.0		12/16/91	WHP
SKE1706100C00L	WWC2*589	12/03/91	12/03/91	19.6		12/16/91	WHP
SKE1706200A00L	WWC2*590	12/03/91	12/03/91	27.2		12/16/91	WHP
SKE1706200B00L	WWC2*591	12/03/91	12/03/91	21.4		12/16/91	WHP
SKE1706200C00L	WWC2*592	12/03/91	12/03/91	19.1		12/16/91	WHP
SKE1702100A00L	WWC2*593	12/03/91	12/03/91	25.2		12/16/91	WHP
SKE1702100B00L	WWC2*594	12/03/91	12/03/91	21.8		12/16/91	WHP
SKE1702100C00L	WWC2*595	12/03/91	12/03/91	18.8		12/16/91	WHP
SKE1702200A00L	WWC2*596	12/03/91	12/03/91	23.4		12/16/91	WHP
SKE1702200B00L	WWC2*597	12/03/91	12/03/91	24.8		12/16/91	WHP
SKE1702200C00L	WWC2*598	12/03/91	12/03/91	19.6		12/16/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry R

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SMA0819100A00L	WWC2*599	12/03/91	12/03/91	24.8		12/16/91	WHP
SMA0819100B00L	WWC2*600	12/03/91	12/03/91	23.1		12/16/91	WHP
SMA0819100C00L	WWC2*601	12/03/91	12/03/91	20.0		12/16/91	WHP
SMA0819200B00L	WWC2*602	12/03/91	12/03/91	25.7		12/16/91	WHP
SMA0819200B00L	WWC2*603	12/03/91	12/03/91	21.8		12/16/91	WHP
SMA0819200C00L	WWC2*604	12/03/91	12/03/91	15.7		12/16/91	WHP
SRE1115100A00L	WWC2*605	12/03/91	12/03/91	24.3		12/16/91	WHP
SRE1115100B00L	WWC2*606	12/03/91	12/03/91	22.1		12/16/91	WHP
SRE1115100C00L	WWC2*607	12/03/91	12/03/91	22.3		12/16/91	WHP
SRE1115200A00L	WWC2*608	12/03/91	12/03/91	25.4		12/16/91	WHP
SRE1115200B00L	WWC2*609	12/03/91	12/03/91	19.5		12/16/91	WHP
SRE1115200C00L	WWC2*610	12/03/91	12/03/91	19.9		12/16/91	WHP
SMA1009100A00L	WWC2*611	12/03/91	12/03/91	25.0		12/16/91	WHP
SMA1009100B00L	WWC2*612	12/03/91	12/03/91	22.9		12/16/91	WHP
SMA1009100C00L	WWC2*613	12/03/91	12/03/91	22.4		12/16/91	WHP
SMA1009200A00L	WWC2*614	12/03/91	12/03/91	24.9		12/16/91	WHP
SMA1009200B00L	WWC2*615	12/03/91	12/03/91	22.4		12/16/91	WHP
SMA1009200C00L	WWC2*616	12/03/91	12/03/91	21.4		12/16/91	WHP
SMA1230100A00L	WWC2*617	12/03/91	12/03/91	24.7		12/16/91	WHP
SMA1230100B00L	WWC2*618	12/03/91	12/03/91	22.2		12/16/91	WHP
SMA1230100C00L	WWC2*619	12/03/91	12/03/91	19.2		12/16/91	WHP
SMA1230200A00L	WWC2*620	12/03/91	12/03/91	15.6		12/16/91	WHP
SMA1230200B00L	WWC2*621	12/03/91	12/03/91	15.7		12/16/91	WHP
SMA1230200C00L	WWC2*622	12/03/91	12/03/91	18.6		12/16/91	WHP
SER1853100A00L	WWC2*623	12/03/91	12/03/91	21.8		12/16/91	WHP
SER1853100B00L	WWC2*624	12/03/91	12/03/91	19.3		12/16/91	WHP
SER1853100C00L	WWC2*625	12/03/91	12/03/91	18.3		12/16/91	WHP
SER1853200A00L	WWC2*626	12/03/91	12/03/91	21.1		12/16/91	WHP
SER1853200B00L	WWC2*627	12/03/91	12/03/91	20.6		12/16/91	WHP
SER1853200C00L	WWC2*628	12/03/91	12/03/91	18.0		12/16/91	WHP
SER1863100A00L	WWC2*629	12/03/91	12/03/91	22.5		12/16/91	WHP
SER1863100B00L	WWC2*630	12/03/91	12/03/91	18.8		12/16/91	WHP
SER1863100C00L	WWC2*631	12/03/91	12/03/91	17.6		12/16/91	WHP
SER1863200A00L	WWC2*632	12/03/91	12/03/91	19.6		12/16/91	WHP
SER1863200B00L	WWC2*633	12/03/91	12/03/91	18.0		12/16/91	WHP
SER1863200C00L	WWC2*634	12/03/91	12/03/91	16.1		12/16/91	WHP
SGR0820200C00L	WWC2*635	12/05/91	12/05/91	19.2		12/16/91	WHP
SGR0904100A00L	WWC2*636	12/05/91	12/05/91	20.5		12/16/91	WHP
SGR0904100B00L	WWC2*637	12/05/91	12/05/91	19.6		12/16/91	WHP
SGR0904100C00L	WWC2*638	12/05/91	12/05/91	20.5		12/16/91	WHP
SGR0904200A00L	WWC2*639	12/05/91	12/05/91	23.3		12/16/91	WHP
SGR0904200B00L	WWC2*640	12/05/91	12/05/91	19.0		12/16/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314 567-4600
Fax 314 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR0904200C00L	WWC2*641	12/05/91	12/05/91	16.8		12/16/91	WHP
SGR0911100A00L	WWC2*642	12/05/91	12/05/91	14.1		12/16/91	WHP
SGR0911100B00L	WWC2*643	12/05/91	12/05/91	14.5		12/16/91	WHP
SGR0911100C00L	WWC2*644	12/05/91	12/05/91	15.6		12/16/91	WHP
SGR0911200A00L	WWC2*645	12/05/91	12/05/91	20.4		12/16/91	WHP
SGR0911200B00L	WWC2*646	12/05/91	12/05/91	20.0		12/16/91	WHP
SGR0911200C00L	WWC2*647	12/05/91	12/05/91	22.3		12/16/91	WHP
SED1717100A00L	WWC2*648	12/05/91	12/05/91	22.9		12/16/91	WHP
SED1717100B00L	WWC2*649	12/05/91	12/05/91	21.9		12/16/91	WHP
SED1717100C00L	WWC2*650	12/05/91	12/05/91	21.1		12/16/91	WHP
SED1717200A00L	WWC2*651	12/05/91	12/05/91	25.1		12/16/91	WHP
SED1717200B00L	WWC2*652	12/05/91	12/05/91	23.5		12/16/91	WHP
SED1717200C00L	WWC2*653	12/05/91	12/05/91	20.9		12/16/91	WHP
SED1707100A00L	WWC2*654	12/05/91	12/05/91	27.0		12/16/91	WHP
SED1707100B00L	WWC2*655	12/05/91	12/05/91	22.4		12/16/91	WHP
SED1707100C00L	WWC2*656	12/05/91	12/05/91	23.0		12/16/91	WHP
SGR0807100A00L	WWC2*657	12/05/91	12/05/91	21.4		12/16/91	WHP
SGR0807100B00L	WWC2*658	12/05/91	12/05/91	20.2		12/16/91	WHP
SRO0807100C00L	WWC2*659	12/05/91	12/05/91	15.2		12/16/91	WHP
SGR0807200A00L	WWC2*660	12/05/91	12/05/91	25.7		12/16/91	WHP
SGR0807200B00L	WWC2*661	12/05/91	12/05/91	24.2		12/16/91	WHP
SGR0807200C00L	WWC2*662	12/05/91	12/05/91	22.7		12/16/91	WHP
SGR0808100A00L	WWC2*663	12/05/91	12/05/91	24.1		12/16/91	WHP
SGR0808100B00L	WWC2*664	12/05/91	12/05/91	21.2		12/16/91	WHP
SGR0808100C00L	WWC2*665	12/05/91	12/05/91	20.9		12/16/91	WHP
SGR0808200A00L	WWC2*666	12/05/91	12/05/91	23.1		12/16/91	WHP
SGR0808200B00L	WWC2*667	12/05/91	12/05/91	20.4		12/16/91	WHP
SGR0808200C00L	WWC2*668	12/05/91	12/05/91	19.8		12/16/91	WHP
SGR0811100A00L	WWC2*669	12/05/91	12/05/91	23.8		12/16/91	WHP
SGR0811100B00L	WWC2*670	12/05/91	12/05/91	20.2		12/16/91	WHP
SGR0811100C00L	WWC2*671	12/05/91	12/05/91	21.2		12/16/91	WHP
SGR0811200A00L	WWC2*672	12/05/91	12/05/91	30.4		12/16/91	WHP
SGR0811200B00L	WWC2*673	12/05/91	12/05/91	31.2		12/16/91	WHP
SGR0811200C00L	WWC2*674	12/05/91	12/05/91	36.1		12/16/91	WHP
SGR0820100A00L	WWC2*675	12/05/91	12/05/91	16.3		12/16/91	WHP
SGR0820100B00L	WWC2*676	12/05/91	12/05/91	10.8		12/16/91	WHP
SGR0820100C00L	WWC2*677	12/05/91	12/05/91	16.2		12/16/91	WHP
SGR0820200A00L	WWC2*678	12/05/91	12/05/91	24.0		12/16/91	WHP
SGR0820200B00L	WWC2*679	12/05/91	12/05/91	20.4		12/16/91	WHP
SST2039100A00L	WWC2*681	12/05/91	12/05/91	28.8		12/16/91	WHP
SST2039100B00L	WWC2*682	12/05/91	12/05/91	24.9		12/16/91	WHP
SST2039100C00L	WWC2*683	12/05/91	12/05/91	20.4		12/16/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

1065 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SST2039200A00L	WWC2*684	12/05/91	12/05/91	21.0		12/16/91	WHP
SST2039200B00L	WWC2*685	12/05/91	12/05/91	20.2		12/16/91	WHP
SST2039200C00L	WWC2*686	12/05/91	12/05/91	22.9		12/16/91	WHP
SST1705100A00L	WWC2*687	12/05/91	12/05/91	20.2		12/16/91	WHP
STT1705100B00L	WWC2*688	12/05/91	12/05/91	18.9		12/16/91	WHP
SST1705100C00L	WWC2*689	12/05/91	12/05/91	18.8		12/16/91	WHP
SST1705200A00L	WWC2*690	12/05/91	12/05/91	16.1		12/16/91	WHP
SST1705200B00L	WWC2*691	12/05/91	12/05/91	15.0		12/16/91	WHP
SST1705200C00L	WWC2*692	12/05/91	12/05/91	16.8		12/16/91	WHP
SDE2000200A00L	WWC2*693	12/05/91	12/05/91	23.0		12/16/91	WHP
SDE2000200B00L	WWC2*694	12/05/91	12/05/91	18.7		12/16/91	WHP
SDE2000200C00L	WWC2*695	12/05/91	12/05/91	18.1		12/16/91	WHP
SDE2000100A00L	WWC2*696	12/05/91	12/05/91	23.5		12/16/91	WHP
SDE2000100B00L	WWC2*697	12/05/91	12/05/91	19.1		12/16/91	WHP
SDE2000100C00L	WWC2*698	12/05/91	12/05/91	17.8		12/16/91	WHP
SBE2038100A00L	WWC2*699	12/05/91	12/05/91	23.1		12/16/91	WHP
SBE2038100B00L	WWC2*700	12/05/91	12/05/91	14.2		12/19/91	WHP
SBE2038100C00L	WWC2*701	12/05/91	12/05/91	14.8		12/19/91	WHP
SBE2125100A00L	WWC2*702	12/05/91	12/05/91	19.7		12/19/91	WHP
SBE2125100B00L	WWC2*703	12/05/91	12/05/91	18.6		12/19/91	WHP
SBE2125100C00L	WWC2*704	12/05/91	12/05/91	17.7		12/19/91	WHP
SBE2125200A00L	WWC2*705	12/05/91	12/05/91	19.4		12/19/91	WHP
SBE2125200B00L	WWC2*706	12/05/91	12/05/91	18.3		12/19/91	WHP
SBE2125200C00L	WWC2*707	12/05/91	12/05/91	17.5		12/19/91	WHP
SNI0915200A00L	WWC2*708	12/05/91	12/05/91	19.9		12/19/91	WHP
SNI0915200B00L	WWC2*709	12/05/91	12/05/91	22.6		12/19/91	WHP
SNI0915200C00L	WWC2*710	12/05/91	12/05/91	24.4		12/19/91	WHP
SNI1247100A00L	WWC2*711	12/05/91	12/05/91	20.0		12/19/91	WHP
SNI1247100A0LD	WWC2*712	12/05/91	12/05/91	19.2		12/19/91	WHP
SNI1247100B00L	WWC2*713	12/05/91	12/05/91	17.7		12/19/91	WHP
SNI1247100B0LD	WWC2*714	12/05/91	12/05/91	17.7		12/19/91	WHP
SNI1247100C00L	WWC2*715	12/05/91	12/05/91	16.9		12/19/91	WHP
SNI1247100C0LD	WWC2*716	12/05/91	12/05/91	16.6		12/19/91	WHP
SNI1247200A00L	WWC2*717	12/05/91	12/05/91	18.1		12/19/91	WHP
SNI1247200B00L	WWC2*718	12/05/91	12/05/91	13.7		12/19/91	WHP
SNI1247200C00L	WWC2*719	12/05/91	12/05/91	13.1		12/19/91	WHP
SBR2023100A00L	WWC2*720	12/06/91	12/06/91	24.3		12/19/91	WHP
SBR2023100B00L	WWC2*721	12/06/91	12/06/91	22.0		12/19/91	WHP
SBR2023100C00L	WWC2*722	12/06/91	12/06/91	15.1		12/19/91	WHP
SBR2023200A00L	WWC2*723	12/06/91	12/06/91	20.4		12/19/91	WHP
SBR2023200B00L	WWC2*724	12/06/91	12/06/91	16.6		12/19/91	WHP
SBR2023200C00L	WWC2*725	12/06/91	12/06/91	17.9		12/19/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

1365 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBR2014100A00L	WWC2*726	12/06/91	12/06/91	21.6		12/19/91	WHP
SBR2014100B00L	WWC2*727	12/06/91	12/06/91	19.7		12/19/91	WHP
SBR2014100C00L	WWC2*728	12/06/91	12/06/91	18.2		12/19/91	WHP
SBR2014200A00L	WWC2*729	12/06/91	12/06/91	25.1		12/19/91	WHP
SBR2014200B00L	WWC2*730	12/06/91	12/06/91	21.4		12/19/91	WHP
SBR2014200C00L	WWC2*731	12/06/91	12/06/91	17.0		12/19/91	WHP
SOH2018100A00L	WWC2*732	12/06/91	12/06/91	22.8		12/19/91	WHP
SOH2018100B00L	WWC2*733	12/06/91	12/06/91	22.1		12/19/91	WHP
SOH2018100C00L	WWC2*734	12/06/91	12/06/91	19.0		12/19/91	WHP
SOH2018200A00L	WWC2*735	12/06/91	12/06/91	33.8		12/19/91	WHP
SOH2018200B00L	WWC2*736	12/06/91	12/06/91	22.6		12/19/91	WHP
SOH2018200C00L	WWC2*737	12/06/91	12/06/91	18.6		12/19/91	WHP
SOH2014100A00L	WWC2*738	12/06/91	12/06/91	20.6		12/19/91	WHP
SOH2014100B00L	WWC2*739	12/06/91	12/06/91	17.2		12/19/91	WHP
SOH2014100C00L	WWC2*740	12/06/91	12/06/91	14.7		12/19/91	WT
SOH2014200A00L	WWC2*741	12/06/91	12/06/91	22.1		12/19/91	Wh.
SOH2014200B00L	WWC2*742	12/06/91	12/06/91	18.9		12/19/91	WHP
SOH2014200C00L	WWC2*743	12/06/91	12/06/91	14.0		12/19/91	WHP
SWT2504100A00L	WWC2*744	12/06/91	12/06/91	19.1		12/19/91	WHP
SWT2504100B00L	WWC2*745	12/06/91	12/06/91	15.2		12/19/91	WHP
SWT2504100C00L	WWC2*746	12/06/91	12/06/91	10.2		12/19/91	WHP
SWT2504200A00L	WWC2*747	12/06/91	12/06/91	26.9		12/19/91	WHP
SWT2504200B00L	WWC2*748	12/06/91	12/06/91	28.0		12/19/91	WHP
SWT2504200C00L	WWC2*749	12/06/91	12/06/91	24.6		12/19/91	WHP
SWT2504200A0LM	WWC2*750	12/06/91	12/06/91	31.1		12/19/91	WHP
SWT2504200B0LM	WWC2*751	12/06/91	12/06/91	28.8		12/19/91	WHP
SWT2504200C0LM	WWC2*752	12/06/91	12/06/91	26.5		12/19/91	WHP
SWT2504200A0LX	WWC2*753	12/06/91	12/06/91	29.2		12/19/91	WHP
SWT2504200B0LX	WWC2*754	12/06/91	12/06/91	28.1		12/19/91	WHP
SWT2504200C0LX	WWC2*755	12/06/91	12/06/91	23.7		12/19/91	WHP
SWT2508100A00L	WWC2*756	12/06/91	12/06/91	22.3		12/19/91	WHP
SWT2508100B00L	WWC2*757	12/06/91	12/06/91	21.2		12/19/91	WHP
SWT2508100C00L	WWC2*758	12/06/91	12/06/91	20.9		12/19/91	WHP
SWT2508200A00L	WWC2*759	12/06/91	12/06/91	19.4		12/19/91	WHP
SWT2508200B00L	WWC2*760	12/06/91	12/06/91	22.7		12/19/91	WHP
SWT2508200C00L	WWC2*761	12/06/91	12/06/91	19.4		12/19/91	WHP
SWT2510100A00L	WWC2*762	12/06/91	12/06/91	23.3		12/19/91	WHP
SWT2510100B00L	WWC2*763	12/06/91	12/06/91	19.5		12/19/91	WHP
SWT2510100C00L	WWC2*764	12/06/91	12/06/91	19.5		12/19/91	WHP
SWT2510200A00L	WWC2*765	12/06/91	12/06/91	24.2		12/19/91	WHP
SWT2510200B00L	WWC2*766	12/06/91	12/06/91	22.4		12/19/91	WHP
SWT2510200C00L	WWC2*767	12/06/91	12/06/91	22.2		12/19/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGW1108200A00L	WWC2*463	11/26/91	11/26/91	849	7.5	12/11/91	12/14/91	CAG
SGW1108200B00L	WWC2*464	11/26/91	11/26/91	749	7.2	12/11/91	12/14/91	CAG
SGW1108200C00L	WWC2*465	11/26/91	11/26/91	236	7.5	12/11/91	12/14/91	CAG
SGW1105100A00L	WWC2*466	11/26/91	11/26/91	105	7.8	12/11/91	12/14/91	CAG
SGW1105100B00L	WWC2*467	11/26/91	11/26/91	155	7.9	12/11/91	12/14/91	[redacted]
SGW1105100C00L	WWC2*468	11/26/91	11/26/91	191	7.4	12/11/91	12/14/91	[redacted]
SGW1105200A00L	WWC2*469	11/26/91	11/26/91	167	8.1	12/11/91	12/14/91	CAG
SGW1105200B00L	WWC2*470	11/26/91	11/26/91	149	7.6	12/11/91	12/14/91	CAG
SGW1105200C00L	WWC2*471	11/26/91	11/26/91	202	8.7	12/11/91	12/14/91	CAG
SAL1200100A00L	WWC2*472	11/27/91	11/27/91	192	8.1	12/11/91	12/14/91	CAG
SAL1200100A0LD	WWC2*473	11/27/91	11/27/91	204	7.5	12/11/91	12/14/91	CAG
SAL1200100B00L	WWC2*474	11/27/91	11/27/91	119	7.6	12/11/91	12/14/91	CAG
SAL1200100B0LD	WWC2*475	11/27/91	11/27/91	143	8.1	12/11/91	12/14/91	CAG
SAL1200100C00L	WWC2*476	11/27/91	11/27/91	73.9	7.6	12/11/91	12/14/91	CAG
SAL1200100C0LD	WWC2*477	11/27/91	11/27/91	72.8	7.7	12/11/91	12/14/91	CAG
SAL1200200A00L	WWC2*478	11/27/91	11/27/91	170	8.5	12/11/91	12/14/91	CAG
SAL1200200B00L	WWC2*479	11/27/91	11/27/91	96.4	7.8	12/11/91	12/14/91	CAG
SAL1200200C00L	WWC2*480	11/27/91	11/27/91	108	7.8	12/11/91	12/14/91	CAG
STL1920100A00L	WWC2*481	11/27/91	11/27/91	500	7.5	12/11/91	12/14/91	CAG
STL1920100A0LD	WWC2*482	11/27/91	11/27/91	459	7.9	12/11/91	12/14/91	CAG
STL1920100B00L	WWC2*483	11/27/91	11/27/91	400	7.9	12/11/91	12/14/91	CAG
STL1920100B0LD	WWC2*484	11/27/91	11/27/91	371	7.6	12/11/91	12/14/91	CAG
STL1920100C00L	WWC2*485	11/27/91	11/27/91	197	7.8	12/11/91	12/14/91	CAG
STL1920100C0LD	WWC2*486	11/27/91	11/27/91	448	7.4	12/11/91	12/14/91	CAG
STL1920200A00L	WWC2*487	11/27/91	11/27/91	542	8.2	12/11/91	12/14/91	CAG
STL1920200B00L	WWC2*488	11/27/91	11/27/91	195	7.2	12/11/91	12/14/91	CAG
STL1920200C00L	WWC2*489	11/27/91	11/27/91	406	7.9	12/11/91	12/14/91	CAG
SMC1033100A00L	WWC2*490	11/27/91	11/27/91	278	8.0	12/11/91	12/14/91	CAG
SMC1033100A0LD	WWC2*491	11/27/91	11/27/91	265	7.7	12/11/91	12/14/91	CAG
SMC1033100B00L	WWC2*492	11/27/91	11/27/91	191	8.1	12/12/91	12/15/91	CAG
SMC1033100B0LD	WWC2*493	11/27/91	11/27/91	173	7.1	12/12/91	12/15/91	CAG
SMC1033100C00L	WWC2*494	11/27/91	11/27/91	104	7.8	12/12/91	12/15/91	CAG
SMC1033100C0LD	WWC2*495	11/27/91	11/27/91	99.8	7.2	12/12/91	12/15/91	CAG
SMC1033200A00L	WWC2*496	11/27/91	11/27/91	55.7	7.7	12/12/91	12/15/91	CAG
SMC1033200B00L	WWC2*497	11/27/91	11/27/91	76.2	8.2	12/12/91	12/15/91	CAG
SMC1033200C00L	WWC2*498	11/27/91	11/27/91	96.0	7.6	12/12/91	12/15/91	CAG
SED1635100A0LD	WWC2*499	11/18/91	11/27/91	2320	8.3	12/12/91	12/15/91	CAG
SED1635100C0LD	WWC2*500	11/18/91	11/27/91	817	7.6	12/11/91	12/14/91	CAG
SED1635100B0LD	WWC2*501	11/18/91	11/27/91	2040	8.0	12/12/91	12/15/91	CAG
SIO0801100A00L	WWC2*502	12/02/91	12/02/91	353	7.5	12/12/91	12/15/91	CAG
SIO0801100B00L	WWC2*503	12/02/91	12/02/91	255	8.0	12/12/91	12/15/91	CAG
SIO0801100C00L	WWC2*504	12/02/91	12/02/91	117	7.3	12/12/91	12/15/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SI00801200A00L	WWC2*505	12/02/91	12/02/91	238	9.0	12/12/91	12/15/91	CAG
SI00801200B00L	WWC2*506	12/02/91	12/02/91	471	8.2	12/12/91	12/15/91	CAG
SI00801200C00L	WWC2*507	12/02/91	12/02/91	485	7.0	12/12/91	12/15/91	CAG
SI01002100A00L	WWC2*508	12/02/91	12/02/91	241	8.2	12/12/91	12/15/91	CAG
SI01002100B00L	WWC2*509	12/02/91	12/02/91	154	7.7	12/12/91	12/15/91	CAG
SI01002100C00L	WWC2*510	12/02/91	12/02/91	199	8.0	12/12/91	12/15/91	CAG
SI01002200A00L	WWC2*511	12/02/91	12/02/91	221	7.7	12/12/91	12/15/91	CAG
SI01002200B00L	WWC2*512	12/02/91	12/02/91	217	7.7	12/12/91	12/15/91	CAG
SI01002200C00L	WWC2*513	12/02/91	12/02/91	48.1	7.9	12/12/91	12/15/91	CAG
SI01002100A0LD	WWC2*514	12/02/91	12/02/91	221	8.2	12/12/91	12/15/91	CAG
SI01002100B0LD	WWC2*515	12/02/91	12/02/91	131	8.0	12/12/91	12/15/91	CAG
SI01002100C0LD	WWC2*516	12/02/91	12/02/91	214	7.3	12/12/91	12/15/91	CAG
SI01235100A00L	WWC2*527	12/03/91	12/03/91	178	8.0	12/12/91	12/15/91	CAG
SI01235100B00L	WWC2*528	12/03/91	12/03/91	98.8	7.0	12/12/91	12/15/91	CAG
SI01235100C00L	WWC2*529	12/03/91	12/03/91	42.1	7.8	12/12/91	12/15/91	CAG
SI01235200A00L	WWC2*530	12/03/91	12/03/91	266	8.3	12/12/91	12/15/91	CAG
SI01235200B00L	WWC2*531	12/03/91	12/03/91	197	7.8	12/12/91	12/16/91	CAG
SI01235200C00L	WWC2*532	12/03/91	12/03/91	156	8.1	12/12/91	12/16/91	CAG
SI01234100A00L	WWC2*533	12/03/91	12/03/91	306	6.7	12/12/91	12/16/91	CAG
SI01234100B00L	WWC2*534	12/03/91	12/03/91	247	7.7	12/12/91	12/16/91	CAG
SI01234100C00L	WWC2*535	12/03/91	12/03/91	123	7.2	12/12/91	12/16/91	CAG
SI01234200A00L	WWC2*536	12/03/91	12/03/91	470	8.3	12/12/91	12/16/91	CAG
SI01234200B00L	WWC2*537	12/03/91	12/03/91	350	7.6	12/12/91	12/16/91	CAG
SI01234200C00L	WWC2*538	12/03/91	12/03/91	338	7.6	12/12/91	12/16/91	CAG
SI01230100A00L	WWC2*539	12/03/91	12/03/91	741	7.9	12/12/91	12/16/91	CAG
SI01230100B00L	WWC2*540	12/03/91	12/03/91	442	8.0	12/12/91	12/16/91	CAG
SI01230100C00L	WWC2*541	12/03/91	12/03/91	110	7.1	12/12/91	12/16/91	CAG
SI01230200A00L	WWC2*542	12/03/91	12/03/91	232	8.2	12/12/91	12/16/91	CAG
SI01230200B00L	WWC2*543	12/03/91	12/03/91	136	7.3	12/12/91	12/16/91	CAG
SI01230200C00L	WWC2*544	12/03/91	12/03/91	333	7.0	12/12/91	12/16/91	CAG
SI01031100A00L	WWC2*545	12/03/91	12/03/91	38.6	7.9	12/12/91	12/16/91	CAG
SI01031100B00L	WWC2*546	12/03/91	12/03/91	486	7.6	12/12/91	12/16/91	CAG
SI01031100C00L	WWC2*547	12/03/91	12/03/91	288	8.1	12/12/91	12/16/91	CAG
SI01031200A00L	WWC2*548	12/03/91	12/03/91	142	8.1	12/12/91	12/16/91	CAG
SI01031200B00L	WWC2*549	12/03/91	12/03/91	136	8.0	12/12/91	12/16/91	CAG
SI01122100A00L	WWC2*550	12/03/91	12/03/91	374	7.8	12/12/91	12/16/91	CAG
SI01122100B00L	WWC2*551	12/03/91	12/03/91	148	7.2	12/12/91	12/16/91	CAG
SI01122100C00L	WWC2*552	12/03/91	12/03/91	54.2	7.3	12/12/91	12/16/91	CAG
SI01122200A00L	WWC2*553	12/03/91	12/03/91	217	8.2	12/12/91	12/16/91	CAG
SI01122200B00L	WWC2*554	12/03/91	12/03/91	196	7.1	12/12/91	12/16/91	CAG
SI01122200C00L	WWC2*555	12/03/91	12/03/91	127	7.9	12/12/91	12/16/91	CAG
SI01124100A00L	WWC2*556	12/03/91	12/03/91	175	8.1	12/12/91	12/16/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry R

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SIO1124100B00L	WWC2*557	12/03/91	12/03/91	77.8	7.4	12/12/91	12/16/91	CAG
SIO1124100C00L	WWC2*558	12/03/91	12/03/91	19.0	7.9	12/12/91	12/16/91	CAG
SIO1124200A00L	WWC2*559	12/03/91	12/03/91	222	8.3	12/12/91	12/16/91	CAG
SIO1124200B00L	WWC2*560	12/03/91	12/03/91	204	7.3	12/12/91	12/16/91	CAG
SIO1124200C00L	WWC2*561	12/03/91	12/03/91	175	7.9	12/12/91	12/16/91	CAG
SIO0913100A00L	WWC2*562	12/03/91	12/03/91	306	8.0	12/12/91	12/16/91	CAG
SIO0913100B00L	WWC2*563	12/03/91	12/03/91	190	7.9	12/12/91	12/16/91	CAG
SIO0913100C00L	WWC2*564	12/03/91	12/03/91	86.3	7.8	12/12/91	12/16/91	CAG
SIO0913200A00L	WWC2*565	12/03/91	12/03/91	318	7.9	12/12/91	12/16/91	CAG
SIO0913200B00L	WWC2*566	12/03/91	12/03/91	181	7.9	12/12/91	12/16/91	CAG
SIO0913200C00L	WWC2*567	12/03/91	12/03/91	195	7.7	12/12/91	12/16/91	CAG
SIO1211100A00L	WWC2*568	12/03/91	12/03/91	445	7.6	12/12/91	12/16/91	CAG
SIO1211100B00L	WWC2*569	12/03/91	12/03/91	297	7.9	12/12/91	12/16/91	CAG
SIO1211100C00L	WWC2*570	12/03/91	12/03/91	129	7.6	12/12/91	12/16/91	CAG
SIO1211200A00L	WWC2*571	12/03/91	12/03/91	926	8.7	12/12/91	12/16/91	CAG
SIO1211200B00L	WWC2*572	12/03/91	12/03/91	770	8.0	12/12/91	12/16/91	CAG
SIO1211200C00L	WWC2*573	12/03/91	12/03/91	356	7.8	12/12/91	12/16/91	CAG
SWS1029100A00L	WWC2*574	12/03/91	12/03/91	158	8.3	12/12/91	12/16/91	CAG
SWS1029100B00L	WWC2*575	12/03/91	12/03/91	129	7.1	12/12/91	12/16/91	CAG
SWS1029100C00L	WWC2*576	12/03/91	12/03/91	58.9	7.5	12/12/91	12/16/91	CAG
SWS1029200A00L	WWC2*577	12/03/91	12/03/91	283	6.8	12/12/91	12/16/91	CAG
SWS1029200B00L	WWC2*578	12/03/91	12/03/91	31.2	7.6	12/12/91	12/16/91	CAG
SWS1029200C00L	WWC2*579	12/03/91	12/03/91	42.9	8.1	12/12/91	12/16/91	CAG
SIO1031200C00L	WWC2*580	12/03/91	12/03/91	48.7	7.5	12/12/91	12/16/91	CAG
SRE1017100A00L	WWC2*581	12/03/91	12/03/91	64.8	8.2	12/12/91	12/16/91	CAG
SRE1017100B00L	WWC2*582	12/03/91	12/03/91	46.0	7.1	12/12/91	12/16/91	CAG
SRE1017100C00L	WWC2*583	12/03/91	12/03/91	34.1	7.7	12/12/91	12/16/91	CAG
SRE1017200A00L	WWC2*584	12/03/91	12/03/91	1890	8.2	12/12/91	12/16/91	CAG
SRE1017200B00L	WWC2*585	12/03/91	12/03/91	206	6.9	12/12/91	12/16/91	CAG
SRE1017200C00L	WWC2*586	12/03/91	12/03/91	89.3	7.8	12/12/91	12/16/91	CAG
SKE1706100A00L	WWC2*587	12/03/91	12/03/91	85.1	8.3	12/12/91	12/16/91	CAG
SKE1706100B00L	WWC2*588	12/03/91	12/03/91	54.0	8.1	12/12/91	12/16/91	CAG
SKE1706100C00L	WWC2*589	12/03/91	12/03/91	151	7.7	12/12/91	12/16/91	CAG
SKE1706200A00L	WWC2*590	12/03/91	12/03/91	102	8.6	12/12/91	12/16/91	CAG
SKE1706200B00L	WWC2*591	12/03/91	12/03/91	106	7.6	12/12/91	12/16/91	CAG
SKE1706200C00L	WWC2*592	12/03/91	12/03/91	168	7.9	12/12/91	12/16/91	CAG
SKE1702100A00L	WWC2*593	12/03/91	12/03/91	213	7.8	12/12/91	12/16/91	CAG
SKE1702100B00L	WWC2*594	12/03/91	12/03/91	55.7	7.6	12/12/91	12/16/91	CAG
SKE1702100C00L	WWC2*595	12/03/91	12/03/91	90.1	8.1	12/12/91	12/16/91	CAG
SKE1702200A00L	WWC2*596	12/03/91	12/03/91	263	8.1	12/12/91	12/16/91	CAG
SKE1702200B00L	WWC2*597	12/03/91	12/03/91	536	8.4	12/12/91	12/16/91	CAG
SKE1702200C00L	WWC2*598	12/03/91	12/03/91	273	7.7	12/12/91	12/16/91	CAG

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

[illegible] Lilburn Park Road
St. [illegible]is, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMA0819100A00L	WWC2*599	12/03/91	12/03/91	229	7.5	12/12/91	12/16/91	CAG
SMA0819100B00L	WWC2*600	12/03/91	12/03/91	889	7.6	12/12/91	12/16/91	CAG
SMA0819100C00L	WWC2*601	12/03/91	12/03/91	1340	8.1	12/12/91	12/16/91	CAG
SMA0819200B00L	WWC2*602	12/03/91	12/03/91	133	7.5	12/12/91	12/16/91	CAG
SMA0819200B00L	WWC2*603	12/03/91	12/03/91	359	7.4	12/12/91	12/16/91	CAG
SMA0819200C00L	WWC2*604	12/03/91	12/03/91	1010	7.4	12/12/91	12/16/91	CAG
SRE1115100A00L	WWC2*605	12/03/91	12/03/91	324	8.3	12/12/91	12/16/91	CAG
SRE1115100B00L	WWC2*606	12/03/91	12/03/91	358	7.6	12/12/91	12/16/91	CAG
SRE1115100C00L	WWC2*607	12/03/91	12/03/91	112	7.9	12/12/91	12/16/91	CAG
SRE1115200A00L	WWC2*608	12/03/91	12/03/91	320	8.1	12/12/91	12/16/91	CAG
SRE1115200B00L	WWC2*609	12/03/91	12/03/91	229	7.3	12/12/91	12/16/91	CAG
SRE1115200C00L	WWC2*610	12/03/91	12/03/91	81.5	7.6	12/12/91	12/16/91	CAG
SMA1009100A00L	WWC2*611	12/03/91	12/03/91	523	8.7	12/12/91	12/16/91	CAG
SMA1009100B00L	WWC2*612	12/03/91	12/03/91	336	7.4	12/12/91	12/16/91	CAG
SMA1009100C00L	WWC2*613	12/03/91	12/03/91	189	7.2	12/12/91	12/16/91	CAG
SMA1009200A00L	WWC2*614	12/03/91	12/03/91	408	8.4	12/12/91	12/16/91	CAG
SMA1009200B00L	WWC2*615	12/03/91	12/03/91	309	8.2	12/12/91	12/16/91	CAG
SMA1009200C00L	WWC2*616	12/03/91	12/03/91	203	7.6	12/12/91	12/16/91	CAG
SMA1230100A00L	WWC2*617	12/03/91	12/03/91	696	7.9	12/12/91	12/16/91	CAG
SMA1230100B00L	WWC2*618	12/03/91	12/03/91	573	8.2	12/12/91	12/16/91	CAG
SMA1230100C00L	WWC2*619	12/03/91	12/03/91	279	7.7	12/12/91	12/16/91	CAG
SMA1230200A00L	WWC2*620	12/03/91	12/03/91	1080	7.6	12/12/91	12/16/91	CAG
SMA1230200B00L	WWC2*621	12/03/91	12/03/91	573	7.4	12/12/91	12/16/91	CAG
SMA1230200C00L	WWC2*622	12/03/91	12/03/91	313	7.5	12/12/91	12/16/91	CAG
SER1853100A00L	WWC2*623	12/03/91	12/03/91	279	7.2	12/12/91	12/16/91	CAG
SER1853100B00L	WWC2*624	12/03/91	12/03/91	294	7.9	12/12/91	12/16/91	CAG
SER1853100C00L	WWC2*625	12/03/91	12/03/91	245	7.9	12/12/91	12/16/91	CAG
SER1853200A00L	WWC2*626	12/03/91	12/03/91	202	8.1	12/12/91	12/16/91	CAG
SER1853200B00L	WWC2*627	12/03/91	12/03/91	167	8.2	12/12/91	12/16/91	CAG
SER1853200C00L	WWC2*628	12/03/91	12/03/91	122	7.1	12/12/91	12/16/91	CAG
SER1863100A00L	WWC2*629	12/03/91	12/03/91	290	8.3	12/12/91	12/16/91	CAG
SER1863100B00L	WWC2*630	12/03/91	12/03/91	126	7.0	12/12/91	12/16/91	CAG
SER1863100C00L	WWC2*631	12/03/91	12/03/91	75.1	7.7	12/12/91	12/16/91	CAG
SER1863200A00L	WWC2*632	12/03/91	12/03/91	143	8.1	12/12/91	12/16/91	CAG
SER1863200B00L	WWC2*633	12/03/91	12/03/91	157	7.5	12/12/91	12/16/91	CAG
SER1863200C00L	WWC2*634	12/03/91	12/03/91	64.7	7.2	12/12/91	12/16/91	CAG
SGR0820200C00L	WWC2*635	12/05/91	12/05/91	313	7.6	12/12/91	12/16/91	CAG
SGR0904100A00L	WWC2*636	12/05/91	12/05/91	277	8.2	12/12/91	12/16/91	CAG
SGR0904100B00L	WWC2*637	12/05/91	12/05/91	358	8.1	12/12/91	12/16/91	CAG
SGR0904100C00L	WWC2*638	12/05/91	12/05/91	259	8.2	12/12/91	12/16/91	CAG
SGR0904200A00L	WWC2*639	12/05/91	12/05/91	351	8.4	12/12/91	12/16/91	CAG
SGR0904200B00L	WWC2*640	12/05/91	12/05/91	336	7.5	12/12/91	12/16/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4900
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR0904200C00L	WWC2*641	12/05/91	12/05/91	128	7.4	12/12/91	12/16/91	CAG
SGR0911100A00L	WWC2*642	12/05/91	12/05/91	635	6.7	12/12/91	12/16/91	CAG
SGR0911100B00L	WWC2*643	12/05/91	12/05/91	494	7.5	12/12/91	12/16/91	CAG
SGR0911100C00L	WWC2*644	12/05/91	12/05/91	153	7.0	12/12/91	12/16/91	CAG
SGR0911200A00L	WWC2*645	12/05/91	12/05/91	397	8.1	12/12/91	12/16/91	CAG
SGR0911200B00L	WWC2*646	12/05/91	12/05/91	217	7.1	12/12/91	12/16/91	CAG
SGR0911200C00L	WWC2*647	12/05/91	12/05/91	167	7.4	12/12/91	12/16/91	CAG
SED1717100A00L	WWC2*648	12/05/91	12/05/91	739	7.4	12/12/91	12/16/91	CAG
SED1717100B00L	WWC2*649	12/05/91	12/05/91	985	8.2	12/12/91	12/16/91	CAG
SED1717100C00L	WWC2*650	12/05/91	12/05/91	533	7.6	12/12/91	12/16/91	CAG
SED1717200A00L	WWC2*651	12/05/91	12/05/91	1460	8.5	12/12/91	12/16/91	CAG
SED1717200B00L	WWC2*652	12/05/91	12/05/91	1720	7.8	12/12/91	12/16/91	CAG
SED1717200C00L	WWC2*653	12/05/91	12/05/91	381	8.2	12/12/91	12/16/91	CAG
SED1707100A00L	WWC2*654	12/05/91	12/05/91	1100	8.5	12/12/91	12/16/91	CAG
SED1707100B00L	WWC2*655	12/05/91	12/05/91	571	7.9	12/12/91	12/16/91	CAG
SED1707100C00L	WWC2*656	12/05/91	12/05/91	305	8.4	12/12/91	12/16/91	CAG
SGR0807100A00L	WWC2*657	12/05/91	12/05/91	3110	7.8	12/12/91	12/16/91	CAG
SGR0807100B00L	WWC2*658	12/05/91	12/05/91	1870	7.8	12/12/91	12/16/91	CAG
SRO0807100C00L	WWC2*659	12/05/91	12/05/91	616	6.7	12/12/91	12/16/91	CAG
SGR0807200A00L	WWC2*660	12/05/91	12/05/91	593	7.9	12/12/91	12/16/91	CAG
SGR0807200B00L	WWC2*661	12/05/91	12/05/91	659	7.6	12/12/91	12/16/91	CAG
SGR0807200C00L	WWC2*662	12/05/91	12/05/91	172	8.2	12/12/91	12/16/91	CAG
SGR0808100A00L	WWC2*663	12/05/91	12/05/91	352	8.0	12/12/91	12/16/91	CAG
SGR0808100B00L	WWC2*664	12/05/91	12/05/91	353	7.9	12/12/91	12/16/91	CAG
SGR0808100C00L	WWC2*665	12/05/91	12/05/91	175	7.6	12/12/91	12/16/91	CAG
SGR0808200A00L	WWC2*666	12/05/91	12/05/91	148	8.2	12/12/91	12/16/91	CAG
SGR0808200B00L	WWC2*667	12/05/91	12/05/91	91.9	7.9	12/12/91	12/16/91	CAG
SGR0808200C00L	WWC2*668	12/05/91	12/05/91	49.3	7.9	12/12/91	12/16/91	CAG
SGR0811100A00L	WWC2*669	12/05/91	12/05/91	391	7.8	12/12/91	12/16/91	CAG
SGR0811100B00L	WWC2*670	12/05/91	12/05/91	347	7.9	12/12/91	12/16/91	CAG
SGR0811100C00L	WWC2*671	12/05/91	12/05/91	187	8.2	12/12/91	12/16/91	CAG
SGR0811200A00L	WWC2*672	12/05/91	12/05/91	539	9.4	12/12/91	12/16/91	CAG
SGR0811200B00L	WWC2*673	12/05/91	12/05/91	645	9.4	12/12/91	12/16/91	CAG
SGR0811200C00L	WWC2*674	12/05/91	12/05/91	2840	10.1	12/12/91	12/16/91	CAG
SGR0820100A00L	WWC2*675	12/05/91	12/05/91	35.5	7.2	12/12/91	12/16/91	CAG
SGR0820100B00L	WWC2*676	12/05/91	12/05/91	12.0	7.3	12/12/91	12/16/91	CAG
SGR0820100C00L	WWC2*677	12/05/91	12/05/91	12.1	7.7	12/12/91	12/16/91	CAG
SGR0820200A00L	WWC2*678	12/05/91	12/05/91	270	8.5	12/12/91	12/16/91	CAG
SGR0820200B00L	WWC2*679	12/05/91	12/05/91	247	7.8	12/12/91	12/16/91	CAG
SST2039100A00L	WWC2*681	12/05/91	12/05/91	505	8.6	12/12/91	12/16/91	CAG
SST2039100B00L	WWC2*682	12/05/91	12/05/91	454	7.8	12/12/91	12/16/91	CAG
SST2039100C00L	WWC2*683	12/05/91	12/05/91	195	8.1	12/12/91	12/16/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone 314 567-4600
Fax 314 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SST2039200A00L	WWC2*684	12/05/91	12/05/91	789	7.7	12/12/91	12/16/91	CAG
SST2039200B00L	WWC2*685	12/05/91	12/05/91	1180	8.0	12/12/91	12/16/91	CAG
SST2039200C00L	WWC2*686	12/05/91	12/05/91	439	8.0	12/12/91	12/16/91	CAG
SST1705100A00L	WWC2*687	12/05/91	12/05/91	928	7.6	12/12/91	12/16/91	CAG
STT1705100B00L	WWC2*688	12/05/91	12/05/91	751	7.7	12/12/91	12/16/91	CAG
SST1705100C00L	WWC2*689	12/05/91	12/05/91	309	7.4	12/12/91	12/16/91	CAG
SST1705200A00L	WWC2*690	12/05/91	12/05/91	475	7.7	12/12/91	12/16/91	CAG
SST1705200B00L	WWC2*691	12/05/91	12/05/91	258	7.4	12/12/91	12/16/91	CAG
SST1705200C00L	WWC2*692	12/05/91	12/05/91	505	7.5	12/13/91	12/16/91	JWC
SDE2000200A00L	WWC2*693	12/05/91	12/05/91	139	8.0	12/13/91	12/16/91	JWC
SDE2000200B00L	WWC2*694	12/05/91	12/05/91	68.5	7.9	12/13/91	12/16/91	JWC
SDE2000200C00L	WWC2*695	12/05/91	12/05/91	85.8	6.8	12/13/91	12/16/91	JWC
SDE2000100A00L	WWC2*696	12/05/91	12/05/91	133	7.8	12/13/91	12/16/91	JWC
SDE2000100B00L	WWC2*697	12/05/91	12/05/91	27.5	7.8	12/13/91	12/16/91	JWC
SDE2000100C00L	WWC2*698	12/05/91	12/05/91	20.4	6.9	12/13/91	12/16/91	JWC
SBE2038100A00L	WWC2*699	12/05/91	12/05/91	304	7.6	12/13/91	12/16/91	JWC
SBE2038100B00L	WWC2*700	12/05/91	12/05/91	253	7.4	12/13/91	12/16/91	JWC
SBE2038100C00L	WWC2*701	12/05/91	12/05/91	209	7.6	12/13/91	12/16/91	JWC
SBE2125100A00L	WWC2*702	12/05/91	12/05/91	331	7.2	12/13/91	12/16/91	JWC
SBE2125100B00L	WWC2*703	12/05/91	12/05/91	229	7.2	12/13/91	12/16/91	JWC
SBE2125100C00L	WWC2*704	12/05/91	12/05/91	95.4	7.8	12/13/91	12/16/91	JWC
SBE2125200A00L	WWC2*705	12/05/91	12/05/91	300	8.1	12/13/91	12/16/91	JWC
SBE2125200B00L	WWC2*706	12/05/91	12/05/91	251	7.8	12/13/91	12/16/91	JWC
SBE2125200C00L	WWC2*707	12/05/91	12/05/91	351	7.8	12/13/91	12/16/91	JWC
SNI0915200A00L	WWC2*708	12/05/91	12/05/91	88.1	8.0	12/13/91	12/16/91	JWC
SNI0915200B00L	WWC2*709	12/05/91	12/05/91	59.8	7.8	12/13/91	12/16/91	JWC
SNI0915200C00L	WWC2*710	12/05/91	12/05/91	43.7	8.4	12/13/91	12/16/91	JWC
SNI1247100A00L	WWC2*711	12/05/91	12/05/91	341	7.7	12/13/91	12/16/91	JWC
SNI1247100A0LD	WWC2*712	12/05/91	12/05/91	369	7.7	12/13/91	12/16/91	JWC
SNI1247100B00L	WWC2*713	12/05/91	12/05/91	175	7.5	12/13/91	12/16/91	JWC
SNI1247100B0LD	WWC2*714	12/05/91	12/05/91	188	7.3	12/13/91	12/16/91	JWC
SNI1247100C00L	WWC2*715	12/05/91	12/05/91	42.7	7.5	12/13/91	12/16/91	JWC
SNI1247100C0LD	WWC2*716	12/05/91	12/05/91	51.1	7.6	12/13/91	12/16/91	JWC
SNI1247200A00L	WWC2*717	12/05/91	12/05/91	714	7.7	12/13/91	12/16/91	JWC
SNI1247200B00L	WWC2*718	12/05/91	12/05/91	323	6.9	12/13/91	12/16/91	JWC
SNI1247200C00L	WWC2*719	12/05/91	12/05/91	27.1	7.2	12/13/91	12/16/91	JWC
SBR2023100A00L	WWC2*720	12/06/91	12/06/91	600	8.6	12/13/91	12/16/91	JWC
SBR2023100B00L	WWC2*721	12/06/91	12/06/91	452	8.0	12/13/91	12/16/91	JWC
SBR2023100C00L	WWC2*722	12/06/91	12/06/91	135	6.4	12/13/91	12/16/91	JWC
SBR2023200A00L	WWC2*723	12/06/91	12/06/91	1270	8.1	12/13/91	12/16/91	JWC
SBR2023200B00L	WWC2*724	12/06/91	12/06/91	673	7.7	12/13/91	12/16/91	JWC
SBR2023200C00L	WWC2*725	12/06/91	12/06/91	556	7.7	12/13/91	12/16/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SBR2014100A00L	WWC2*726	12/06/91	12/06/91	646	7.7	12/13/91	12/16/91	JWC
SBR2014100B00L	WWC2*727	12/06/91	12/06/91	471	7.2	12/13/91	12/16/91	JWC
SBR2014100C00L	WWC2*728	12/06/91	12/06/91	294	7.0	12/13/91	12/16/91	JWC
SBR2014200A00L	WWC2*729	12/06/91	12/06/91	635	8.4	12/13/91	12/16/91	JWC
SBR2014200B00L	WWC2*730	12/06/91	12/06/91	514	7.9	12/13/91	12/16/91	JWC
SBR2014200C00L	WWC2*731	12/06/91	12/06/91	275	7.4	12/13/91	12/16/91	JWC
SOH2018100A00L	WWC2*732	12/06/91	12/06/91	1010	8.3	12/13/91	12/16/91	JWC
SOH2018100B00L	WWC2*733	12/06/91	12/06/91	739	7.2	12/13/91	12/16/91	JWC
SOH2018100C00L	WWC2*734	12/06/91	12/06/91	305	7.8	12/13/91	12/16/91	JWC
SOH2018200A00L	WWC2*735	12/06/91	12/06/91	764	9.2	12/13/91	12/16/91	JWC
SOH2018200B00L	WWC2*736	12/06/91	12/06/91	515	8.0	12/13/91	12/16/91	JWC
SOH2018200C00L	WWC2*737	12/06/91	12/06/91	202	6.9	12/13/91	12/16/91	JWC
SOH2014100A00L	WWC2*738	12/06/91	12/06/91	512	7.7	12/13/91	12/16/91	JWC
SOH2014100B00L	WWC2*739	12/06/91	12/06/91	300	6.7	12/13/91	12/16/91	JWC
SOH2014100C00L	WWC2*740	12/06/91	12/06/91	187	7.1	12/13/91	12/16/91	JWC
SOH2014200A00L	WWC2*741	12/06/91	12/06/91	910	7.5	12/13/91	12/16/91	JWC
SOH2014200B00L	WWC2*742	12/06/91	12/06/91	739	8.0	12/13/91	12/16/91	JWC
SOH2014200C00L	WWC2*743	12/06/91	12/06/91	568	7.3	12/13/91	12/16/91	JWC
SWT2504100A00L	WWC2*744	12/06/91	12/06/91	373	7.2	12/13/91	12/16/91	JWC
SWT2504100B00L	WWC2*745	12/06/91	12/06/91	416	6.9	12/13/91	12/16/91	JWC
SWT2504100C00L	WWC2*746	12/06/91	12/06/91	423	6.5	12/13/91	12/16/91	JWC
SWT2504200A00L	WWC2*747	12/06/91	12/06/91	807	7.5	12/13/91	12/16/91	JWC
SWT2504200B00L	WWC2*748	12/06/91	12/06/91	1150	7.8	12/13/91	12/16/91	JWC
SWT2504200C00L	WWC2*749	12/06/91	12/06/91	740	8.2	12/13/91	12/16/91	JWC
SWT2504200A0LM	WWC2*750	12/06/91	12/06/91	2470	8.3	12/13/91	12/16/91	JWC
SWT2504200B0LM	WWC2*751	12/06/91	12/06/91	1200J	8.6	12/13/91	12/16/91	JWC
SWT2504200C0LM	WWC2*752	12/06/91	12/06/91	2350	8.8	12/13/91	12/16/91	JWC
SWT2504200A0LX	WWC2*753	12/06/91	12/06/91	1120	8.5	12/13/91	12/16/91	JWC
SWT2504200B0LX	WWC2*754	12/06/91	12/06/91	1130	9.0	12/13/91	12/16/91	JWC
SWT2504200C0LX	WWC2*755	12/06/91	12/06/91	854	8.2	12/13/91	12/16/91	JWC
SWT2508100A00L	WWC2*756	12/06/91	12/06/91	396	7.8	12/13/91	12/16/91	JWC
SWT2508100B00L	WWC2*757	12/06/91	12/06/91	360	7.9	12/13/91	12/16/91	JWC
SWT2508100C00L	WWC2*758	12/06/91	12/06/91	253	7.7	12/13/91	12/16/91	JWC
SWT2508200A00L	WWC2*759	12/06/91	12/06/91	211	8.1	12/13/91	12/16/91	JWC
SWT2508200B00L	WWC2*760	12/06/91	12/06/91	462	7.9	12/13/91	12/16/91	JWC
SWT2508200C00L	WWC2*761	12/06/91	12/06/91	525	7.0	12/13/91	12/16/91	JWC
SWT2510100A00L	WWC2*762	12/06/91	12/06/91	586	8.1	12/13/91	12/16/91	JWC
SWT2510100B00L	WWC2*763	12/06/91	12/06/91	424	7.1	12/13/91	12/16/91	JWC
SWT2510100C00L	WWC2*764	12/06/91	12/06/91	108	7.9	12/13/91	12/16/91	JWC
SWT2510200A00L	WWC2*765	12/06/91	12/06/91	943	7.8	12/13/91	12/16/91	JWC
SWT2510200B00L	WWC2*766	12/06/91	12/06/91	807	7.3	12/13/91	12/16/91	JWC
SWT2510200C00L	WWC2*767	12/06/91	12/06/91	399	7.5	12/13/91	12/16/91	JWC

Environmental Science & Engineering, Inc

St Louis Chemistry Laboratory

1865 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION. WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SWT2612100A00L	WWC2*768	12/06/91	12/06/91	738	8.4	12/13/91	12/16/91	JWC
SWT2612100B00L	WWC2*769	12/06/91	12/06/91	183	8.1	12/13/91	12/16/91	JWC
SWT2612100C00L	WWC2*770	12/06/91	12/06/91	181	8.0	12/13/91	12/16/91	JWC
SWT2612200A00L	WWC2*771	12/06/91	12/06/91	232	8.2	12/13/91	12/16/91	JWC
SWT2612200B00L	WWC2*772	12/06/91	12/06/91	215	6.7	12/13/91	12/16/91	JWC
SWT2612200C00L	WWC2*773	12/06/91	12/06/91	111	7.0	12/13/91	12/16/91	JWC
SJE2002100A00L	WWC2*774	12/06/91	12/06/91	335	7.3	12/13/91	12/16/91	JWC
SJE2002100B00L	WWC2*775	12/06/91	12/06/91	217	7.4	12/13/91	12/16/91	JWC
SJE2002100C00L	WWC2*776	12/06/91	12/06/91	220	6.8	12/13/91	12/16/91	JWC
SJE2002200A00L	WWC2*777	12/06/91	12/06/91	381	7.7	12/13/91	12/16/91	JWC
SJE2002200B00L	WWC2*778	12/06/91	12/06/91	364	8.0	12/13/91	12/16/91	JWC
SJE2002200C00L	WWC2*779	12/06/91	12/06/91	129	7.2	12/13/91	12/16/91	JWC
SDE1732100A00L	WWC2*780	12/06/91	12/06/91	605	7.7	12/13/91	12/16/91	JWC
SDE1732100B00L	WWC2*781	12/06/91	12/06/91	320	7.1	12/13/91	12/16/91	JWC
SDE1732100C00L	WWC2*782	12/06/91	12/06/91	146	6.6	12/13/91	12/16/91	JWC
SDE1732200A00L	WWC2*783	12/06/91	12/06/91	683	7.7	12/13/91	12/16/91	JWC
SDE1732200B00L	WWC2*784	12/06/91	12/06/91	640	7.1	12/13/91	12/16/91	JWC
SDE1732200C00L	WWC2*785	12/06/91	12/06/91	137	7.6	12/13/91	12/16/91	JWC
SOL1646100A00L	WWC2*786	12/06/91	12/06/91	241	7.5	12/13/91	12/16/91	JWC
SOL1046100B00L	WWC2*787	12/06/91	12/06/91	386	7.4	12/13/91	12/16/91	JWC
SOL1646100C00L	WWC2*788	12/06/91	12/06/91	116	7.4	12/13/91	12/16/91	JWC
SOL1646200A00L	WWC2*789	12/06/91	12/06/91	509	8.1	12/13/91	12/16/91	JWC
SOL1646200B00L	WWC2*790	12/06/91	12/06/91	365	7.3	12/13/91	12/16/91	JWC
SOL1646200C00L	WWC2*791	12/06/91	12/06/91	142	7.1	12/13/91	12/16/91	JWC
SOL1647100A00L	WWC2*792	12/06/91	12/06/91	316	7.1	12/18/91	12/31/91	JWC
SOL1647100B00L	WWC2*793	12/06/91	12/06/91	258	7.1	12/18/91	12/31/91	JWC
SOL1647100C00L	WWC2*794	12/06/91	12/06/91	438	7.9	12/18/91	12/31/91	JWC
SSP1602100A00L	WWC2*795	12/06/91	12/06/91	265	7.5	12/18/91	12/31/91	JWC
SSP1602100B00L	WWC2*796	12/06/91	12/06/91	273	7.2	12/18/91	12/31/91	JWC
SSP1602100C00L	WWC2*797	12/06/91	12/06/91	142	7.5	12/18/91	12/31/91	JWC
SSP1602200A00L	WWC2*798	12/06/91	12/06/91	388	7.7	12/18/91	12/31/91	JWC
SSP1602200B00L	WWC2*799	12/06/91	12/06/91	389	7.3	12/18/91	12/31/91	JWC
SSP1602200C00L	WWC2*800	12/06/91	12/06/91	601	7.5	12/18/91	12/31/91	JWC
SSP1614100A00L	WWC2*801	12/06/91	12/06/91	360	7.5	12/18/91	12/31/91	JWC
SSP1614100B00L	WWC2*802	12/06/91	12/06/91	257	8.0	12/18/91	12/31/91	JWC
SSP1614100C00L	WWC2*803	12/06/91	12/06/91	128	7.6	12/18/91	12/31/91	JWC
SSP1614200A00L	WWC2*804	12/06/91	12/06/91	431	8.3	12/18/91	12/31/91	JWC
SPP1614200B00L	WWC2*805	12/06/91	12/06/91	403	8.0	12/18/91	12/31/91	JWC
SSP1614200C00L	WWC2*806	12/06/91	12/06/91	327	8.3	12/18/91	12/31/91	JWC
SNI0807100A00L	WWC2*807	12/06/91	12/06/91	464	7.8	12/18/91	12/31/91	JWC
SNI0807100B00L	WWC2*808	12/06/91	12/06/91	203	7.4	12/18/91	12/31/91	JWC
SNI0807100C00L	WWC2*809	12/06/91	12/06/91	130	8.0	12/18/91	12/31/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SNI0807200A00L	WWC2*810	12/06/91	12/06/91	405	8.3	12/18/91	12/31/91	JWC
SNI0807200B00L	WWC2*811	12/06/91	12/06/91	241	7.8	12/18/91	12/31/91	JWC
SNI0807200C00L	WWC2*812	12/06/91	12/06/91	823	7.2	12/18/91	12/31/91	JWC
SNI0830100A00L	WWC2*813	12/06/91	12/06/91	864	7.5	12/18/91	12/31/91	JWC
SNI0830100B00L	WWC2*814	12/06/91	12/06/91	624	9.8	12/18/91	12/31/91	JWC
SNI0830100C00L	WWC2*815	12/06/91	12/06/91	178	7.8	12/18/91	12/31/91	JWC
SNI0830200A00L	WWC2*816	12/06/91	12/06/91	693	8.3	12/18/91	12/31/91	JWC
SNI0830200B00L	WWC2*817	12/06/91	12/06/91	659	7.6	12/18/91	12/31/91	JWC
SNI0830200C00L	WWC2*818	12/06/91	12/06/91	1400	7.1	12/18/91	12/31/91	JWC
SMC0909100A00L	WWC2*819	12/09/91	12/09/91	150	7.5	12/18/91	12/31/91	JWC
SMC0909100B00L	WWC2*820	12/09/91	12/09/91	101	8.1	12/18/91	12/31/91	JWC
SMC0909100C00L	WWC2*821	12/09/91	12/09/91	20.6	7.2	12/18/91	12/31/91	JWC
SMC0909200A00L	WWC2*822	12/09/91	12/09/91	972	8.5	12/18/91	12/31/91	JWC
SMC0909200B00L	WWC2*823	12/09/91	12/09/91	536	8.4	12/18/91	12/31/91	JWC
SMC0909200C00L	WWC2*824	12/09/91	12/09/91	267	6.8	12/18/91	12/31/91	JWC
SMC0909100A0LD	WWC2*825	12/09/91	12/09/91	154	7.7	12/18/91	12/31/91	JWC
SMC0909100B0LD	WWC2*826	12/09/91	12/09/91	89.2	7.7	12/18/91	12/31/91	JWC
SMC0909100C0LD	WWC2*827	12/09/91	12/09/91	33.6	7.6	12/18/91	12/31/91	JWC
SWS0811100A00L	WWC2*828	12/09/91	12/09/91	340	8.0	12/18/91	12/31/91	JWC
SWS0811100B00L	WWC2*829	12/09/91	12/09/91	1440	8.1	12/18/91	12/31/91	JWC
SWS0811100C00L	WWC2*830	12/09/91	12/09/91	128	7.0	12/18/91	12/31/91	JWC
SWS0811200A00L	WWC2*831	12/09/91	12/09/91	878 J	7.9	12/18/91	12/31/91	JWC
SWS0811200B00L	WWC2*832	12/09/91	12/09/91	690	8.0	12/18/91	12/31/91	JWC
SWS0811200C00L	WWC2*833	12/09/91	12/09/91	541	8.1	12/18/91	12/31/91	JWC
SWS0811100A0LD	WWC2*834	12/09/91	12/09/91	305	8.7	12/18/91	12/31/91	JWC
SWS0811100B0LD	WWC2*835	12/09/91	12/09/91	241	6.8	12/18/91	12/31/91	JWC
SWS0811100C0LD	WWC2*836	12/09/91	12/09/91	138	7.2	12/18/91	12/31/91	JWC
SWS1013100A00L	WWC2*837	12/09/91	12/09/91	498	7.4	12/18/91	12/31/91	JWC
SWS1013100B00L	WWC2*838	12/09/91	12/09/91	233	7.7	12/18/91	12/31/91	JWC
SWS1013100C00L	WWC2*839	12/09/91	12/09/91	148	6.9	12/18/91	12/31/91	JWC
SWS1013200A00L	WWC2*840	12/09/91	12/09/91	283	8.4	12/18/91	12/31/91	JWC
SWS1013200B00L	WWC2*841	12/09/91	12/09/91	170	8.1	12/18/91	12/31/91	JWC
SWS1013200C00L	WWC2*842	12/09/91	12/09/91	220	7.8	12/18/91	12/31/91	JWC
SWS1203100A00L	WWC2*843	12/09/91	12/09/91	187	7.6	12/18/91	12/31/91	JWC
SWS1203100B00L	WWC2*844	12/09/91	12/09/91	101	7.9	12/18/91	12/31/91	JWC
SWS1203100C00L	WWC2*845	12/09/91	12/09/91	53.8	7.9	12/18/91	12/31/91	JWC
SWS1203200A00L	WWC2*846	12/09/91	12/09/91	643	7.9	12/18/91	12/31/91	JWC
SWS1203200B00L	WWC2*847	12/09/91	12/09/91	102	7.4	12/18/91	12/31/91	JWC
SWS1203200C00L	WWC2*848	12/09/91	12/09/91	86.4	6.6	12/18/91	12/31/91	JWC
SIO1238100A00L	WWC2*849	12/09/91	12/09/91	334	7.7	12/18/91	12/31/91	JWC
SIO1238100B00L	WWC2*850	12/09/91	12/09/91	431	7.8	12/18/91	12/31/91	JWC
SIO1238100C00L	WWC2*851	12/09/91	12/09/91	299	7.9	12/18/91	12/31/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO1238200A00L	WWC2*852	12/09/91	12/09/91	373	7.9	12/18/91	12/31/91	JWC
SIO1238200B00L	WWC2*853	12/09/91	12/09/91	192	7.8	12/18/91	12/31/91	JWC
SIO1238200C00L	WWC2*854	12/09/91	12/09/91	117	7.4	12/18/91	12/31/91	JWC
SIO1408100A00L	WWC2*855	12/09/91	12/09/91	1300	7.5	12/18/91	12/31/91	JWC
SIO1408100B00L	WWC2*856	12/09/91	12/09/91	598	7.7	12/18/91	12/31/91	JWC
SIO1408100C00L	WWC2*857	12/09/91	12/09/91	670	7.7	12/18/91	12/31/91	JWC
SIO1408200A00L	WWC2*858	12/09/91	12/09/91	472	8.0	12/18/91	12/31/91	JWC
SIO1408200B00L	WWC2*859	12/09/91	12/09/91	779	7.7	12/18/91	12/31/91	JWC
SIO1408200C00L	WWC2*860	12/09/91	12/09/91	420	7.8	12/18/91	12/31/91	JWC
SIO1408100A0LD	WWC2*861	12/09/91	12/09/91	643	7.8	12/18/91	12/31/91	JWC
SIO1408100B0LD	WWC2*862	12/09/91	12/09/91	702	8.4	12/18/91	12/31/91	JWC
SIO1408100C0LD	WWC2*863	12/09/91	12/09/91	611	8.4	12/18/91	12/31/91	JWC
SME0618100A00L	WWC2*864	12/09/91	12/09/91	261	7.5	12/18/91	12/31/91	JWC
SME0618100B00L	WWC2*865	12/09/91	12/09/91	184	7.7	12/18/91	12/31/91	JWC
SME0618100C00L	WWC2*866	12/09/91	12/09/91	262	7.5	12/18/91	12/31/91	JWC
SME0618200A00L	WWC2*867	12/09/91	12/09/91	407	7.6	12/18/91	12/31/91	JWC
SME0618200B00L	WWC2*868	12/09/91	12/09/91	307	7.3	12/18/91	12/31/91	JWC
SME0618200C00L	WWC2*869	12/09/91	12/09/91	678	7.5	12/18/91	12/31/91	JWC
SME0618200A0LM	WWC2*870	12/09/91	12/09/91	493	7.6	12/18/91	12/31/91	JWC
SME0618200B0LM	WWC2*871	12/09/91	12/09/91	109 J	8.3	12/18/91	12/31/91	JWC
SME0618200C0LM	WWC2*872	12/09/91	12/09/91	673	8.6	12/18/91	12/31/91	JWC
SME0618200A0LX	WWC2*873	12/09/91	12/09/91	505	7.8	12/18/91	12/31/91	JWC
SME0618200B0LX	WWC2*874	12/09/91	12/09/91	399	8.1	12/18/91	01/01/92	JWC
SME0618200C0LX	WWC2*875	12/09/91	12/09/91	968	7.9	12/18/91	01/01/92	JWC
SST0814100A00L	WWC2*876	12/09/91	12/09/91	1210	8.2	12/18/91	01/01/92	JWC
SST0814100B00L	WWC2*877	12/09/91	12/09/91	484	7.3	12/18/91	01/01/92	JWC
SST0814100C00L	WWC2*878	12/09/91	12/09/91	1330	7.2	12/18/91	01/01/92	JWC
SST0814200A00L	WWC2*879	12/09/91	12/09/91	702	8.1	12/18/91	01/01/92	JWC
SST0814200B00L	WWC2*880	12/09/91	12/09/91	845	7.5	12/18/91	01/01/92	JWC
SST0814200C00L	WWC2*881	12/09/91	12/09/91	320	7.9	12/18/91	01/01/92	JWC
SST0814200A0LM	WWC2*882	12/09/91	12/09/91	668	8.0	12/18/91	01/01/92	JWC
SST0814200B0LM	WWC2*883	12/09/91	12/09/91	829	8.0	12/18/91	01/01/92	JWC
SST0814200C0LM	WWC2*884	12/09/91	12/09/91	127	6.9	12/18/91	01/01/92	JWC
SST0814200A0LX	WWC2*885	12/09/91	12/09/91	744	8.1	12/18/91	01/01/92	JWC
SST0814200B0LX	WWC2*886	12/09/91	12/09/91	906	8.0	12/18/91	01/01/92	JWC
SST0814200C0LX	WWC2*887	12/09/91	12/09/91	241	7.6	12/18/91	01/01/92	JWC
SGR1327100A00L	WWC2*888	12/09/91	12/09/91	1550	8.6	12/18/91	01/01/92	JWC
SGR1327100B00L	WWC2*889	12/09/91	12/09/91	1310	7.7	12/18/91	01/01/92	JWC
SGR1327100C00L	WWC2*890	12/09/91	12/09/91	843	7.6	12/18/91	01/01/92	JWC
SGR1327200A00L	WWC2*891	12/09/91	12/09/91	593 J	8.0	12/18/91	12/31/91	JWC
SGR1327200B00L	WWC2*892	12/09/91	12/09/91	350	7.8	12/18/91	01/01/92	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re:

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-23-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR1327200C00L	WWC2*893	12/09/91	12/09/91	57.9	7.4	12/18/91	01/01/92	JWC
SCL1929100A00L	WWC2*894	12/09/91	12/09/91	594	7.2	12/18/91	01/01/92	JWC
SCL1929100B00L	WWC2*895	12/09/91	12/09/91	313	6.8	12/18/91	01/01/92	JWC
SCL1929100C00L	WWC2*896	12/09/91	12/09/91	146	7.5	12/18/91	01/01/92	JWC
SCL1929100A0LD	WWC2*897	12/09/91	12/09/91	687	7.5	12/18/91	01/01/92	JWC
SCL1929100B0LD	WWC2*898	12/09/91	12/09/91	318	7.6	12/18/91	01/01/92	JWC
SCL1929100C0LD	WWC2*899	12/09/91	12/09/91	149	7.3	12/18/91	01/01/92	JWC
SCL1929200A00L	WWC2*900	11/20/91	12/09/91	591	7.3	12/18/91	01/01/92	JWC
SCL1929200B00L	WWC2*901	11/20/91	12/09/91	668	7.0	12/18/91	01/01/92	JWC
SCL1929200C00L	WWC2*902	11/20/91	12/09/91	615	7.5	12/18/91	01/01/92	JWC

QC SUMMARY

LEGEND

STOR*METH - storet*method code. Used as a unique identification of the analytical parameter.

BATCH - analytical data batch identification.

DATE - analysis date.

FOUND (method blank) - quantitated concentration determined to be in the method blank.

FOUND (continuing calibration verification) - quantitated concentration determined to be in the CCV sample.

FOUND (standard matrix spike) - quantitated concentration determined to be in the standard matrix spike.

FOUND (sample matrix spike) - the difference in the quantitated concentration in the sample matrix spike and the UNSPIKED sample.

UNSPIKED (sample matrix spike) - quantitated concentration determined to be in the sample prior to spike fortification.

R.P.D. - replicate percent difference.

R.P.D. CRITERIA - R.P.D. not to be exceeded.

TARGET - the calculated concentration of the analyte in the spike or QC sample. The TARGET may vary from sample to sample based on sample weight, and moisture content. This concentration is the benchmark to which the FOUND concentrations are compared.

R.P.D.*1 - default reference when RPD cannot be calculated due to the spike sample I.D. used in the data batch.

JFG/pl/REPORT/WWC.LEG

Method Blank Sample Summary

AME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
OISTURE	%WET WT	70320*S1	S6567	MB*NONE*1	12/05/91	0.0	
OISTURE	%WET WT			MB*NONE*2		0.0	
OISTURE	%WET WT			MB*NONE*3		0.0	
OISTURE	%WET WT			MB*NONE*4		0.0	
OISTURE	%WET WT			MB*NONE*5		0.0	
OISTURE	%WET WT		S6583	MB*NONE*1	12/06/91	0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
OISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT		S6585	MB*NONE*1	12/07/91	0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT		S6613	MB*NONE*1	12/12/91	0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT			MB*NONE*4		0.0	
)ISTURE	%WET WT			MB*NONE*5		0.0	
)ISTURE	%WET WT			MB*NONE*6		0.0	
)ISTURE	%WET WT			MB*NONE*7		0.0	
)ISTURE	%WET WT		S6636	MB*NONE*1		0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT			MB*NONE*4		0.0	
)ISTURE	%WET WT			MB*NONE*5		0.0	
)ISTURE	%WET WT			MB*NONE*6		0.0	
)ISTURE	%WET WT			MB*NONE*7		0.0	
)ISTURE	%WET WT			MB*NONE*8		0.0	
)ISTURE	%WET WT			MB*NONE*9		0.0	
)ISTURE	%WET WT			MB*NONE*10		0.0	
)ISTURE	%WET WT			MB*NONE*11		0.0	
)ISTURE	%WET WT		S6662	MB*NONE*1	12/16/91	0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT			MB*NONE*4		0.0	
)ISTURE	%WET WT			MB*NONE*5		0.0	
)ISTURE	%WET WT			MB*NONE*6		0.0	
)ISTURE	%WET WT		S6680	MB*NONE*1	12/19/91	0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT			MB*NONE*4		0.0	
)ISTURE	%WET WT			MB*NONE*5		0.0	
)ISTURE	%WET WT		S6681	MB*NONE*1		0.0	
)ISTURE	%WET WT			MB*NONE*2		0.0	
)ISTURE	%WET WT			MB*NONE*3		0.0	
)ISTURE	%WET WT			MB*NONE*4		0.0	
)ISTURE	%WET WT			MB*NONE*5		0.0	
EAD	MG/KG-DRY	1051*SMILS	S6565	MB*NONE*1	12/10/91	0.0	
EAD	MG/KG-DRY			MB*NONE*2		5.51	(1)
EAD	MG/KG-DRY			MB*NONE*3		0.01	
EAD	MG/KG-DRY			MB*NONE*4		0.02	
EAD	MG/KG-DRY			MB*NONE*5		0.004	
EAD	MG/KG-DRY		S6581	MB*NONE*1		0.02	
EAD	MG/KG-DRY			MB*NONE*2		0.03	
EAD	MG/KG-DRY			MB*NONE*3		0.05	
EAD	MG/KG-DRY			MB*NONE*4		0.03	
E	MG/KG-DRY			MB*NONE*5		0.03	
E	MG/KG-DRY			MB*NONE		0.04	

Method Blank Sample Summary

AME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
EAD	MG/KG-DRY	1051=SMTLS	S6581	MB=NONE=7	12/10/91	0.02	
EAD	MG/KG-DRY			MB=NONE=8		0.006	
EAD	MG/KG-DRY		S6612	MB=NONE=1	12/12/91	0.004	
EAD	MG/KG-DRY			MB=NONE=2		0.01	
EAD	MG/KG-DRY			MB=NONE=3		0.01	
EAD	MG/KG-DRY			MB=NONE=4		0.0	
EAD	MG/KG-DRY			MB=NONE=5		0.007	
EAD	MG/KG-DRY			MB=NONE=6		0.007	
EAD	MG/KG-DRY			MB=NONE=7		0.004	
EAD	MG/KG-DRY			MB=NONE=8		0.01	
EAD	MG/KG-DRY		S6625	MB=NONE=11	12/13/91	0.007	
EAD	MG/KG-DRY			MB=NONE=2		0.01	
EAD	MG/KG-DRY			MB=NONE=3		0.0	
EAD	MG/KG-DRY			MB=NONE=4		0.009	
EAD	MG/KG-DRY		S6627	MB=NONE=5	12/14/91	0.0005	
EAD	MG/KG-DRY			MB=NONE=6		0.0	
EAD	MG/KG-DRY			MB=NONE=7		0.007	
EAD	MG/KG-DRY		S6634	MB=NONE=8	12/15/91	0.008	
EAD	MG/KG-DRY		S6648	MB=NONE=1	12/16/91	0.008	
EAD	MG/KG-DRY			MB=NONE=2		0.005	
EAD	MG/KG-DRY			MB=NONE=3		0.02	
EAD	MG/KG-DRY			MB=NONE=4		0.004	
EAD	MG/KG-DRY			MB=NONE=5		0.003	
EAD	MG/KG-DRY			MB=NONE=6		0.005	
EAD	MG/KG-DRY			MB=NONE=7		0.02	
EAD	MG/KG-DRY			MB=NONE=8		0.01	
EAD	MG/KG-DRY		S6683	MB=NONE=1		0.0	
EAD	MG/KG-DRY			MB=NONE=2		0.002	
EAD	MG/KG-DRY			MB=NONE=3		0.0	
EAD	MG/KG-DRY			MB=NONE=4		0.02	
EAD	MG/KG-DRY			MB=NONE=5		0.0	
EAD	MG/KG-DRY		S6702	MB=NONE=4	12/31/91	0.09	
EAD	MG/KG-DRY			MB=NONE=5		0.02	
EAD	MG/KG-DRY			MB=NONE=6		0.01	
EAD	MG/KG-DRY			MB=NONE=7		0.002	
EAD	MG/KG-DRY			MB=NONE=8		0.14	
EAD	MG/KG-DRY			MB=NONE=9	1/1/92	0.02	

Continuing Calibration Verification Sample Summary

AME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
AD	MG/KG-DRY	1051*SMILS	S6565	CCV*CCVB*1	12/10/91	2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*2		2.00	2.05	103	75-125	
AD	MG/KG-DRY			CCV*CCVC*3		2.00	2.06	103	75-125	
AD	MG/KG-DRY			CCV*CCVC*4		2.00	2.06	103	75-125	
AD	MG/KG-DRY			CCV*CCVC*5		2.00	2.03	102	75-125	
AD	MG/KG-DRY			CCV*CCVC*6		2.00	2.03	102	75-125	
AD	MG/KG-DRY			CCV*CCVC*7		2.00	2.03	102	75-125	
AD	MG/KG-DRY			CCV*CCVC*8		2.00	2.03	102	75-125	
AD	MG/KG-DRY			CCV*CCVC*9		2.00	2.05	103	75-125	
AD	MG/KG-DRY			CCV*CCVC*10		2.00	2.04	102	75-125	
AD	MG/KG-DRY			CCV*CCVC*11		2.00	2.01	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*12		2.00	1.98	99.0	75-125	
AD	MG/KG-DRY			CCV*CCVB*12		2.00	1.99	99.5	75-125	
AD	MG/KG-DRY		S6581	CCV*CCVB*1		2.00	1.96	98.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*2		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*3		2.00	1.96	98.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*4		2.00	2.00	100.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*5		2.00	1.96	98.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*6		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*7		2.00	2.02	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*8		2.00	1.98	99.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*9		2.00	1.98	99.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*10		2.00	1.98	99.0	75-125	
AD	MG/KG-DRY			CCV*CCVB*11		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*12		2.00	2.10	105	75-125	
AD	MG/KG-DRY			CCV*CCVC*13		2.00	1.99	99.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*14		2.00	1.95	97.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*15		2.00	1.99	99.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*16		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*17		2.00	2.01	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*18		2.00	2.01	101	75-125	
AD	MG/KG-DRY			CCV*CCVB*19		2.00	1.93	96.5	75-125	
AD	MG/KG-DRY			CCV*CCVB*20		2.00	1.98	99.0	75-125	
AD	MG/KG-DRY		S6612	CCV*CCVB*1	12/12/91	2.00	1.94	97.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*2		2.00	1.94	97.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*3		2.00	1.96	98.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*4		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*5		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*6		2.00	1.96	98.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*7		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*8		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*9		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*10		2.00	1.95	97.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*11		2.00	1.97	98.5	75-125	
AD	MG/KG-DRY			CCV*CCVB*12		2.00	1.95	97.5	75-125	
AD	MG/KG-DRY			CCV*CCVC*13		2.00	2.01	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*14		2.00	2.01	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*15		2.00	2.02	101	75-125	
AD	MG/KG-DRY			CCV*CCVC*16		2.00	2.00	100.0	75-125	
AD	MG/KG-DRY			CCV*CCVC*17		2.00	1.99	[illegible]	75-125	
AD	MG/KG-DRY			CCV*CCVC*18		2.00	1.99		75-125	
AD	MG/KG-DRY			CCV*CCVC*19		2.00	1.98		25	
AD	MG/KG-DRY			CCV*CCVC*20		2.00	2.00	[illegible]	25	
[illegible]	MG/KG-DRY			CCV*CCVC*21		2.00	1.98	[illegible]	25	
[illegible]	MG/KG-DRY			CCV*CCVC*22		2.00	1.98	[illegible]	25	
[illegible]	MG/KG-DRY			CCV*CCV[illegible]		2.00	1.94	[illegible]	25	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D	R.P.D CRIT	FOOTNOTE
LEAD	MG/KG-DRY	1051*SMILS	S6565	SP*NONE*1	12/10/91	5.00	5.06	101	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	-.12	-2.37	75-125	RPD*1	20	(3)
LEAD	MG/KG-DRY			SP*NONE*3		5.00	5.11	102	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	5.05	101	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	4.39	87.7	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6581	SP*NONE*1		5.00	4.99	99.7	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	4.85	97.1	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*3		5.00	4.84	96.9	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	4.95	98.9	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	4.72	94.5	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*6		5.00	4.76	95.1	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*7		5.00	4.78	95.6	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6612	SP*NONE*1	12/12/91	5.00	4.86	97.1	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	5.05	101	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*3		5.00	4.91	98.1	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	4.96	99.2	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	4.96	99.3	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*6		5.00	4.99	99.9	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*7		5.00	4.93	98.5	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*8		5.00	4.90	97.9	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6625	SP*NONE*1	12/13/91	5.00	5.11	102	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	4.92	98.3	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*3		5.00	4.98	99.6	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	5.12	102	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6627	SP*NONE*5	12/14/91	5.00	5.00	100.0	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*6		5.00	5.03	101	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*7		5.00	5.27	105	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6634	SP*NONE*8	12/15/91	5.00	5.02	100	75-125		20	
LEAD	MG/KG-DRY		S6648	SP*NONE*1	12/16/91	5.00	5.09	102	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	5.16	103	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*3		5.00	4.86	97.3	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	4.96	99.1	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	5.14	103	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*6		5.00	5.21	104	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*7		5.00	5.21	104	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*8		5.00	5.17	103	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6683	SP*NONE*1		5.00	4.94	98.8	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*2		5.00	4.95	99.0	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*3		5.00	4.96	99.2	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*4		5.00	4.95	98.9	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	4.96	99.2	75-125	RPD*1	20	
LEAD	MG/KG-DRY		S6702	SP*NONE*4	12/31/91	5.00	5.22	104	75-125		20	
LEAD	MG/KG-DRY			SP*NONE*5		5.00	5.03	101	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*6		5.00	4.94	98.7	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*7		5.00	4.91	98.2	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*8		5.00	5.92	118	75-125	RPD*1	20	
LEAD	MG/KG-DRY			SP*NONE*9	01/01/92	5.00	4.92	98.5	75-125	RPD*1	20	

Sample Matrix Spike Recovery Summary

AME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R P D	R P D CRIT	FOOTNOTE
EAD	MG/KG-DRY	1051*SMILS	S6565	SPM1*WWC*980	12/10/91	477	671	141	75-125	82.3		20	(4)
EAD	MG/KG-DRY			SPM2*WWC*980		482	593	123	75-125	82.3	13.6	20	
EAD	MG/KG-DRY			SPM1*WWC*986		504	497	98.7	75-125	19.8		20	
EAD	MG/KG-DRY			SPM2*WWC*986		547	542	99.1	75-125	19.8	0.40	20	
EAD	MG/KG-DRY			SPM1*WWC2*20		638	614	96.2	75-125	255		20	
EAD	MG/KG-DRY			SPM2*WWC2*20		608	575	94.5	75-125	255	1.78	20	
EAD	MG/KG-DRY			SPM1*WWC2*40		620	546	88.1	75-125	233		20	
EAD	MG/KG-DRY			SPM2*WWC2*40		615	589	95.8	75-125	233	8.37	20	
EAD	MG/KG-DRY			SPM1*WWC2*60		542	900	166	75-125	42.4		20	(5)
EAD	MG/KG-DRY			SPM2*WWC2*60		566	553	97.6	75-125	42.4	51.9	20	
EAD	MG/KG-DRY		S6581	SPM1*WWC2*80		524	500	95.5	75-125	12.7		20	
EAD	MG/KG-DRY			SPM2*WWC2*80		504	468	92.8	75-125	12.7	2.87	20	
EAD	MG/KG-DRY			SPM1*WWC2*100		609	701	115	75-125	329		20	
EAD	MG/KG-DRY			SPM2*WWC2*100		714	589	82.5	75-125	329	32.9	20	
EAD	MG/KG-DRY			SPM1*WWC2*120		572	554	96.8	75-125	94.1		20	
EAD	MG/KG-DRY			SPM2*WWC2*120		582	572	98.3	75-125	94.1	1.54	20	
EAD	MG/KG-DRY			SPM1*WWC2*140		665	148	22.3	75-125	912		20	(5)
EAD	MG/KG-DRY			SPM2*WWC2*140		669	208	31.1	75-125	912	33.0	20	(5)
EAD	MG/KG-DRY			SPM1*WWC2*160		602	310	51.5	75-125	1520		20	(5)
EAD	MG/KG-DRY			SPM2*WWC2*160		693	200	28.9	75-125	1520	56.2	20	(5)
EAD	MG/KG-DRY			SPM1*WWC2*180		644	658	102	75-125	218		20	
EAD	MG/KG-DRY			SPM2*WWC2*180		634	689	109	75-125	218	6.64	20	
EAD	MG/KG-DRY			SPM1*WWC2*200		684	600	87.8	75-125	89.6		20	
EAD	MG/KG-DRY			SPM2*WWC2*200		664	580	87.4	75-125	89.6	0.46	20	
EAD	MG/KG-DRY		S6612	SPM1*WWC2*220	12/12/91	581	370	63.7	75-125	4340		20	(6)
EAD	MG/KG-DRY			SPM2*WWC2*220		591	-870	-147	75-125	4340		20	(6)
EAD	MG/KG-DRY			SPM1*WWC2*240		607	508	83.7	75-125	592		20	
EAD	MG/KG-DRY			SPM2*WWC2*240		648	678	105	75-125	592	22.6	20	
EAD	MG/KG-DRY			SPM1*WWC2*260		577	550	95.4	75-125	89.9		20	
EAD	MG/KG-DRY			SPM2*WWC2*260		562	538	95.8	75-125	89.9	0.52	20	
EAD	MG/KG-DRY			SPM1*WWC2*280		578	567	98.0	75-125	543		20	
EAD	MG/KG-DRY			SPM2*WWC2*280		532	567	107	75-125	543	8.68	20	
EAD	MG/KG-DRY			SPM1*WWC2*300		529	536	101	75-125	94.8		20	
EAD	MG/KG-DRY			SPM2*WWC2*300		554	545	98.3	75-125	94.8	2.71	20	
EAD	MG/KG-DRY			SPM1*WWC2*320		616	611	99.2	75-125	222		20	
EAD	MG/KG-DRY			SPM2*WWC2*320		616	606	98.3	75-125	222	0.91	20	
EAD	MG/KG-DRY			SPM1*WWC2*340		622	649	104	75-125	241		20	
EAD	MG/KG-DRY			SPM2*WWC2*340		625	583	93.3	75-125	241	10.8	20	
EAD	MG/KG-DRY			SPM1*WWC2*360		582	625	107	75-125	268		20	
EAD	MG/KG-DRY			SPM2*WWC2*360		582	596	102	75-125	268	4.78	20	
EAD	MG/KG-DRY		S6625	SPM1*WWC2*380	12/13/91	631	662	105	75-125	518		20	
EAD	MG/KG-DRY			SPM2*WWC2*380		622	662	106	75-125	518	0.95	20	
EAD	MG/KG-DRY			SPM1*WWC2*400		579	557	96.1	75-125	593		20	
EAD	MG/KG-DRY			SPM2*WWC2*400		597	637	107	75-125	593	10.6	20	
EAD	MG/KG-DRY			SPM1*WWC2*420		550	563	102	75-125	131		20	
EAD	MG/KG-DRY			SPM2*WWC2*420		570	579	102	75-125	131	0.0	20	
EAD	MG/KG-DRY			SPM1*WWC2*440		574	582	101	75-125	50.8		20	
EAD	MG/KG-DRY			SPM2*WWC2*440		640	646	101	75-125	50.8	0.0	20	
EAD	MG/KG-DRY		S6627	SPM1*WWC2*460	12/14/91	616	664	108	75-125	596		20	
EAD	MG/KG-DRY			SPM2*WWC2*460		655	714	109	75-125	596	0.92	20	
EAD	MG/KG-DRY			SPM1*WWC2*480		609	583	95.7	75-125	108		20	
EAD	MG/KG-DRY			SPM2*WWC2*480		584	575	98.4	75-125	108	2.78	20	
EAD	MG/KG-DRY			SPM1*WWC2*500		558	603	108	75-125	817		20	
[illegible]	MG/KG-DRY			SPM2*WWC2*500		541	623	115	75-125	817	6.28	20	
	MG/KG-DRY		S6634	SPM1*WWC2*530	[illegible]	639	653	102	75-125	266		20	
[illegible]	MG/KG-DRY			SPM2*W[illegible]530		639	672	105	[illegible]5-125	266	2.90	20	

Continuing Calibration Verification Sample Summary

AME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
EAD	MG/KG-DRY	1051=SMILS	S6625	CCV=CCVB=1	12/13/91	2.00	1.95	97.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.01	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=3		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=4		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=5		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.01	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.01	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=8		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=9		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=10		2.00	1.98	99.0	75-125	
EAD	MG/KG-DRY			CCV=CCVC=11		2.00	2.00	100.0	75-125	
EAD	MG/KG-DRY		S6627	CCV=CCVB=1	12/14/91	2.00	2.00	100.0	75-125	
EAD	MG/KG-DRY			CCV=CCVB=2		2.00	1.98	99.0	75-125	
EAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.07	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.08	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=5		2.00	2.06	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.06	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.06	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=8		2.00	2.08	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=9		2.00	2.04	102	75-125	
EAD	MG/KG-DRY		S6634	CCV=CCVB=1	12/15/91	2.00	1.96	98.0	75-125	
EAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.05	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.09	105	75-125	
EAD	MG/KG-DRY			CCV=CCVC=4		2.00	1.97	98.5	75-125	
EAD	MG/KG-DRY			CCV=CCVB=5		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY		S6648	CCV=CCVB=1	12/16/91	2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.09	105	75-125	
EAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.04	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.05	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=5		2.00	2.03	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.05	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=7		2.00	2.07	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=8		2.00	2.04	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=9		2.00	2.05	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=10		2.00	2.08	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=11		2.00	2.06	103	75-125	
EAD	MG/KG-DRY			CCV=CCVB=12		2.00	2.01	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=13		2.00	2.08	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=14		2.00	2.04	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=15		2.00	2.07	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=16		2.00	2.07	104	75-125	
EAD	MG/KG-DRY			CCV=CCVC=17		2.00	2.06	103	75-125	
EAD	MG/KG-DRY			CCV=CCVC=18		2.00	1.98	99.0	75-125	
EAD	MG/KG-DRY			CCV=CCVC=19		2.00	0.008	0.40	75-125	(2)
EAD	MG/KG-DRY			CCV=CCVC=20		2.00	2.03	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=21		2.00	2.03	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=22		2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVB=23		2.00	2.02	101	75-125	
EAD	MG/KG-DRY		S6683	CCV=CCVB=1		2.00	1.99	99.5	75-125	
EAD	MG/KG-DRY			CCV=CCVC=2		2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=3		2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=4		2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=5		2.00	2.03	102	75-125	
EAD	MG/KG-DRY			CCV=CCVC=6		2.00	2.02	101	75-125	
EAD	MG/KG-DRY			CCV=CCVC=7		[illegible]	[illegible]			

Continuing Calibration Verification Sample Summary

AME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT FOOTNOTE
EAD	MG/KG-DRY	1051*SMTLS	S6683	CCV*CCVC*9	12/16/91	2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*10		2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*11		2.00	2.03	102	75-125
EAD	MG/KG-DRY			CCV*CCVB*12		2.00	2.04	102	75-125
EAD	MG/KG-DRY			CCV*CCVC*13		2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*14		2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVB*15		2.00	2.01	101	75-125
EAD	MG/KG-DRY		S6702	CCV*CCVB*1	12/31/91	2.00	1.91	95.5	75-125
EAD	MG/KG-DRY			CCV*CCVB*4		2.00	1.98	99.0	75-125
EAD	MG/KG-DRY			CCV*CCVC*5		2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*6		2.00	2.02	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*7		2.00	1.92	96.0	75-125
EAD	MG/KG-DRY			CCV*CCVC*8		2.00	1.93	96.5	75-125
EAD	MG/KG-DRY			CCV*CCVC*9		2.00	1.96	98.0	75-125
EAD	MG/KG-DRY			CCV*CCVC*10		2.00	2.03	102	75-125
EAD	MG/KG-DRY			CCV*CCVC*11		2.00	2.03	102	75-125
EAD	MG/KG-DRY			CCV*CCVB*12		2.00	2.01	101	75-125
EAD	MG/KG-DRY			CCV*CCVC*13		2.00	2.19	110	75-125
EAD	MG/KG-DRY			CCV*CCVC*14		2.00	2.08	104	75-125
EAD	MG/KG-DRY			CCV*CCVC*15		2.00	1.99	99.5	75-125
EAD	MG/KG-DRY			CCV*CCVC*16	01/01/92	2.00	2.00	100.0	75-125
EAD	MG/KG-DRY			CCV*CCVC*17		2.00	1.98	99.0	75-125
EAD	MG/KG-DRY			CCV*CCVC*18		2.00	1.99	99.5	75-125
EAD	MG/KG-DRY			CCV*CCVC*19		2.00	1.97	98.5	75-125
EAD	MG/KG-DRY			CCV*CCVB*20		2.00	1.84	92.0	75-125

Sample Matrix Spike Recovery Summary

AME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
EAD	MG/KG-DRY	1051=SMTLS	S6640	SPM1=WWC2=550	12/16/91	618	636	103	75-125	374		20	
EAD	MG/KG-DRY			SPM2=WWC2=550		627	646	103	75-125	374	0.0	20	
EAD	MG/KG-DRY			SPM1=WWC2=570		564	674	120	75-125	129		20	
EAD	MG/KG-DRY			SPM2=WWC2=570		564	614	109	75-125	129	9.61	20	
EAD	MG/KG-DRY			SPM1=WWC2=590		615	624	101	75-125	102		20	
EAD	MG/KG-DRY			SPM2=WWC2=590		683	697	102	75-125	102	0.99	20	
EAD	MG/KG-DRY			SPM1=WWC2=610		581	583	100	75-125	81.5		20	
EAD	MG/KG-DRY			SPM2=WWC2=610		551	556	101	75-125	81.5	1.00	20	
EAD	MG/KG-DRY			SPM1=WWC2=630		556	619	111	75-125	126		20	
EAD	MG/KG-DRY			SPM2=WWC2=630		618	674	109	75-125	126	1.82	20	
EAD	MG/KG-DRY			SPM1=WWC2=650		629	627	99.7	75-125	533		20	
EAD	MG/KG-DRY			SPM2=WWC2=650		589	577	98.0	75-125	533	1.72	20	
EAD	MG/KG-DRY			SPM1=WWC2=670		629	561	89.2	75-125	347		20	
EAD	MG/KG-DRY			SPM2=WWC2=670		597	517	86.6	75-125	347	2.96	20	
EAD	MG/KG-DRY			SPM1=WWC2=691		550	600	109	75-125	258		20	
EAD	MG/KG-DRY			SPM2=WWC2=691		535	570	107	75-125	258	1.85	20	
EAD	MG/KG-DRY		S6683	SPM1=WWC2=711		602	587	97.5	75-125	341		20	
EAD	MG/KG-DRY			SPM2=WWC2=711		542	519	95.8	75-125	341	1.76	20	
EAD	MG/KG-DRY			SPM1=WWC2=731		515	471	91.5	75-125	275		20	
EAD	MG/KG-DRY			SPM2=WWC2=731		568	519	91.3	75-125	275	0.22	20	
EAD	MG/KG-DRY			SPM1=WWC2=751		629	290	46.1	75-125	1200		20	(5)
EAD	MG/KG-DRY			SPM2=WWC2=751		673	560	83.3	75-125	1200	57.5	20	
EAD	MG/KG-DRY			SPM1=WWC2=771		601	603	100	75-125	232		20	
EAD	MG/KG-DRY			SPM2=WWC2=771		631	651	103	75-125	232	2.96	20	
EAD	MG/KG-DRY			SPM1=WWC2=791		583	578	99.1	75-125	142		20	
EAD	MG/KG-DRY			SPM2=WWC2=791		621	646	104	75-125	142	4.83	20	
EAD	MG/KG-DRY		S6702	SPM1=WWC2=811	12/31/91	609	664	109	75-125	241		20	
EAD	MG/KG-DRY			SPM2=WWC2=811		623	625	100	75-125	241	8.61	20	
EAD	MG/KG-DRY			SPM1=WWC2=831		562	612	109	75-125	878		20	
EAD	MG/KG-DRY			SPM2=WWC2=831		588	852	145	75-125	878	28.3	20	(5)
EAD	MG/KG-DRY			SPM1=WWC2=851		586	625	107	75-125	299		20	
EAD	MG/KG-DRY			SPM2=WWC2=851		602	639	106	75-125	299	0.94	20	
EAD	MG/KG-DRY			SPM1=WWC2=871		644	839	130	75-125	109		20	(4)
EAD	MG/KG-DRY			SPM2=WWC2=871		578	911	158	75-125	109	19.4	20	(4)
EAD	MG/KG-DRY			SPM1=WWC2=891		592	427	72.1	75-125	593		20	(5)
EAD	MG/KG-DRY			SPM2=WWC2=891		619	677	109	75-125	593	40.8	20	
EAD	MG/KG-DRY			SPM1=WWC2=902	01/01/92	558	475	85.1	75-125	615		20	
EAD	MG/KG-DRY			SPM2=WWC2=902		544	495	91.1	75-125	615	6.81	20	

1)- Sample carry-over. Method blank reanalyzed as sample MB=NONE=8 in batch S6581 and demonstrated acceptable recovery.
2)- Autosampler programmed incorrectly for this QC samples. No impact on sample data.
3)- Sample recovery corrected using a falsely high background (see note 1). Sample demonstrates acceptable recovery when the proper background is used.

CHAIN OF CUSTODY

WWC2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 6

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	11/20	810	S	WS0911-	1	00A	00L	1	X			
2		815	S	WS0911-	1	00B	00L	1	X			
3		818	S	WS0911-	1	00C	00L	1	X			
4		820	S	WS0911-	2	00A	00L	1	X			
5		825	S	WS0911-	2	00B	00L	1	X			
6		830	S	WS0911-	2	00C	00L	1	X			
7		900	S	WS0917-	1	00A	00L	1	X			
8		904	S	WS0917-	1	00B	00L	1	X			
9		906	S	WS0917-	1	00C	00L	1	X			
10		915	S	WS0917-	2	00A	00L	1	X			
11		920	S	WS0917-	2	00B	00L	1	X			
12		923	S	WS0917-	2	00C	00L	1	X			
13		1015	S	WS0919-	1	00A	00L	1	X			
14		1017	S	WS0919-	1	00B	00L	1	X			
15		1020	S	WS0919-	1	00C	00L	1	X			
16		1035	S	WS0919-	2	00A	00L	1	X			
17		1037	S	WS0919-	2	00B	00L	1	X			
18		1040	S	WS0919-	2	00C	00L	1	X			
19		1119	S	WS0921-	1	00A	00L	1	X			
20		1121	S	WS0921-	1	00B	00L	1	X			
21		1124	S	WS0921-	1	00C	00L	1	X			
22		1125	S	WS0921-	2	00A	00L	1	X			
23		1127	S	WS0921-	2	00B	00L	1	X			

Called Cynthia at 10:54 on 11-21-91. She said to put the 0 in the first 30 ID's

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11-20 1730	[signature]	11/20 1735
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/20 1835	[signature]	1835 11-20

METHOD OF SHIPMENT: WCC employee

AIRBILL NO. (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
24	11/20	1130	S WS0921-2 00C 00L ✓	1	X			
25		207	S WS0813-1 00A 00L ✓	1	X			
26		209	S WS0813-1 00B 00L ✓	1	X			
27		211	S WS0813-1 00C 00L ✓	1	X			
28		220	S WS0813-2 00A 00L ✓	1	X			
29		225	S WS0813-2 00B 00L ✓	1	X			
30		228	S WS0813-2 00C 00L ✓	1	X			
31		306	S WS1001L 1 00A 00L ✓	1	X			
32		309	S WS1001L 1 00B 00L ✓	1	X			
33		311	S WS1001L 1 00C 00L ✓	1	X			
34		320	S WS1001 2 00A 00L ✓	1	X			
35		324	S WS1001L 2 00B 00L ✓	1	X			
36		327	S WS1001L 2 00C 00L ✓	1	X			
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

Nothing Follows
Greg Hagerty
11-20-91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-20 1730		11/20 1735
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/20 1835		11-20-91 1835
METHOD OF SHIPMENT: WCC employee		AIRBILL NO.: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
37	11/20/91	0746	S	KEL609	1	00A	00L	✓	1	X			
38		0750	S	KEL609	1	00B	00L	✓	1	X			
39		0755	S	KEL629	1	00C	00L	✓	1	X			
40		0802	S	KEL609	2	00A	00L	✓	1	X			
41		0806	S	KEL609	2	00B	00L	✓	1	X			
42		0810	S	KEL609	2	00C	00L	✓	1	X			
43		0910	S	KEL722	1	00A	00L	✓	1	X			
44		0916	S	KEL722	1	00B	00L	✓	1	X			
45		0922	S	KEL722	1	00C	00L	✓	1	X			
46		0930	S	KEL722	2	00A	00L	✓	1	X			
47		0937	S	KEL722	2	00B	00L	✓	1	X			
48		0942	S	KEL722	2	00C	00L	✓	1	X			
49		1012	S	KEL720	1	00A	00L	✓	1	X			
50		1018	S	KEL720	1	00B	00L	✓	1	X			
51		1023	S	KEL720	1	00C	00L	✓	1	X			
52		1026	S	KEL720	2	00A	00L	✓	1	X			
53		1030	S	KEL720	2	00B	00L	✓	1	X			
54		1035	S	KEL720	2	00C	00L	✓	1	X			
55		1115	S	KEL711	1	00A	00L	✓	1	X			
56		1120	S	KEL711	1	00B	00L	✓	1	X			
57		1125	S	KEL711	1	00C	00L	✓	1	X			
58		1130	S	KEL711	2	00A	00L	✓	1	X			
59		1135	S	KEL711	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11-20 1730		11/20 1735
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/20 1835		11-20-91 183
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
60	11/20/91	1140	S	KE1711	2	00C	00L	✓		1	X		
61		1400	S	KE1612	1	00A	00L	✓		1	X		
62		1405	S	KE1612	1	00B	00L	✓		1	X		
63		1410	S	KE1612	1	00C	00L	✓		1	X		
64		1415	S	KE1612	2	00A	00L	✓		1	X		
65		1420	S	KE1612	2	00B	00L	✓		1	X		
66		1425	S	KE1612	2	00C	00L	✓		1	X		
67		1505	S	KE1616	1	00A	00L	✓		1	X		
68		1509	S	KE1616	1	00B	00L	✓		1	X		
69		1513	S	KE1616	1	00C	00L	✓		1	X		
70		1517	S	KE1616	2	00A	00L	✓		1	X		
71		1521	S	KE1616	2	00B	00L	✓		1	X		
72		1525	S	KE1616	2	00C	00L	✓		1	X		
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

Nothing Follows
[illegible]
11-20-91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11-20 1730	[illegible]	11/20 1735
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/20 1830	[illegible]	11-20-91 1835

METHOD OF SHIPMENT: WCC employee

AIRBILL NO.: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
73	11/20	848	sIR0001 1 00C00L ✓	1	X			
74		849	sIR0001 1 00D00L ✓	1	X			
75		857	sIR0001 1 00K00L ✓	1	X			
76		902	sIR0001 1 00L00L ✓	1	X			
77		910	sIR0001 1 00M00L ✓	1	X			
78		917	sIR0001 1 00N00L ✓	1	X			
79		927	sIR0001 1 00T00L ✓	1	X			
80		927	sIR0001 1 00T0LD ✓	1	X			
81		1030	sIR0003 1 00C00L ✓	1	X			
82		1031	sIR0003 1 00D00L ✓	1	X			
83		1037	sIR0003 1 00K00L ✓	1	X			
84		1047	sIR0003 1 00L00L ✓	1	X			
85		1055	sIR0003 1 00M00L ✓	1	X			
86		1105	sIR0003 1 00N00L ✓	1	X			
87		1115	sIR0003 1 00T00L ✓	1	X			
88		1115	sIR0003 1 00T0LM ✓	1	X			
89		1115	sIR0003 1 00T0LX ✓	1	X			
90		1310	sIR0004 1 00C00L ✓	1	X			
91		1312	sIR0004 1 00D00L ✓	1	X			
92		1320	sIR0004 1 00K00L ✓	1	X			
93		1325	sIR0004 1 00L00L ✓	1	X			
94		1335	sIR0004 1 00M00L ✓	1	X			
95	✓	1335	sIR0004 1 00M0LD ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Craig Hoyt	11-20 1730		11/20 173
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/20 1835		11-20-91 18

METHOD OF SHIPMENT: WCC employee

AIRBILL NO. (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 6 of 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
'6	11/20	1340	S	IR0004	1	00N	00L	✓	1	X			
97		1350	S	IR0004	1	00I	00L	✓	1	X			
18		1521	S	R00001	1	0AC	00L	✓	1	X			
79		1522	S	R00001	1	00D	00L	✓	1	X			
00		1530	S	R00001	1	00K	00L	✓	1	X			
101		1530	S	R00001	1	00K	0LD	✓	1	X			
'02		1535	S	R00001	1	00L	00L	✓	1	X			
03		1542	S	R00001	1	00M	00L	✓	1	X			
104		1548	S	R00001	1	00N	00L	✓	1	X			
25		1555	S	R00001	1	00I	00L	✓	1	X			
			S							Nothing Follows			
			S							Gregg Hogerty			
			S							11-20-91			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hogerty	11-20 1730	[signature]	11/20 1735
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/20 1835	[signature]	11-20-91 1835
METHOD OF SHIPMENT: WCC employee		AIRBILL NO. (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

WWC2

ESE Cooler # ✓ #16
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-20-91 1835

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and ckecked: 11-21-91 0830

by (print) James Cash (sign) James Cash

1. List courier delivering samples client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-20-91, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
5. Was chain-of-custody provided? ..... YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES NO
9. Did you sign custody papers in the appropriate place? ..... YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-21-91 by (all those involved must sign below):
(print) James Cash (sign) James Cash

11. Describe packing: Blue Ice + samples stacked
*12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
14. Did all bottles arrive unbroken and in good condition? ..... YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# NA . YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

\WP\CHEMCOM\CRF.01

✓16, The first 30 ID Numbers, Do Not Match, Their is a 0 missing on the custody papers ID.

WWC2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
06	11/21/91	0730	S	GB1024	1	00A	00L	✓	1	X			
07		0735	S	GB1024	1	00B	00L	✓	1	X			
08		0739	S	GB1024	1	00C	00L	✓	1	X			
09		0751	S	GB1024	2	00A	00L	✓	1	X			
10		0755	S	GB1024	2	00B	00L	✓	1	X			
11		0759	S	GB1024	2	00C	00L	✓	1	X			
12		0821	S	GB1018	1	00A	00L	✓	1	X			
13		0825	S	GB1018	1	00B	00L	✓	1	X			
14		0829	S	GB1018	1	00C	00L	✓	1	X			
15		0840	S	GB1018	2	00A	00L	✓	1	X			
16		0843	S	GB1018	2	00B	00L	✓	1	X			
17		0847	S	GB1018	2	00C	00L	✓	1	X			
18		0906	S	GB1036	1	00A	00L	✓	1	X			
19		0910	S	GB1036	1	00B	00L	✓	1	X			
20		0913	S	GB1036	1	00C	00L	✓	1	X			
21		0917	S	GB1036	2	00A	00L	✓	1	X			
22		0920	S	GB1036	2	00B	00L	✓	1	X			
23		0923	S	GB1036	2	00C	00L	✓	1	X			
24		0942	S	GW1024	1	00A	00L	✓	1	X			
25		0945	S	GW1024	1	00B	00L	✓	1	X			
26		0948	S	GW1024	1	00C	00L	✓	1	X			
27		1002	S	GW1024	2	00A	00L	✓	1	X			
28		1005	S	GW1024	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	11-21 1700	[illegible]	11/21 1705
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/21 1816	[illegible]	11/21 6:16

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

SHEET 2 of 7

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) Wendy Rubolt, Greg W Schlemer

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
29	11/21/91	1008	S GW1024 2 00C 00L	1	X			
30		1305	S GW0940 1 00A 00L	1	X			
31		1310	S GW0940 1 00B 00L	1	X			
132		1314	S GW0940 1 00C 00L	1	X			
33		1320	S GW0940 2 00A 00L	1	X			
134		1323	S GW0940 2 00B 00L	1	X			
35		1326	S GW0940 2 00C 00L	1	X			
136		1332	S GW1009 1 00A 00L	1	X			
37		1400	S GW1009 1 00B 00L	1	X			
38		1403	S GW1009 1 00C 00L	1	X			
139		1410	S GW1009 2 00A 00L	1	X			
40		1413	S GW1009 2 00B 00L	1	X			
141		1416	S GW1009 2 00C 00L	1	X			
42		1430	S GW1006 1 00A 00L	1	X			
143		1435	S GW1006 1 00B 00L	1	X			
44		1439	S GW1006 1 00C 00L	1	X			
145		1444	S GW1006 2 00A 00L	1	X			
46		1448	S GW1006 2 00B 00L	1	X			
47		1452	S GW1006 2 00C 00L	1	X			
			S		Nothing Follows			
			S		Greg Hagerty 11-21-91			
			S					
			S					

RELINQUISHED BY: (Signature) Greg Hagerty	DATE / TIME 11-21 1200	RECEIVED BY: (Signature)	DATE / TIME 11/21 1700
RELINQUISHED BY: (Signature)	DATE / TIME 11/4 1616	RECEIVED AT LAB BY: (Signature) Katherine Hunter	DATE / TIME 11/21 6-
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
48	11/21	740	S	GR1312	1	00A	00L	✓	1	X			
149		743	S	GR1312	1	00B	00L	✓	1	X			
50		745	S	GR1312	1	00C	00L	✓	1	X			
151		755	S	GR1312	2	00A	00L	✓	1	X			
52		758	S	GR1312	2	00B	00L	✓	1	X			
153		800	S	GR1312	2	00C	00L	✓	1	X			
54		840	S	GR1318	1	00A	00L	✓	1	X			
155		845	S	GR1318	1	00B	00L	✓	1	X			
56		847	S	GR1318	1	00C	00L	✓	1	X			
57		855	S	GR1318	2	00A	00L	✓	1	X			
158		858	S	GR1318	2	00B	00L	✓	1	X			
59		900	S	GR1318	2	00C	00L	✓	1	X			
160		925	S	GR1325	1	00A	00L	✓	1	X			
61		927	S	GR1325	1	00B	00L	✓	1	X			
162		930	S	GR1325	1	00C	00L	✓	1	X			
63		940	S	GR1325	2	00A	00L	✓	1	X			
164		945	S	GR1325	2	00B	00L	✓	1	X			
165		948	S	GR1325	2	00C	00L	✓	1	X			
66		1028	S	GR1323	1	00A	00L	✓	1	X			
167		1030	S	GR1323	1	00B	00L	✓	1	X			
68		1034	S	GR1323	1	00C	00L	✓	1	X			
169		1048	S	GR1323	2	00A	00L	✓	1	X			
70		1050	S	GR1323	2	00B	00L	✓	1	X			

CONTAINER DESCRIPTION/ ANALYSES REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hogarty	11-21 1700		11/21 1705
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/21 1516		11/21 6:14

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
71	11/21	1053	S	GR1323	2	00C	00L	1	X			
172		1104	S	GR1309	1	00A	00L	1	X			
73		1108	S	GR1309	1	00B	00L	1	X			
174		1110	S	GR1309	1	00C	00L	1	X			
75		1120	S	GR1309	2	00A	00L	1	X			
176		1123	S	GR1309	2	00B	00L	1	X			
77		1125	S	GR1309	2	00C	00L	1	X			
178		100	S	GR1105	1	00A	00L	1	X			
179		104	S	GR1105	1	00B	00L	1	X			
180		107	S	GR1105	1	00C	00L	1	X			
181		120	S	GR1105	2	00A	00L	1	X			
182		124	S	GR1105	2	00B	00L	1	X			
183		127	S	GR1105	2	00C	00L	1	X			
184		200	S	GR1009	1	00A	00L	1	X			
185		204	S	GR1009	1	00B	00L	1	X			
186		208	S	GR1009	1	00C	00L	1	X			
187		219	S	GR1009	2	00A	00L	1	X			
188		222	S	GR1009	2	00B	00L	1	X			
189		224	S	GR1009	2	00C	00L	1	X			
190		256	S	GR1020	1	00A	00L	1	X			
191		300	S	GR1020	1	00B	00L	1	X			
192		305	S	GR1020	1	00C	00L	1	X			
193		312	S	GR1020	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11-21 1700		11/21 170
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/21 1816		11/21 6

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 7

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
74	11/21	314	S	GR1020	2	00B	00L	X	1	X			
195	1	317	S	GR1020	2	00C	00L	X	1	X			
			S							Nothing Follows			
			S							Gregg Hagerty			
			S							11-21-91			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11-21 1700	[signature]	11/21 1705
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/21 1816	[signature]	11/21 1:16
METHOD OF SHIPMENT: wce employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 6 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
96	11/21	928	S	R00002	1	0AC	00L	✓	1	X			
97		930	S	R00002	1	00D	00L	✓	1	X			
98		935	S	R00002	1	00K	00L	✓	1	X			
		~~935~~	~~S~~	~~R00002~~	~~1~~	~~00K~~	~~0LQ~~		~~1~~	~~X~~		~~SP~~	
199		940	S	R00002	1	00L	00L	✓	1	X			
200		950	S	R00002	1	00M	00L	✓	1	X			
201		957	S	R00002	1	00N	00L	✓	1	X			
202		957	S	R00002	1	00N	0LM	✓	1	X			
203		957	S	R00002	1	00N	0LX	✓	1	X			
204		1002	S	R00002	1	00T	00L	✓	1	X			
205		1240	S	BV0001	1	0AC	00L	✓	1	X			
206		1241	S	BV0001	1	00D	00L	✓	1	X			
207		1248	S	BV0001	1	00K	00L	✓	1	X			
208		1252	S	BV0001	1	00L	0LD	✓	1	X			
209		1252	S	BV0001	1	00L	00L	✓	1	X			
210		1300	S	BV0001	1	00M	00L	✓	1	X			
211		1305	S	BV0001	1	00N	00L	✓	1	X			
212		1314	S	BV0001	1	00T	00L	✓	1	X			
213		1314	S	BV0001	1	00T	0LM	✓	1	X			
214		1314	S	BV0001	1	00T	0LX	✓	1	X			
215		1405	S	BV0002	1	0AC	00L	✓	1	X			
216		1407	S	BV0002	1	00D	00L	✓	1	X			
217		1412	S	BV0002	1	00K	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Gregg Hagerty	11-21 1700	[signature]	11/21 1705
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/21 1816	[signature]	11/21 6[illegible]

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
11/21	1420	S BV0002 L 00L 00L	1	X			
	1430	S BV0002 L 00M 00L	1	X			
	1445	S BV0002 L 00N 00L	1	X			
	1508	S BV0002 L 00I 00L	1	X			
		S		Nothing	Follows		
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hogerty	11-21 1700		11/21 1705
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/21 1816		11/21 6:16
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-21-91 18:16

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-21-91 0830

by (print) James Cash (sign) James Cash

1. List courier delivering samples . client . . . . . (YES) NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-21-91, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplock™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-21-91 by (all those involved must sign below):
(print) James Cash (sign) James Cash

11. Describe packing: Blue Ice & stacked
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# NA . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES (NO)
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

I:\WP\CHEMCOM\CRF.01

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 47

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
22	11/22	710	S	SI LL02	1	00A	00L	1	X			
23		712	S	SI LL02	1	00B	00L	1	X			
24		715	S	SI LL02	1	00C	00L	1	X			
25		710	S	SI LL02	1	00A	OLD	1	X			
26		712	S	SI LL02	1	00B	OLD	1	X			
27		715	S	SI LL02	1	00C	OLD	1	X			
28		730	S	SI LL02	2	00A	00L	1	X			
29		733	S	SI LL02	2	00B	00L	1	X			
30		735	S	SI LL02	2	00C	00L	1	X			
31		900	S	SI 0816	1	00A	00L	1	X			
32		904	S	SI 0816	1	00B	00L	1	X			
33		908	S	SI 0816	1	00C	00L	1	X			
34		900	S	SI 0816	1	00A	OLD	1	X			
35		904	S	SI 0816	1	00B	OLD	1	X			
36		908	S	SI 0816	1	00C	OLD	1	X			
37		920	S	SI 0816	2	00A	00L	1	X			
38		923	S	SI 0816	2	00B	00L	1	X			
39		925	S	SI 0816	2	00C	00L	1	X			
40		951	S	SI 0818	1	00A	00L	1	X			
41		955	S	SI 0818	1	00B	00L	1	X			
42		958	S	SI 0818	1	00C	00L	1	X			
43		1007	S	SI 0818	2	00A	00L	1	X			
44		1010	S	SI 0818	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/21 12:30	[illegible]	11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/22 800	Ethan [illegible]	11/22 5 PM

METHOD OF SHIPMENT: WCC EMPL

AIRBILL NO: (If Applicable)

WWC

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
10	11/25/91	1018	S	EL1711	1	00A	00L	1	X			
11		1022	S	EL1711	1	00B	00L	1	X			
12		1026	S	EL1711	1	00C	00L	1	X			
13		1031	S	EL1711	2	00A	00L	1	X			
14		1035	S	EL1711	2	00B	00L	1	X			
15		1039	S	EL1711	2	00C	00L	1	X			
16		1102	S	EL1709	1	00A	00L	1	X			
17		1106	S	EL1709	1	00B	00L	1	X			
18		1110	S	EL1709	1	00C	00L	1	X			
19		1115	S	EL1709	2	00A	00L	1	X			
20		1119	S	EL1709	2	00B	00L	1	X			
21		1123	S	EL1709	2	00C	00L	1	X			
22		1215	S	RE1000	1	00A	00L	1	X			
23		1220	S	RE1000	1	00B	00L	1	X			
24		1224	S	RE1000	1	00C	00L	1	X			
25		1230	S	RE1000	2	00A	00L	1	X			
26		1234	S	RE1000	2	00B	00L	1	X			
27		1238	S	RE1000	2	00C	00L	1	X			
28		1300	S	RE1136	1	00A	00L	1	X			
29		1303	S	RE1136	1	00B	00L	1	X			
30		1306	S	RE1136	1	00C	00L	1	X			
31		1309	S	RE1136	2	00A	00L	1	X			
32		1312	S	RE1136	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/25/91 5:15PM	[signature]	11/25 1700
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/25 1800	[signature]	11-25 6[illegible]
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
33	11/24/91	1315	S	EL1136	2	00C	00L	1	X			
334		1450	S	EL1703	1	00A	00L	1	X			
35		1453	S	EL1703	1	00B	00L	1	X			
336		1456	S	EL1703	1	00C	00L	1	X			
37		1501	S	EL1703	2	00A	00L	1	X			
38		1504	S	EL1703	2	00B	00L	1	X			
339		1507	S	EL1703	2	00C	00L	1	X			
40		1530	S	EL1707	1	00A	00L	1	X			
341		1533	S	EL1707	1	00B	00L	1	X			
42		1536	S	EL1707	1	00C	00L	1	X			
343		1542	S	EL1707	2	00A	00L	1	X			
44		1545	S	EL1707	2	00B	00L	1	X			
45		1548	S	EL1707	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/25/91 5:15PM	[signature]	11/25 1900
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/25 1800	[signature]	11-25 6PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
46	11/25	1235	S 102825 2 00C004	1	X			
347		250	S 102909 1 00A004	1	X			
48		253	S 102909 1 00B004	1	X			
349		255	S 102909 1 00C004	1	X			
50		302	S 102909 2 00A004	1	X			
351		304	S 102909 2 00B004	1	X			
352		306	S 102909 2 00C004	1	X			
53		325	S 102912 1 00A004	1	X			
354		327	S 102912 1 00B004	1	X			
55		330	S 102912 1 00C004	1	X			
356		340	S 102912 2 00A004	1	X			
57		343	S 102912 2 00B004	1	X			
358		345	S 102912 2 00C004	1	X			
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					
			S ------ - ------					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11/25/91 5PM		11/25 1715
RELINQUISHED BY: (Signature)	**DATE / TIME**	**RECEIVED AT LAB BY: (Signature)**	**DATE / TIME**
	11/25 1800		11-25 6P

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
59	11/25	1020	S 100825 1 00A00L	1	X			
360		1023	S 100825 1 00B00L	1	X			
61		1026	S 100825 1 00C00L	1	X			
362		1030	S 100820 2 00A00L	1	X			
63		1034	S 100820 2 00B00L	1	X	—		
64		1037	S 100822 2 00C00L	1	X			
65		1058	S 100816 1 00A00L	1	X			
66		1100	S 100816 1 00B00L	1	X			
367		1103	S 100816 1 00C00L	1	X			
68		1110	S 100816 2 00A00L	1	X			
369		1113	S 100816 2 00B00L	1	X			
70		1115	S 100816 2 00C00L	1	X			
371		1137	S 100812 1 00A00L	1	X			
72		1140	S 100812 1 00B00L	1	X			
73		1143	S 100812 1 00C00L	1	X			
374		1150	S 100812 2 00A00L	1	X			
75		1153	S 100812 2 00B00L	1	X			
376		1155	S 100812 2 00C00L	1	X			
77		1217	S 100825 1 00A00L	1	X			
378		1219	S 100825 1 00B00L	1	X			
79		1221	S 100825 1 00C00L	1	X			
380		1230	S 100825 2 00A00L	1	X			
81		1233	S 100825 2 00B00L	1	X			

Found Tate failed to log on the IDs on the custody paper. It is correct on the sample. The labels 363 had wrong number

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11/25/91 5PM		11/25 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/25 1600		11-25 6PM

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

EZE Cooler # _____
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 11-25-91 1800

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-26-91 1030

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-25-91 seal name: _____
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES (NO)
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-26-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES (NO)
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

J:\WP\CHEMCON\CRF.01

#16 (Called David Pate on 11-26-91. The ID on the Custody paper is correct. on Sample 21.2 The Vial ID had the wrong number.

WWC

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 5

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
82	11/26	855	S	IO1311	1	00A	00L	✓	1	X			
83		900	S	IO1311	1	00B	00L	✓	1	X			
84		904	S	IO1311	1	00C	00L	✓	1	X			
85		913	S	IO1311	2	00A	00L	✓	1	X			
86		915	S	IO1311	2	00B	00L	✓	1	X			
87		916	S	IO1311	2	00C	00L	✓	1	X			
388		950	S	IO1302	1	00A	00L	✓	1	X			
89		953	S	IO1302	1	00B	00L	✓	1	X			
390		955	S	IO1302	1	00C	00L	✓	1	X			
91		1000	S	IO1302	2	00A	00L	✓	1	X			
392		1003	S	IO1302	2	00B	00L	✓	1	X			
93		1005	S	IO1302	2	00C	00L	✓	1	X			
94		1000	S	IO1302	2	00A	0LM	✓	1	X			
395		1003	S	IO1302	2	00B	0LM	✓	1	X			
96		1005	S	IO1302	2	00C	0LM	✓	1	X			
397		1000	S	IO1302	2	00A	0LX	✓	1	X			
98		1003	S	IO1302	2	00B	0LX	✓	1	X			
399		1005	S	IO1302	2	00C	0LX	✓	1	X			
0		1036	S	IO1316	1	00A	00L	✓	1	X			
401		1038	S	IO1316	1	00B	00L	✓	1	X			
02		1040	S	IO1316	1	00C	00L	✓	1	X			
03		1045	S	IO1316	2	00A	00L	✓	1	X			
04		1047	S	IO1316	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/26/91 4:50PM	[signature]	11/26 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/26 1820	[signature]	11/26 / 6:20
METHOD OF SHIPMENT: WCC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
15	11/26	1049	S I01316 2 00C 00L	1	X			
406		1115	S I01324 1 00A 00L	1	X			
7		1117	S I01324 1 00B 00L	1	X			
408		1119	S I01324 1 00C 00L	1	X			
9		1129	S I01324 2 00A 00L	1	X			
10		1131	S I01324 2 00B 00L	1	X			
411		1133	S I01324 2 00C 00L	1	X			
2		1129	S I01324 2 00A 00L	1	X			
413		1131	S I01324 2 00B 00L	1	X			
4		1133	S I01324 2 00C 00L	1	X			
415		1129	S I01324 2 00A 00L	1	X			
16		1131	S I01324 2 00B 00L	1	X			
17		1133	S I01324 2 00C 00L	1	X			
18		130	S I01324 1 00A 00L	1	X			
19		132	S I01324 1 00B 00L	1	X			
420		134	S I01324 1 00C 00L	1	X			
21		144	S I01324 2 00A 00L	1	X			
422		146	S I01324 2 00B 00L	1	X			
23		148	S I01324 2 00C 00L	1	X			
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11/26/91 450 PM		11/26 5:43
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/26 1820		11/26 6:2
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
24	11/21/91	0830	S	EL1606	1	00A	00L	✓	1	X			
425		0834	S	EL1606	1	00B	00L	✓	1	X			
426		0838	S	EL1606	1	00C	00L	✓	1	X			
427		0840	S	EL1606	2	00A	00L	✓	1	X			
428		0850	S	EL1606	2	00B	00L	✓	1	X			
429		0852	S	EL1606	2	00C	00L	✓	1	X			
430		0917	S	EL1609	1	00A	00L	✓	1	X			
31		0921	S	EL1609	1	00B	00L	✓	1	X			
432		0924	S	EL1609	1	00C	00L	✓	1	X			
33		0931	S	EL1609	2	00A	00L	✓	1	X			
434		0935	S	EL1609	2	00B	00L	✓	1	X			
435		0938	S	EL1609	2	00C	00L	✓	1	X			
36		1018	S	AL1218	1	00A	00L	✓	1	X			
437		1022	S	AL1218	1	00B	00L	✓	1	X			
38		1026	S	AL1218	1	00C	00L	✓	1	X			
439		1035	S	AL1218	2	00A	00L	✓	1	X			
40		1035	S	AL1218	2	00A	00M	✓	1	X			
441		1035	S	AL1218	2	00A	00X	✓	1	X			
42		1039	S	AL1218	2	00B	00L	✓	1	X			
443		1039	S	AL1218	2	00B	00M	✓	1	X			
44		1039	S	AL1218	2	00A	00X	✓	1	X			
445		1043	S	AL1218	2	00C	00L	✓	1	X			
446		1043	S	AL1218	2	00C	00M	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	11/26/91 5:15		11/26 545
RELINQUISHED BY: (Signature)	**DATE / TIME**	**RECEIVED AT LAB BY: (Signature)**	**DATE / TIME**
	11/26 1820		11/26 / 6:20

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2	11/26/91	1043	S	AL1218	2	00C	00X	✓	1	X			
46		1117	S	AL1224	1	00A	00L	✓	1	X			
9		1121	S	AL1224	1	00B	00L	✓	1	X			
50		1125	S	AL1224	1	00C	00L	✓	1	X			
7		1133	S	AL1224	2	00A	00L	✓	1	X			
52		1136	S	AL1224	2	00B	00L	✓	1	X			
53		1139	S	AL1224	2	00C	00L	✓	1	X			
4		1324	S	RE1114	1	00A	00L	✓	1	X			
55		1330	S	RE1114	1	00B	00L	✓	1	X			
6		1334	S	RE1114	1	00C	00L	✓	1	X			
57		1337	S	RE1114	2	00A	00L	✓	1	X			
8		1340	S	RE1114	2	00B	00L	✓	1	X			
59		1344	S	RE1114	2	00C	00L	✓	1	X			
0		1410	S	GW1108	1	00A	00L	✓	1	X			
1		1413	S	GW1108	1	00B	00L	✓	1	X			
2		1416	S	GW1108	1	00C	00L	✓	1	X			
3		1424	S	GW1108	2	00A	00L	✓	1	X			
64		1427	S	GW1108	2	00B	00L	✓	1	X			
5		1430	S	GW1108	2	00C	00L	✓	1	X			
66		1450	S	GW1105	1	00A	00L	✓	1	X			
7		1454	S	GW1105	1	00B	00L	✓	1	X			
68		1458	S	GW1105	1	00C	00L	✓	1	X			
9		1506	S	GW1105	2	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	11/26/91 515	[signature]	11/26 545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/26 1820	[signature]	11/26/6:2

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	11/26/91	1510	S	GW1L05	2	00B	00L	✓	1	X			
71	↓	1574	S	GW1L05	2	00C	00L	✓	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	11/26/91 5:15	[illegible]	11/26 595
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/26 1820	[illegible]	11/26 6:20

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # _____
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 11-26-91 1820

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-27-91 1030

by (print) Cami Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 11-26-91, seal name: _____
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO. If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 11-27-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Cooler with Ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA (YES) NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

/:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WWL2

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) Wendy Rebolt

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
472	11/27/91	0750	S	AL1200	L	00A	00L	/	1	X			
473		0750	S	AL1200	L	00A	00D	/	1	X			
474		0755	S	AL1200	L	00B	00L	/	1	X			
475		0755	S	AL1200	L	00B	00D	/	1	X			
476		0800	S	AL1200	L	00C	00L	/	1	X			
477		0800	S	AL1200	L	00C	00D	/	1	X			
478		0804	S	AL1200	2	00A	00L	/	1	X			
479		0808	S	AL1200	2	00B	00L	/	1	X			
480		0812	S	AL1200	2	00C	00L	/	1	X			
481		0840	S	IL1920	L	00A	00L	/	1	X			
482		0840	S	IL1920	L	00A	00D	/	1	X			
483		0845	S	IL1920	L	00B	00L	/	1	X			
484		0845	S	IL1920	L	00B	00D	/	1	X			
485		0850	S	IL1920	L	00C	00L	/	1	X			
486		0850	S	IL1920	1	00C	00D	/	1	X			
487		0856	S	IL1920	2	00A	00L	/	1	X			
488		0900	S	IL1920	2	00B	00L	/	1	X			
489		0904	S	IL1920	2	00C	00L	/	1	X			
490		0928	S	MC1033	L	00A	00L	/	1	X			
491		0928	S	MC1033	L	00A	00D	/	1	X			
492		0932	S	MC1033	L	00B	00L	/	1	X			
493		0932	S	MC1033	L	00B	00D	/	1	X			
494		0936	S	MC1033	L	00C	00L	/	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/27 1150	[illegible]	11/27 1200
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/27 1250	[illegible]	11/27 1250

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WWL

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
495	11/27/91	0932	S	MCL033	1	00C	0LD	/	1	X			
496	↓	0942	S	MCL033	2	00A	00L	/	1	X			
497	↓	0946	S	MCL033	2	00B	00L	/	1	X			
498	↓	0950	S	MCL033	2	00C	00L	/	1	X			
499	11/18/91	0210	S	EDL635	1	00A	0LD	/	1	X			
500	11/18/91	0220	S	EDL635	1	00C	0LD	/	1	X			
501	11/18/91	0215	S	EDL635	1	00B	0LD	/	1	X			
			S						Nothing follows Karen Meyer 11/27/91				
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/27 11:50	[signature]	11/27 12
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	11/27 1250	Carol Cash	11-27 12
METHOD OF SHIPMENT: WCC empl		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 1

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
502	12/2	750	SE00801 1 00A00L	1	X			
503		753	SE00801 1 00B00L	1	X			
504		755	SE00801 1 00C00L	1	X			
505		758	SE00801 2 00A00L	1	X			
506		800	SE00801 2 00B00L	1	X			
507		803	SE00801 2 00C00L	1	X			
508		852	SE01002 1 00A00L	1	X			
509		855	SE01002 1 00B00L	1	X			
510		900	SE01002 1 00C00L	1	X			
511		907	SE01002 2 00A00L	1	X			
512		910	SE01002 2 00B00L	1	X			
513		913	SE01002 2 00C00L	1	X			
514		852	SE01002 1 00A00LD	1	X			
515		855	SE01002 1 00B00LD	1	X			
516		900	SE01002 1 00C00LD	1	X			
			S		Nothing Follows			
			S		Greg Hagerty 12-2-91			
			S					
			S					
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Greg Hagerty	12-2 1200	[illegible]	12-2-91 1200
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
METHOD OF SHIPMENT: WCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
17	12/3	739	S E01235 1 00A004	1	X			
28		745	S E01235 1 00B004	1	X			
29		749	S E01235 1 00C004	1	X			
30		800	S E01235 2 00A004	1	X			
31		810	S E01235 2 00B004	1	X			
32		815	S E01235 2 00C004	1	X			
33		835	S E01234 1 00A004	1	X			
34		840	S E01234 1 00B004	1	X			
35		843	S E01234 1 00C004	1	X			
36		850	S E01234 2 00A004	1	X			
37		855	S E01234 2 00B004	1	X			
38		900	S E01234 2 00C004	1	X			
39		930	S E01230 1 00A004	1	X			
40		934	S E01230 1 00B004	1	X			
41		936	S E01230 1 00C004	1	X			
42		940	S E01230 2 00A004	1	X			
43		943	S E01230 2 00B004	1	X			
544		945	S E01230 2 00C004	1	X			
45		1011	S E01031 1 00A004	1	X			
546		1013	S E01031 1 00B004	1	X			
47		1015	S E01031 1 00C004	1	X			
548		1021	S E01031 2 00A004	1	X			
49		1023	S E01031 2 00B004	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Padilla	12/3/91 5:40pm		12/3 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	12/3 1630		12-3 6:30 P
METHOD OF SHIPMENT: UCC employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 1

WWC

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
17 12-2-91	11:15	S VE0002 1 00J00T	1	← time on gas seep 1105			
18 12-2-91	13:05	S VE0004 1 00J00T	1		1		
19 12-2-91	14:35	S VE0005 1 00L00T	1		1		
		S	Nothing Follows				
		S	Karen Meyer				
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/2 4:35		12/2 1635
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	12/2 1635	John Gemoules	12-2-91 6:-
METHOD OF SHIPMENT: NEL Employee		AIRBILL NO: (If Applicable)	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry R

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SWT2612100A00L	WWC2*768	12/06/91	12/06/91	25.1		12/19/91	WHP
SWT2612100B00L	WWC2*769	12/06/91	12/06/91	19.7		12/19/91	WHP
SWT2612100C00L	WWC2*770	12/06/91	12/06/91	27.3		12/19/91	WHP
SWT2612200A00L	WWC2*771	12/06/91	12/06/91	21.2		12/19/91	WHP
SWT2612200B00L	WWC2*772	12/06/91	12/06/91	18.9		12/19/91	WHP
SWT2612200C00L	WWC2*773	12/06/91	12/06/91	18.0		12/19/91	WHP
SJE2002100A00L	WWC2*774	12/06/91	12/06/91	21.9		12/19/91	WHP
SJE2002100B00L	WWC2*775	12/06/91	12/06/91	19.1		12/19/91	WHP
SJE2002100C00L	WWC2*776	12/06/91	12/06/91	15.4		12/19/91	WHP
SJE2002200A00L	WWC2*777	12/06/91	12/06/91	25.3		12/19/91	WHP
SJE2002200B00L	WWC2*778	12/06/91	12/06/91	21.6		12/19/91	WHP
SJE2002200C00L	WWC2*779	12/06/91	12/06/91	22.1		12/19/91	WHP
SDE1732100A00L	WWC2*780	12/06/91	12/06/91	19.4		12/19/91	WHP
SDE1732100B00L	WWC2*781	12/06/91	12/06/91	17.4		12/19/91	WHP
SDE1732100C00L	WWC2*782	12/06/91	12/06/91	17.3		12/19/91	WHP
SDE1732200A00L	WWC2*783	12/06/91	12/06/91	22.3		12/19/91	WHP
SDE1732200B00L	WWC2*784	12/06/91	12/06/91	17.8		12/19/91	WHP
SDE1732200C00L	WWC2*785	12/06/91	12/06/91	17.2		12/19/91	WHP
SOL1646100A00L	WWC2*786	12/06/91	12/06/91	19.9		12/19/91	WHP
SOL1046100B00L	WWC2*787	12/06/91	12/06/91	17.7		12/19/91	WHP
SOL1646100C00L	WWC2*788	12/06/91	12/06/91	16.4		12/19/91	WHP
SOL1646200A00L	WWC2*789	12/06/91	12/06/91	20.2		12/19/91	WHP
SOL1646200B00L	WWC2*790	12/06/91	12/06/91	19.2		12/19/91	WHP
SOL1646200C00L	WWC2*791	12/06/91	12/06/91	20.6		12/19/91	WHP
SOL1647100A00L	WWC2*792	12/06/91	12/06/91	20.9		12/19/91	WHP
SOL1647100B00L	WWC2*793	12/06/91	12/06/91	19.7		12/19/91	WHP
SOL1647100C00L	WWC2*794	12/06/91	12/06/91	22.1		12/19/91	WHP
SSP1602100A00L	WWC2*795	12/06/91	12/06/91	19.3		12/19/91	WHP
SSP1602100B00L	WWC2*796	12/06/91	12/06/91	18.8		12/19/91	WHP
SSP1602100C00L	WWC2*797	12/06/91	12/06/91	18.3		12/19/91	WHP
SSP1602200A00L	WWC2*798	12/06/91	12/06/91	19.4		12/19/91	WHP
SSP1602200B00L	WWC2*799	12/06/91	12/06/91	18.4		12/19/91	WHP
SSP1602200C00L	WWC2*800	12/06/91	12/06/91	19.2		12/19/91	WHP
SSP1614100A00L	WWC2*801	12/06/91	12/06/91	19.9		12/19/91	WHP
SSP1614100B00L	WWC2*802	12/06/91	12/06/91	18.9		12/19/91	WHP
SSP1614100C00L	WWC2*803	12/06/91	12/06/91	17.4		12/19/91	WHP
SSP1614200A00L	WWC2*804	12/06/91	12/06/91	24.0		12/19/91	WHP
SPP1614200B00L	WWC2*805	12/06/91	12/06/91	22.4		12/19/91	WHP
SSP1614200C00L	WWC2*806	12/06/91	12/06/91	22.4		12/19/91	WHP
SNI0807100A00L	WWC2*807	12/06/91	12/06/91	25.5		12/19/91	WHP
SNI0807100B00L	WWC2*808	12/06/91	12/06/91	20.7		12/19/91	WHP
SNI0807100C00L	WWC2*809	12/06/91	12/06/91	20.4		12/19/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SNI0807200A00L	WWC2*810	12/06/91	12/06/91	22.5		12/19/91	WHP
SNI0807200B00L	WWC2*811	12/06/91	12/06/91	19.6		12/19/91	WHP
SNI0807200C00L	WWC2*812	12/06/91	12/06/91	20.7		12/19/91	WHP
SNI0830100A00L	WWC2*813	12/06/91	12/06/91	24.2		12/19/91	WHP
SNI0830100B00L	WWC2*814	12/06/91	12/06/91	38.7		12/19/91	WHP
SNI0830100C00L	WWC2*815	12/06/91	12/06/91	19.6		12/19/91	WHP
SNI0830200A00L	WWC2*816	12/06/91	12/06/91	23.6		12/19/91	WHP
SNI0830200B00L	WWC2*817	12/06/91	12/06/91	21.7		12/19/91	WHP
SNI0830200C00L	WWC2*818	12/06/91	12/06/91	23.4		12/19/91	WHP
SMC0909100A00L	WWC2*819	12/09/91	12/09/91	22.3		12/19/91	WHP
SMC0909100B00L	WWC2*820	12/09/91	12/09/91	20.4		12/19/91	WHP
SMC0909100C00L	WWC2*821	12/09/91	12/09/91	19.8		12/19/91	WHP
SMC0909200A00L	WWC2*822	12/09/91	12/09/91	25.2		12/19/91	WHP
SMC0909200B00L	WWC2*823	12/09/91	12/09/91	24.0		12/19/91	WHP
SMC0909200C00L	WWC2*824	12/09/91	12/09/91	19.2		12/19/91	WH
SMC0909100A0LD	WWC2*825	12/09/91	12/09/91	22.1		12/19/91	WHL
SMC0909100B0LD	WWC2*826	12/09/91	12/09/91	20.0		12/19/91	WHP
SMC0909100C0LD	WWC2*827	12/09/91	12/09/91	20.9		12/19/91	WHP
SWS0811100A00L	WWC2*828	12/09/91	12/09/91	24.8		12/19/91	WHP
SWS0811100B00L	WWC2*829	12/09/91	12/09/91	21.2		12/19/91	WHP
SWS0811100C00L	WWC2*830	12/09/91	12/09/91	13.6		12/19/91	WHP
SWS0811200A00L	WWC2*831	12/09/91	12/09/91	17.9		12/19/91	WHP
SWS0811200B00L	WWC2*832	12/09/91	12/09/91	20.5		12/19/91	WHP
SWS0811200C00L	WWC2*833	12/09/91	12/09/91	24.8		12/19/91	WHP
SWS0811100A0LD	WWC2*834	12/09/91	12/09/91	25.1		12/19/91	WHP
SWS0811100B0LD	WWC2*835	12/09/91	12/09/91	19.2		12/19/91	WHP
SWS0811100C0LD	WWC2*836	12/09/91	12/09/91	13.8		12/19/91	WHP
SWS1013100A00L	WWC2*837	12/09/91	12/09/91	20.0		12/19/91	WHP
SWS1013100B00L	WWC2*838	12/09/91	12/09/91	20.3		12/19/91	WHP
SWS1013100C00L	WWC2*839	12/09/91	12/09/91	20.1		12/19/91	WHP
SWS1013200A00L	WWC2*840	12/09/91	12/09/91	24.0		12/19/91	WHP
SWS1013200B00L	WWC2*841	12/09/91	12/09/91	21.1		12/19/91	WHP
SWS1013200C00L	WWC2*842	12/09/91	12/09/91	21.9		12/19/91	WHP
SWS1203100A00L	WWC2*843	12/09/91	12/09/91	22.4		12/19/91	WHP
SWS1203100B00L	WWC2*844	12/09/91	12/09/91	18.3		12/19/91	WHP
SWS1203100C00L	WWC2*845	12/09/91	12/09/91	18.6		12/19/91	WHP
SWS1203200A00L	WWC2*846	12/09/91	12/09/91	23.1		12/19/91	WHP
SWS1203200B00L	WWC2*847	12/09/91	12/09/91	20.3		12/19/91	WHP
SWS1203200C00L	WWC2*848	12/09/91	12/09/91	17.7		12/19/91	WHP
SIO1238100A00L	WWC2*849	12/09/91	12/09/91	19.4		12/19/91	WHP
SIO1238100B00L	WWC2*850	12/09/91	12/09/91	18.3		12/19/91	WHP
SIO1238100C00L	WWC2*851	12/09/91	12/09/91	17.3		12/19/91	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL1929100A00L	WWC2*894	12/09/91	12/09/91	16.6		12/19/91	WHP
SCL1929100B00L	WWC2*895	12/09/91	12/09/91	16.2		12/19/91	WHP
SCL1929100C00L	WWC2*896	12/09/91	12/09/91	17.9		12/19/91	WHP
SCL1929100A0LD	WWC2*897	12/09/91	12/09/91	17.9		12/19/91	WHP
SCL1929100B0LD	WWC2*898	12/09/91	12/09/91	16.1		12/19/91	WHP
SCL1929100C0LD	WWC2*899	12/09/91	12/09/91	16.4		12/19/91	WHP
SCL1929200A00L	WWC2*900	11/20/91	12/09/91	20.3		12/19/91	WHP
SCL1929200B00L	WWC2*901	11/20/91	12/09/91	12.2		12/19/91	WHP
SCL1929200C00L	WWC2*902	11/20/91	12/09/91	15.0		12/19/91	WHP

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO1238200A00L	WWC2*852	12/09/91	12/09/91	19.6		12/19/91	WHP
SIO1238200B00L	WWC2*853	12/09/91	12/09/91	18.6		12/19/91	WHP
SIO1238200C00L	WWC2*854	12/09/91	12/09/91	18.0		12/19/91	WHP
SIO1408100A00L	WWC2*855	12/09/91	12/09/91	21.2		12/19/91	WHP
SIO1408100B00L	WWC2*856	12/09/91	12/09/91	22.4		12/19/91	WHP
SIO1408100C00L	WWC2*857	12/09/91	12/09/91	23.2		12/19/91	WHP
SIO1408200A00L	WWC2*858	12/09/91	12/09/91	22.9		12/19/91	WHP
SIO1408200B00L	WWC2*859	12/09/91	12/09/91	22.8		12/19/91	WHP
SIO1408200C00L	WWC2*860	12/09/91	12/09/91	21.3		12/19/91	WHP
SIO1408100A0LD	WWC2*861	12/09/91	12/09/91	21.4		12/19/91	WHP
SIO1408100B0LD	WWC2*862	12/09/91	12/09/91	22.1		12/19/91	WHP
SIO1408100C0LD	WWC2*863	12/09/91	12/09/91	22.8		12/19/91	WHP
SME0618100A00L	WWC2*864	12/09/91	12/09/91	20.2		12/19/91	WHP
SME0618100B00L	WWC2*865	12/09/91	12/09/91	20.3		12/19/91	WHP
SME0618100C00L	WWC2*866	12/09/91	12/09/91	16.3		12/19/91	WHP
SME0618200A00L	WWC2*867	12/09/91	12/09/91	20.7		12/19/91	WHP
SME0618200B00L	WWC2*868	12/09/91	12/09/91	19.8		12/19/91	WHP
SME0618200C00L	WWC2*869	12/09/91	12/09/91	23.6		12/19/91	WHP
SME0618200A0LM	WWC2*870	12/09/91	12/09/91	17.9		12/19/91	WHP
SME0618200B0LM	WWC2*871	12/09/91	12/09/91	22.4		12/19/91	WHP
SME0618200C0LM	WWC2*872	12/09/91	12/09/91	25.5		12/19/91	WHP
SME0618200A0LX	WWC2*873	12/09/91	12/09/91	20.5		12/19/91	WHP
SME0618200B0LX	WWC2*874	12/09/91	12/09/91	20.7		12/19/91	WHP
SME0618200C0LX	WWC2*875	12/09/91	12/09/91	24.1		12/19/91	WHP
SST0814100A00L	WWC2*876	12/09/91	12/09/91	23.4		12/19/91	WHP
SST0814100B00L	WWC2*877	12/09/91	12/09/91	12.8		12/19/91	WHP
SST0814100C00L	WWC2*878	12/09/91	12/09/91	17.8		12/19/91	WHP
SST0814200A00L	WWC2*879	12/09/91	12/09/91	22.4		12/19/91	WHP
SST0814200B00L	WWC2*880	12/09/91	12/09/91	20.0		12/19/91	WHP
SST0814200C00L	WWC2*881	12/09/91	12/09/91	19.5		12/19/91	WHP
SST0814200A0LM	WWC2*882	12/09/91	12/09/91	22.2		12/19/91	WHP
SST0814200B0LM	WWC2*883	12/09/91	12/09/91	20.4		12/19/91	WHP
SST0814200C0LM	WWC2*884	12/09/91	12/09/91	18.9		12/19/91	WHP
SST0814200A0LX	WWC2*885	12/09/91	12/09/91	20.7		12/19/91	WHP
SST0814200B0LX	WWC2*886	12/09/91	12/09/91	20.6		12/19/91	WHP
SST0814200C0LX	WWC2*887	12/09/91	12/09/91	19.4		12/19/91	WHP
SGR1327100A00L	WWC2*888	12/09/91	12/09/91	24.6		12/19/91	WHP
SGR1327100B00L	WWC2*889	12/09/91	12/09/91	21.7		12/19/91	WHP
SGR1327100C00L	WWC2*890	12/09/91	12/09/91	19.6		12/19/91	WHP
SGR1327200A00L	WWC2*891	12/09/91	12/09/91	20.0		12/19/91	WHP
SGR1327200B00L	WWC2*892	12/09/91	12/09/91	20.3		12/19/91	WHP
SGR1327200C00L	WWC2*893	12/09/91	12/09/91	21.7		12/19/91	WHP

ESE Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SWS0911100A00L	WWC2*1	11/20/91	11/20/91	226	8.1	12/06/91	12/10/91	JWC
SWS0911100B00L	WWC2*2	11/20/91	11/20/91	124	8.0	12/06/91	12/10/91	JWC
SWS0911100C00L	WWC2*3	11/20/91	11/20/91	52.0	8.2	12/06/91	12/10/91	JWC
SWS0911200A00L	WWC2*4	11/20/91	11/20/91	398	7.6	12/06/91	12/10/91	JWC
SWS0911200B00L	WWC2*5	11/20/91	11/20/91	235	7.9	12/06/91	12/10/91	JWC
SWS0911200C00L	WWC2*6	11/20/91	11/20/91	146	7.9	12/05/91	12/10/91	JWC
SWS0917100A00L	WWC2*7	11/20/91	11/20/91	179	8.5	12/06/91	12/10/91	JWC
SWS0917100B00L	WWC2*8	11/20/91	11/20/91	95.9	7.9	12/06/91	12/10/91	JWC
SWS0917100C00L	WWC2*9	11/20/91	11/20/91	66.7	8.2	12/06/91	12/10/91	JWC
SWS0917200A00L	WWC2*10	11/20/91	11/20/91	170	7.4	12/06/91	12/10/91	JWC
SWS0917200B00L	WWC2*11	11/20/91	11/20/91	116	7.7	12/06/91	12/10/91	JWC
SWS0917200C00L	WWC2*12	11/20/91	11/20/91	86.8	7.5	12/06/91	12/10/91	JWC
SWS0919100A00L	WWC2*13	11/20/91	11/20/91	314	8.1	12/06/91	12/10/91	JWC
SWS0919100B00L	WWC2*14	11/20/91	11/20/91	184	7.7	12/06/91	12/10/91	JWC
SWS0919100C00L	WWC2*15	11/20/91	11/20/91	83.6	7.3	12/06/91	12/10/91	JWC
SWS0919200A00L	WWC2*16	11/20/91	11/20/91	120	7.8	12/06/91	12/10/91	JWC
SWS0919200B00L	WWC2*17	11/20/91	11/20/91	645	8.3	12/05/91	12/10/91	JWC
SWS0919200C00L	WWC2*18	11/20/91	11/20/91	349	8.2	12/05/91	12/10/91	JWC
SWS0921100A00L	WWC2*19	11/20/91	11/20/91	306	7.6	12/05/91	12/10/91	JWC
SWS0921100B00L	WWC2*20	11/20/91	11/20/91	255	8.3	12/06/91	12/10/91	JWC
SWS0921100C00L	WWC2*21	11/20/91	11/20/91	88.4	7.7	12/06/91	12/10/91	JWC
SWS0921200A00L	WWC2*22	11/20/91	11/20/91	719	8.4	12/05/91	12/10/91	JWC
SWS0921200B00L	WWC2*23	11/20/91	11/20/91	619	9.1	12/06/91	12/10/91	JWC
SWS0921200C00L	WWC2*24	11/20/91	11/20/91	417	7.9	12/06/91	12/10/91	JWC
SWS0813100A00L	WWC2*25	11/20/91	11/20/91	192	8.2	12/06/91	12/10/91	JWC
SWS0813100B00L	WWC2*26	11/20/91	11/20/91	277	7.9	12/06/91	12/10/91	JWC
SWS0813100C00L	WWC2*27	11/20/91	11/20/91	103	7.7	12/06/91	12/10/91	JWC
SWS0813200A00L	WWC2*28	11/20/91	11/20/91	352	7.0	12/06/91	12/10/91	JWC
SWS0813200B00L	WWC2*29	11/20/91	11/20/91	180	7.6	12/06/91	12/10/91	JWC
SWS0813200C00L	WWC2*30	11/20/91	11/20/91	157	7.0	12/06/91	12/10/91	JWC
SWS1001100A00L	WWC2*31	11/20/91	11/20/91	487	7.4	12/06/91	12/10/91	JWC
SWS1001100B00L	WWC2*32	11/20/91	11/20/91	351	7.8	12/06/91	12/10/91	JWC
SWS1001100C00L	WWC2*33	11/20/91	11/20/91	122	7.6	12/06/91	12/10/91	JWC
SWS1001200A00L	WWC2*34	11/20/91	11/20/91	220	7.1	12/06/91	12/10/91	JWC
SWS1001200B00L	WWC2*35	11/20/91	11/20/91	59.9	8.1	12/06/91	12/10/91	JWC
SWS1001200C00L	WWC2*36	11/20/91	11/20/91	98.2	7.2	12/06/91	12/10/91	JWC
SKE1609100A00L	WWC2*37	11/20/91	11/20/91	330	7.9	12/06/91	12/10/91	JWC
SKE1609100B00L	WWC2*38	11/20/91	11/20/91	273	7.7	12/06/91	12/10/91	JWC
SKE1609100C00L	WWC2*39	11/20/91	11/20/91	163	6.7	12/06/91	12/10/91	JWC
SKE1609200A00L	WWC2*40	11/20/91	11/20/91	233	8.5	12/06/91	12/10/91	JWC
SKE1609200B00L	WWC2*41	11/20/91	11/20/91	107	7.8	12/06/91	12/10/91	JWC
SKE1609200C00L	WWC2*42	11/20/91	11/20/91	165	6.8	12/06/91	12/10/91	JWC

LEAD ANALYSIS

Pages 23 - 44

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
STR0003100M00L	WWC2*85	11/20/91	11/20/91	45.5	8.2	12/09/91	12/10/91	JWC
STR0003100N00L	WWC2*86	11/20/91	11/20/91	15.4	7.6	12/09/91	12/10/91	JWC
STR0003100T00L	WWC2*87	11/20/91	11/20/91	ND	6.8	12/09/91	12/10/91	JWC
STR0003100T0LM	WWC2*88	11/20/91	11/20/91	ND	7.0	12/09/91	12/10/91	JWC
STR0003100T0LX	WWC2*89	11/20/91	11/20/91	ND	7.3	12/09/91	12/10/91	JWC
STR000410AC00L	WWC2*90	11/20/91	11/20/91	362	7.8	12/09/91	12/10/91	JWC
STR0004100D00L	WWC2*91	11/20/91	11/20/91	445	8.4	12/09/91	12/10/91	JWC
STR0004100K00L	WWC2*92	11/20/91	11/20/91	454	9.1	12/09/91	12/10/91	JWC
STR0004100L00L	WWC2*93	11/20/91	11/20/91	123	9.0	12/09/91	12/10/91	JWC
STR0004100M00L	WWC2*94	11/20/91	11/20/91	18.0	8.9	12/09/91	12/10/91	JWC
STR0004100M0LD	WWC2*95	11/20/91	11/20/91	36.8	8.1	12/09/91	12/10/91	JWC
STR0004100N00L	WWC2*96	11/20/91	11/20/91	11.5	7.1	12/09/91	12/10/91	JWC
STR0004100T00L	WWC2*97	11/20/91	11/20/91	12.5	7.5	12/09/91	12/10/91	JWC
SRO000110AC00L	WWC2*98	11/20/91	11/20/91	1330	6.6	12/09/91	12/10/91	JWC
SRO00001100D00L	WWC2*99	11/20/91	11/20/91	715	7.7	12/09/91	12/10/91	JWC
SRO00001100K00L	WWC2*100	11/20/91	11/20/91	329 J	8.7	12/09/91	12/10/91	JW
SRO00001100K0LD	WWC2*101	11/20/91	11/20/91	677	8.7	12/09/91	12/10/91	JWC
SRO00001100L00L	WWC2*102	11/20/91	11/20/91	53.1	8.0	12/09/91	12/10/91	JWC
SRO00001100M00L	WWC2*103	11/20/91	11/20/91	21.4	8.3	12/09/91	12/10/91	JWC
SRO00001100N00L	WWC2*104	11/20/91	11/20/91	11.8	8.2	12/09/91	12/10/91	JWC
SRO00001100T00L	WWC2*105	11/20/91	11/20/91	ND	7.7	12/09/91	12/10/91	JWC
SGW1014100A00L	WWC2*106	11/21/91	11/21/91	344	8.4	12/09/91	12/10/91	JWC
SGW1014100B00L	WWC2*107	11/21/91	11/21/91	270	7.7	12/09/91	12/10/91	JWC
SGW1014100C00L	WWC2*108	11/21/91	11/21/91	335	7.5	12/09/91	12/10/91	JWC
SGW1014200A00L	WWC2*109	11/21/91	11/21/91	1170	7.5	12/09/91	12/10/91	JWC
SGW1014200B00L	WWC2*110	11/21/91	11/21/91	645	8.1	12/09/91	12/10/91	JWC
SGW1014200C00L	WWC2*111	11/21/91	11/21/91	469	8.5	12/09/91	12/10/91	JWC
SGW1018100A00L	WWC2*112	11/21/91	11/21/91	253	8.9	12/09/91	12/10/91	JWC
SGW1018100B00L	WWC2*113	11/21/91	11/21/91	247	7.9	12/09/91	12/10/91	JWC
SGW1018100C00L	WWC2*114	11/21/91	11/21/91	343	8.0	12/09/91	12/10/91	JWC
SGW1018200A00L	WWC2*115	11/21/91	11/21/91	370	8.5	12/09/91	12/10/91	JWC
SGW1018200B00L	WWC2*116	11/21/91	11/21/91	334	8.2	12/09/91	12/10/91	JWC
SGW1018200C00L	WWC2*117	11/21/91	11/21/91	263	7.5	12/09/91	12/10/91	JWC
SGW1036100A00L	WWC2*118	11/21/91	11/21/91	355	8.0	12/09/91	12/10/91	JWC
SGW1036100B00L	WWC2*119	11/21/91	11/21/91	311	7.6	12/09/91	12/10/91	JWC
SGW1036100C00L	WWC2*120	11/21/91	11/21/91	94.1	7.8	12/09/91	12/10/91	JWC
SGW1036200A00L	WWC2*121	11/21/91	11/21/91	357	7.8	12/09/91	12/10/91	JWC
SGW1036200B00L	WWC2*122	11/21/91	11/21/91	324	7.9	12/09/91	12/10/91	JWC
SGW1036200C00L	WWC2*123	11/21/91	11/21/91	210	7.6	12/09/91	12/10/91	JWC
SGW1024100A00L	WWC2*124	11/21/91	11/21/91	226	8.3	12/09/91	12/10/91	JWC
SGW1024100B00L	WWC2*125	11/21/91	11/21/91	243	7.6	12/09/91	12/10/91	JWC
SGW1024100C00L	WWC2*126	11/21/91	11/21/91	121	7.9	12/09/91	12/10/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Re:

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SKE1722100A00L	WWC2*43	11/20/91	11/20/91	69.9	8.2	12/06/91	12/10/91	JWC
SKE1722100B00L	WWC2*44	11/20/91	11/20/91	103	8.2	12/06/91	12/10/91	JWC
SKE1722100C00L	WWC2*45	11/20/91	11/20/91	43.3	7.5	12/06/91	12/10/91	JWC
SKE1722200A00L	WWC2*46	11/20/91	11/20/91	135	7.9	12/06/91	12/10/91	JWC
SKE1722200B00L	WWC2*47	11/20/91	11/20/91	104	7.6	12/09/91	12/10/91	JWC
SKE1722200C00L	WWC2*48	11/20/91	11/20/91	139	7.9	12/09/91	12/10/91	JWC
SKE1720100A00L	WWC2*49	11/20/91	11/20/91	64.6	7.7	12/09/91	12/10/91	JWC
SKE1720100B00L	WWC2*50	11/20/91	11/20/91	76.2	7.5	12/09/91	12/10/91	JWC
SKE1720100C00L	WWC2*51	11/20/91	11/20/91	76.3	7.7	12/09/91	12/10/91	JWC
SKE1720200A00L	WWC2*52	11/20/91	11/20/91	101	7.3	12/09/91	12/10/91	JWC
SKE1720200B00L	WWC2*53	11/20/91	11/20/91	91.4	7.9	12/09/91	12/10/91	JWC
SKE1720200C00L	WWC2*54	11/20/91	11/20/91	79.7	7.8	12/09/91	12/10/91	JWC
SKE1711100A00L	WWC2*55	11/20/91	11/20/91	20.9	7.7	12/09/91	12/10/91	JWC
SKE1711100B00L	WWC2*56	11/20/91	11/20/91	12.4	7.9	12/09/91	12/10/91	JWC
SKE1711100C00L	WWC2*57	11/20/91	11/20/91	33.8	7.7	12/09/91	12/10/91	JWC
SKE1711200A00L	WWC2*58	11/20/91	11/20/91	88.8	8.2	12/09/91	12/10/91	JWC
SKE1711200B00L	WWC2*59	11/20/91	11/20/91	69.7	7.8	12/09/91	12/10/91	JWC
SKE1711200C00L	WWC2*60	11/20/91	11/20/91	42.4 J	6.9	12/06/91	12/10/91	JWC
SKE1612100A00L	WWC2*61	11/20/91	11/20/91	171	7.5	12/09/91	12/10/91	JWC
SKE1612100B00L	WWC2*62	11/20/91	11/20/91	217	7.5	12/09/91	12/10/91	JWC
SKE1612100C00L	WWC2*63	11/20/91	11/20/91	107	7.0	12/09/91	12/10/91	JWC
SKE1612200A00L	WWC2*64	11/20/91	11/20/91	222	8.2	12/09/91	12/10/91	JWC
SKE1612200B00L	WWC2*65	11/20/91	11/20/91	92.9	7.1	12/09/91	12/10/91	JWC
SKE1612200C00L	WWC2*66	11/20/91	11/20/91	75.2	7.9	12/09/91	12/10/91	JWC
SKE1616100A00L	WWC2*67	11/20/91	11/20/91	198	7.9	12/09/91	12/10/91	JWC
SKE1616100B00L	WWC2*68	11/20/91	11/20/91	119	8.0	12/09/91	12/10/91	JWC
SKE1616100C00L	WWC2*69	11/20/91	11/20/91	76.1	8.4	12/09/91	12/10/91	JWC
SKE1616200A00L	WWC2*70	11/20/91	11/20/91	266	8.8	12/09/91	12/10/91	JWC
SKE1616200B00L	WWC2*71	11/20/91	11/20/91	176	7.8	12/09/91	12/10/91	JWC
SKE1616200C00L	WWC2*72	11/20/91	11/20/91	339	7.8	12/09/91	12/10/91	JWC
STR0001 10AC00L	WWC2*73	11/20/91	11/20/91	56900	622	12/09/91	12/16/91	CAG
STR0001100D00L	WWC2*74	11/20/91	11/20/91	739	6.6	12/09/91	12/10/91	JWC
STR0001100K00L	WWC2*75	11/20/91	11/20/91	107	8.6	12/09/91	12/10/91	JWC
STR0001100L00L	WWC2*76	11/20/91	11/20/91	82.2	8.4	12/09/91	12/10/91	JWC
STR0001100M00L	WWC2*77	11/20/91	11/20/91	29.7	8.4	12/09/91	12/10/91	JWC
STR0001100N00L	WWC2*78	11/20/91	11/20/91	33.2	8.2	12/09/91	12/10/91	JWC
STR0001100T00L	WWC2*79	11/20/91	11/20/91	12.8	7.2	12/09/91	12/10/91	JWC
STR0001100T0LD	WWC2*80	11/20/91	11/20/91	12.7	6.7	12/09/91	12/10/91	JWC
STR000310AC00L	WWC2*81	11/20/91	11/20/91	270	7.1	12/09/91	12/10/91	JWC
STR0003100D00L	WWC2*82	11/20/91	11/20/91	19.0	7.4	12/09/91	12/10/91	JWC
STR0003100K00L	WWC2*83	11/20/91	11/20/91	28.6	8.5	12/09/91	12/10/91	JWC
STR0003100L00L	WWC2*84	11/20/91	11/20/91	22.6	8.7	12/09/91	12/10/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR1323200A00L	WWC2*169	11/21/91	11/21/91	594	8.1	12/10/91	12/10/91	JWC
SGR1323200B00L	WWC2*170	11/21/91	11/21/91	496	7.3	12/10/91	12/10/91	JWC
SGR1323200C00L	WWC2*171	11/21/91	11/21/91	440	7.1	12/10/91	12/10/91	JWC
SGR1309100A00L	WWC2*172	11/21/91	11/21/91	630	8.0	12/10/91	12/10/91	JWC
SGR1309100B00L	WWC2*173	11/21/91	11/21/91	333	7.8	12/10/91	12/10/91	JWC
SGR1309100C00L	WWC2*174	11/21/91	11/21/91	135	8.2	12/10/91	12/10/91	JWC
SGR1309200A00L	WWC2*175	11/21/91	11/21/91	391	7.9	12/10/91	12/10/91	JWC
SGR1309200B00L	WWC2*176	11/21/91	11/21/91	535	7.9	12/10/91	12/10/91	JWC
SGR1309200C00L	WWC2*177	11/21/91	11/21/91	458	7.5	12/10/91	12/10/91	JWC
SGR1105100A00L	WWC2*178	11/21/91	11/21/91	315	7.9	12/10/91	12/10/91	JWC
SGR1105100B00L	WWC2*179	11/21/91	11/21/91	247	7.8	12/10/91	12/10/91	JWC
SGR1105100C00L	WWC2*180	11/21/91	11/21/91	218	7.5	12/10/91	12/10/91	JWC
SGR1105200A00L	WWC2*181	11/21/91	11/21/91	543	9.1	12/10/91	12/10/91	JWC
SGR1105200B00L	WWC2*182	11/21/91	11/21/91	563	8.1	12/10/91	12/10/91	JWC
SGR1105200C00L	WWC2*183	11/21/91	11/21/91	307	8.5	12/10/91	12/10/91	JW
SGR1009100A00L	WWC2*184	11/21/91	11/21/91	170	7.8	12/10/91	12/10/91	JWC
SGR1009100B00L	WWC2*185	11/21/91	11/21/91	174	7.5	12/10/91	12/10/91	JWC
SGR1009100C00L	WWC2*186	11/21/91	11/21/91	174	6.9	12/10/91	12/10/91	JWC
SGR1009200A00L	WWC2*187	11/21/91	11/21/91	281	8.1	12/10/91	12/10/91	JWC
SGR1009200B00L	WWC2*188	11/21/91	11/21/91	235	7.5	12/10/91	12/10/91	JWC
SGR1009200C00L	WWC2*189	11/21/91	11/21/91	176	8.0	12/10/91	12/10/91	JWC
SGR1020100A00L	WWC2*190	11/21/91	11/21/91	685	8.4	12/10/91	12/10/91	JWC
SGR1020100B00L	WWC2*191	11/21/91	11/21/91	762	8.0	12/10/91	12/10/91	JWC
SGR1020100C00L	WWC2*192	11/21/91	11/21/91	562	8.0	12/10/91	12/10/91	JWC
SGR1020200A00L	WWC2*193	11/21/91	11/21/91	673	9.9	12/10/91	12/10/91	JWC
SGR1020200B00L	WWC2*194	11/21/91	11/21/91	506	8.9	12/10/91	12/10/91	JWC
SGR1020200C00L	WWC2*195	11/21/91	11/21/91	446	8.7	12/10/91	12/10/91	JWC
SRO0000210AC00L	WWC2*196	11/21/91	11/21/91	1100	7.9	12/10/91	12/10/91	JWC
SRO0002100D00L	WWC2*197	11/21/91	11/21/91	94.2	7.9	12/10/91	12/10/91	JWC
SRO0002100K00L	WWC2*198	11/21/91	11/21/91	273	8.9	12/10/91	12/10/91	JWC
SRO0002100L00L	WWC2*199	11/21/91	11/21/91	31.6	8.9	12/10/91	12/10/91	JWC
SRO0002100M00L	WWC2*200	11/21/91	11/21/91	89.6	8.3	12/10/91	12/10/91	JWC
SRO0002100N00L	WWC2*201	11/21/91	11/21/91	15.5	8.5	12/10/91	12/12/91	CAG
SRO0002100N0LM	WWC2*202	11/21/91	11/21/91	14.6	8.6	12/10/91	12/12/91	CAG
SRO0002100N0LX	WWC2*203	11/21/91	11/21/91	13.0	8.1	12/10/91	12/12/91	CAG
SRO0002100T00L	WWC2*204	11/21/91	11/21/91	ND	7.3	12/10/91	12/12/91	CAG
SBV000110AC00L	WWC2*205	11/21/91	11/21/91	44600	7.4	12/10/91	12/12/91	CAG
SBV0001100D00L	WWC2*206	11/21/91	11/21/91	859	7.2	12/10/91	12/12/91	CAG
SBV0001100K00L	WWC2*207	11/21/91	11/21/91	227	7.7	12/10/91	12/12/91	CAG
SBV0001100L00L	WWC2*208	11/21/91	11/21/91	203	7.9	12/10/91	12/12/91	CAG
SBV0001100L00L	WWC2*209	11/21/91	11/21/91	56.0	8.7	12/10/91	12/12/91	CAG
SBV0001100M00L	WWC2*210	11/21/91	11/21/91	24.2	8.5	12/10/91	12/12/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGW1024200A00L	WWC2*127	11/21/91	11/21/91	382	8.2	12/09/91	12/10/91	JWC
SGW1024200B00L	WWC2*128	11/21/91	11/21/91	262	7.7	12/09/91	12/10/91	JWC
SGW1024200C00L	WWC2*129	11/21/91	11/21/91	187	8.2	12/09/91	12/10/91	JWC
SGW0940100A00L	WWC2*130	11/21/91	11/21/91	187	7.9	12/09/91	12/10/91	JWC
SGW0940100B00L	WWC2*131	11/21/91	11/21/91	127	8.2	12/09/91	12/10/91	JWC
SGW0940100C00L	WWC2*132	11/21/91	11/21/91	105	7.8	12/09/91	12/10/91	JWC
SGW0940200A00L	WWC2*133	11/21/91	11/21/91	252	7.8	12/09/91	12/10/91	JWC
SGW0940200B00L	WWC2*134	11/21/91	11/21/91	221	7.3	12/09/91	12/10/91	JWC
SGW0940200C00L	WWC2*135	11/21/91	11/21/91	197	8.3	12/09/91	12/10/91	JWC
SGW1009100A00L	WWC2*136	11/21/91	11/21/91	460	8.6	12/09/91	12/10/91	JWC
SGW1009100B00L	WWC2*137	11/21/91	11/21/91	211	7.8	12/09/91	12/10/91	JWC
SGW1009100C00L	WWC2*138	11/21/91	11/21/91	157	7.3	12/09/91	12/10/91	JWC
SGW1009200A00L	WWC2*139	11/21/91	11/21/91	394	8.1	12/09/91	12/10/91	JWC
SGW1009200B00L	WWC2*140	11/21/91	11/21/91	912J	8.9	12/09/91	12/10/91	JWC
SGW1009200C00L	WWC2*141	11/21/91	11/21/91	188	8.2	12/09/91	12/10/91	JWC
SGW1006100A00L	WWC2*142	11/21/91	11/21/91	313	8.4	12/09/91	12/10/91	JWC
SGW1006100B00L	WWC2*143	11/21/91	11/21/91	408	8.2	12/09/91	12/10/91	JWC
SGW1006100C00L	WWC2*144	11/21/91	11/21/91	46.0	8.0	12/09/91	12/10/91	JWC
SGW1006200A00L	WWC2*145	11/21/91	11/21/91	234	7.8	12/09/91	12/10/91	JWC
SGW1006200B00L	WWC2*146	11/21/91	11/21/91	160	7.8	12/09/91	12/10/91	JWC
SGW1006200C00L	WWC2*147	11/21/91	11/21/91	86.6	7.8	12/09/91	12/10/91	JWC
SGR1312100A00L	WWC2*148	11/21/91	11/21/91	448	7.2	12/09/91	12/10/91	JWC
SGR1312100B00L	WWC2*149	11/21/91	11/21/91	396	8.0	12/09/91	12/10/91	JWC
SGR1312100C00L	WWC2*150	11/21/91	11/21/91	506	7.7	12/09/91	12/10/91	JWC
SGR1312200A00L	WWC2*151	11/21/91	11/21/91	728	8.2	12/09/91	12/10/91	JWC
SGR1312200B00L	WWC2*152	11/21/91	11/21/91	659	8.0	12/09/91	12/10/91	JWC
SGR1312200C00L	WWC2*153	11/21/91	11/21/91	737	7.7	12/09/91	12/10/91	JWC
SGR1318100A00L	WWC2*154	11/21/91	11/21/91	959	7.3	12/09/91	12/10/91	JWC
SGR1318100B00L	WWC2*155	11/21/91	11/21/91	785	8.0	12/09/91	12/10/91	JWC
SGR1318100C00L	WWC2*156	11/21/91	11/21/91	149	7.5	12/09/91	12/10/91	JWC
SGR1318200A00L	WWC2*157	11/21/91	11/21/91	856	8.4	12/09/91	12/10/91	JWC
SGR1318200B00L	WWC2*158	11/21/91	11/21/91	298	7.4	12/09/91	12/10/91	JWC
SGR1318200C00L	WWC2*159	11/21/91	11/21/91	434	8.1	12/09/91	12/10/91	JWC
SGR1325100A00L	WWC2*160	11/21/91	11/21/91	1520J	8.5	12/09/91	12/10/91	JWC
SGR1325100B00L	WWC2*161	11/21/91	11/21/91	944	7.9	12/10/91	12/10/91	JWC
SGR1325100C00L	WWC2*162	11/21/91	11/21/91	402	8.9	12/10/91	12/10/91	JWC
SGR1325200A00L	WWC2*163	11/21/91	11/21/91	613	7.4	12/10/91	12/10/91	JWC
SGR1325200B00L	WWC2*164	11/21/91	11/21/91	867	8.3	12/10/91	12/10/91	JWC
SGR1325200C00L	WWC2*165	11/21/91	11/21/91	282	7.7	12/10/91	12/10/91	JWC
SGR1323100A00L	WWC2*166	11/21/91	11/21/91	425	7.9	12/10/91	12/10/91	JWC
SGR1323100B00L	WWC2*167	11/21/91	11/21/91	298	8.0	12/10/91	12/10/91	JWC
SGR1323100C00L	WWC2*168	11/21/91	11/21/91	224	7.8	12/10/91	12/10/91	JWC

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-6030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SRE1016100A00L	WWC2*253	11/22/91	11/22/91	281	7.5	12/10/91	12/12/91	CAG
SRE1016100A0LD	WWC2*254	11/22/91	11/22/91	268	8.3	12/10/91	12/12/91	CAG
SRE1016100B00L	WWC2*255	11/22/91	11/22/91	231	7.7	12/10/91	12/12/91	CAG
SRE1016100B0LD	WWC2*256	11/22/91	11/22/91	269	7.8	12/10/91	12/12/91	CAG
SRE1016100C00L	WWC2*257	11/22/91	11/22/91	162	7.5	12/10/91	12/12/91	CAG
SRE1016100C0LD	WWC2*258	11/22/91	11/22/91	150	7.7	12/10/91	12/12/91	CAG
SRE1016200A00L	WWC2*259	11/22/91	11/22/91	105	8.4	12/10/91	12/12/91	CAG
SRE1016200B00L	WWC2*260	11/22/91	11/22/91	89.9	8.0	12/10/91	12/12/91	CAG
SRE1016200C00L	WWC2*261	11/22/91	11/22/91	33.3	6.9	12/10/91	12/12/91	CAG
SRE1032100A00L	WWC2*262	11/22/91	11/22/91	271	7.8	12/10/91	12/12/91	CAG
SRE1032100B00L	WWC2*263	11/22/91	11/22/91	223	7.1	12/10/91	12/12/91	CAG
SRE1032100C00L	WWC2*264	11/22/91	11/22/91	85.0	6.9	12/10/91	12/12/91	CAG
SRE1032200A00L	WWC2*265	11/22/91	11/22/91	268	8.5	12/10/91	12/12/91	CAG
SRE1032200B00L	WWC2*266	11/22/91	11/22/91	196	7.7	12/10/91	12/12/91	CAG
SRE1032200C00L	WWC2*267	11/22/91	11/22/91	112	8.1	12/10/91	12/12/91	CA
SRE1030100A00L	WWC2*268	11/22/91	11/22/91	253	7.6	12/10/91	12/12/91	CAG
SRE1030100B00L	WWC2*269	11/22/91	11/22/91	269	7.3	12/10/91	12/12/91	CAG
SRE1030100C00L	WWC2*270	11/22/91	11/22/91	171	7.8	12/10/91	12/12/91	CAG
SRE1030200A00L	WWC2*271	11/22/91	11/22/91	579	8.7	12/10/91	12/12/91	CAG
SRE1030200B00L	WWC2*272	11/22/91	11/22/91	1030	8.0	12/10/91	12/12/91	CAG
SRE1030200C00L	WWC2*273	11/22/91	11/22/91	311	6.9	12/10/91	12/12/91	CAG
SRE1026100A00L	WWC2*274	11/22/91	11/22/91	202	7.9	12/10/91	12/12/91	CAG
SRE1026100B00L	WWC2*275	11/22/91	11/22/91	111	7.2	12/10/91	12/12/91	CAG
SRE1026100C00L	WWC2*276	11/22/91	11/22/91	55.3	7.8	12/10/91	12/12/91	CAG
SRE1026200A00L	WWC2*277	11/22/91	11/22/91	232	8.3	12/10/91	12/12/91	CAG
SRE1026200B00L	WWC2*278	11/22/91	11/22/91	133	7.0	12/10/91	12/12/91	CAG
SRE1026200C00L	WWC2*279	11/22/91	11/22/91	232	7.4	12/10/91	12/12/91	CAG
SAD2156100A00L	WWC2*280	11/22/91	11/22/91	543	6.9	12/10/91	12/12/91	CAG
SAD2156100B00L	WWC2*281	11/22/91	11/22/91	658	7.6	12/10/91	12/12/91	CAG
SAD2156100C00L	WWC2*282	11/22/91	11/22/91	651	7.2	12/10/91	12/12/91	CAG
SAD2156200A00L	WWC2*283	11/22/91	11/22/91	461	7.5	12/10/91	12/12/91	CAG
SAD2156200B00L	WWC2*284	11/22/91	11/22/91	151	7.8	12/10/91	12/12/91	CAG
SAD2156200C00L	WWC2*285	11/22/91	11/22/91	116	7.0	12/10/91	12/12/91	CAG
SAD2160100A00L	WWC2*286	11/22/91	11/22/91	290	7.6	12/10/91	12/12/91	CAG
SAD2160100B00L	WWC2*287	11/22/91	11/22/91	164	7.4	12/10/91	12/12/91	CAG
SAD2160100C00L	WWC2*288	11/22/91	11/22/91	47.9	7.1	12/10/91	12/12/91	CAG
SAD2160200A00L	WWC2*289	11/22/91	11/22/91	379	8.0	12/10/91	12/12/91	CAG
SAD2160200B00L	WWC2*290	11/22/91	11/22/91	324	7.0	12/10/91	12/12/91	CAG
SAD2160200C00L	WWC2*291	11/22/91	11/22/91	239	6.7	12/10/91	12/12/91	CAG
SBE2151100A00L	WWC2*292	11/22/91	11/22/91	286	7.3	12/10/91	12/12/91	CAG
SBE2151100B00L	WWC2*293	11/22/91	11/22/91	180	7.0	12/10/91	12/12/91	CAG
SBE2151100C00L	WWC2*294	11/22/91	11/22/91	48.4	7.1	12/10/91	12/12/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBV0001100N00L	WWC2*211	11/21/91	11/21/91	11.4	7.6	12/10/91	12/12/91	CAG
SBV0001100T00L	WWC2*212	11/21/91	11/21/91	ND	7.1	12/10/91	12/12/91	CAG
SBV0001100T0LM	WWC2*213	11/21/91	11/21/91	ND	7.1	12/10/91	12/12/91	CAG
SBV0001100T0LX	WWC2*214	11/21/91	11/21/91	ND	7.1	12/10/91	12/12/91	CAG
SBV000210AC00L	WWC2*215	11/21/91	11/21/91	91500	720	12/12/91	12/15/91	CAG
SBV0002100D00L	WWC2*216	11/21/91	11/21/91	565	7.6	12/10/91	12/12/91	CAG
SBV0002100K00L	WWC2*217	11/21/91	11/21/91	2960	7.0	12/10/91	12/12/91	CAG
SBV0002100L00L	WWC2*218	11/21/91	11/21/91	165	6.4	12/10/91	12/12/91	CAG
SBV0002100M00L	WWC2*219	11/21/91	11/21/91	101	6.1	12/10/91	12/12/91	CAG
SBV0002100N00L	WWC2*220	11/21/91	11/21/91	4340	8.0	12/10/91	12/12/91	CAG
SBV0002100T00L	WWC2*221	11/21/91	11/21/91	15.6	6.3	12/10/91	12/12/91	CAG
SST1102100A00L	WWC2*222	11/22/91	11/22/91	568	8.1	12/10/91	12/12/91	CAG
SST1102100B00L	WWC2*223	11/22/91	11/22/91	547	8.1	12/10/91	12/12/91	CAG
SST1102100C00L	WWC2*224	11/22/91	11/22/91	546	7.3	12/10/91	12/12/91	CAG
SST1102100A0LD	WWC2*225	11/22/91	11/22/91	603	7.7	12/10/91	12/12/91	CAG
SST1102100B0LD	WWC2*226	11/22/91	11/22/91	514	7.9	12/10/91	12/12/91	CAG
SST1102100C0LD	WWC2*227	11/22/91	11/22/91	549	7.7	12/10/91	12/12/91	CAG
SST1102200A00L	WWC2*228	11/22/91	11/22/91	212	7.6	12/10/91	12/12/91	CAG
SST1102200B00L	WWC2*229	11/22/91	11/22/91	239	8.2	12/10/91	12/12/91	CAG
SST1102200C00L	WWC2*230	11/22/91	11/22/91	348	8.1	12/10/91	12/12/91	CAG
SST0816100A00L	WWC2*231	11/22/91	11/22/91	776	7.6	12/10/91	12/12/91	CAG
SST0816100B00L	WWC2*232	11/22/91	11/22/91	635	7.0	12/10/91	12/12/91	CAG
SST0816100C00L	WWC2*233	11/22/91	11/22/91	381	7.3	12/10/91	12/12/91	CAG
SST0816100A0LD	WWC2*234	11/22/91	11/22/91	806	7.8	12/10/91	12/12/91	CAG
SST0816100B0LD	WWC2*235	11/22/91	11/22/91	589	7.8	12/10/91	12/12/91	CAG
SST0816100C0LD	WWC2*236	11/22/91	11/22/91	349	6.8	12/10/91	12/12/91	CAG
SST0816200A00L	WWC2*237	11/22/91	11/22/91	789	8.3	12/10/91	12/12/91	CAG
SST0816200B00L	WWC2*238	11/22/91	11/22/91	872	7.6	12/10/91	12/12/91	CAG
SST0816200C00L	WWC2*239	11/22/91	11/22/91	131	6.8	12/10/91	12/12/91	CAG
SST0818100A00L	WWC2*240	11/22/91	11/22/91	592	8.2	12/10/91	12/12/91	CAG
SST0818100B00L	WWC2*241	11/22/91	11/22/91	503	8.2	12/10/91	12/12/91	CAG
SST0818100C00L	WWC2*242	11/22/91	11/22/91	303	7.7	12/10/91	12/12/91	CAG
SST0818200A00L	WWC2*243	11/22/91	11/22/91	307	7.9	12/10/91	12/12/91	CAG
SST0818200B00L	WWC2*244	11/22/91	11/22/91	291	7.6	12/10/91	12/12/91	CAG
SST0818200C00L	WWC2*245	11/22/91	11/22/91	118	8.0	12/10/91	12/12/91	CAG
SBV000310AC00L	WWC2*246	11/22/91	11/22/91	979	7.3	12/10/91	12/12/91	CAG
SBV0003100D00L	WWC2*247	11/22/91	11/22/91	1490	7.8	12/10/91	12/12/91	CAG
SBV0003100K00L	WWC2*248	11/22/91	11/22/91	230	7.7	12/10/91	12/12/91	CAG
SBV0003100L00L	WWC2*249	11/22/91	11/22/91	23.0	8.8	12/10/91	12/12/91	CAG
SBV0003100M00L	WWC2*250	11/22/91	11/22/91	22.2	8.4	12/10/91	12/12/91	CAG
SBV0003100N00L	WWC2*251	11/22/91	11/22/91	17.8	9.4	12/10/91	12/12/91	CAG
SBV0003100T00L	WWC2*252	11/22/91	11/22/91	ND	6.5	12/10/91	12/12/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SEL1703200A00L	WWC2*337	11/25/91	11/25/91	257	8.3	12/10/91	12/12/91	CAG
SEL1703200B00L	WWC2*338	11/25/91	11/25/91	272	8.1	12/10/91	12/12/91	CAG
SEL1703200C00L	WWC2*339	11/25/91	11/25/91	389	7.8	12/10/91	12/12/91	CAG
SEL1707100A00L	WWC2*340	11/25/91	11/25/91	241	9.1	12/10/91	12/12/91	CAG
SEL1707100B00L	WWC2*341	11/25/91	11/25/91	111	8.3	12/11/91	12/12/91	CAG
SEL1707100C00L	WWC2*342	11/25/91	11/25/91	326	7.4	12/11/91	12/12/91	CAG
SEL1707200A00L	WWC2*343	11/25/91	11/25/91	319	8.2	12/11/91	12/12/91	CAG
SEL1707200B00L	WWC2*344	11/25/91	11/25/91	220	7.8	12/11/91	12/12/91	CAG
SEL1707200C00L	WWC2*345	11/25/91	11/25/91	270	8.4	12/11/91	12/12/91	CAG
SIO0825200C00L	WWC2*346	11/25/91	11/25/91	400	7.8	12/11/91	12/12/91	CAG
SIO0909100A00L	WWC2*347	11/25/91	11/25/91	508	8.0	12/11/91	12/12/91	CAG
SIO0909100B00L	WWC2*348	11/25/91	11/25/91	389	7.9	12/11/91	12/12/91	CAG
SIO0909100C00L	WWC2*349	11/25/91	11/25/91	289	8.0	12/11/91	12/12/91	CAG
SIO0909200A00L	WWC2*350	11/25/91	11/25/91	605	7.6	12/11/91	12/12/91	CAG
SIO0909200B00L	WWC2*351	11/25/91	11/25/91	566	7.4	12/11/91	12/12/91	CAG
SIO0909200C00L	WWC2*352	11/25/91	11/25/91	495	7.8	12/11/91	12/12/91	CAG
SIO0912100A00L	WWC2*353	11/25/91	11/25/91	303	8.2	12/11/91	12/12/91	CAG
SIO0912100B00L	WWC2*354	11/25/91	11/25/91	183	7.5	12/11/91	12/12/91	CAG
SIO0912100C00L	WWC2*355	11/25/91	11/25/91	160	7.8	12/11/91	12/12/91	CAG
SIO0912200A00L	WWC2*356	11/25/91	11/25/91	603	8.3	12/11/91	12/12/91	CAG
SIO0912200B00L	WWC2*357	11/25/91	11/25/91	600	7.7	12/11/91	12/12/91	CAG
SIO0912200C00L	WWC2*358	11/25/91	11/25/91	353	8.3	12/11/91	12/12/91	CAG
SIO0820100A00L	WWC2*359	11/25/91	11/25/91	258	7.3	12/11/91	12/12/91	CAG
SIO0820100B00L	WWC2*360	11/25/91	11/25/91	268	7.6	12/11/91	12/12/91	CAG
SIO0820100C00L	WWC2*361	11/25/91	11/25/91	135	7.1	12/11/91	12/13/91	CAG
SIO0820200A00L	WWC2*362	11/25/91	11/25/91	292	7.9	12/11/91	12/13/91	CAG
SIO0820200B00L	WWC2*363	11/25/91	11/25/91	256	7.6	12/11/91	12/13/91	CAG
SIO0820200C00L	WWC2*364	11/25/91	11/25/91	97.2	7.3	12/11/91	12/13/91	CAG
SIO0816100A00L	WWC2*365	11/25/91	11/25/91	903	8.1	12/11/91	12/13/91	CAG
SIO0816100B00L	WWC2*366	11/25/91	11/25/91	173	7.7	12/11/91	12/13/91	CAG
SIO0816100C00L	WWC2*367	11/25/91	11/25/91	73.5	8.0	12/11/91	12/13/91	CAG
SIO0816200A00L	WWC2*368	11/25/91	11/25/91	413	8.1	12/11/91	12/13/91	CAG
SIO0816200B00L	WWC2*369	11/25/91	11/25/91	277	7.8	12/11/91	12/13/91	CAG
SIO0816200C00L	WWC2*370	11/25/91	11/25/91	150	7.6	12/11/91	12/13/91	CAG
SIO0812100A00L	WWC2*371	11/25/91	11/25/91	221	7.3	12/11/91	12/13/91	CAG
SIO0812100B00L	WWC2*372	11/25/91	11/25/91	166	7.4	12/11/91	12/13/91	CAG
SIO0812100C00L	WWC2*373	11/25/91	11/25/91	99.6	7.6	12/11/91	12/13/91	CAG
SIO0812200A00L	WWC2*374	11/25/91	11/25/91	341	7.6	12/11/91	12/13/91	CAG
SIO0812200B00L	WWC2*375	11/25/91	11/25/91	263	7.3	12/11/91	12/13/91	CAG
SIO0812200C00L	WWC2*376	11/25/91	11/25/91	1070	7.3	12/11/91	12/13/91	CAG
SIO0825100A00L	WWC2*377	11/25/91	11/25/91	833	7.1	12/11/91	12/13/91	CAG
SIO0825100B00L	WWC2*378	11/25/91	11/25/91	613	7.3	12/11/91	12/13/91	CAG

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

Analytical Chemistry Re:

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2151200A00L	WWC2*295	11/22/91	11/22/91	353	8.3	12/10/91	12/12/91	CAG
SBE2151200B00L	WWC2*296	11/22/91	11/22/91	251	7.6	12/10/91	12/12/91	CAG
SBE2151200C00L	WWC2*297	11/22/91	11/22/91	63.5	8.1	12/10/91	12/12/91	CAG
SBE2163100A00L	WWC2*298	11/22/91	11/22/91	360	7.3	12/10/91	12/12/91	CAG
SBE2163100B00L	WWC2*299	11/22/91	11/22/91	251	7.2	12/10/91	12/12/91	CAG
SBE2163100C00L	WWC2*300	11/22/91	11/22/91	94.8	6.9	12/10/91	12/12/91	CAG
SBE2163200A00L	WWC2*301	11/22/91	11/22/91	350	7.2	12/10/91	12/12/91	CAG
SBE2163200B00L	WWC2*302	11/22/91	11/22/91	257	7.0	12/10/91	12/12/91	CAG
SBE2163200C00L	WWC2*303	11/22/91	11/22/91	140	7.6	12/10/91	12/12/91	CAG
SCL2201100A00L	WWC2*304	11/22/91	11/22/91	315	8.4	12/10/91	12/12/91	CAG
SCL2201100B00L	WWC2*305	11/22/91	11/22/91	232	8.1	12/10/91	12/12/91	CAG
SCL2201100C00L	WWC2*306	11/22/91	11/22/91	36.6	6.9	12/10/91	12/12/91	CAG
SCL2201200A00L	WWC2*307	11/22/91	11/22/91	1350	7.7	12/10/91	12/12/91	CAG
SCL2201200B00L	WWC2*308	11/22/91	11/22/91	632	6.6	12/10/91	12/12/91	CAG
SCL2201200C00L	WWC2*309	11/22/91	11/22/91	132	7.3	12/10/91	12/12/91	CAG
SEL1711100A00L	WWC2*310	11/25/91	11/25/91	228	8.1	12/10/91	12/12/91	CAG
SEL1711100B00L	WWC2*311	11/25/91	11/25/91	151	7.7	12/10/91	12/12/91	CAG
SEL1711100C00L	WWC2*312	11/25/91	11/25/91	421	7.2	12/10/91	12/12/91	CAG
SEL1711200A00L	WWC2*313	11/25/91	11/25/91	141	8.0	12/10/91	12/12/91	CAG
SEL1711200B00L	WWC2*314	11/25/91	11/25/91	86.5	7.5	12/10/91	12/12/91	CAG
SEL1711200C00L	WWC2*315	11/25/91	11/25/91	122	8.0	12/10/91	12/12/91	CAG
SEL1709100A00L	WWC2*316	11/25/91	11/25/91	209	8.3	12/10/91	12/12/91	CAG
SEL1709100B00L	WWC2*317	11/25/91	11/25/91	121	7.2	12/10/91	12/12/91	CAG
SEL1709100C00L	WWC2*318	11/25/91	11/25/91	50.7	8.4	12/10/91	12/12/91	CAG
SEL1709200A00L	WWC2*319	11/25/91	11/25/91	259	8.6	12/10/91	12/12/91	CAG
SEL1709200B00L	WWC2*320	11/25/91	11/25/91	222	7.4	12/10/91	12/12/91	CAG
SEL1709200C00L	WWC2*321	11/25/91	11/25/91	298	8.6	12/10/91	12/12/91	CAG
SRE1000100A00L	WWC2*322	11/25/91	11/25/91	234	8.1	12/10/91	12/12/91	CAG
SRE1000100B00L	WWC2*323	11/25/91	11/25/91	19.3	8.1	12/10/91	12/12/91	CAG
SRE1000100C00L	WWC2*324	11/25/91	11/25/91	21.0	6.8	12/10/91	12/12/91	CAG
SRE1000200A00L	WWC2*325	11/25/91	11/25/91	88.1	7.4	12/10/91	12/12/91	CAG
SRE1000200B00L	WWC2*326	11/25/91	11/25/91	122	7.5	12/10/91	12/12/91	CAG
SRE1000200C00L	WWC2*327	11/25/91	11/25/91	14.0	7.4	12/10/91	12/12/91	CAG
SRE1136100A00L	WWC2*328	11/25/91	11/25/91	518	7.4	12/10/91	12/12/91	CAG
SRE1136100B00L	WWC2*329	11/25/91	11/25/91	301	7.2	12/10/91	12/12/91	CAG
SRE1136100C00L	WWC2*330	11/25/91	11/25/91	213	7.0	12/10/91	12/12/91	CAG
SRE1136200B00L	WWC2*331	11/25/91	11/25/91	575	8.0	12/10/91	12/12/91	CAG
SRE1136200B00L	WWC2*332	11/25/91	11/25/91	438	8.2	12/10/91	12/12/91	CAG
SRE1136200C00L	WWC2*333	11/25/91	11/25/91	369	8.0	12/10/91	12/12/91	CAG
SEL1703100A00L	WWC2*334	11/25/91	11/25/91	363	8.8	12/10/91	12/12/91	CAG
SEL1703100B00L	WWC2*335	11/25/91	11/25/91	370	8.2	12/10/91	12/12/91	CAG
SEL1703100C00L	WWC2*336	11/25/91	11/25/91	821	7.0	12/10/91	12/12/91	CAG

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1905 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 01-22-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO1224200A00L	WWC2*421	11/26/91	11/26/91	542	7.6	12/11/91	12/13/91	CAG
SIO1224200B00L	WWC2*422	11/26/91	11/26/91	396	8.4	12/11/91	12/13/91	CAG
SIO1224200C00L	WWC2*423	11/26/91	11/26/91	255	7.9	12/11/91	12/13/91	CAG
SEL1606100A00L	WWC2*424	11/26/91	11/26/91	261	7.4	12/11/91	12/13/91	CAG
SEL1606100B00L	WWC2*425	11/26/91	11/26/91	129	7.3	12/11/91	12/13/91	CAG
SEL1606100C00L	WWC2*426	11/26/91	11/26/91	134	6.6	12/11/91	12/13/91	CAG
SEL1606200A00L	WWC2*427	11/26/91	11/26/91	220	8.1	12/11/91	12/13/91	CAG
SEL1606200B00L	WWC2*428	11/26/91	11/26/91	159	7.9	12/11/91	12/13/91	CAG
SEL1606200C00L	WWC2*429	11/26/91	11/26/91	159	7.7	12/11/91	12/13/91	CAG
SEL1609100A00L	WWC2*430	11/26/91	11/26/91	372	8.1	12/11/91	12/13/91	CAG
SEL1609100B00L	WWC2*431	11/26/91	11/26/91	213	7.7	12/11/91	12/13/91	CAG
SEL1609100C00L	WWC2*432	11/26/91	11/26/91	450	7.3	12/11/91	12/13/91	CAG
SEL1609200A00L	WWC2*433	11/26/91	11/26/91	307	7.1	12/11/91	12/13/91	CAG
SEL1609200B00L	WWC2*434	11/26/91	11/26/91	279	7.4	12/11/91	12/13/91	CAG
SEL1609200C00L	WWC2*435	11/26/91	11/26/91	65.5	8.3	12/11/91	12/13/91	CAG
SAL1218100A00L	WWC2*436	11/26/91	11/26/91	24.3	7.4	12/11/91	12/13/91	CAG
SAL1218100B00L	WWC2*437	11/26/91	11/26/91	74.3	8.0	12/11/91	12/14/91	CAG
SAL1218100C00L	WWC2*438	11/26/91	11/26/91	178	7.2	12/11/91	12/14/91	CAG
SAL1218200A00L	WWC2*439	11/26/91	11/26/91	60.7	8.3	12/11/91	12/14/91	CAG
SAL1218200A0LM	WWC2*440	11/26/91	11/26/91	50.8	7.6	12/11/91	12/13/91	CAG
SAL1218200A0LX	WWC2*441	11/26/91	11/26/91	60.6	8.3	12/11/91	12/14/91	CAG
SAL1218200B00L	WWC2*442	11/26/91	11/26/91	37.5	8.0	12/11/91	12/14/91	CAG
SAL1218200B0LM	WWC2*443	11/26/91	11/26/91	41.8	7.5	12/11/91	12/14/91	CAG
SAL1218200B0LX	WWC2*444	11/26/91	11/26/91	40.2	7.8	12/11/91	12/14/91	CAG
SAL1218200C00L	WWC2*445	11/26/91	11/26/91	35.3	8.0	12/11/91	12/14/91	CAG
SAL1218200C0LM	WWC2*446	11/26/91	11/26/91	30.1	8.5	12/11/91	12/14/91	CAG
SAL1218200C0LX	WWC2*447	11/26/91	11/26/91	30.8	7.9	12/11/91	12/14/91	CAG
SAL1224100A00L	WWC2*448	11/26/91	11/26/91	509	8.2	12/11/91	12/14/91	CAG
SAL1224100B00L	WWC2*449	11/26/91	11/26/91	369	7.4	12/11/91	12/14/91	CAG
SAL1224100C00L	WWC2*450	11/26/91	11/26/91	344	7.7	12/11/91	12/14/91	CAG
SAL1224200A00L	WWC2*451	11/26/91	11/26/91	318	8.2	12/11/91	12/14/91	CAG
SAL1224200B00L	WWC2*452	11/26/91	11/26/91	230	7.4	12/11/91	12/14/91	CAG
SAL1224200C00L	WWC2*453	11/26/91	11/26/91	455	8.1	12/11/91	12/14/91	CAG
SRE1114100A00L	WWC2*454	11/26/91	11/26/91	222	7.8	12/11/91	12/14/91	CAG
SRE1114100B00L	WWC2*455	11/26/91	11/26/91	195	7.8	12/11/91	12/14/91	CAG
SRE1114100C00L	WWC2*456	11/26/91	11/26/91	29.1	7.6	12/11/91	12/14/91	CAG
SRE1114200A00L	WWC2*457	11/26/91	11/26/91	105	6.7	12/11/91	12/14/91	CAG
SRE1114200B00L	WWC2*458	11/26/91	11/26/91	93.2	7.3	12/11/91	12/14/91	CAG
SRE1114200C00L	WWC2*459	11/26/91	11/26/91	250	7.6	12/11/91	12/14/91	CAG
SGW1108100A00L	WWC2*460	11/26/91	11/26/91	596	8.6	12/11/91	12/14/91	CAG
SGW1108100B00L	WWC2*461	11/26/91	11/26/91	417	8.0	12/11/91	12/14/91	CAG
SGW1108100C00L	WWC2*462	11/26/91	11/26/91	174	7.5	12/11/91	12/14/91	CAG

Environmental Science & Engineering, Inc

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 01-22-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFERY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD, MG/KG-DRY METHOD: 6010	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SIO0825100C00L	WWC2*379	11/25/91	11/25/91	269	6.8	12/11/91	12/13/91	CAG
SIO0825200A00L	WWC2*380	11/25/91	11/25/91	518	8.2	12/11/91	12/13/91	CAG
SIO0825200B00L	WWC2*381	11/25/91	11/25/91	438	7.1	12/11/91	12/13/91	CAG
SIO1311100A00L	WWC2*382	11/26/91	11/26/91	516	7.9	12/11/91	12/13/91	CAG
SIO1311100B00L	WWC2*383	11/26/91	11/26/91	520	8.0	12/11/91	12/13/91	CAG
SIO1311100C00L	WWC2*384	11/26/91	11/26/91	468	7.5	12/11/91	12/13/91	CAG
SIO1311200A00L	WWC2*385	11/26/91	11/26/91	74.8	6.6	12/11/91	12/13/91	CAG
SIO1311200B00L	WWC2*386	11/26/91	11/26/91	69.0	8.1	12/11/91	12/13/91	CAG
SIO1311200C00L	WWC2*387	11/26/91	11/26/91	445	8.1	12/11/91	12/13/91	CAG
SIO1302100A00L	WWC2*388	11/26/91	11/26/91	795	7.3	12/11/91	12/13/91	CAG
SIO1302100B00L	WWC2*389	11/26/91	11/26/91	642	7.4	12/11/91	12/13/91	CAG
SIO1302100C00L	WWC2*390	11/26/91	11/26/91	254	7.4	12/11/91	12/13/91	CAG
SIO1302200A00L	WWC2*391	11/26/91	11/26/91	171	7.6	12/11/91	12/13/91	CAG
SIO1302200B00L	WWC2*392	11/26/91	11/26/91	120	7.2	12/11/91	12/13/91	CAG
SIO1302200C00L	WWC2*393	11/26/91	11/26/91	843	7.3	12/11/91	12/13/91	CAG
SIO1302200A0LM	WWC2*394	11/26/91	11/26/91	236	7.8	12/11/91	12/13/91	CAG
SIO1302200B0LM	WWC2*395	11/26/91	11/26/91	122	6.9	12/11/91	12/13/91	CAG
SIO1302200C0LM	WWC2*396	11/26/91	11/26/91	994	7.1	12/11/91	12/13/91	CAG
SIO1302200A0LX	WWC2*397	11/26/91	11/26/91	839	7.6	12/11/91	12/13/91	CAG
SIO1302200B0LX	WWC2*398	11/26/91	11/26/91	168	6.7	12/11/91	12/13/91	CAG
SIO1302200C0LX	WWC2*399	11/26/91	11/26/91	156	7.4	12/11/91	12/13/91	CAG
SIO1316100A00L	WWC2*400	11/26/91	11/26/91	593	7.5	12/11/91	12/13/91	CAG
SIO1316100B00L	WWC2*401	11/26/91	11/26/91	558	7.5	12/11/91	12/13/91	CAG
SIO1316100C00L	WWC2*402	11/26/91	11/26/91	446	7.1	12/11/91	12/13/91	CAG
SIO1316200A00L	WWC2*403	11/26/91	11/26/91	566	6.7	12/11/91	12/13/91	CAG
SIO1316200B00L	WWC2*404	11/26/91	11/26/91	352	7.5	12/11/91	12/13/91	CAG
SIO1316200C00L	WWC2*405	11/26/91	11/26/91	180	7.3	12/11/91	12/13/91	CAG
SIO1324100A00L	WWC2*406	11/26/91	11/26/91	343	8.3	12/11/91	12/13/91	CAG
SIO1324100B00L	WWC2*407	11/26/91	11/26/91	390	7.8	12/11/91	12/13/91	CAG
SIO1324100C00L	WWC2*408	11/26/91	11/26/91	90.7	7.1	12/11/91	12/13/91	CAG
SIO1324200A00L	WWC2*409	11/26/91	11/26/91	674	7.8	12/11/91	12/13/91	CAG
SIO1324200B00L	WWC2*410	11/26/91	11/26/91	518	7.7	12/11/91	12/13/91	CAG
SIO1324200C00L	WWC2*411	11/26/91	11/26/91	272	7.8	12/11/91	12/13/91	CAG
SIO1324200A0LM	WWC2*412	11/26/91	11/26/91	593	8.1	12/11/91	12/13/91	CAG
SIO1324200B0LM	WWC2*413	11/26/91	11/26/91	479	7.3	12/11/91	12/13/91	CAG
SIO1324200C0LM	WWC2*414	11/26/91	11/26/91	266	7.7	12/11/91	12/13/91	CAG
SIO1324200A0LX	WWC2*415	11/26/91	11/26/91	602	8.1	12/11/91	12/13/91	CAG
SIO1324200B0LX	WWC2*416	11/26/91	11/26/91	537	7.4	12/11/91	12/13/91	CAG
SIO1324200C0LX	WWC2*417	11/26/91	11/26/91	264	7.4	12/11/91	12/13/91	CAG
SIO1224100A00L	WWC2*418	11/26/91	11/26/91	426	7.8	12/11/91	12/13/91	CAG
SIO1224100B00L	WWC2*419	11/26/91	11/26/91	180	7.7	12/11/91	12/13/91	CAG
SIO1224100C00L	WWC2*420	11/26/91	11/26/91	131	7.3	12/11/91	12/13/91	CAG

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
50	12/3	1058	S	I01122	1	00A	00L	1	X			
51		1102	S	I01122	1	00B	00L	1	X			
52		1104	S	I01122	1	00C	00L	1	X			
53		1112	S	I01122	2	00A	00L	1	X			
54		1114	S	I01122	2	00B	00L	1	X			
55		1116	S	I01122	2	00C	00L	1	X			
56		1150	S	I01124	1	00A	00L	1	X			
57		1153	S	I01124	1	00B	00L	1	X			
58		1155	S	I01124	1	00C	00L	1	X			
59		1136	S	I01124	2	00A	00L	1	X			
560		1139	S	I01124	2	00B	00L	1	X			
61		1141	S	I01124	2	00C	00L	1	X			
62		201	S	I00913	1	00A	00L	1	X			
63		204	S	I00913	1	00B	00L	1	X			
64		206	S	I00913	1	00C	00L	1	X			
65		212	S	I00913	2	00A	00L	1	X			
66		214	S	I00913	2	00B	00L	1	X			
67		216	S	I00913	2	00C	00L	1	X			
68		245	S	I01211	1	00A	00L	1	X			
569		246	S	I01211	1	00B	00L	1	X			
70		248	S	I01211	1	00C	00L	1	X			
71		253	S	I01211	2	00A	00L	1	X			
72		255	S	I01211	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	12/3/91 5:40pm	[signature]	12/3 17
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	12/3 1830	[signature]	12-3 63
METHOD OF SHIPMENT: [signature]		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
73	12/3	257	S	E01211	2	00C	00L	1	X			
74		325	S	WS1029	1	00A	00L	1	X			
75		327	S	WS1029	1	00B	00L	1	X			
76		329	S	WS1029	1	00C	00L	1	X			
77		335	S	WS1029	2	00A	00L	1	X			
78		336	S	WS1029	2	00B	00L	1	X			
79		338	S	WS1029	2	00C	00L	1	X			
80		1025	S	E01031	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parker	12/3 5:40pm		12/3 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	12/3 1830		12/3 6:30

METHOD OF SHIPMENT: NLC Employee

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
81	12/3/91	0715	S	RE1017	1	004	004	1	X			
582		0720	S	RE1017	1	006	004	1	X			
83		0725	S	RE1017	1	00C	004	1	X			
84		0728	S	RE1017	2	00A	004	1	X			
85		0733	S	RE1017	2	00B	004	1	X			
86		0738	S	RE1017	2	00C	004	1	X			
587		0513	S	KE1006	1	00A	004	1	X			
88		0518	S	KE1006	1	00B	004	1	X			
589		0523	S	KE1006	1	00C	004	1	X			
90		0530	S	KE1006	2	00A	004	1	X			
591		0535	S	KE1006	2	00B	004	1	X			
92		0540	S	KE1006	2	00C	004	1	X			
93		0905	S	KE1702	1	00A	004	1	X			
94		0910	S	KE1702	1	00B	004	1	X			
95		0915	S	KE1702	1	00C	004	1	X			
596		0920	S	KE1702	2	00A	004	1	X			
97		0924	S	KE1702	2	00B	004	1	X			
598		0929	S	KE1702	2	00C	004	1	X			
99		1025	S	MA0819	1	004	004	1	X			
600		1030	S	MA0819	1	00B	004	1	X			
01		1034	S	MA0819	1	00C	004	1	X			
602		1040	S	MA0819	2	004	004	1	X			
03		1043	S	MA0819	2	006	004	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME 12/3 5:45	RECEIVED BY: (Signature)	DATE / TIME 12/3 174
RELINQUISHED BY: (Signature)	DATE / TIME 12/3 1830	RECEIVED AT LAB BY: (Signature)	DATE / TIME 12-3 6:
METHOD OF SHIPMENT: WCC Employee		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4	12/3/91	1046	S	MA0819	2	00C	00L	1	X			
.05		1120	S	KE1115	1	00A	00L	1	X			
16		1124	S	KE1115	1	00B	00L	1	X			
.07		1128	S	KE1115	1	00C	00L	1	X			
08		1135	S	KE1115	2	00A	00L	1	X			
.09		1139	S	KE1115	2	00B	00L	1	X			
.10		1143	S	KE1115	2	00C	00L	1	X			
11		1342	S	MA1009	1	00A	00L	1	X			
12		1346	S	MA1009	1	00B	00L	1	X			
13		1350	S	MA1009	1	00C	00L	1	X			
14		1355	S	MA1009	2	00A	00L	1	X			
15		1358	S	MA1009	2	00B	00L	1	X			
16		1402	S	MA1009	2	00C	00L	1	X			
17		1425	S	MA1230	1	00A	00L	1	X			
18		1430	S	MA1230	1	00B	00L	1	X			
19		1435	S	MA1230	1	00C	00L	1	X			
20		1442	S	MA1230	2	00A	00L	1	X			
21		1446	S	MA1230	2	00B	00L	1	X			
22		1450	S	MA1230	2	00C	00L	1	X			
23		1520	S	KE1853	1	00A	00L	1	X			
24		1525	S	KE1853	1	00B	00L	1	X			
25		1530	S	KE1853	1	00C	00L	1	X			
26		1535	S	KE1853	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	12/3 5:45	[signature]	12/3 1745
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	12/3 1830	[signature]	12-3 630
METHOD OF SHIPMENT: WCC envelope		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 7 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
27	12/3/91	1540	S	EL1853	2	00A	00L	1	X			
28		1543	S	EL1853	2	00C	00L	1	X			
29		1550	S	EL1863	L	00A	00L	1	X			
30		1554	S	EL1863	L	00B	00L	1	X			
31		1558	S	EL1863	L	00C	00L	1	X			
32		1605	S	EL1863	2	00A	00L	1	X			
33		1609	S	EL1863	2	00B	00L	1	X			
34		165	S	EL1863	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

CFP

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parth	12/3 6:45		12/3 174
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	12/3 1830		12-3 63

METHOD OF SHIPMENT: Fed Ex

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # _____
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 12-3-91 1830

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 12-4-91 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 12-3-91, seal name: Can't read
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 12-4-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in cooler
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

F:\WP\CHEMCOM\CRF.01

#9 Ethan Latsey signed custody papers

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 6 of 1

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
99	11/22/9	1420	S	BE2L63	1	00B	00L	/	1	X			
300		1423	S	BE2L63	1	00C	00L	/	1	X			
01		1427	S	BE2L63	2	00A	00L	/	1	X			
302		1430	S	BE2L63	2	00B	00L	/	1	X			
03		1433	S	BE2L63	2	00C	00L	/	1	X			
304		1502	S	CL2201	1	00A	00L	/	1	X			
305		1505	S	CL2201	1	00B	00L	/	1	X			
06		1508	S	CL2201	1	00C	00L	/	1	X			
307		1512	S	CL2201	2	00A	00L	/	1	X			
308		1515	S	CL2201	2	00B	00L	/	1	X			
309		1518	S	CL2201	2	00C	00L	/	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/22 444	[illegible]	11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	11/22 500	Ethan [illegible]	11/22 5

METHOD OF SHIPMENT: WCC EMPL

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # 1 161
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 11-22-91 1815

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 11-25-91 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 11-22-91, seal name: _____
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: _____ by (all those involved must sign below):

(print) _____ (sign) _____

11. Describe packing: _____
*12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
*14. Did all bottles arrive unbroken and in good condition? ..... YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: _____ . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

V:\WP\CHEMCOM\CRF.01

*9) Ethan Litsey signed custody papers

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
:3	11/22/91	0712	S LE1026 1 00A 00L	1	X			
254		0712	S LE1026 1 00A 01D	1	X			
55		0716	S LE1026 1 00B 00L	1	X			
256		0716	S LE1026 1 00B 01D	1	X			
-57		0720	S LE1026 1 00C 00L	1	X			
258		0720	S LE1026 1 00C 01D	1	X			
59		0727	S LE1026 2 00A 00L	1	X			
.60		0731	S LE1026 2 00B 00L	1	X			
261		0735	S LE1026 2 00C 00L	1	X			
62		0801	S LE1032 1 00A 00L	1	X			
263		0805	S LE1032 1 00B 00L	1	X			
64		0808	S LE1032 1 00C 00L	1	X			
265		0812	S LE1032 2 00A 00L	1	X			
66		0815	S LE1032 2 00B 00L	1	X			
67		0818	S LE1032 2 00C 00L	1	X			
268		0846	S LE1030 1 00A 00L	1	X			
69		0850	S LE1030 1 00B 00L	1	X			
270		0854	S LE1030 1 00C 00L	1	X			
71		0900	S LE1030 2 00A 00L	1	X			
272		0903	S LE1030 2 00B 00L	1	X			
73		0906	S LE1030 2 00C 00L	1	X			
274		0921	S LE1026 1 00A 00L	1	X			
75		0925	S LE1026 1 00B 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/22 4:14		11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/27 500	Ethan Litsey	11/22 5

METHOD OF SHIPMENT: WCL EMPL

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
276	11/22/91	0928	S	RE1026	1	00C	00L	/	1	X			
277		0933	S	RE1026	2	00A	00L	/	1	X			
278		0936	S	RE1026	2	00B	00L	/	1	X			
279		0939	S	RE1026	2	00C	00L	/	1	X			
280		1243	S	AD2156	1	00A	00L	/	1	X			
281		1246	S	AD2156	1	00B	00L	/	1	X			
282		1250	S	AD2156	1	00C	00L	/	1	X			
283		1253	S	AD2156	2	00A	00L	/	1	X			
284		1256	S	AD2156	2	00B	00L	/	1	X			
285		1300	S	AD2156	2	00C	00L	/	1	X			
286		1309	S	AD2160	1	00A	00L	/	1	X			
287		1312	S	AD2160	1	00B	00L	/	1	X			
288		1315	S	AD2160	1	00C	00L	/	1	X			
289		1320	S	AD2160	2	00A	00L	/	1	X			
290		1323	S	AD2160	2	00B	00L	/	1	X			
291		1326	S	AD2160	2	00C	00L	/	1	X			
292		1352	S	BE2151	1	00A	00L	/	1	X			
293		1355	S	BE2151	1	00B	00L	/	1	X			
294		1358	S	BE2151	1	00C	00L	/	1	X			
295		1400	S	BE2151	2	00A	00L	/	1	X			
296		1403	S	BE2151	2	00B	00L	/	1	X			
297		1406	S	BE2151	2	00C	00L	/	1	X			
298		1412	S	BE2163	1	00A	00L	/	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Mayer	11/22 4:14		11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/22 500		11/22 5 PM
METHOD OF SHIPMENT: WCC ETUPL		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
45 11/22	1612	S SI 0 8L8 2 00C 00L	1	X			
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					

Nothing follows
Karen Meyer

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	11/21 12:30		11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/22 500	Ethan Litsey	11/22 S
METHOD OF SHIPMENT: WCC EMPL		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
16	11/22	845	S	BV0003	1	0AC	00L	1	X			
17		844	S	BV0003	1	00D	00L	1	X			
18		848	S	BV0003	1	00K	00L	1	X			
19		855	S	BV0003	1	00L	00L	1	X			
50		900	S	BV0003	1	00M	00L	1	X			
51		905	S	BV0003	1	00N	00L	1	X			
52		915	S	BV0003	1	00I	00L	1	X			
			S					Nothing Follows				
			S					Karen Meyer				
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	3:30 11/22		11/22 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	11/22 500	Ethan Litsey	11/22 5PM

METHOD OF SHIPMENT: WCC EMPL

AIRBILL NO: (If Applicable)

WWC2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
35	12/5	1155	S	GR0820	2	00C	00L	1	X			
36		146	S	GR0904	1	00A	00L	1	X			
39		148	S	GR0904	1	00B	00L	1	X			
38		150	S	GR0904	1	00C	00L	1	X			
39		155	S	GR0904	2	00A	00L	1	X			
40		157	S	GR0904	2	00B	00L	1	X			
41		159	S	GR0904	2	00C	00L	1	X			
42		221	S	GR0911	1	00A	00L	1	X			
43		224	S	GR0911	1	00B	00L	1	X			
44		226	S	GR0911	1	00C	00L	1	X			
45		229	S	GR0911	2	00A	00L	1	X			
46		233	S	GR0911	2	00B	00L	1	X			
47		235	S	GR0911	2	00C	00L	1	X			
48		307	S	ED1717	1	00A	00L	1	X			
49		310	S	ED1717	1	00B	00L	1	X			
50		312	S	ED1717	1	00C	00L	1	X			
51		315	S	ED1717	2	00A	00L	1	X			
52		318	S	ED1717	2	00B	00L	1	X			
53		320	S	ED1717	2	00C	00L	1	X			
54		345	S	ED1707	1	00A	00L	1	X			
55		347	S	ED1707	1	00B	00L	1	X			
56		400	S	ED1707	1	00C	00L	1	X			
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	12/5/91 5:20 pm	Ethan Litney	12-5-64
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
57	12/5	931	S	GR0807	1	00A	00L	1	X			
58		934	S	GR0807	1	00B	00L	1	X			
59		936	S	GR0807	1	00C	00L	1	X			
60		942	S	GR0807	2	00A	00L	1	X			
61		944	S	GR0807	2	00B	00L	1	X			
62		946	S	GR0807	2	00C	00L	1	X			
63		1017	S	GR0808	1	00A	00L	1	X			
64		1019	S	GR0808	1	00B	00L	1	X			
65		1021	S	GR0808	1	00C	00L	1	X			
66		1031	S	GR0808	2	00A	00L	1	X			
67		1034	S	GR0808	2	00B	00L	1	X			
68		1036	S	GR0808	2	00C	00L	1	X			
69		1103	S	GR0811	1	00A	00L	1	X			
70		1105	S	GR0811	1	00B	00L	1	X			
71		1107	S	GR0811	1	00C	00L	1	X			
72		1115	S	GR0811	2	00A	00L	1	X			
73		1118	S	GR0811	2	00B	00L	1	X			
74		1120	S	GR0811	2	00C	00L	1	X			
75		1140	S	GR0820	1	00A	00L	1	X			
76		1143	S	GR0820	1	00B	00L	1	X			
77		1145	S	GR0820	1	00C	00L	1	X			
78		1148	S	GR0820	2	00A	00L	1	X			
79		1152	S	GR0820	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	12/5/91 5:20pm	Ethan Litsey	12-5 640 pm
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

SHEET 3 of 5

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) Jorge J Garcia

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4-91	9:45	S VE0020 1 0 05 00T	1		X		
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					
		S					

CKD 12/5/91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parker	12/5/91 5:20 pm	Arthur Lutzky	12-5 4:40 pm
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
81	12/5/91	0825	S SI2039 1 00A 00L	1	X			
82		0830	S SI2039 1 00B 00L	1	X			
83		0834	S SI2039 1 00C 00L	1	X			
84		0839	S SI2039 2 00A 00L	1	X			
85		0844	S SI2039 2 00B 00L	1	X			
86		0848	S SI2039 2 00C 00L	1	X			
87		0920	S SI1205 1 00A 00L	1	X			
88		0925	S SI1205 1 00B 00L	1	X			
89		0930	S SI1205 1 00C 00L	1	X			
90		0935	S SI1205 2 00A 00L	1	X			
91		0939	S SI1205 2 00B 00L	1	X			
92		0943	S SI1205 2 00C 00L	1	X			
93		1022	S DE2000 2 00A 00L	1	X			
94		1026	S DE2000 2 00B 00L	1	X			
95		1030	S DE2000 2 00C 00L	1	X			
96		1035	S DE2000 1 00A 00L	1	X			
97		1039	S DE2000 1 00B 00L	1	X			
98		1044	S DE2000 1 00C 00L	1	X			
99		1125	S BE2238 1 00A 00L	1	X			
100		1128	S BE2238 1 00B 00L	1	X			
01		1132	S BE2238 1 00C 00L	1	X			
02		1205	S BE2125 1 00A 00L	1	X			
03		1209	S BE2125 1 00B 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavlik	12/5/91 5:20pm	Ethan [illegible]	12-5 64
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC Employee

AIRBILL NO: (If Applicable)

WWC 2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
104	12/5/91	1212	S	BE2125	1	00C	00L	1	X			
105		1216	S	BE2125	2	00A	00L	1	X			
106		1220	S	BE2125	2	00B	00L	1	X			
107		1224	S	BE2125	2	00C	00L	1	X			
108		1425	S	NID915	2	00A	00L	1	X			
109		1430	S	NID915	2	00B	00L	1	X			
110		1435	S	NID915	2	00C	00L	1	X			
111		1511	S	NE1247	1	00A	00L	1	X			
112		1571	S	NE1247	1	00A	00D	1	X			
113		1515	S	NE1247	1	00B	00L	1	X			
114		1575	S	NE1247	1	00B	00D	1	X			
115		1519	S	NE1247	1	00C	00L	1	X			
116		1579	S	NE1247	1	00C	00D	1	X			
117		1524	S	NE1247	2	00B	00L	1	X			
118		1530	S	NE1247	2	00B	00L	1	X			
119		1535	S	NE1247	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									

CPP 12/5/91

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelk	12/5/91 5:20	Esther [illegible]	12-5 640
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT: WCC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 162
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 12-5-91 1840

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 12-6-91 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 12-5-91, seal name: Can't read
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 12-6-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# ..... (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? ..... By whom? ..... on (date) .....
24. Second Party Review: .....

* Sample rejection criteria

:\WP\CHEMCOM\CRF.01

*9) Ethan Litsey signed custody papers.

WWC2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
20	12/6	727	S BR2023 1 00A 004	1	X			
21		730	S BR2023 1 00B 004	1	X			
22		733	S BR2023 1 00C 004	1	X			
23		738	S BR2023 2 00A 004	1	X			
24		740	S BR2023 2 00B 004	1	X			
25		742	S BR2023 2 00C 004	1	X			
26		803	S BR2014 1 00A 004	1	X			
27		805	S BR2014 1 00B 004	1	X			
28		807	S BR2014 1 00C 004	1	X			
29		811	S BR2014 2 00A 004	1	X			
30		813	S BR2014 2 00B 004	1	X			
31		815	S BR2014 2 00C 004	1	X			
32		849	S OH2018 1 00A 004	1	X			
33		851	S OH2018 1 00B 004	1	X			
34		853	S OH2018 1 00C 004	1	X			
35		903	S OH2018 2 00A 004	1	X			
36		905	S OH2018 2 00B 004	1	X			
37		907	S OH2018 2 00C 004	1	X			
38		928	S OH2014 1 00A 004	1	X			
39		930	S OH2014 1 00B 004	1	X			
40		932	S OH2014 1 00C 004	1	X			
41		938	S OH2014 2 00A 004	1	X			
42		940	S OH2014 2 00B 004	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/6 5:15	[illegible]	12/6 5:16
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	12/6 18:19	[illegible]	12/6 18:20

METHOD OF SHIPMENT: WCC Empl.

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] Gregg Hogarty

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
13	12/6	943	S	OH2OL4	2	00C	00L	1	X			
44		1029	S	WJ2504	1	00A	00L	1	X			
45		1031	S	WJ2504	1	00B	00L	1	X			
46		1033	S	WJ2504	1	00C	00L	1	X			
747		1038	S	WJ2504	2	00A	00L	1	X			
48		1040	S	WJ2504	2	00B	00L	1	X			
749		1042	S	WJ2504	2	00C	00L	1	X			
50		1038	S	WJ2504	2	00A	0LM	1	X			
751		1040	S	WJ2504	2	00B	0LM	1	X			
52		1042	S	WJ2504	2	00C	0LM	1	X			
753		1038	S	WJ2504	2	00A	0LX	1	X			
54		1040	S	WJ2504	2	00B	0LX	1	X			
55		1042	S	WJ2504	2	00C	0LX	1	X			
56		1105	S	WJ2508	1	00A	00L	1	X			
57		1108	S	WJ2508	1	00B	00L	1	X			
758		1111	S	WJ2508	1	00C	00L	1	X			
59		1112	S	WJ2508	2	00A	00L	1	X			
760		1114	S	WJ2508	2	00B	00L	1	X			
61		1116	S	WJ2508	2	00C	00L	1	X			
762		1138	S	WJ25L0	1	00A	00L	1	X			
63		1140	S	WJ25L0	1	00B	00L	1	X			
64		1142	S	WJ25L0	1	00C	00L	1	X			
65		1146	S	WJ25L0	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/6 5:15	Gregg Hogarty	12/6 5:16
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Gregg Hogarty	12/6 18:19	[signature]	12/6 18:2

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
166	12/6	1148	S	WI2510	2	00B	00L	1	X			
167		1150	S	WI2510	2	00C	00L	1	X			
168		202	S	WI2612	1	00A	00L	1	X			
169		204	S	WI2612	1	00B	00L	1	X			
170		206	S	WI2612	1	00C	00L	1	X			
171		210	S	WI2612	2	00A	00L	1	X			
172		212	S	WI2612	2	00B	00L	1	X			
173		214	S	WI2612	2	00C	00L	1	X			
174		246	S	SE2002	1	00A	00L	1	X			
175		248	S	SE2002	1	00B	00L	1	X			
176		250	S	SE2002	1	00C	00L	1	X			
177		257	S	SE2002	2	00A	00L	1	X			
178		259	S	SE2002	2	00B	00L	1	X			
179		300	S	SE2002	2	00C	00L	1	X			
180		347	S	DE1732	1	00A	00L	1	X			
181		350	S	DE1732	1	00B	00L	1	X			
182		353	S	DE1732	1	00C	00L	1	X			
183		354	S	DE1732	2	00A	00L	1	X			
184		356	S	DE1732	2	00B	00L	1	X			
185		358	S	DE1732	2	00C	00L	1	X			
			S									KR
			S									KR
			S									KR

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/6 5:15	Greg Hogarty	12/6 5:16
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Greg Hogarty	12/6 1819	[illegible]	12/6 18 20

METHOD/OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
86	12/6/91	0752	S	OL1646	1	00A	00L	/	1	X			
87		0800	S	OL1646	1	00B	00L	/	1	X			
88		0805	S	OL1646	1	00C	00L	/	1	X			
89		0810	S	OL1646	2	00A	00L	/	1	X			
90		0814	S	OL1646	2	00B	00L	/	1	X			
91		0818	S	OL1646	2	00C	00L	/	1	X			
792		0845	S	OL1647	1	00A	00L	/	1	X			
93		0849	S	OL1647	1	00B	00L	/	1	X			
794		0853	S	OL1647	1	00C	00L	/	1	X			
95		0948	S	SP1602	1	00A	00L	/	1	X			
796		0952	S	SP1602	1	00B	00L	/	1	X			
97		0956	S	SP1602	1	00C	00L	/	1	X			
98		1002	S	SP1602	2	00A	00L	/	1	X			
99		1006	S	SP1602	2	00B	00L	/	1	X			
800		1010	S	SP1602	2	00C	00L	/	1	X			
801		1033	S	SP1614	1	00A	00L	/	1	X			
02		1037	S	SP1614	1	00B	00L	/	1	X			
803		1041	S	SP1614	1	00C	00L	/	1	X			
04		1045	S	SP1614	2	00A	00L	/	1	X			
805		1049	S	SP1614	2	00B	00L	/	1	X			
06		1053	S	SP1614	2	00C	00L	/	1	X			
807		1136	S	NI0807	1	00A	00L	/	1	X			
08		1140	S	NI0807	1	00B	00L	/	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/6 5:15	[signature]	12/6 5:16
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	12/6 18:19	[signature]	12/6 18:2

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
09	12/6/90	1143	S	NI0807	1	005	005	1	X			
10		1146	S	NI0807	2	004	005	1	X			
11		1149	S	NI0807	2	008	005	1	X			
12		1153	S	NI0807	2	006	005	1	X			
13		1218	S	NI0830	1	004	005	1	X			
14		1222	S	NI0830	1	008	005	1	X			
15		1225	S	NI0830	1	006	005	1	X			
16		1229	S	NI0830	2	004	005	1	X			
17		1233	S	NI0830	2	008	005	1	X			
18		1237	S	NI0830	2	006	005	1	X			
		1400	S	ED1726	1	[illegible]	[illegible]	1	X			Kmm
		1401	S	ED1726	1	[illegible]	[illegible]	1	X			Kmm
		1405	S	ED1726	1	[illegible]	[illegible]	1	X			Kmm
		1412	S	ED1726	2	[illegible]	[illegible]	[illegible]	X			Kmm
		1415	S	ED1726	2	[illegible]	[illegible]	1	X			Kmm
		1419	S	ED1726	2	[illegible]	[illegible]	1	X			Kmm
			S									
			S									
			S									
			S									
			S									
			S									
			S									

Nothing follows
Karen Meyer

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/6 5:15	[illegible]	12/6 5:16
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	12/6 1319	[illegible]	12/6 18:20

METHOD OF SHIPMENT: UPS Empl

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # _____ 73
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Consultants Date/Time Received: 12-6-91 1820

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 12-9-91 930

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... YES NO
   If YES, how many and where: 1 on the front
   If YES, enter the following: seal date: 12-6-91, seal name: Greg Hogert
4. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
5. Was chain-of-custody provided? ..... YES NO
6. Were custody papers sealed in a Ziploc® bag and taped inside to the lid? ..... YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES NO
9. Did you sign custody papers in the appropriate place? ..... YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 12-9-91 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples en Cooler
*12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
14. Did all bottles arrive unbroken and in good condition? ..... YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# _____ YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

\\WP\CHEMCOM\CRF.01

9 Frances Y Hung

WCL

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
19	12/9	805	S	MC0909	1	00A	00L	1	X			
20		808	S	MC0909	1	00B	02L	1	X			
21		811	S	MC0909	1	00C	02L	1	X			
22		818	S	MC0909	2	00A	02L	1	X			
23		820	S	MC0909	2	00B	02L	1	X			
24		822	S	MC0909	2	00C	02L	1	X			
25		805	S	MC0909	1	00A	00D	1	X			
		~~805~~	~~S~~	~~MC0909~~	~~1~~	~~00A~~	~~00D~~	~~1~~	~~X~~			SR
26		808	S	MC0909	1	00B	00D	1	X			
		~~808~~	~~S~~	~~MC0909~~	~~1~~	~~00B~~	~~00D~~	~~1~~	~~X~~			SR
27		811	S	MC0909	1	00C	00D	1	X			
		~~811~~	~~S~~	~~MC0909~~	~~1~~	~~00C~~	~~00D~~	~~1~~	~~X~~			SR
28		840	S	WS0811	1	00A	00L	1	X			
29		842	S	WS0811	1	00B	00L	1	X			
30		844	S	WS0811	1	00C	00L	1	X			
31		848	S	WS0811	2	00A	00L	1	X			
32		850	S	WS0811	2	00B	00L	1	X			
33		852	S	WS0811	2	00C	00L	1	X			
34		840	S	WS0811	1	00A	00D	1	X			
		~~840~~	~~S~~	~~------~~	~~1~~	~~00A~~	~~--~~	~~1~~	~~X~~			
35		842	S	WS0811	1	00B	00D	1	X			
		~~842~~	~~S~~	~~------~~	~~1~~	~~00B~~	~~--~~	~~1~~	~~X~~			
36		844	S	WS0811	1	00C	00D	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/9 5:00	Cynthia Parlin	12/9 5:00
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Cynthia Parlin	12/9 6:15pm	[illegible]	12-9 6:15

METHOD OF SHIPMENT: WCL EMPI

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
37	12/9	919	S	WS1013	1	00A	00L	1	X			
38		922	S	WS1013	1	00B	00L	1	X			
39		924	S	WS1013	1	00C	00L	1	X			
40		929	S	WS1013	2	00A	00L	1	X			
41		931	S	WS1013	2	00B	00L	1	X			
42		934	S	WS1013	2	00C	00L	1	X			
43		947	S	WS1203	1	00A	00L	1	X			
44		950	S	WS1203	1	00B	00L	1	X			
45		953	S	WS1203	1	00C	00L	1	X			
46		1000	S	WS1203	2	00A	00L	1	X			
47		1008	S	WS1203	2	00B	00L	1	X			
48		1010	S	WS1203	2	00C	00L	1	X			
49		1050	S	FO1238	1	00A	00L	1	X			
50		1053	S	FO1238	1	00B	00L	1	X			
51		1058	S	FO1238	1	00C	00L	1	X			
52		1103	S	FO1238	2	00A	00L	1	X			
53		1105	S	FO1238	2	00B	00L	1	X			
54		1107	S	FO1238	2	00C	00L	1	X			
55		1136	S	FO1408	1	00A	00L	1	X			
56		1138	S	FO1408	1	00B	00L	1	X			
57		1140	S	FO1408	1	00C	00L	1	X			
58		1149	S	FO1408	2	00A	00L	1	X			
59		1150	S	FO1408	2	00B	00L	1	X			

CONTAINER DESCRIPTION/ ANALYSES REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/9 5:00	Cynthia Pavlik	12/9 5:00
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Cynthia Pavlik	12/9 6:15pm	[illegible]	12-9 6:15

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
60	12/9	1153	S	I01408	2	00	COOL	1	X			
61		1136	S	I01408	1	00	AOLD	1	X			
62		1138	S	I01408	1	00	BOOD	1	X			
63		1140	S	I01408	1	00	COOD	1	X			
64		130	S	ME0618	1	00	AOOL					
65		133	S	ME0618	1	00	BOOL					
66		135	S	ME0618	1	00	COOL					
67		138	S	ME0618	2	00	AOOL					
68		140	S	ME0618	2	00	BOOL					
69		142	S	ME0618	2	00	COOL					
			~~S~~	~~ME~~	~~1~~		~~OLG~~	~~1~~	~~X~~			
			~~S~~	~~ME~~	~~1~~		~~OLQ~~	~~1~~	~~X~~			
			~~S~~	~~ME~~	~~1~~		~~OLQ~~	~~1~~	~~X~~			
70		138	S	ME0618	2	00	AOLM	1	X			
71		140	S	ME0618	2	00	BOLM	1	X			
72		142	S	ME0618	2	00	COLM	1	X			
73		138	S	ME0618	2	00	AOLX	1	X			
74		140	S	ME0618	2	00	BOLX	1	X			
75		142	S	ME0618	2	00	COLX	1	X			
76		216	S	SI0814	1	00	AOOL	1	X			
77		218	S	SI0814	1	00	BOOL	1	X			
78		220	S	SI0814	1	00	COOL	1	X			
79		225	S	SI0814	2	00	AOOL	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/9 5:00	Cynthia Pavelka	12/9 5:00
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Cynthia Pavelka	12/9 6:15pm	Ethan Litany	12-9 6:15pm

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
80	12/9	227	S SI0814 2 00B00L	1	X			
81		231	S SI0814 2 00C00L	1	X			
82		225	S SI0814 2 00A00LM	1	X			
83		227	S SI0814 2 00B00LM	1	X			
84		230	S SI0814 2 00C00LM	1	X			
85		225	S SI0814 2 00A00LD	1	X			
86		227	S SI0814 2 00B00LD	1	X			
87		230	S SI0814 2 00C00LD	1	X			
88		319	S GR1327 1 00A00L	1	X			
89		322	S GR1327 1 00B00L	1	X			
90		324	S GR1327 1 00C00L	1	X			
91		326	S GR1327 2 00A00L	1	X			
92		328	S GR1327 2 00B00L	1	X			
93		330	S GR1327 2 00C00L	1	X			
94		350	S CL1929 1 00A00L	1	X			
95		353	S CL1929 1 00B00L	1	X			
96		355	S CL1929 1 00C00L	1	X			
97		350	S CL1929 1 00A00LD	1	X			
98		353	S CL1929 1 00B00LD	1	X			
99		355	S CL1929 1 00C00LD	1	X			
100		405	S CL1929 2 00A00L	1	X			
101		408	S CL1929 2 00B00L	1	X			
102		410	S CL1929 2 00C00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Karen Meyer	12/9 5:00	Cynthia Pavlik	12/9 5:00
RELINQUISHED BY: (Signature) Cynthia Pavlik	DATE / TIME 12/9 6:15pm	RECEIVED AT LAB BY: (Signature) Esther Lacey	DATE / TIME 12-9 6:1[illegible]

METHOD OF SHIPMENT: WCC Empl

AIRBILL NO: (If Applicable)

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

June 2, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 6100
NO. OF SAMPLES
MATRIX 32/SOIL
ANALYSIS DATE 3/18/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Randy Rinkold
REVIEWER'S NAME Randy Rinkold
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		✓			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

Environmental
Science &
Engineering, Inc.

June 2, 1992
ESE No. 5912031 0100

Ms. Cynthia Pavelka
Woodward-Clyde Consultants
2318 Millpark Dr.
Maryland Heights, MO 63043

RE: Report of Analytical Chemistry Results,
Woodward-Clyde Consultants - Report 4
NL/Taracorp Project

Dear Ms. Pavelka:

Enclosed is the complete report of results for thirty-three (33) soil samples received in the ESE St. Louis Laboratory on March 2, 1992. The preliminary results have been reported to you as they became available. The samples were analyzed in accordance with the approved EPA methods as indicated in the report.

The QC results are composed of two parts, precision and accuracy. The % recovery is used to assess the accuracy of the analytical method. The % recovery limits for each of the control compounds are tabulated in the following report along with the actual % recovery for the spiked sample. The difference of the recoveries of the duplicate samples are calculated as replicate % difference which is used to measure the precision of the analytical method. Both % recovery limits and replicate % difference limits used in this analysis are set forth by the United States Environmental Protection Agency as the criteria of laboratory quality control for this type of analysis.

The QC results have been reviewed by the analysts and the Laboratory Manager. Explanations for QC results that did not fall within the QC criteria are provided in the summary.

We appreciate the opportunity to be of technical service to you. If there are any questions with regard to this report, please feel free to call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

John F. Gemoules

John F. Gemoules
Laboratory Project Manager

JFG/pl/REPORT/WWC4.RP1

Enclosures

11665 Lilburn Park Road St. Louis, MO 63146-3535 Phone (314) 567-4600 Fax (314) 567-5030

MOISTURE

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 06-02-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2153100A00L	WWC2*910	03/02/92	03/02/92	11.7		03/03/92	WHP
SBE2153100B00L	WWC2*911	03/02/92	03/02/92	14.0		03/03/92	WHP
SBE2153100C00L	WWC2*912	03/02/92	03/02/92	16.2		03/03/92	WHP
SBE2153200A00L	WWC2*913	03/02/92	03/02/92	17.9		03/03/92	WHP
SBE2153200B00L	WWC2*914	03/02/92	03/02/92	18.3		03/03/92	WHP
SBE2153200C00L	WWC2*915	03/02/92	03/02/92	18.0		03/03/92	WHP
SBE2164100A00L	WWC2*916	03/02/92	03/02/92	16.3		03/03/92	WHP
SBE2164100B00L	WWC2*917	03/02/92	03/02/92	14.2		03/03/92	WHP
SBE2164100C00L	WWC2*918	03/02/92	03/02/92	10.7		03/03/92	WHP
SBE2164200A00L	WWC2*919	03/02/92	03/02/92	20.8		03/03/92	WHP
SBE2164200B00L	WWC2*920	03/02/92	03/02/92	18.5		03/03/92	WHP
SBE2164200C00L	WWC2*921	03/02/92	03/02/92	16.1		03/03/92	WHP
SOL1716100A00L	WWC2*922	03/02/92	03/02/92	22.8		03/03/92	WHP
SOL1716100B00L	WWC2*923	03/02/92	03/02/92	21.0		03/03/92	WHP
SOL1716100C00L	WWC2*924	03/02/92	03/02/92	16.8		03/03/92	WHP
SOL1716200A00L	WWC2*925	03/02/92	03/02/92	14.2		03/03/92	WHI
SOL1716200B00L	WWC2*926	03/02/92	03/02/92	14.7		03/03/92	WHP
SOL1716200C00L	WWC2*927	03/02/92	03/02/92	10.4		03/03/92	WHP
SOL1724100A00L	WWC2*928	03/02/92	03/02/92	17.6		03/03/92	WHP
SOL1724100B00L	WWC2*929	03/02/92	03/02/92	16.5		03/03/92	WHP
SOL1724100C00L	WWC2*930	03/02/92	03/02/92	16.7		03/03/92	WHP
SOL1725100A00L	WWC2*931	03/02/92	03/02/92	15.7		03/03/92	WHP
SOL1725100B00L	WWC2*932	03/02/92	03/02/92	16.7		03/03/92	WHP
SOL1725100C00L	WWC2*933	03/02/92	03/02/92	17.0		03/03/92	WHP
SOL1725200A00L	WWC2*934	03/02/92	03/02/92	20.9		03/03/92	WHP
SOL1725200B00L	WWC2*935	03/02/92	03/02/92	21.3		03/03/92	WHP
SOL1725200C00L	WWC2*936	03/02/92	03/02/92	19.6		03/03/92	WHP
SOL1729100A00L	WWC2*937	03/02/92	03/02/92	16.4		03/03/92	WHP
SOL1729100B00L	WWC2*938	03/02/92	03/02/92	16.2		03/03/92	WHP
SOL1729100C00L	WWC2*939	03/02/92	03/02/92	15.6		03/03/92	WHP
SOL1729200A00L	WWC2*940	03/02/92	03/02/92	19.7		03/03/92	WHP
SOL1729200B00L	WWC2*941	03/02/92	03/02/92	20.0		03/03/92	WHP
SOL1729200C00L	WWC2*942	03/02/92	03/02/92	20.4		03/03/92	WHP

LEAD ANALYSIS

Page 2

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 06-02-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2153100A00L	WWC2*910	03/02/92	03/02/92	218	5.5	03/10/92	03/18/92	PW
SBE2153100B00L	WWC2*911	03/02/92	03/02/92	142	5.5	03/10/92	03/18/92	PW
SBE2153100C00L	WWC2*912	03/02/92	03/02/92	54.9	5.8	03/10/92	03/18/92	PW
SBE2153200A00L	WWC2*913	03/02/92	03/02/92	963	6.0	03/10/92	03/18/92	PW
SBE2153200B00L	WWC2*914	03/02/92	03/02/92	814	6.0	03/10/92	03/18/92	PW
SBE2153200C00L	WWC2*915	03/02/92	03/02/92	186	5.8	03/10/92	03/18/92	PW
SBE2164100A00L	WWC2*916	03/02/92	03/02/92	290	5.9	03/10/92	03/18/92	PW
SBE2164100B00L	WWC2*917	03/02/92	03/02/92	131	5.7	03/10/92	03/18/92	PW
SBE2164100C00L	WWC2*918	03/02/92	03/02/92	51.3	5.2	03/10/92	03/18/92	PW
SBE2164200A00L	WWC2*919	03/02/92	03/02/92	409	6.2	03/10/92	03/18/92	PW
SBE2164200B00L	WWC2*920	03/02/92	03/02/92	242	6.0	03/10/92	03/18/92	PW
SBE2164200C00L	WWC2*921	03/02/92	03/02/92	162	5.9	03/10/92	03/18/92	PW
SOL1716100A00L	WWC2*922	03/02/92	03/02/92	694	6.2	03/10/92	03/18/92	PW
SOL1716100B00L	WWC2*923	03/02/92	-03/02/92	699	5.9	03/10/92	03/18/92	PW
SOL1716100C00L	WWC2*924	03/02/92	03/02/92	291	5.6	03/10/92	03/18/92	PW
SOL1716200A00L	WWC2*925	03/02/92	03/02/92	322	5.3	03/10/92	03/18/92	PW
SOL1716200B00L	WWC2*926	03/02/92	03/02/92	113	5.6	03/10/92	03/18/92	PW
SOL1716200C00L	WWC2*927	03/02/92	03/02/92	651	5.5	03/10/92	03/18/92	PW
SOL1724100A00L	WWC2*928	03/02/92	03/02/92	697	6.0	03/10/92	03/18/92	PW
SOL1724100B00L	WWC2*929	03/02/92	03/02/92	537	5.9	03/10/92	03/18/92	PW
SOL1724100C00L	WWC2*930	03/02/92	03/02/92	314	5.8	03/10/92	03/18/92	PW
SOL1725100A00L	WWC2*931	03/02/92	03/02/92	269	5.5	03/10/92	03/18/92	PW
SOL1725100B00L	WWC2*932	03/02/92	03/02/92	211	6.0	03/10/92	03/18/92	PW
SOL1725100C00L	WWC2*933	03/02/92	03/02/92	318	5.6	03/10/92	03/18/92	PW
SOL1725200A00L	WWC2*934	03/02/92	03/02/92	1050	5.7	03/10/92	03/18/92	PW
SOL1725200B00L	WWC2*935	03/02/92	03/02/92	557	6.0	03/10/92	03/18/92	PW
SOL1725200C00L	WWC2*936	03/02/92	03/02/92	481	6.0	03/10/92	03/18/92	PW
SOL1729100A00L	WWC2*937	03/02/92	03/02/92	815	5.9	03/10/92	03/18/92	PW
SOL1729100B00L	WWC2*938	03/02/92	03/02/92	302	5.4	03/10/92	03/18/92	PW
SOL1729100C00L	WWC2*939	03/02/92	03/02/92	222	5.6	03/10/92	03/18/92	PW
SOL1729200A00L	WWC2*940	03/02/92	03/02/92	613	6.1	03/10/92	03/18/92	PW
SOL1729200B00L	WWC2*941	03/02/92	03/02/92	498	6.1	03/10/92	03/18/92	PW
SOL1729200C00L	WWC2*942	03/02/92	03/02/92	.493	6.2	03/10/92	03/18/92	PW

QC SUMMARY

LEGEND

STOR*METH - storet*method code. Used as a unique identification of the analytical parameter.

BATCH - analytical data batch identification.

DATE - analysis date.

FOUND (method blank) - quantitated concentration determined to be in the method blank.

FOUND (continuing calibration verification) - quantitated concentration determined to be in the CCV sample.

FOUND (standard matrix spike) - quantitated concentration determined to be in the standard matrix spike.

FOUND (sample matrix spike) - the difference in the quantitated concentration in the sample matrix spike and the UNSPIKED sample.

UNSPIKED (sample matrix spike) - quantitated concentration determined to be in the sample prior to spike fortification.

R.P.D. - replicate percent difference.

R.P.D. CRITERIA - R.P.D. not to be exceeded.

TARGET - the calculated concentration of the analyte in the spike or QC sample. The TARGET may vary from sample to sample based on sample weight, and moisture content. This concentration is the benchmark to which the FOUND concentrations are compared.

R.P.D.*1 - default reference when RPD cannot be calculated due to the spike sample I.D. used in the data batch.

JFG/pl/REPORT/WWC.LEG

Method Blank Sample Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
MOISTURE	%WET WT	70320=S1	S7066	MB=NONE=1	03/03/92	0.0	
MOISTURE	%WET WT			MB=NONE=2		0.0	
LEAD(FAA)	MG/KG-DRY	1051=SFAAS	S7169	MB=NONE=1	03/18/92	0.0	
LEAD(FAA)	MG/KG-DRY			MB=NONE=2		0.0	
LEAD(FAA)	MG/KG-DRY			MB=NONE=3		0.0	
LEAD(FAA)	MG/KG-DRY			MB=NONE=4		0.0	
LEAD(FAA)	MG/KG-DRY			MB=NONE=5		0.0	
LEAD(FAA)	MG/KG-DRY			MB=NONE=6		0.0	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051=SFAAS	S7169	CCV=NONE=1	03/18/92	5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=3		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=4		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=5		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=11		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=12		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=13		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=15		5.0	5.2	104	75-125	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051=SFAAS	S7169	SP=NONE=1	03/18/92	5.0	5.2	106	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP=NONE=2		5.0	5.4	110	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP=NONE=3		5.0	5.3	106	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP=NONE=4		5.0	5.3	108	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP=NONE=5		5.0	5.5	111	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP=NONE=6		5.0	5.4	108	75-125		20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051=SFAAS	S7169	SPM1=WWC2=929	03/18/92	576	653	113	75-125	537		20	
LEAD(FAA)	MG/KG-DRY			SPM2=WWC2=929		561	593	106	75-125	537	6.4	20	
LEAD(FAA)	MG/KG-DRY			SPM1=WWC2=942		616	637	103	75-125	493		20	
LEAD(FAA)	MG/KG-DRY			SPM2=WWC2=942		626	697	111	75-125	493	7.5	20	
LEAD(FAA)	MG/KG-DRY			SPM1=WWC3=20		588	420	71.4	75-125	1090		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2=WWC3=20		567	530	93.5	75-125	1090	26.8	20	
LEAD(FAA)	MG/KG-DRY			SPM1=WWC3=40		649	-90.0	-13.9	75-125	2130		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2=WWC3=40		593	430	72.6	75-125	2130	295	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1=WWC3=80		534	599	112	75-125	239		20	
LEAD(FAA)	MG/KG-DRY			SPM2=WWC3=80		590	630	107	75-125	239	4.6	20	

CHAIN OF CUSTODY

WWC2

CHAIN OF CUSTODY RECORD

SHEET 1 of 1

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
931	3/2	1354	S	OLL725	1	00A	00L	1	X			
932		1356	S	OLL725	1	00B	00L	1	X			
933		1358	S	OLL725	1	00C	00L	1	X			
934		1402	S	OLL725	2	00A	00L	1	X			
935		1404	S	OLL725	2	00B	00L	1	X			
936		1406	S	OLL725	2	00C	00L	1	X			
937		14:22	S	OLL729	1	00A	00L	1	X			
938		14:24	S	OLL729	1	00B	00L	1	X			
939		14:29	S	OLL729	1	00C	00L	1	X			
940		14:30	S	OLL729	2	00A	00L	1	X			
941		14:32	S	OLL729	2	00B	00L	1	X			
942	✓	14:34	S	OLL729	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME 3/2/92 420	RECEIVED AT LAB BY: (Signature) ESE	DATE / TIME 3.2.92 16
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC2

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 8 / 6

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
910	3/2/92	1205	S	BE2L53	L	00A	00L	1	X			
911		1207	S	BE2L53	L	00B	00L	1	X			
912		1210	S	BE2L53	L	00C	00L	1	X			
913		1212	S	BE2L53	2	00A	00L	1	X			
914		1214	S	BE2L53	2	00B	00L	1	X			
915		1216	S	BE2L53	2	00C	00L	1	X			
916		1225	S	BE2L64	L	00A	00L	1	X			
917		1230	S	BE2L64	L	00B	00L	1	X			
918		1232	S	BE2L64	L	00C	00L	1	X			
919		1235	S	BE2L64	2	00A	00L	1	X			
920		1237	S	BE2L64	2	00B	00L	1	X			
921		1240	S	BE2L64	2	00C	00L	1	X			
922		1313	S	OL1716	L	00A	00L	1	X			
923		1315	S	OLL716	1	00B	00L	1	X			
924		1317	S	OLL716	1	00C	00L	1	X			
925		1325	S	OLL716	2	00A	00L	1	X			
926		1327	S	OLL716	2	00B	00L	1	X			
927		1330	S	OLL716	2	00C	00L	1	X			
928		1334	S	OLL724	1	00A	00L	1	X			
929		1336	S	OLL724	1	00B	00L	1	X			
930		1338	S	OLL724	1	00C	00L	1	X			
			S	OLL724	2	00A	00L	1	X			
			S	OLL724	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/6/92 1620	ESE	3-2-92 1620

METHOD OF SHIPMENT: WWC employee

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ____
Client Cooler # ✓
No Cooler ____

Project: Woodward Clyde Date/Time Received: 3-2-92 1620

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-3-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: ____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 1 on front
   If YES, enter the following: seal date: 3-2-92, seal name: Mark Wallace Ray S
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-3-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Coolers in use
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# ____ YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? ____ By whom? ____ on (date) ____
24. Second Party Review: ____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

May 26, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

May 26, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

Environmental
Science &
Engineering, Inc.

May 26, 1992
ESE No. 5912031 0100

Ms. Cynthia Pavelka
Woodward-Clyde Consultants
2318 Millpark Dr.
Maryland Heights, MO 63043

RE: **Report of Analytical Chemistry Results, Woodward-Clyde Consultants - Report 3 KL/Taracorp Project**

Dear Ms. Pavelka:

Enclosed is the complete report of results for nine hundred seventy-eight (978) soil samples received in the ESE St. Louis Laboratory from March 3 to March 25, 1992. The preliminary results have been reported to you as they became available. The samples were analyzed in accordance with the approved EPA methods as indicated in the report.

The QC results are composed of two parts, precision and accuracy. The % recovery is used to assess the accuracy of the analytical method. The % recovery limits for each of the control compounds are tabulated in the following report along with the actual % recovery for the spiked sample. The difference of the recoveries of the duplicate samples are calculated as replicate % difference which is used to measure the precision of the analytical method. Both % recovery limits and replicate % difference limits used in this analysis are set forth by the United States Environmental Protection Agency as the criteria of laboratory quality control for this type of analysis.

The QC results have been reviewed by the analysts and the Laboratory Manager. Explanations for QC results that did not fall within the QC criteria are provided in the summary.

We appreciate the opportunity to be of technical service to you. If there are any questions with regard to this report, please feel free to call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

John F. Gemoules

John F. Gemoules
Laboratory Project Manager

JFG/pl/REPORT/WWC3.RP1

Enclosures

11605 Lindbergh Park Road St. Louis, MO 63146-3535 Phone (314) 567-4600 Fax (314) 567-5030

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. NA
NO. OF SAMPLES
MATRIX 12.0 /SOIL

SITE NL/TARACORP SUPERFUND SITE
[illegible] Wendy Reinbolt
[illegible] NAME WENDY REINBOLT
COMPLETION DATE 8/27/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES					
2. BLANKS					
3. CCV					
4. STANDARD MATRIX SPIKE					
5. MATRIX SPIKE					
6. OTHER QC					
7. OVERALL ASSESSMENT					

NOT APPLICABLE

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: BELIEVED % MOISTURE CALCULATIONS - ALL OF THE ATTACHED CALCULATIONS WERE CHECKED FOR ACCURACY. WWC3*10[illegible] WAS CORRECTED. NO OTHER ERRORS WERE FOUND.
Wendy Reinbolt

Environmental Science & Engineering, Inc.

Letter of Transmitt

✓ 11665 Lilburn Park Rd
St. Louis, MO 63146
(314) 567-4600
FAX 314-567-5030

☐ 8230 Marshall Dr
Lenexa, KS 66214
(913) 492-6554
FAX 913-492-9256

☐ 701 E. 2nd St
Des Moines, IA 50309
(515) 282-9607
FAX 515-282-9610

DATE 8-17-92 JOB NO 5912031 0103

ATTENTION CYNTHIA PAVELKA

RE NL / TARACORP

WE ARE SENDING YOU ✓ Attached ☐ Under separate cover via _____ the following items

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	LATEST DATE	NO	DESCRIPTION
1			RAW DATA FOR MOISTURE ANALYSIS
1			C-O-C for samples WWC4 *934-999

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No exception taken ☐ Revise and submit ____ copies

☐ For your use ☐ Make corrections noted ☐ Submit ____ copies for distribution

☐ As requested ☐ Rejected ☐ Return ____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Cynthia –

There should be sufficient data to cover 10% for each of the files (field groups: WWC, WWC3, WWC4). Other QC results will be available soon.

SEE DATA VALIDATION FILES FOR DATA - WER 8/25/92

COPY TO FILE

Signed John Gemoules

If enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - reading

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 15

Date Start: 3/5/92 Chem. Int.: WHP | Date End: 3/6/92 Chem. Int: WHP | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC3 1	6	N	mix	dirt	1.36	5.71	5.74	23.3
2	2					1.36	6.38	6.44	19.5
3	3					1.36	6.20	6.34	19.2
4	4					1.36	6.67	6.73	19.5
5	5					1.36	5.37	5.77	17.9
6	6					1.36	5.71	6.08	17.3
7	7					1.36	6.35	6.59	18.4
8	8					1.36	5.56	5.92	18.0
9	9					1.36	5.57	5.93	17.0
10	10					1.36	5.60	5.98	17.5
11	11					1.36	5.93	6.31	16.5
12	12					1.36	5.84	5.56	16.7
13	13					1.36	5.25	5.42	22.7
14	14					1.36	6.53	6.43	22.4
15	15					1.35	5.38	5.52	22.5
16	16					1.36	5.18	5.62	17.8
17	17					1.36	7.61	7.58	18.3
18	18					1.36	5.73	6.07	17.8
19	19					1.35	6.74	6.94	17.1
20	20					1.34	5.30	5.75	16.8
	MB					1.34	—	1.34	0
22	RP 20	↓	↓	↓	↓	1.34	5.16	5.65	16.5

wp\chemcom\metdigst.frm.3

57079

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 16

te Start: 3/5/92 Chem. Int.: WWP Date End: 3/6/92 Chem. Int: WWP Method:

Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
WWC3*21	S	N	mix	dirt	1.36	5.46	5.84	18.5
22					1.35	5.61	5.88	19.2
23					1.36	5.14	5.42	24.0
24					1.36	6.26	spilled	
25					1.36	5.58	5.76	21.1
26					1.36	6.14	6.28	14.9
27					1.36	5.90	5.88	23.4
28					1.36	7.08	7.17	17.9
29					1.35	5.43	5.74	19.2
30					1.35	6.23	6.47	17.8
31					1.36	5.27	5.72	17.3
32					1.35	6.11	6.48	16.0
33					1.35	6.06	6.41	16.5
34					1.35	6.33	6.37	20.1
35					1.36	9.06	8.66	19.4
36					1.36	6.14	6.36	18.6
37					1.36	5.28	5.46	22.3
38					1.36	5.29	5.49	21.9
39					1.35	5.26	5.46	21.9
40					1.35	5.90	5.85	23.7
MB					1.36	—	1.36	0
RP 40					1.35	5.12	5.25	23.8

\wp\chemcom\metdigst.frm.3

$24 rpt
3/9/92
57079

1.36 5.60 5.90

$$* \ [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 17

Date Start: 3/5/92 Chem. Int.: WHP | Date End: 3/6/92 Chem. Int: WHP Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC3*41	7	N	mix	dirt	1.35	5.45	5.71	20.0
2	42					1.35	5.22	5.72	16.3
3	43					1.35	5.21	5.40	22.3
4	44					1.35	5.13	5.23	24.4
5	45					1.36	5.09	5.27	23.2
6	46					1.34	5.11	5.27	23.1
7	47					1.34	5.16	5.39	21.5
8	48					1.33	5.52	5.68	21.2
9	49					1.34	5.16	5.11	26.9
10	50					1.34	6.02	5.85	25.1
11	51					1.34	5.63	5.35	28.8
12	52					1.35	5.65	5.75	22.1
13	53					1.35	5.35	5.57	21.1
14	54					1.34	5.45	5.56	22.6
15	55					1.35	5.71	5.81	21.9
16	56					1.36	5.08	5.43	19.4
17	57					1.36	5.47	5.65	21.6
18	58					1.36	7.03	6.92	20.9
19	59					1.36	5.62	5.85	20.1
20	60					1.36	5.11	5.42	20.5
	MB					1.34	—	1.34	0
	RP 60					1.35	6.12	6.25	19.9

.wp\chemcom\metdigst.frm.3

$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$

S7079

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 18

Date Start: 3/5/92 Chem. Int.: WHP Date End: 3/6/92 Chem. Int: WHP Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC3 X61	10	N	mix	dry	1.36	6.52	6.64	19.0
2	62					1.35	5.70	5.93	19.6
3	63					1.35	5.13	5.46	19.9
4	64					1.35	5.83	6.07	19.0
5	65					1.35	6.00	6.19	19.3
6	66					1.35	8.60	8.22	20.1
7	67					1.35	5.78	5.80	23.0
8	68					1.34	6.20	6.40	18.4
9	69					1.33	7.03	7.18	16.8
10	70					1.33	6.52	6.62	18.9
11	71					1.33	7.87	7.88	16.8
12	72					1.33	5.52	5.93	16.7
13	73					1.35	5.66	5.98	18.2
14	74					1.35	5.13	5.60	17.2
15	75					1.35	6.27	6.76	13.7
16	76					1.35	5.61	5.88	19.2
17	77					1.33	6.50	6.58	19.2
18	78					1.33	6.46	6.57	18.9
19	79					1.35	6.10	6.52	15.2
20	80					1.35	5.16	5.72	15.3
21	MB					1.34	—	1.34	0
22	RP 80					1.34	5.94	6.34	15.8

\wp\chemcom\metdigst.frm.3

57079

* $[1-(\frac{C-A}{B})]*100=\%MOISTURE$

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 19

Date Start: 3/5/92 Chem. Int.: WHP | Date End: 3/6/92 Chem. Int.: WHP | Method:

Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
WWC3 #81	1d	N	mix	dirt	1.34	6.03	6.47	14.9
82	↑	↑	↑	↑	1.34	6.38	6.51	19.0
83					1.34	6.39	6.70	16.1
84					1.32	5.37	5.93	14.2
85					1.32	5.51	5.78	19.0
86					1.32	6.41	6.48	19.5
87					1.32	5.56	5.89	17.8
88					~~1.32~~	~~5.18~~	spilled	
89					1.32	5.92	6.25	16.7
90	↓				1.32	6.11	6.52	14.9
91	2d				1.32	5.32	5.82	15.4
92					1.32	5.62	6.04	16.0
93					1.32	5.42	6.04	17.9
94					1.34	7.56	7.48	13.8
95					1.34	6.06	6.66	12.2
96					1.34	5.30	6.15	9.4
97					1.32	6.33	6.68	15.3
98					1.32	8.16	8.54	11.5
99					1.32	9.66	9.89	11.2
100					1.32	6.67	6.88	16.6
MB		↓	↓	↓	1.32	—	1.32	0
RP 100	↓				1.32	7.36	7.47	16.4

-p\chemcom\metdigst.frm.3

88 rpt

1.32 5.37 5.75 17.5

$* \left[1-\left(\frac{C-A}{B}\right)\right] * 100 = \%MOISTURE$

S7079

PERCENT MOISTURE DETERMINATION

Notebook: 2075 Page#: 20

Date Start: 3/5/92 Chem. Int.: DHP | Date End: 3/6/92 Chem. Int: DHP | Method:

Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
NWC3 101	20	N	mix	dirt	1.32	6.78	6.95	17.0
102					1.32	9.29	9.08	16.5
103					1.33	5.26	5.82	14.6
104					1.33	5.97	6.52	13.1
105					1.33	5.87	6.52	11.6
106					1.33	6.08	6.45	15.8
107					1.33	5.79	6.35	13.3
108					1.33	6.27	6.46	10.2
109					1.32	6.21	7.11	6.76
110					1.34	5.70	6.51	9.30
111					1.34	5.73	6.61	8.03
112					1.34	7.74	7.96	14.3
113					1.33	7.20	7.72	11.7
114					1.33	6.59	7.30	9.41
115					1.34	6.15	6.32	19.0
116					1.34	5.94	6.45	14.0
117					1.34	6.49	7.09	11.4
118					1.33	7.45	7.66	15.0
119					1.34	6.04	6.57	13.4
120					1.34	5.21	5.93	11.9
MB					1.33	—	1.33	0
RP 120					1.33	5.61	6.32	11.0

18.2

\wp\chemcon\metdigst.frm.3

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57079

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 C100
NO. OF SAMPLES:
MATRIX 76/SOIL
ANALYSIS DATE: 3/18/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC3*20, WWC3*40 OUTSIDE % RECOVERY AND RPD CONTROL RANGE; LAB ATTRIBUTES TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31 C1CC
NO. OF SAMPLES wet
MATRIX ~~TS~~ 12C/SCIL
ANALYSIS DATE: 3/19/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Wendy Reinbolt
REVIEWER'S NAME WENDY REINBOLT
COMPLETION DATE 3/2-/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WLC3*180 EXCEEDS SAMPLE RECOVERY LIMITS. LAB ATTRIBUTES TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES
MATRIX 118/SOIL
ANALYSIS DATE: 3/20/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/20/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		C/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC3*220, WWC3*240, WWC3*260 EXCEEDED SAMPLE RECOVERY LIMITS. LAB ATTRIBUTES TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES:
MATRIX 196/SCIL
ANALYSIS DATE: 3/24/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME WENDY R[illegible]
COMPLETION DATE [illegible]/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC3*340, WWC3*360, WWC3*440, WWC3*460, WWC3*500, WWC3*520, EXCEED SAMPLE RECOVERY LIMITS LAB ATTRIBUTES TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 CIGC
NO. OF SAMPLES
MATRIX 59/Soil
ANALYSIS DATE: 3/25/92

SITE NL/TARACORP SUPERFUND SITE

REVIEWER [illegible]
REVIEWER'S NAME WENDY REDBOLT
COMPLETION DATE 7/2-/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WINC3* 58C EXCEEDS SAMPLE RECOVERY LIMITS. LAB ATTRIBUTES TO SAMPLE HOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES
MATRIX 43/SOIL
ANALYSIS DATE: 4/6/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/20/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC3* LDC EXCEEDS RPD CONTROL LIMITS. AN EXPLANATION BY LAB. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 59120-31 CICC
NO. OF SAMPLES
MATRIX 4/8/5CIR
ANALYSIS DATE: 4/7/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Randy Reinhart
REVIEWER'S NAME RANDY REINHART
COMPLETION DATE 7/20/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		✓			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 C/CO
NO. OF SAMPLES/
MATRIX 255/SOIL
ANALYSIS DATE: 4/13/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/20/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WLC4*80, WLC4*100 EXCEEDED SAMPLE RECOVERY LIMITS. LAB ATTRIBUTED TO SAMPLE INHOMOGENEITY DATA QUALIFIED AS (J) ESTIMATED

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES/
MATRIX 55/SOIL
ANALYSIS DATE: 5/11/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/20/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)(2)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/m			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC3*720, WWC3*820 EXCEED SAMPLE RECOVERY AND RPD LIMITS. LAB ATTRIBUTED TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS: (2) WWC3*[illegible] SHOWED A NEGATIVE SAMPLE RECOVERY. LAB ATTRIBUTED IT TO TARGET METAL BEING GREATER THAN 4 TIMES SPIKING CONCENTRATION IN THE SAMPLE MATRIX. CANNOT USE THIS DATA FOR MATRIX SPIKE.

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1619100A00L	WWC3*1	03/03/92	03/03/92	23.3		03/05/92	WHP
SDE1619100B00L	WWC3*2	03/03/92	03/03/92	19.5		03/05/92	WHP
SDE1619100C00L	WWC3*3	03/03/92	03/03/92	19.2		03/05/92	WHP
SDE1619200A00L	WWC3*4	03/03/92	03/03/92	19.5		03/05/92	WHP
SDE1619200B00L	WWC3*5	03/03/92	03/03/92	17.9		03/05/92	WHP
SDE1619200C00L	WWC3*6	03/03/92	03/03/92	17.3		03/05/92	WHP
SDE1628100A00L	WWC3*7	03/03/92	03/03/92	18.4		03/05/92	WHP
SDE1628100A0LD	WWC3*8	03/03/92	03/03/92	18.0		03/05/92	WHP
SDE1628100B00L	WWC3*9	03/03/92	03/03/92	17.0		03/05/92	WHP
SDE1628100B0LD	WWC3*10	03/03/92	03/03/92	17.5		03/05/92	WHP
SDE1628100C00L	WWC3*11	03/03/92	03/03/92	16.5		03/05/92	WHP
SDE1628100C0LD	WWC3*12	03/03/92	03/03/92	16.7		03/05/92	WHP
SDE1628200A00L	WWC3*13	03/03/92	03/03/92	22.7		03/05/92	WHP
SDE1628200B00L	WWC3*14	03/03/92	03/03/92	22.4		03/05/92	WHP
SDE1628200C00L	WWC3*15	03/03/92	03/03/92	22.5		03/05/92	WHP
SDE1636100A00L	WWC3*16	03/03/92	03/03/92	17.8		03/05/92	WHP
SDE1636100B00L	WWC3*17	03/03/92	03/03/92	18.3		03/05/92	WHP
SDE1636100C00L	WWC3*18	03/03/92	03/03/92	17.8		03/05/92	WHP
SDE1636200A00L	WWC3*19	03/03/92	03/03/92	17.1		03/05/92	WHP
SDE1636200B00L	WWC3*20	03/03/92	03/03/92	16.8		03/05/92	WHP
SDE1636200C00L	WWC3*21	03/03/92	03/03/92	18.5		03/05/92	WHP
SDE1638100A00L	WWC3*22	03/03/92	03/03/92	19.2		03/05/92	WHP
SDE1638100B00L	WWC3*23	03/03/92	03/03/92	21.0		03/05/92	WHP
SDE1638100C00L	WWC3*24	03/03/92	03/03/92	18.9		03/05/92	WHP
SDE1638200A00L	WWC3*25	03/03/92	03/03/92	21.1		03/05/92	WHP
SDE1638200B00L	WWC3*26	03/03/92	03/03/92	19.9		03/05/92	WHP
SDE1638200C00L	WWC3*27	03/03/92	03/03/92	23.4		03/05/92	WHP
SDE1637100A00L	WWC3*28	03/03/92	03/03/92	17.9		03/05/92	WHP
SDE1637100A0LD	WWC3*29	03/03/92	03/03/92	19.2		03/05/92	WHP
SDE1637100B00L	WWC3*30	03/03/92	03/03/92	17.8		03/05/92	WHP
SDE1637100B0LD	WWC3*31	03/03/92	03/03/92	17.3		03/05/92	WHP
SDE1637100C00L	WWC3*32	03/03/92	03/03/92	16.0		03/05/92	WHP
SDE1637100C0LD	WWC3*33	03/03/92	03/03/92	16.5		03/05/92	WHP
SDE1637200A00L	WWC3*34	03/03/92	03/03/92	20.7		03/05/92	WHP
SDE1637200B00L	WWC3*35	03/03/92	03/03/92	19.4		03/05/92	WHP
SDE1637200C00L	WWC3*36	03/03/92	03/03/92	18.6		03/05/92	WHP
SDE1715100A00L	WWC3*37	03/03/92	03/03/92	22.3		03/05/92	WHP
SDE1715100B00L	WWC3*38	03/03/92	03/03/92	21.9		03/05/92	WHP
SDE1715100C00L	WWC3*39	03/03/92	03/03/92	21.9		03/05/92	WHP
SDE1715200A00L	WWC3*40	03/03/92	03/03/92	23.7		03/05/92	WHP
SDE1715200B00L	WWC3*41	03/03/92	03/03/92	20.0		03/05/92	WHP
SDE1715200C00L	WWC3*42	03/03/92	03/03/92	16.3		03/05/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1725100A00L	WWC3*43	03/03/92	03/03/92	22.3		03/05/92	WHP
SDE1725100A0LD	WWC3*44	03/03/92	03/03/92	24.4		03/05/92	WHP
SDE1725100B00L	WWC3*45	03/03/92	03/03/92	23.2		03/05/92	WHP
SDE1725100B0LD	WWC3*46	03/03/92	03/03/92	23.1		03/05/92	WHP
SDE1725100C00L	WWC3*47	03/03/92	03/03/92	21.5		03/05/92	WHP
SDE1725100C0LD	WWC3*48	03/03/92	03/03/92	21.2		03/05/92	WHP
SDE1725200A00L	WWC3*49	03/03/92	03/03/92	26.9		03/05/92	WHP
SDE1725200B00L	WWC3*50	03/03/92	03/03/92	25.1		03/05/92	WHP
SDE1725200C00L	WWC3*51	03/03/92	03/03/92	28.8		03/05/92	WHP
SDE1726100A00L	WWC3*52	03/03/92	03/03/92	22.1		03/05/92	WHP
SDE1726100B00L	WWC3*53	03/03/92	03/03/92	21.1		03/05/92	WHP
SDE1726100C00L	WWC3*54	03/03/92	03/03/92	22.6		03/05/92	WHP
SDE1726200A00L	WWC3*55	03/03/92	03/03/92	21.9		03/05/92	WHP
SDE1726200B00L	WWC3*56	03/03/92	03/03/92	19.9		03/05/92	WHP
SDE1726200C00L	WWC3*57	03/03/92	03/03/92	21.6		03/05/92	WHP
SDE1737100A00L	WWC3*58	03/03/92	03/03/92	20.9		03/05/92	WHP
SDE1737100A0LD	WWC3*59	03/03/92	03/03/92	20.1		03/05/92	WHP
SDE1737100B00L	WWC3*60	03/03/92	03/03/92	20.5		03/05/92	WHP
SDE1737100B0LD	WWC3*61	03/03/92	03/03/92	19.0		03/05/92	WHP
SDE1737100C00L	WWC3*62	03/03/92	03/03/92	19.6		03/05/92	WHP
SDE1737100C0LD	WWC3*63	03/03/92	03/03/92	19.9		03/05/92	WHP
SDE1737200A00L	WWC3*64	03/03/92	03/03/92	19.0		03/05/92	WHP
SDE1737200B00L	WWC3*65	03/03/92	03/03/92	19.3		03/05/92	WHP
SDE1737200C00L	WWC3*66	03/03/92	03/03/92	20.1		03/05/92	WHP
SDE2137100A00L	WWC3*67	03/03/92	03/03/92	23.0		03/05/92	WHP
SDE2137100B00L	WWC3*68	03/03/92	03/03/92	18.4		03/05/92	WHP
SDE2137100C00L	WWC3*69	03/03/92	03/03/92	16.8		03/05/92	WHP
SAD2100100A00L	WWC3*70	03/04/92	03/04/92	18.9		03/05/92	WHP
SAD2100100B00L	WWC3*71	03/04/92	03/04/92	16.8		03/05/92	WHP
SAD2100100C00L	WWC3*72	03/04/92	03/04/92	16.7		03/05/92	WHP
SAD2100200A00L	WWC3*73	03/04/92	03/04/92	18.2		03/05/92	WHP
SAD2100200B00L	WWC3*74	03/04/92	03/04/92	17.2		03/05/92	WHP
SAD2100200C00L	WWC3*75	03/04/92	03/04/92	13.7		03/05/92	WHP
SAD2128100A00L	WWC3*76	03/04/92	03/04/92	19.2		03/05/92	WHP
SAD2128100B00L	WWC3*77	03/04/92	03/04/92	19.2		03/05/92	WHP
SAD2128100C00L	WWC3*78	03/04/92	03/04/92	18.9		03/05/92	WHP
SAD2128200A00L	WWC3*79	03/04/92	03/04/92	15.2		03/05/92	WHP
SAD2128200B00L	WWC3*80	03/04/92	03/04/92	15.3		03/05/92	WHP
SAD2128200C00L	WWC3*81	03/04/92	03/04/92	14.9		03/05/92	WHP
SAD2148100A00L	WWC3*82	03/04/92	03/04/92	19.0		03/05/92	WHP
SAD2148100B00L	WWC3*83	03/04/92	03/04/92	16.1		03/05/92	WHP
SAD2148100C00L	WWC3*84	03/04/92	03/04/92	14.2		03/05/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11663 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SAD2148200A00L	WWC3*85	03/04/92	03/04/92	19.0		03/05/92	WHP
SAD2148200B00L	WWC3*86	03/04/92	03/04/92	19.5		03/05/92	WHP
SAD2148200C00L	WWC3*87	03/04/92	03/04/92	17.8		03/05/92	WHP
SAD2140100A00L	WWC3*88	03/04/92	03/04/92	17.5		03/05/92	WHP
SAD2140100B00L	WWC3*89	03/04/92	03/04/92	16.7		03/05/92	WHP
SAD2140100C00L	WWC3*90	03/04/92	03/04/92	14.9		03/05/92	WHP
SAD2140200A00L	WWC3*91	03/04/92	03/04/92	15.4		03/05/92	WHP
SAD2140200B00L	WWC3*92	03/04/92	03/04/92	16.0		03/05/92	WHP
SAD2140200C00L	WWC3*93	03/04/92	03/04/92	12.9		03/05/92	WHP
SBE1926100A00L	WWC3*94	03/04/92	03/04/92	18.8		03/05/92	WHP
SBE1926100B00L	WWC3*95	03/04/92	03/04/92	12.2		03/05/92	WHP
SBE1926100C00L	WWC3*96	03/04/92	03/04/92	9.2		03/05/92	WHP
SBE1926200A00L	WWC3*97	03/04/92	03/04/92	15.3		03/05/92	WHP
SBE1926200B00L	WWC3*98	03/04/92	03/04/92	11.5		03/05/92	WHP
SBE1926200C00L	WWC3*99	03/04/92	03/04/92	11.2		03/05/92	WHP
SBE1922100A00L	WWC3*100	03/04/92	03/04/92	16.6		03/05/92	WHP
SBE1922100B00L	WWC3*101	03/04/92	03/04/92	17.0		03/05/92	WHP
SBE1922100C00L	WWC3*102	03/04/92	03/04/92	16.5		03/05/92	WHP
SBE1922200A00L	WWC3*103	03/04/92	03/04/92	14.6		03/05/92	WHP
SBE1922200B00L	WWC3*104	03/04/92	03/04/92	13.1		03/05/92	WHP
SBE1922200C00L	WWC3*105	03/04/92	03/04/92	11.6		03/05/92	WHP
SBE1916100A00L	WWC3*106	03/04/92	03/04/92	15.8		03/05/92	WHP
SBE1916100B00L	WWC3*107	03/04/92	03/04/92	13.3		03/05/92	WHP
SBE1916100C00L	WWC3*108	03/04/92	03/04/92	~~10.7~~ 18.2 wet		03/05/92	WHP
SBE1916200A00L	WWC3*109	03/04/92	03/04/92	6.8		03/05/92	WHP
SBE1916200B00L	WWC3*110	03/04/92	03/04/92	9.3		03/05/92	WHP
SBE1916200C00L	WWC3*111	03/04/92	03/04/92	8.0		03/05/92	WHP
SBE1940100A00L	WWC3*112	03/04/92	03/04/92	14.5		03/05/92	WHP
SBE1940100B00L	WWC3*113	03/04/92	03/04/92	11.2		03/05/92	WHP
SBE1940100C00L	WWC3*114	03/04/92	03/04/92	9.4		03/05/92	WHP
SBE1940200A00L	WWC3*115	03/04/92	03/04/92	19.0		03/05/92	WHP
SBE1940200B00L	WWC3*116	03/04/92	03/04/92	14.0		03/05/92	WHP
SBE1940200C00L	WWC3*117	03/04/92	03/04/92	11.4		03/05/92	WHP
SBE1941100A00L	WWC3*118	03/04/92	03/04/92	15.0		03/05/92	WHP
SBE1941100B00L	WWC3*119	03/04/92	03/04/92	13.4		03/05/92	WHP
SBE1941100C00L	WWC3*120	03/04/92	03/04/92	11.9		03/05/92	WHP
SBE1941200A00L	WWC3*121	03/04/92	03/04/92	13.8		03/06/92	WHP
SBE1941200B00L	WWC3*122	03/04/92	03/04/92	14.2		03/06/92	WHP
SBE1941200C00L	WWC3*123	03/04/92	03/04/92	14.4		03/06/92	WHP
SBE2140100A00L	WWC3*124	03/04/92	03/04/92	19.1		03/06/92	WHP
SBE2140100B00L	WWC3*125	03/04/92	03/04/92	17.5		03/06/92	WHP
SBE2140100C00L	WWC3*126	03/04/92	03/04/92	17.1		03/06/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2140200A00L	WWC3*127	03/04/92	03/04/92	17.9		03/06/92	WHP
SBE2140200B00L	WWC3*128	03/04/92	03/04/92	18.5		03/06/92	WHP
SBE2140200C00L	WWC3*129	03/04/92	03/04/92	18.0		03/06/92	WHP
SBE2020100A00L	WWC3*130	03/04/92	03/04/92	19.5		03/06/92	WHP
SBE2020100B00L	WWC3*131	03/04/92	03/04/92	16.5		03/06/92	WHP
SBE2020100C00L	WWC3*132	03/04/92	03/04/92	14.2		03/06/92	WHP
SBE2020200A00L	WWC3*133	03/04/92	03/04/92	22.2		03/06/92	WHP
SBE2020200B00L	WWC3*134	03/04/92	03/04/92	19.2		03/06/92	WHP
SBE2020200C00L	WWC3*135	03/04/92	03/04/92	14.0		03/06/92	WHP
SBE2034100A00L	WWC3*136	03/04/92	03/04/92	17.4		03/06/92	WHP
SBE2034100B00L	WWC3*137	03/04/92	03/04/92	11.8		03/06/92	WHP
SBE2034100C00L	WWC3*138	03/04/92	03/04/92	12.2		03/06/92	WHP
SBE2034200A00L	WWC3*139	03/04/92	03/04/92	15.5		03/06/92	WHP
SBE2034200B00L	WWC3*140	03/04/92	03/04/92	15.2		03/06/92	WHP
SBE2034200C00L	WWC3*141	03/04/92	03/04/92	15.7		03/06/92	WHP
SBE2032100A00L	WWC3*142	03/04/92	03/04/92	14.7		03/06/92	WHP
SBE2032100B00L	WWC3*143	03/04/92	03/04/92	15.0		03/06/92	WHP
SBE2032100C00L	WWC3*144	03/04/92	03/04/92	15.2		03/06/92	WHP
SBE2032200A00L	WWC3*145	03/04/92	03/04/92	19.0		03/06/92	WHP
SBE2032200B00L	WWC3*146	03/04/92	03/04/92	19.9		03/06/92	WHP
SBE2032200C00L	WWC3*147	03/04/92	03/04/92	19.0		03/06/92	WHP
SBE2256100A00L	WWC3*148	03/05/92	03/05/92	21.6		03/06/92	WHP
SBE2256100A0LD	WWC3*149	03/05/92	03/05/92	22.2		03/06/92	WHP
SBE2256100B00L	WWC3*150	03/05/92	03/05/92	21.3		03/06/92	WHP
SBE2256100B0LD	WWC3*151	03/05/92	03/05/92	21.0		03/06/92	WHP
SBE2256100C00L	WWC3*152	03/05/92	03/05/92	20.4		03/06/92	WHP
SBE2256100C0LD	WWC3*153	03/05/92	03/05/92	19.9		03/06/92	WHP
SBE2256200A00L	WWC3*154	03/05/92	03/05/92	8.4		03/06/92	WHP
SBE2256200B00L	WWC3*155	03/05/92	03/05/92	9.2		03/06/92	WHP
SBE2256200C00L	WWC3*156	03/05/92	03/05/92	12.4		03/06/92	WHP
SBE2244100A00L	WWC3*157	03/05/92	03/05/92	14.0		03/06/92	WHP
SBE2244100B00L	WWC3*158	03/05/92	03/05/92	15.8		03/06/92	WHP
SBE2244100C00L	WWC3*159	03/05/92	03/05/92	15.6		03/06/92	WHP
SBE2244200A00L	WWC3*160	03/05/92	03/05/92	15.3		03/06/92	WHP
SBE2244200B00L	WWC3*161	03/05/92	03/05/92	13.5		03/10/92	JLR
SBE2244200C00L	WWC3*162	03/05/92	03/05/92	11.6		03/10/92	JLR
SBE2246100A00L	WWC3*163	03/05/92	03/05/92	21.0		03/10/92	JLR
SBE2246100B00L	WWC3*164	03/05/92	03/05/92	18.2		03/10/92	JLR
SBE2246100C00L	WWC3*165	03/05/92	03/05/92	16.9		03/10/92	JLR
SBE2246200A00L	WWC3*166	03/05/92	03/05/92	17.4		03/10/92	JLR
SBE2246200B00L	WWC3*167	03/05/92	03/05/92	16.6		03/10/92	JLR
SBE2246200C00L	WWC3*168	03/05/92	03/05/92	14.3		03/10/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1603100A00L	WWC3*169	03/05/92	03/05/92	15.1		03/10/92	JLR
SMP1603100B00L	WWC3*170	03/05/92	03/05/92	15.1		03/10/92	JLR
SMP1603100C00L	WWC3*171	03/05/92	03/05/92	13.8		03/10/92	JLR
SMP1603200A00L	WWC3*172	03/05/92	03/05/92	17.1		03/10/92	JLR
SMP1603200B00L	WWC3*173	03/05/92	03/05/92	16.8		03/10/92	JLR
SMP1603200C00L	WWC3*174	03/05/92	03/05/92	15.7		03/10/92	JLR
SMP1642100A00L	WWC3*175	03/05/92	03/05/92	16.8		03/10/92	JLR
SMP1642100B00L	WWC3*176	03/05/92	03/05/92	15.2		03/10/92	JLR
SMP1642100C00L	WWC3*177	03/05/92	03/05/92	21.5		03/10/92	JLR
SMP1642200A00L	WWC3*178	03/05/92	03/05/92	17.6		03/10/92	JLR
SMP1642200B00L	WWC3*179	03/05/92	03/05/92	18.9		03/10/92	JLR
SMP1642200C00L	WWC3*180	03/05/92	03/05/92	22.2		03/10/92	JLR
SMP1641100A00L	WWC3*181	03/05/92	03/05/92	18.9		03/10/92	JLR
SMP1641100B00L	WWC3*182	03/05/92	03/05/92	18.7		03/10/92	JLR
SMP1641100C00L	WWC3*183	03/05/92	03/05/92	16.3		03/10/92	JLR
SMP1641200A00L	WWC3*184	03/05/92	03/05/92	18.3		03/10/92	JLR
SMP1641200B00L	WWC3*185	03/05/92	03/05/92	17.1		03/10/92	JLR
SMP1641200C00L	WWC3*186	03/05/92	03/05/92	18.4		03/10/92	JLR
SMP1635100A00L	WWC3*187	03/05/92	03/05/92	18.4		03/10/92	JLR
SMP1635100B00L	WWC3*188	03/05/92	03/05/92	14.9		03/10/92	JLR
SMP1635100C00L	WWC3*189	03/05/92	03/05/92	13.8		03/10/92	JLR
SMP1635200A00L	WWC3*190	03/05/92	03/05/92	16.8		03/10/92	JLR
SMP1635200B00L	WWC3*191	03/05/92	03/05/92	16.8		03/10/92	JLR
SMP1635200C00L	WWC3*192	03/05/92	03/05/92	15.8		03/10/92	JLR
SMP1633100A00L	WWC3*193	03/05/92	03/05/92	12.6		03/10/92	JLR
SMP1633100B00L	WWC3*194	03/05/92	03/05/92	11.0		03/10/92	JLR
SMP1633100C00L	WWC3*195	03/05/92	03/05/92	10.2		03/10/92	JLR
SMP1633200A00L	WWC3*196	03/05/92	03/05/92	20.3		03/10/92	JLR
SMP1633200B00L	WWC3*197	03/05/92	03/05/92	16.0		03/10/92	JLR
SMP1633200C00L	WWC3*198	03/05/92	03/05/92	15.2		03/10/92	JLR
SMP1632100A00L	WWC3*199	03/05/92	03/05/92	19.0		03/10/92	JLR
SMP1632100B00L	WWC3*200	03/05/92	03/05/92	17.4		03/10/92	JLR
SMP1632100C00L	WWC3*201	03/05/92	03/05/92	14.5		03/10/92	JLR
SMP1632200A00L	WWC3*202	03/05/92	03/05/92	13.6		03/10/92	JLR
SMP1632200B00L	WWC3*203	03/05/92	03/05/92	13.6		03/10/92	JLR
SMP1632200C00L	WWC3*204	03/05/92	03/05/92	12.7		03/10/92	JLR
SMP1617100A00L	WWC3*205	03/05/92	03/05/92	16.4		03/10/92	JLR
SMP1617100B00L	WWC3*206	03/05/92	03/05/92	15.3		03/10/92	JLR
SMP1617100C00L	WWC3*207	03/05/92	03/05/92	15.7		03/10/92	JLR
SMP1617200A00L	WWC3*208	03/05/92	03/05/92	17.8		03/10/92	JLR
SMP1617200B00L	WWC3*209	03/05/92	03/05/92	18.7		03/10/92	JLR
SMP1617200C00L	WWC3*210	03/05/92	03/05/92	17.5		03/10/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1618100A00L	WWC3*211	03/05/92	03/05/92	18.4		03/10/92	JLR
SMP1618100B00L	WWC3*212	03/05/92	03/05/92	16.8		03/10/92	JLR
SMP1618100C00L	WWC3*213	03/05/92	03/05/92	14.1		03/10/92	JLR
SMP1618200A00L	WWC3*214	03/05/92	03/05/92	16.9		03/10/92	JLR
SMP1618200B00L	WWC3*215	03/05/92	03/05/92	17.2		03/10/92	JLR
SMP1618200C00L	WWC3*216	03/05/92	03/05/92	17.6		03/10/92	JLR
SMP1619100A00L	WWC3*217	03/05/92	03/05/92	18.6		03/10/92	JLR
SMP1619100B00L	WWC3*218	03/05/92	03/05/92	18.0		03/10/92	JLR
SMP1619100C00L	WWC3*219	03/05/92	03/05/92	17.7		03/10/92	JLR
SMP1619200A00L	WWC3*220	03/05/92	03/05/92	19.8		03/10/92	JLR
SMP1619200B00L	WWC3*221	03/05/92	03/05/92	19.3		03/10/92	JLR
SMP1619200C00L	WWC3*222	03/05/92	03/05/92	18.2		03/10/92	JLR
SCL1624100A00L	WWC3*223	03/06/92	03/06/92	24.1		03/10/92	JLR
SCL1624100B00L	WWC3*224	03/06/92	03/06/92	23.3		03/10/92	JLR
SCL1624100C00L	WWC3*225	03/06/92	03/06/92	18.4		03/10/92	JLR
SCL1624200A00L	WWC3*226	03/06/92	03/06/92	17.4		03/10/92	JLR
SCL1624200B00L	WWC3*227	03/06/92	03/06/92	17.3		03/10/92	JLR
SCL1624200C00L	WWC3*228	03/06/92	03/06/92	16.2		03/10/92	JLR
SCL1628100A00L	WWC3*229	03/06/92	03/06/92	20.6		03/10/92	JLR
SCL1628100B00L	WWC3*230	03/06/92	03/06/92	18.3		03/10/92	JLR
SCL1628100C00L	WWC3*231	03/06/92	03/06/92	18.8		03/10/92	JLR
SCL1628200A00L	WWC3*232	03/06/92	03/06/92	16.5		03/10/92	JLR
SCL1628200B00L	WWC3*233	03/06/92	03/06/92	19.8		03/10/92	JLR
SCL1628200C00L	WWC3*234	03/06/92	03/06/92	19.6		03/10/92	JLR
SCL1726100A00L	WWC3*235	03/06/92	03/06/92	21.8		03/10/92	JLR
SCL1726100B00L	WWC3*236	03/06/92	03/06/92	16.4		03/10/92	JLR
SCL1726100C00L	WWC3*237	03/06/92	03/06/92	18.1		03/10/92	JLR
SCL1726200A00L	WWC3*238	03/06/92	03/06/92	22.1		03/10/92	JLR
SCL1726200B00L	WWC3*239	03/06/92	03/06/92	19.9		03/10/92	JLR
SCL1726200C00L	WWC3*240	03/06/92	03/06/92	21.0		03/10/92	JLR
SCL2114100A00L	WWC3*241	03/06/92	03/06/92	20.7		03/10/92	JLR
SCL2114100B00L	WWC3*242	03/06/92	03/06/92	19.0		03/10/92	JLR
SCL2114100C00L	WWC3*243	03/06/92	03/06/92	18.9		03/10/92	JLR
SCL2114200A00L	WWC3*244	03/06/92	03/06/92	18.3		03/10/92	JLR
SCL2114200B00L	WWC3*245	03/06/92	03/06/92	19.3		03/10/92	JLR
SCL2114200C00L	WWC3*246	03/06/92	03/06/92	18.3		03/10/92	JLR
SCL2128100A00L	WWC3*247	03/06/92	03/06/92	10.9		03/10/92	JLR
SCL2128100B00L	WWC3*248	03/06/92	03/06/92	17.8		03/10/92	JLR
SCL2128100C00L	WWC3*249	03/06/92	03/06/92	17.8		03/10/92	JLR
SCL2128200A00L	WWC3*250	03/06/92	03/06/92	15.1		03/10/92	JLR
SCL2128200B00L	WWC3*251	03/06/92	03/06/92	14.4		03/10/92	JLR
SCL2128200C00L	WWC3*252	03/06/92	03/06/92	16.8		03/10/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2121100A00L	WWC3*253	03/06/92	03/06/92	20.8		03/10/92	JLR
SCL2121100B00L	WWC3*254	03/06/92	03/06/92	18.3		03/10/92	JLR
SCL2121100C00L	WWC3*255	03/06/92	03/06/92	16.6		03/10/92	JLR
SCL2121200A00L	WWC3*256	03/06/92	03/06/92	19.3		03/10/92	JLR
SCL2121200B00L	WWC3*257	03/06/92	03/06/92	17.1		03/10/92	JLR
SCL2121200C00L	WWC3*258	03/06/92	03/06/92	16.4		03/10/92	JLR
SCL2127100A00L	WWC3*259	03/06/92	03/06/92	5.7		03/10/92	JLR
SCL2127100B00L	WWC3*260	03/06/92	03/06/92	19.7		03/10/92	JLR
SCL2127100C00L	WWC3*261	03/06/92	03/06/92	19.1		03/10/92	JLR
SCL2127200A00L	WWC3*262	03/06/92	03/06/92	18.9		03/10/92	JLR
SCL2127200B00L	WWC3*263	03/06/92	03/06/92	20.2		03/10/92	JLR
SCL2127200C00L	WWC3*264	03/06/92	03/06/92	20.2		03/10/92	JLR
SCL2131100A00L	WWC3*265	03/06/92	03/06/92	20.5		03/10/92	JLR
SCL2131100B00L	WWC3*266	03/06/92	03/06/92	16.3		03/10/92	JLR
SCL2131100C00L	WWC3*267	03/06/92	03/06/92	18.4		03/10/92	JLR
SCL2131200A00L	WWC3*268	03/06/92	03/06/92	24.0		03/10/92	JLR
SCL2131200B00L	WWC3*269	03/06/92	03/06/92	21.3		03/10/92	JLR
SCL2131200C00L	WWC3*270	03/06/92	03/06/92	19.8		03/10/92	JLR
SCL2126100A00L	WWC3*271	03/06/92	03/06/92	18.6		03/10/92	JLR
SCL2126100B00L	WWC3*272	03/06/92	03/06/92	19.5		03/10/92	JLR
SCL2126100C00L	WWC3*273	03/06/92	03/06/92	18.0		03/10/92	JLR
SCL2126200A00L	WWC3*274	03/06/92	03/06/92	19.5		03/10/92	JLR
SCL2126200B00L	WWC3*275	03/06/92	03/06/92	18.7		03/10/92	JLR
SCL2126200C00L	WWC3*276	03/06/92	03/06/92	18.8		03/10/92	JLR
SCL2008100A00L	WWC3*277	03/06/92	03/06/92	19.2		03/10/92	JLR
SCL2008100B00L	WWC3*278	03/06/92	03/06/92	19.4		03/10/92	JLR
SCL2008100C00L	WWC3*279	03/06/92	03/06/92	17.6		03/10/92	JLR
SCL2008200A00L	WWC3*280	03/06/92	03/06/92	16.0		03/10/92	JLR
SCL2008200B00L	WWC3*281	03/06/92	03/06/92	11.7		03/10/92	JLR
SCL2008200C00L	WWC3*282	03/06/92	03/06/92	13.4		03/10/92	JLR
SCL2057100A00L	WWC3*283	03/06/92	03/06/92	18.7		03/10/92	JLR
SCL2057100B00L	WWC3*284	03/06/92	03/06/92	17.3		03/10/92	JLR
SCL2057100C00L	WWC3*285	03/06/92	03/06/92	16.2		03/10/92	JLR
SCL2057200A00L	WWC3*286	03/06/92	03/06/92	15.4		03/10/92	JLR
SCL2057200B00L	WWC3*287	03/06/92	03/06/92	16.8		03/10/92	JLR
SCL2057200C00L	WWC3*288	03/06/92	03/06/92	16.1		03/10/92	JLR
SCL2030100A00L	WWC3*289	03/06/92	03/06/92	22.0		03/10/92	JLR
SCL2030100B00L	WWC3*290	03/06/92	03/06/92	18.1		03/10/92	JLR
SCL2030100C00L	WWC3*291	03/06/92	03/06/92	17.1		03/10/92	JLR
SCL2030200A00L	WWC3*292	03/06/92	03/06/92	14.2		03/10/92	JLR
SCL2030200B00L	WWC3*293	03/06/92	03/06/92	18.1		03/10/92	JLR
SCL2030200C00L	WWC3*294	03/06/92	03/06/92	18.0		03/10/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11605 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2026100A00L	WWC3*295	03/06/92	03/06/92	18.6		03/10/92	JLR
SCL2026100B00L	WWC3*296	03/06/92	03/06/92	18.8		03/10/92	JLR
SCL2026100C00L	WWC3*297	03/06/92	03/06/92	18.5		03/10/92	JLR
SCL2026200A00L	WWC3*298	03/06/92	03/06/92	15.2		03/10/92	JLR
SCL2026200B00L	WWC3*299	03/06/92	03/06/92	11.1		03/10/92	JLR
SCL2026200C00L	WWC3*300	03/06/92	03/06/92	10.6		03/10/92	JLR
SCL2161100A00L	WWC3*301	03/09/92	03/09/92	22.1		03/12/92	JLR
SCL2161100B00L	WWC3*302	03/09/92	03/09/92	18.0		03/12/92	JLR
SCL2161100C00L	WWC3*303	03/09/92	03/09/92	17.8		03/12/92	JLR
SCL2161200A00L	WWC3*304	03/09/92	03/09/92	20.3		03/12/92	JLR
SCL2161200B00L	WWC3*305	03/09/92	03/09/92	17.7		03/12/92	JLR
SCL2161200C00L	WWC3*306	03/09/92	03/09/92	17.7		03/12/92	JLR
SCL2160100A00L	WWC3*307	03/09/92	03/09/92	20.3		03/12/92	JLR
SCL2160100B00L	WWC3*308	03/09/92	03/09/92	17.9		03/12/92	JLR
SCL2160100C00L	WWC3*309	03/09/92	03/09/92	16.6		03/12/92	JLR
SCL2160200A00L	WWC3*310	03/09/92	03/09/92	21.3		03/12/92	JLR
SCL2160200B00L	WWC3*311	03/09/92	03/09/92	11.2		03/12/92	JLR
SCL2160200C00L	WWC3*312	03/09/92	03/09/92	18.1		03/12/92	JLR
SCL2145100A00L	WWC3*313	03/09/92	03/09/92	17.7		03/12/92	JLR
SCL2145100B00L	WWC3*314	03/09/92	03/09/92	15.8		03/12/92	JLR
SCL2145100C00L	WWC3*315	03/09/92	03/09/92	16.0		03/12/92	JLR
SCL2145200A00L	WWC3*316	03/09/92	03/09/92	16.8		03/12/92	JLR
SCL2145200B00L	WWC3*317	03/09/92	03/09/92	16.6		03/12/92	JLR
SCL2145200C00L	WWC3*318	03/09/92	03/09/92	16.4		03/12/92	JLR
SCL2149100A00L	WWC3*319	03/09/92	03/09/92	18.1		03/12/92	JLR
SCL2149100B00L	WWC3*320	03/09/92	03/09/92	14.9		03/12/92	JLR
SCL2149100C00L	WWC3*321	03/09/92	03/09/92	15.2		03/12/92	JLR
SCL2149200A00L	WWC3*322	03/09/92	03/09/92	19.1		03/12/92	JLR
SCL2149200B00L	WWC3*323	03/09/92	03/09/92	16.6		03/12/92	JLR
SCL2149200C00L	WWC3*324	03/09/92	03/09/92	16.4		03/12/92	JLR
SCL2156100A00L	WWC3*325	03/09/92	03/09/92	20.4		03/12/92	JLR
SCL2156100B00L	WWC3*326	03/09/92	03/09/92	21.2		03/12/92	JLR
SCL2156100C00L	WWC3*327	03/09/92	03/09/92	18.7		03/12/92	JLR
SCL2156200A00L	WWC3*328	03/09/92	03/09/92	21.8		03/12/92	JLR
SCL2156200B00L	WWC3*329	03/09/92	03/09/92	16.2		03/12/92	JLR
SCL2156200C00L	WWC3*330	03/09/92	03/09/92	16.8		03/12/92	JLR
SCL2164100A00L	WWC3*331	03/09/92	03/09/92	21.1		03/12/92	JLR
SCL2164100B00L	WWC3*332	03/09/92	03/09/92	18.7		03/12/92	JLR
SCL2164100C00L	WWC3*333	03/09/92	03/09/92	16.8		03/12/92	JLR
SCL2164200A00L	WWC3*334	03/09/92	03/09/92	21.6		03/12/92	JLR
SCL2164200B00L	WWC3*335	03/09/92	03/09/92	20.4		03/12/92	JLR
SCL2164200C00L	WWC3*336	03/09/92	03/09/92	19.1		03/12/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2153100A00L	WWC3*337	03/09/92	03/09/92	15.1		03/12/92	JLR
SCL2153100B00L	WWC3*338	03/09/92	03/09/92	12.6		03/12/92	JLR
SCL2153100C00L	WWC3*339	03/09/92	03/09/92	13.0		03/12/92	JLR
SCL2153200A00L	WWC3*340	03/09/92	03/09/92	23.6		03/12/92	JLR
SCL2153200B00L	WWC3*341	03/09/92	03/09/92	17.4		03/12/92	JLR
SCL2153200C00L	WWC3*342	03/09/92	03/09/92	17.7		03/12/92	JLR
SGR2012100A00L	WWC3*343	03/09/92	03/09/92	20.3		03/12/92	JLR
SGR2012100B00L	WWC3*344	03/09/92	03/09/92	13.9		03/12/92	JLR
SGR2012100C00L	WWC3*345	03/09/92	03/09/92	16.4		03/12/92	JLR
SGR2012200A00L	WWC3*346	03/09/92	03/09/92	15.0		03/12/92	JLR
SGR2012200B00L	WWC3*347	03/09/92	03/09/92	18.9		03/12/92	JLR
SGR2012200C00L	WWC3*348	03/09/92	03/09/92	19.1		03/12/92	JLR
SGR2016100A00L	WWC3*349	03/09/92	03/09/92	21.9		03/12/92	JLR
SGR2016100B00L	WWC3*350	03/09/92	03/09/92	15.7		03/12/92	JLR
SGR2016100C00L	WWC3*351	03/09/92	03/09/92	19.2		03/12/92	JLR
SGR2016200A00L	WWC3*352	03/09/92	03/09/92	21.1		03/12/92	JLR
SGR2016200B00L	WWC3*353	03/09/92	03/09/92	18.7		03/12/92	JLR
SGR2016200C00L	WWC3*354	03/09/92	03/09/92	17.6		03/12/92	JLR
SGR1937100A00L	WWC3*355	03/09/92	03/09/92	23.2		03/12/92	JLR
SGR1937100B00L	WWC3*356	03/09/92	03/09/92	20.0		03/12/92	JLR
SGR1937100C00L	WWC3*357	03/09/92	03/09/92	18.5		03/12/92	JLR
SGR1937200A00L	WWC3*358	03/09/92	03/09/92	20.0		03/12/92	JLR
SGR1937200B00L	WWC3*359	03/09/92	03/09/92	21.4		03/12/92	JLR
SGR1937200C00L	WWC3*360	03/09/92	03/09/92	20.1		03/12/92	JLR
SGR1929100A00L	WWC3*361	03/09/92	03/09/92	23.5		03/16/92	JLR
SGR1929100B00L	WWC3*362	03/09/92	03/09/92	19.3		03/16/92	JLR
SGR1929100C00L	WWC3*363	03/09/92	03/09/92	18.2		03/16/92	JLR
SGR1919100A00L	WWC3*364	03/09/92	03/09/92	25.2		03/16/92	JLR
SGR1919100B00L	WWC3*365	03/09/92	03/09/92	21.1		03/16/92	JLR
SGR1919100C00L	WWC3*366	03/09/92	03/09/92	20.5		03/16/92	JLR
SGR1919200A00L	WWC3*367	03/09/92	03/09/92	20.9		03/16/92	JLR
SGR1919200B00L	WWC3*368	03/09/92	03/09/92	20.6		03/16/92	JLR
SGR1919200C00L	WWC3*369	03/09/92	03/09/92	19.9		03/16/92	JLR
SCL2264100A00L	WWC3*370	03/11/92	03/11/92	23.4		03/16/92	JLR
SCL2264100B00L	WWC3*371	03/11/92	03/11/92	18.7		03/16/92	JLR
SCL2264100C00L	WWC3*372	03/11/92	03/11/92	18.1		03/16/92	JLR
SCL2264200A00L	WWC3*373	03/11/92	03/11/92	25.4		03/16/92	JLR
SCL2264200B00L	WWC3*374	03/11/92	03/11/92	23.4		03/16/92	JLR
SCL2264200C00L	WWC3*375	03/11/92	03/11/92	21.5		03/16/92	JLR
SCL2254100A00L	WWC3*376	03/11/92	03/11/92	21.1		03/16/92	JLR
SCL2254100B00L	WWC3*377	03/11/92	03/11/92	19.5		03/16/92	JLR
SCL2254100C00L	WWC3*378	03/11/92	03/11/92	18.4		03/16/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2242100A00L	WWC3*379	03/11/92	03/11/92	19.4		03/16/92	JLR
SCL2242100A0LD	WWC3*380	03/11/92	03/11/92	18.6		03/16/92	JLR
SCL2242100B00L	WWC3*381	03/11/92	03/11/92	20.5		03/16/92	JLR
SCL2242100B0LD	WWC3*382	03/11/92	03/11/92	19.9		03/16/92	JLR
SCL2242100C00L	WWC3*383	03/11/92	03/11/92	16.5		03/16/92	JLR
SCL2242100C0LD	WWC3*384	03/11/92	03/11/92	17.1		03/16/92	JLR
SCL2242200A00L	WWC3*385	03/11/92	03/11/92	20.5		03/16/92	JLR
SCL2242200B00L	WWC3*386	03/11/92	03/11/92	18.4		03/16/92	JLR
SCL2242200C00L	WWC3*387	03/11/92	03/11/92	17.0		03/16/92	JLR
SCL2246100A00L	WWC3*388	03/11/92	03/11/92	20.4		03/16/92	JLR
SCL2246100B00L	WWC3*389	03/11/92	03/11/92	18.7		03/16/92	JLR
SCL2246100C00L	WWC3*390	03/11/92	03/11/92	17.1		03/16/92	JLR
SCL2246200A00L	WWC3*391	03/11/92	03/11/92	17.5		03/16/92	JLR
SCL2246200B00L	WWC3*392	03/11/92	03/11/92	20.0		03/16/92	JLR
SCL2246200C00L	WWC3*393	03/11/92	03/11/92	19.6		03/16/92	JLR
SCL2243100A00L	WWC3*394	03/11/92	03/11/92	19.2		03/16/92	JLR
SCL2243100B00L	WWC3*395	03/11/92	03/11/92	18.9		03/16/92	JLR
SCL2243100C00L	WWC3*396	03/11/92	03/11/92	17.8		03/16/92	JLR
SCL2243200A00L	WWC3*397	03/11/92	03/11/92	20.2		03/16/92	JLR
SCL2243200B00L	WWC3*398	03/11/92	03/11/92	18.1		03/16/92	JLR
SCL2243200C00L	WWC3*399	03/11/92	03/11/92	14.4		03/16/92	JLR
SCL2208100A00L	WWC3*400	03/11/92	03/11/92	18.7		03/16/92	JLR
SCL2208100B00L	WWC3*401	03/11/92	03/11/92	14.9		03/16/92	JLR
SCL2208100C00L	WWC3*402	03/11/92	03/11/92	19.1		03/16/92	JLR
SCL2208100A0LD	WWC3*403	03/11/92	03/11/92	18.3		03/16/92	JLR
SCL2208100B0LD	WWC3*404	03/11/92	03/11/92	16.7		03/16/92	JLR
SCL2208100C0LD	WWC3*405	03/11/92	03/11/92	20.5		03/16/92	JLR
SCL2208200A00L	WWC3*406	03/11/92	03/11/92	19.7		03/16/92	JLR
SCL2208200B00L	WWC3*407	03/11/92	03/11/92	16.7		03/16/92	JLR
SCL2208200C00L	WWC3*408	03/11/92	03/11/92	14.8		03/16/92	JLR
SCL2229100A00L	WWC3*409	03/11/92	03/11/92	20.1		03/16/92	JLR
SCL2229100B00L	WWC3*410	03/11/92	03/11/92	18.0		03/16/92	JLR
SCL2229100C00L	WWC3*411	03/11/92	03/11/92	17.7		03/16/92	JLR
SCL2229200A00L	WWC3*412	03/11/92	03/11/92	18.8		03/16/92	JLR
SCL2229200B00L	WWC3*413	03/11/92	03/11/92	15.7		03/16/92	JLR
SCL2229200C00L	WWC3*414	03/11/92	03/11/92	14.5		03/16/92	JLR
SCL2222100A00L	WWC3*415	03/11/92	03/11/92	22.1		03/16/92	JLR
SCL2222100B00L	WWC3*416	03/11/92	03/11/92	20.3		03/16/92	JLR
SCL2222100C00L	WWC3*417	03/11/92	03/11/92	18.4		03/16/92	JLR
SCL2222200A00L	WWC3*418	03/11/92	03/11/92	21.0		03/16/92	JLR
SCL2222200B00L	WWC3*419	03/11/92	03/11/92	16.1		03/16/92	JLR
SCL2222200C00L	WWC3*420	03/11/92	03/11/92	16.5		03/16/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2221100A00L	WWC3*421	03/11/92	03/11/92	20.9		03/17/92	JLR
SCL2221100B00L	WWC3*422	03/11/92	03/11/92	18.9		03/17/92	JLR
SCL2221100C00L	WWC3*423	03/11/92	03/11/92	16.7		03/17/92	JLR
SCL2221200A00L	WWC3*424	03/11/92	03/11/92	11.9		03/17/92	JLR
SCL2221200B00L	WWC3*425	03/11/92	03/11/92	10.0		03/17/92	JLR
SCL2221200C00L	WWC3*426	03/11/92	03/11/92	14.2		03/17/92	JLR
SCL2217100A00L	WWC3*427	03/11/92	03/11/92	13.1		03/17/92	JLR
SCL2217100B00L	WWC3*428	03/11/92	03/11/92	13.7		03/17/92	JLR
SCL2217100C00L	WWC3*429	03/11/92	03/11/92	12.4		03/17/92	JLR
SCL2217200A00L	WWC3*430	03/11/92	03/11/92	19.1		03/17/92	JLR
SCL2217200B00L	WWC3*431	03/11/92	03/11/92	19.9		03/17/92	JLR
SCL2217200C00L	WWC3*432	03/11/92	03/11/92	18.2		03/17/92	JLR
SGR2209100A00L	WWC3*433	03/12/92	03/12/92	16.7		03/17/92	JLR
SGR2209100A0LD	WWC3*434	03/12/92	03/12/92	17.2		03/17/92	JLR
SGR2209100B00L	WWC3*435	03/12/92	03/12/92	18.1		03/17/92	JLR
SGR2209100B0LD	WWC3*436	03/12/92	03/12/92	14.6		03/17/92	JLR
SGR2209100C00L	WWC3*437	03/12/92	03/12/92	13.1		03/17/92	JLR
SGR2209100C0LD	WWC3*438	03/12/92	03/12/92	14.4		03/17/92	JLR
SGR2209200A00L	WWC3*439	03/12/92	03/12/92	20.0		03/17/92	JLR
SGR2209200B00L	WWC3*440	03/12/92	03/12/92	17.7		03/17/92	JLR
SGR2209200C00L	WWC3*441	03/12/92	03/12/92	17.2		03/17/92	JLR
SGR2228100A00L	WWC3*442	03/12/92	03/12/92	20.2		03/17/92	JLR
SGR2228100B00L	WWC3*443	03/12/92	03/12/92	20.5		03/17/92	JLR
SGR2228100C00L	WWC3*444	03/12/92	03/12/92	20.5		03/17/92	JLR
SGR2228200A00L	WWC3*445	03/12/92	03/12/92	9.6		03/17/92	JLR
SGR2228200B00L	WWC3*446	03/12/92	03/12/92	10.7		03/17/92	JLR
SGR2228200C00L	WWC3*447	03/12/92	03/12/92	23.2		03/17/92	JLR
SGR2213100A00L	WWC3*448	03/12/92	03/12/92	18.4		03/17/92	JLR
SGR2213100B00L	WWC3*449	03/12/92	03/12/92	17.1		03/17/92	JLR
SGR2213100C00L	WWC3*450	03/12/92	03/12/92	14.7		03/17/92	JLR
SGR2213200A00L	WWC3*451	03/12/92	03/12/92	19.8		03/17/92	JLR
SGR2213200B00L	WWC3*452	03/12/92	03/12/92	20.4		03/17/92	JLR
SGR2213200C00L	WWC3*453	03/12/92	03/12/92	23.2		03/17/92	JLR
SGR2221100A00L	WWC3*454	03/12/92	03/12/92	15.1		03/17/92	JLR
SGR2221100B00L	WWC3*455	03/12/92	03/12/92	16.6		03/17/92	JLR
SGR2221100C00L	WWC3*456	03/12/92	03/12/92	12.4		03/17/92	JLR
SGR2221200A00L	WWC3*457	03/12/92	03/12/92	21.1		03/17/92	JLR
SGR2221200B00L	WWC3*458	03/12/92	03/12/92	23.6		03/17/92	JLR
SGR2221200C00L	WWC3*459	03/12/92	03/12/92	23.1		03/17/92	JLR
SGR2217100A00L	WWC3*460	03/12/92	03/12/92	16.5		03/17/92	JLR
SGR2217100B00L	WWC3*461	03/12/92	03/12/92	14.2		03/17/92	JLR
SGR2217100C00L	WWC3*462	03/12/92	03/12/92	12.1		03/17/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR2217200A00L	WWC3*463	03/12/92	03/12/92	24.5		03/17/92	JLR
SGR2217200B00L	WWC3*464	03/12/92	03/12/92	22.3		03/17/92	JLR
SGR2217200C00L	WWC3*465	03/12/92	03/12/92	20.6		03/17/92	JLR
SGR2233100A00L	WWC3*466	03/12/92	03/12/92	15.5		03/17/92	JLR
SGR2233100B00L	WWC3*467	03/12/92	03/12/92	15.1		03/17/92	JLR
SGR2233100C00L	WWC3*468	03/12/92	03/12/92	11.2		03/17/92	JLR
SGR2233100A0LD	WWC3*469	03/12/92	03/12/92	15.3		03/17/92	JLR
SGR2233100B0LD	WWC3*470	03/12/92	03/12/92	12.1		03/17/92	JLR
SGR2233100C0LD	WWC3*471	03/12/92	03/12/92	11.4		03/17/92	JLR
SGR2263100A00L	WWC3*472	03/12/92	03/12/92	16.4		03/17/92	JLR
SGR2263100B00L	WWC3*473	03/12/92	03/12/92	12.8		03/17/92	JLR
SGR2263100C00L	WWC3*474	03/12/92	03/12/92	12.7		03/17/92	JLR
SGR2263200A00L	WWC3*475	03/12/92	03/12/92	20.7		03/17/92	JLR
SGR2263200B00L	WWC3*476	03/12/92	03/12/92	18.4		03/17/92	JLR
SGR2263200C00L	WWC3*477	03/12/92	03/12/92	17.6		03/17/92	JLR
SGR2254100A00L	WWC3*478	03/12/92	03/12/92	19.3		03/17/92	JLR
SGR2254100B00L	WWC3*479	03/12/92	03/12/92	18.6		03/17/92	JLR
SGR2254100C00L	WWC3*480	03/12/92	03/12/92	24.2		03/17/92	JLR
SGR2254200A00L	WWC3*481	03/12/92	03/12/92	16.2		03/17/92	JLR
SGR2254200B00L	WWC3*482	03/12/92	03/12/92	15.8		03/17/92	JLR
SGR2254200C00L	WWC3*483	03/12/92	03/12/92	16.8		03/17/92	JLR
SGR2248100A00L	WWC3*484	03/12/92	03/12/92	22.7		03/17/92	JLR
SGR2248100B00L	WWC3*485	03/12/92	03/12/92	20.4		03/17/92	JLR
SGR2248100C00L	WWC3*486	03/12/92	03/12/92	19.8		03/17/92	JLR
SGR2248200A00L	WWC3*487	03/12/92	03/12/92	23.5		03/17/92	JLR
SGR2248200B00L	WWC3*488	03/12/92	03/12/92	21.7		03/17/92	JLR
SGR2248200C00L	WWC3*489	03/12/92	03/12/92	20.4		03/17/92	JLR
SDE2205100A00L	WWC3*490	03/13/92	03/13/92	19.9		03/17/92	JLR
SDE2205100B00L	WWC3*491	03/13/92	03/13/92	16.8		03/17/92	JLR
SDE2205100C00L	WWC3*492	03/13/92	03/13/92	16.3		03/17/92	JLR
SDE2205200A00L	WWC3*493	03/13/92	03/13/92	21.7		03/17/92	JLR
SDE2205200B00L	WWC3*494	03/13/92	03/13/92	20.2		03/17/92	JLR
SDE2205200C00L	WWC3*495	03/13/92	03/13/92	18.4		03/17/92	JLR
SDE2206100A00L	WWC3*496	03/13/92	03/13/92	23.2		03/17/92	JLR
SDE2206100B00L	WWC3*497	03/13/92	03/13/92	19.8		03/17/92	JLR
SDE2206100C00L	WWC3*498	03/13/92	03/13/92	17.1		03/17/92	JLR
SDE2218100A00L	WWC3*499	03/13/92	03/13/92	21.2		03/17/92	JLR
SDE2218100B00L	WWC3*500	03/13/92	03/13/92	19.5		03/17/92	JLR
SDE2218100C00L	WWC3*501	03/13/92	03/13/92	18.5		03/18/92	JLR
SDE2218200A00L	WWC3*502	03/13/92	03/13/92	17.8		03/18/92	JLR
SDE2218200B00L	WWC3*503	03/13/92	03/13/92	16.0		03/18/92	JLR
SDE2218200C00L	WWC3*504	03/13/92	03/13/92	15.7		03/18/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11965 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE2206200A00L	WWC3*505	03/13/92	03/13/92	18.4		03/18/92	JLR
SDE2206200B00L	WWC3*506	03/13/92	03/13/92	15.4		03/18/92	JLR
SDE2206200C00L	WWC3*507	03/13/92	03/13/92	13.1		03/18/92	JLR
SDE2227100A00L	WWC3*508	03/13/92	03/13/92	20.4		03/18/92	JLR
SDE2227100B00L	WWC3*509	03/13/92	03/13/92	17.5		03/18/92	JLR
SDE2227100C00L	WWC3*510	03/13/92	03/13/92	16.5		03/18/92	JLR
SDE2227200A00L	WWC3*511	03/13/92	03/13/92	16.5		03/18/92	JLR
SDE2227200B00L	WWC3*512	03/13/92	03/13/92	11.9		03/18/92	JLR
SDE2227200C00L	WWC3*513	03/13/92	03/13/92	15.1		03/18/92	JLR
SDE2233100A00L	WWC3*514	03/13/92	03/13/92	20.8		03/18/92	JLR
SDE2233100B00L	WWC3*515	03/13/92	03/13/92	16.7		03/18/92	JLR
SDE2233100C00L	WWC3*516	03/13/92	03/13/92	16.6		03/18/92	JLR
SDE2233200A00L	WWC3*517	03/13/92	03/13/92	22.5		03/18/92	JLR
SDE2233200B00L	WWC3*518	03/13/92	03/13/92	21.9		03/18/92	JLR
SDE2233200C00L	WWC3*519	03/13/92	03/13/92	25.9		03/18/92	JLR
SDE2234100A00L	WWC3*520	03/13/92	03/13/92	21.4		03/18/92	JLR
SDE2234100B00L	WWC3*521	03/13/92	03/13/92	20.0		03/19/92	JLR
SDE2234100C00L	WWC3*522	03/13/92	03/13/92	20.3		03/19/92	JLR
SDE2234200A00L	WWC3*523	03/13/92	03/13/92	22.7		03/19/92	JLR
SDE2234200B00L	WWC3*524	03/13/92	03/13/92	21.9		03/19/92	JLR
SDE2234200C00L	WWC3*525	03/13/92	03/13/92	23.6		03/19/92	JLR
SGR1414100A00L	WWC3*526	03/16/92	03/16/92	21.1		03/19/92	JLR
SGR1414100B00L	WWC3*527	03/16/92	03/16/92	19.6		03/19/92	JLR
SGR1414100C00L	WWC3*528	03/16/92	03/16/92	20.0		03/19/92	JLR
SGR1414200A00L	WWC3*529	03/16/92	03/16/92	19.7		03/19/92	JLR
SGR1414200B00L	WWC3*530	03/16/92	03/16/92	18.5		03/19/92	JLR
SGR1414200C00L	WWC3*531	03/16/92	03/16/92	20.3		03/19/92	JLR
SGR1410100A00L	WWC3*532	03/16/92	03/16/92	19.5		03/19/92	JLR
SGR1410100B00L	WWC3*533	03/16/92	03/16/92	15.8		03/19/92	JLR
SGR1410100C00L	WWC3*534	03/16/92	03/16/92	16.8		03/19/92	JLR
SGR1410200A00L	WWC3*535	03/16/92	03/16/92	21.3		03/19/92	JLR
SGR1410200B00L	WWC3*536	03/16/92	03/16/92	17.6		03/19/92	JLR
SGR1410200C00L	WWC3*537	03/16/92	03/16/92	21.2		03/19/92	JLR
SGR1412100A00L	WWC3*538	03/16/92	03/16/92	19.9		03/19/92	JLR
SGR1412100B00L	WWC3*539	03/16/92	03/16/92	17.3		03/19/92	JLR
SGR1412100C00L	WWC3*540	03/16/92	03/16/92	20.1		03/19/92	JLR
SGR1412200A00L	WWC3*541	03/16/92	03/16/92	20.0		03/19/92	JLR
SGR1412200B00L	WWC3*542	03/16/92	03/16/92	19.7		03/19/92	JLR
SGR1412200C00L	WWC3*543	03/16/92	03/16/92	20.4		03/19/92	JLR
SGR1422100A00L	WWC3*544	03/16/92	03/16/92	24.5		03/19/92	JLR
SGR1422100B00L	WWC3*545	03/16/92	03/16/92	24.0		03/19/92	JLR
SGR1422100C00L	WWC3*546	03/16/92	03/16/92	23.1		03/19/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR1422200A00L	WWC3*547	03/16/92	03/16/92	25.1		03/19/92	JLR
SGR1422200B00L	WWC3*548	03/16/92	03/16/92	23.9		03/19/92	JLR
SGR1422200C00L	WWC3*549	03/16/92	03/16/92	26.6		03/19/92	JLR
SGR1443100A00L	WWC3*550	03/16/92	03/16/92	22.5		03/19/92	JLR
SGR1443100B00L	WWC3*551	03/16/92	03/16/92	21.9		03/19/92	JLR
SGR1443100C00L	WWC3*552	03/16/92	03/16/92	20.2		03/19/92	JLR
SGR1423100A00L	WWC3*553	03/16/92	03/16/92	22.6		03/19/92	JLR
SGR1423100B00L	WWC3*554	03/16/92	03/16/92	21.3		03/19/92	JLR
SGR1423100C00L	WWC3*555	03/16/92	03/16/92	19.5		03/19/92	JLR
SGR1423200A00L	WWC3*556	03/16/92	03/16/92	22.7		03/19/92	JLR
SGR1423200B00L	WWC3*557	03/16/92	03/16/92	21.3		03/19/92	JLR
SGR1423200C00L	WWC3*558	03/16/92	03/16/92	24.8		03/19/92	JLR
SGR1424100A00L	WWC3*559	03/16/92	03/16/92	22.1		03/19/92	JLR
SGR1424100B00L	WWC3*560	03/16/92	03/16/92	21.4		03/19/92	JLR
SGR1424100C00L	WWC3*561	03/16/92	03/16/92	21.2		03/19/92	JLR
SGR1424200A00L	WWC3*562	03/16/92	03/16/92	23.5		03/19/92	JLR
SGR1424200B00L	WWC3*563	03/16/92	03/16/92	26.5		03/19/92	JLR
SGR1424200C00L	WWC3*564	03/16/92	03/16/92	32.3		03/19/92	JLR
SGR1425100A00L	WWC3*565	03/16/92	03/16/92	23.9		03/19/92	JLR
SGR1425100B00L	WWC3*566	03/16/92	03/16/92	22.4		03/19/92	JLR
SGR1425100C00L	WWC3*567	03/16/92	03/16/92	22.2		03/19/92	JLR
SGR1425200A00L	WWC3*568	03/16/92	03/16/92	17.7		03/19/92	JLR
SGR1425200B00L	WWC3*569	03/16/92	03/16/92	18.1		03/19/92	JLR
SGR1425200C00L	WWC3*570	03/16/92	03/16/92	22.2		03/19/92	JLR
SGR1437100A00L	WWC3*571	03/16/92	03/16/92	20.3		03/19/92	JLR
SGR1437100B00L	WWC3*572	03/16/92	03/16/92	18.6		03/19/92	JLR
SGR1437100C00L	WWC3*573	03/16/92	03/16/92	15.3		03/19/92	JLR
SGR1437200A00L	WWC3*574	03/16/92	03/16/92	21.7		03/19/92	JLR
SGR1437200B00L	WWC3*575	03/16/92	03/16/92	20.2		03/19/92	JLR
SGR1437200C00L	WWC3*576	03/16/92	03/16/92	19.9		03/19/92	JLR
SGR1440100A00L	WWC3*577	03/16/92	03/16/92	18.7		03/19/92	JLR
SGR1440100B00L	WWC3*578	03/16/92	03/16/92	18.3		03/19/92	JLR
SGR1440100C00L	WWC3*579	03/16/92	03/16/92	15.7		03/19/92	JLR
SGR1442100A00L	WWC3*580	03/16/92	03/16/92	23.9		03/19/92	JLR
SGR1442100B00L	WWC3*581	03/16/92	03/16/92	23.4		03/20/92	JLR
SGR1442100C00L	WWC3*582	03/16/92	03/16/92	21.3		03/20/92	JLR
SGR1442200A00L	WWC3*583	03/16/92	03/16/92	19.2		03/20/92	JLR
SGR1442200B00L	WWC3*584	03/16/92	03/16/92	20.3		03/20/92	JLR
SGR1442200C00L	WWC3*585	03/16/92	03/16/92	23.0		03/20/92	JLR
SGR1714100A00L	WWC3*586	03/17/92	03/17/92	17.2		03/20/92	JLR
SGR1714100B00L	WWC3*587	03/17/92	03/17/92	21.2		03/20/92	JLR
SGR1714100C00L	WWC3*588	03/17/92	03/17/92	20.6		03/20/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR2127100A00L	WWC3*589	03/17/92	03/17/92	17.9		03/20/92	JLR
SGR2127100B00L	WWC3*590	03/17/92	03/17/92	18.7		03/20/92	JLR
SGR2127100C00L	WWC3*591	03/17/92	03/17/92	18.2		03/20/92	JLR
SGR2127200A00L	WWC3*592	03/17/92	03/17/92	18.0		03/20/92	JLR
SGR2127200B00L	WWC3*593	03/17/92	03/17/92	17.3		03/20/92	JLR
SGR2127200C00L	WWC3*594	03/17/92	03/17/92	17.5		03/20/92	JLR
SGR2139100A00L	WWC3*595	03/17/92	03/17/92	19.8		03/20/92	JLR
SGR2139100B00L	WWC3*596	03/17/92	03/17/92	17.4		03/20/92	JLR
SGR2139100C00L	WWC3*597	03/17/92	03/17/92	16.3		03/20/92	JLR
SDE2147100A0LD	WWC3*598	03/17/92	03/17/92	20.3		03/20/92	JLR
SDE2147100B0LD	WWC3*599	03/17/92	03/17/92	19.1		03/20/92	JLR
SDE2147100C0LD	WWC3*600	03/17/92	03/17/92	17.8		03/20/92	JLR
SDE2147100A00L	WWC3*601	03/17/92	03/17/92	19.9		03/19/92	JLR
SDE2147100B00L	WWC3*602	03/17/92	03/17/92	19.2		03/19/92	JLR
SDE2147100C00L	WWC3*603	03/17/92	03/17/92	17.5		03/19/92	JLR
SDE2147200A00L	WWC3*604	03/17/92	03/17/92	19.0		03/19/92	JLR
SDE2147200B00L	WWC3*605	03/17/92	03/17/92	17.2		03/19/92	JLR
SDE2147200C00L	WWC3*606	03/17/92	03/17/92	16.6		03/19/92	JLR
SDE2157100A00L	WWC3*607	03/17/92	03/17/92	17.4		03/19/92	JLR
SDE2157100B00L	WWC3*608	03/17/92	03/17/92	17.8		03/19/92	JLR
SDE2157100C00L	WWC3*609	03/17/92	03/17/92	14.6		03/19/92	JLR
SDE2157100A0LD	WWC3*610	03/17/92	03/17/92	17.3		03/19/92	JLR
SDE2157100B0LD	WWC3*611	03/17/92	03/17/92	16.7		03/19/92	JLR
SDE2157100C0LD	WWC3*612	03/17/92	03/17/92	14.6		03/19/92	JLR
SDE2157200A00L	WWC3*613	03/17/92	03/17/92	17.6		03/19/92	JLR
SDE2157200B00L	WWC3*614	03/17/92	03/17/92	16.9		03/19/92	JLR
SDE2157200C00L	WWC3*615	03/17/92	03/17/92	16.4		03/19/92	JLR
SDE2153100A00L	WWC3*616	03/17/92	03/17/92	19.7		03/19/92	JLR
SDE2153100B00L	WWC3*617	03/17/92	03/17/92	20.0		03/19/92	JLR
SDE2153100C00L	WWC3*618	03/17/92	03/17/92	18.0		03/19/92	JLR
SDE2153100A0LD	WWC3*619	03/17/92	03/17/92	19.8		03/19/92	JLR
SDE2153100B0LD	WWC3*620	03/17/92	03/17/92	18.5		03/19/92	JLR
SDE2153100C0LD	WWC3*621	03/17/92	03/17/92	19.1		03/20/92	JLR
SDE2153200A00L	WWC3*622	03/17/92	03/17/92	17.6		03/20/92	JLR
SDE2153200B00L	WWC3*623	03/17/92	03/17/92	17.0		03/20/92	JLR
SDE2153200C00L	WWC3*624	03/17/92	03/17/92	16.2		03/20/92	JLR
SDE2262100A00L	WWC3*625	03/17/92	03/17/92	20.5		03/20/92	JLR
SDE2262100B00L	WWC3*626	03/17/92	03/17/92	19.4		03/20/92	JLR
SDE2262100C00L	WWC3*627	03/17/92	03/17/92	18.9		03/20/92	JLR
SDE2262200A00L	WWC3*628	03/17/92	03/17/92	15.9		03/20/92	JLR
SDE2262200B00L	WWC3*629	03/17/92	03/17/92	19.8		03/20/92	JLR
SDE2262200C00L	WWC3*630	03/17/92	03/17/92	18.6		03/20/92	JLR

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE2260100A00L	WWC3*631	03/17/92	03/17/92	20.1		03/20/92	JLR
SDE2260100B00L	WWC3*632	03/17/92	03/17/92	19.3		03/20/92	JLR
SDE2260100C00L	WWC3*633	03/17/92	03/17/92	19.4		03/20/92	JLR
SDE2260200A00L	WWC3*634	03/17/92	03/17/92	22.3		03/20/92	JLR
SDE2260200B00L	WWC3*635	03/17/92	03/17/92	22.1		03/20/92	JLR
SDE2260200C00L	WWC3*636	03/17/92	03/17/92	21.1		03/20/92	JLR
SDE2258100A00L	WWC3*637	03/17/92	03/17/92	21.2		03/20/92	JLR
SDE2258100B00L	WWC3*638	03/17/92	03/17/92	19.6		03/20/92	JLR
SDE2258100C00L	WWC3*639	03/17/92	03/17/92	18.9		03/20/92	JLR
SDE2258200A00L	WWC3*640	03/17/92	03/17/92	19.2		03/20/92	JLR
SDE2258200B00L	WWC3*641	03/17/92	03/17/92	19.7		03/20/92	JLR
SDE2258200C00L	WWC3*642	03/17/92	03/17/92	20.3		03/20/92	JLR
SDE2245100A00L	WWC3*643	03/17/92	03/17/92	17.0		03/20/92	JLR
SDE2245100B00L	WWC3*644	03/17/92	03/17/92	18.1		03/20/92	JLR
SDE2245100C00L	WWC3*645	03/17/92	03/17/92	17.4		03/20/92	JLR
SDE2245200A00L	WWC3*646	03/17/92	03/17/92	18.2		03/20/92	JLR
SDE2245200B00L	WWC3*647	03/17/92	03/17/92	18.1		03/20/92	JLR
SDE2245200C00L	WWC3*648	03/17/92	03/17/92	16.3		03/20/92	JLR
SDE2247100A00L	WWC3*649	03/17/92	03/17/92	19.1		03/20/92	JLR
SDE2247100B00L	WWC3*650	03/17/92	03/17/92	18.9		03/20/92	JLR
SDE2247100C00L	WWC3*651	03/17/92	03/17/92	19.2		03/20/92	JLR
SDE2247200A00L	WWC3*652	03/17/92	03/17/92	22.2		03/20/92	JLR
SDE2247200B00L	WWC3*653	03/17/92	03/17/92	16.9		03/20/92	JLR
SDE2247200C00L	WWC3*654	03/17/92	03/17/92	18.2		03/20/92	JLR
SDE2253100A00L	WWC3*655	03/17/92	03/17/92	20.7		03/20/92	JLR
SDE2253100B00L	WWC3*656	03/17/92	03/17/92	32.0		03/20/92	JLR
SDE2253100C00L	WWC3*657	03/17/92	03/17/92	19.3		03/20/92	JLR
SDE2253200A00L	WWC3*658	03/17/92	03/17/92	15.7		03/20/92	JLR
SDE2253200B00L	WWC3*659	03/17/92	03/17/92	16.1		03/20/92	JLR
SDE2253200C00L	WWC3*660	03/17/92	03/17/92	16.8		03/20/92	JLR
SED1642100A00L	WWC3*661	03/19/92	03/19/92	30.2		04/10/92	WHP
SED1642100B00L	WWC3*662	03/19/92	03/19/92	27.0		04/10/92	WHP
SED1642100C00L	WWC3*663	03/19/92	03/19/92	26.3		04/10/92	WHP
SED1642200A00L	WWC3*664	03/19/92	03/19/92	20.0		04/10/92	WHP
SED1642200B00L	WWC3*665	03/19/92	03/19/92	25.2		04/10/92	WHP
SED1642200C00L	WWC3*666	03/19/92	03/19/92	22.5		04/10/92	WHP
SED1700100A00L	WWC3*667	03/19/92	03/19/92	26.6		04/10/92	WHP
SED1700100B00L	WWC3*668	03/19/92	03/19/92	23.0		04/10/92	WHP
SED1700100C00L	WWC3*669	03/19/92	03/19/92	20.5		04/10/92	WHP
SED1700200A00L	WWC3*670	03/19/92	03/19/92	25.6		04/10/92	WHP
SED1700200B00L	WWC3*671	03/19/92	03/19/92	25.4		04/10/92	WHP
SED1700200C00L	WWC3*672	03/19/92	03/19/92	23.7		04/10/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SED1701100A00L	WWC3*673	03/19/92	03/19/92	23.7		04/10/92	WHP
SED1701100B00L	WWC3*674	03/19/92	03/19/92	22.2		04/10/92	WHP
SED1701100C00L	WWC3*675	03/19/92	03/19/92	22.5		04/10/92	WHP
SED1701200A00L	WWC3*676	03/19/92	03/19/92	20.7		04/10/92	WHP
SED1701200B00L	WWC3*677	03/19/92	03/19/92	21.3		04/10/92	WHP
SED1701200C00L	WWC3*678	03/19/92	03/19/92	25.9		04/10/92	WHP
SED1708100A00L	WWC3*679	03/19/92	03/19/92	22.8		04/10/92	WHP
SED1708100B00L	WWC3*680	03/19/92	03/19/92	21.6		04/10/92	WHP
SED1708100C00L	WWC3*681	03/19/92	03/19/92	21.5		04/10/92	WHP
SED1708200A00L	WWC3*682	03/19/92	03/19/92	22.8		04/10/92	WHP
SED1708200B00L	WWC3*683	03/19/92	03/19/92	23.3		04/10/92	WHP
SED1708200C00L	WWC3*684	03/19/92	03/19/92	22.3		04/10/92	WHP
SED1720100A00L	WWC3*685	03/19/92	03/19/92	24.6		04/10/92	WHP
SED1720100B00L	WWC3*686	03/19/92	03/19/92	22.3		04/10/92	WHP
SED1720100C00L	WWC3*687	03/19/92	03/19/92	22.8		04/10/92	WHP
SED1720200A00L	WWC3*688	03/19/92	03/19/92	24.4		04/10/92	WHP
SED1720200B00L	WWC3*689	03/19/92	03/19/92	23.6		04/10/92	WHP
SED1720200C00L	WWC3*690	03/19/92	03/19/92	20.8		04/10/92	WHP
SED1723100A00L	WWC3*691	03/19/92	03/19/92	23.0		04/10/92	WHP
SED1723100B00L	WWC3*692	03/19/92	03/19/92	23.3		04/10/92	WHP
SED1723100C00L	WWC3*693	03/19/92	03/19/92	20.9		04/10/92	WHP
SED1734100A00L	WWC3*694	03/19/92	03/19/92	23.9		04/10/92	WHP
SED1734100B00L	WWC3*695	03/19/92	03/19/92	20.1		04/10/92	WHP
SED1734100C00L	WWC3*696	03/19/92	03/19/92	20.9		04/10/92	WHP
SED1734200A00L	WWC3*697	03/19/92	03/19/92	26.1		04/10/92	WHP
SED1734200B00L	WWC3*698	03/19/92	03/19/92	21.6		04/10/92	WHP
SED1734200C00L	WWC3*699	03/19/92	03/19/92	19.6		04/10/92	WHP
SED2137100A00L	WWC3*700	03/20/92	03/20/92	21.6		04/10/92	WHP
SED2137100B00L	WWC3*701	03/20/92	03/20/92	18.3		04/10/92	WHP
SED2137100C00L	WWC3*702	03/20/92	03/20/92	16.3		04/10/92	WHP
SED2137200A00L	WWC3*703	03/20/92	03/20/92	21.6		04/10/92	WHP
SED2137200B00L	WWC3*704	03/20/92	03/20/92	19.0		04/10/92	WHP
SED2137200C00L	WWC3*705	03/20/92	03/20/92	19.0		04/10/92	WHP
SED2144100A00L	WWC3*706	03/20/92	03/20/92	21.0		04/10/92	WHP
SED2144100B00L	WWC3*707	03/20/92	03/20/92	18.4		04/10/92	WHP
SED2144100C00L	WWC3*708	03/20/92	03/20/92	15.3		04/10/92	WHP
SED2144200A00L	WWC3*709	03/20/92	03/20/92	23.1		04/10/92	WHP
SED2144200B00L	WWC3*710	03/20/92	03/20/92	21.4		04/10/92	WHP
SED2144200C00L	WWC3*711	03/20/92	03/20/92	19.2		04/10/92	WHP
SED2153100A00L	WWC3*712	03/20/92	03/20/92	16.0		04/10/92	WHP
SED2153100B00L	WWC3*713	03/20/92	03/20/92	15.8		04/10/92	WHP
SED2153100C00L	WWC3*714	03/20/92	03/20/92	13.4		04/10/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SED2153200A00L	WWC3*715	03/20/92	03/20/92	19.9		04/10/92	WHP
SED2153200B00L	WWC3*716	03/20/92	03/20/92	17.9		04/10/92	WHP
SED2153200C00L	WWC3*717	03/20/92	03/20/92	18.2		04/10/92	WHP
SWS2020100A00L	WWC3*718	03/20/92	03/20/92	22.6		04/10/92	WHP
SWS2020100B00L	WWC3*719	03/20/92	03/20/92	24.1		04/10/92	WHP
SWS2020100C00L	WWC3*720	03/20/92	03/20/92	22.6		04/10/92	WHP
SWS2034100A00L	WWC3*721	03/20/92	03/20/92	23.7		04/10/92	WHP
SWS2034100B00L	WWC3*722	03/20/92	03/20/92	19.2		04/10/92	WHP
SWS2034100C00L	WWC3*723	03/20/92	03/20/92	18.3		04/10/92	WHP
SWS2034200A00L	WWC3*724	03/20/92	03/20/92	20.5		04/10/92	WHP
SWS2034200B00L	WWC3*725	03/20/92	03/20/92	20.6		04/10/92	WHP
SWS2034200C00L	WWC3*726	03/20/92	03/20/92	21.7		04/10/92	WHP
SWS2026100A00L	WWC3*727	03/20/92	03/20/92	22.4		04/10/92	WHP
SWS2026100B00L	WWC3*728	03/20/92	03/20/92	18.3		04/10/92	WHP
SWS2026100C00L	WWC3*729	03/20/92	03/20/92	17.6		04/10/92	WHP
SWS2026200A00L	WWC3*730	03/20/92	03/20/92	21.8		04/10/92	WHP
SWS2026200B00L	WWC3*731	03/20/92	03/20/92	18.2		04/10/92	WHP
SWS2026200C00L	WWC3*732	03/20/92	03/20/92	19.3		04/10/92	WHP
SWS2024100A00L	WWC3*733	03/20/92	03/20/92	22.0		04/10/92	WHP
SWS2024100B00L	WWC3*734	03/20/92	03/20/92	18.8		04/10/92	WHP
SWS2024100C00L	WWC3*735	03/20/92	03/20/92	18.4		04/10/92	WHP
SOL1650100A00L	WWC3*736	03/20/92	03/20/92	22.2		04/10/92	WHP
SOL1650100B00L	WWC3*737	03/20/92	03/20/92	18.2		04/10/92	WHP
SOL1650100C00L	WWC3*738	03/20/92	03/20/92	18.2		04/10/92	WHP
SOL1650200A00L	WWC3*739	03/20/92	03/20/92	19.8		04/10/92	WHP
SOL1650200B00L	WWC3*740	03/20/92	03/20/92	19.6		04/10/92	WHP
SOL1650200C00L	WWC3*741	03/20/92	03/20/92	19.9		04/10/92	WHP
SOL1635100A00L	WWC3*742	03/20/92	03/20/92	23.7		04/10/92	WHP
SOL1635100B00L	WWC3*743	03/20/92	03/20/92	22.0		04/10/92	WHP
SOL1635100C00L	WWC3*744	03/20/92	03/20/92	19.6		04/10/92	WHP
SOL1635100A0LD	WWC3*745	03/20/92	03/20/92	23.2		04/10/92	WHP
SOL1635100B0LD	WWC3*746	03/20/92	03/20/92	22.1		04/10/92	WHP
SOL1635100C0LD	WWC3*747	03/20/92	03/20/92	19.6		04/10/92	WHP
SOL1631100A00L	WWC3*748	03/20/92	03/20/92	23.8		04/10/92	WHP
SOL1631100B00L	WWC3*749	03/20/92	03/20/92	22.5		04/10/92	WHP
SOL1631100C00L	WWC3*750	03/20/92	03/20/92	23.3		04/10/92	WHP
SOL1631100A0LD	WWC3*751	03/20/92	03/20/92	23.8		04/10/92	WHP
SOL1631100B0LD	WWC3*752	03/20/92	03/20/92	22.0		04/10/92	WHP
SOL1631100C0LD	WWC3*753	03/20/92	03/20/92	23.2		04/10/92	WHP
SOL1633100A00L	WWC3*754	03/20/92	03/20/92	20.2		04/10/92	WHP
SOL1633100B00L	WWC3*755	03/20/92	03/20/92	19.1		04/10/92	WHP
SOL1633100C00L	WWC3*756	03/20/92	03/20/92	17.1		04/10/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SOL1633200A00L	WWC3*757	03/20/92	03/20/92	23.8		04/10/92	WHP
SOL1633200B00L	WWC3*758	03/20/92	03/20/92	20.2		04/10/92	WHP
SOL1633200C00L	WWC3*759	03/20/92	03/20/92	19.8		04/10/92	WHP
SOL1635200A00L	WWC3*760	03/20/92	03/20/92	24.8		04/10/92	WHP
SOL1635200B00L	WWC3*761	03/20/92	03/20/92	21.6		04/10/92	WHP
SOL1635200C00L	WWC3*762	03/20/92	03/20/92	20.7		04/10/92	WHP
SWS2024200A00L	WWC3*763	03/20/92	03/20/92	20.8		04/10/92	WHP
SWS2024200B00L	WWC3*764	03/20/92	03/20/92	18.5		04/10/92	WHP
SWS2024200C00L	WWC3*765	03/20/92	03/20/92	20.0		04/10/92	WHP
SLE2027100A00L	WWC3*766	03/23/92	03/23/92	25.7		04/10/92	WHP
SLE2027100B00L	WWC3*767	03/23/92	03/23/92	21.8		04/10/92	WHP
SLE2027100C00L	WWC3*768	03/23/92	03/23/92	20.3		04/10/92	WHP
SLE2027200A00L	WWC3*769	03/23/92	03/23/92	25.6		04/10/92	WHP
SLE2027200B00L	WWC3*770	03/23/92	03/23/92	21.6		04/10/92	WHP
SLE2027200C00L	WWC3*771	03/23/92	03/23/92	21.0		04/10/92	WHP
SLE2123100A00L	WWC3*772	03/23/92	03/23/92	19.0		04/10/92	WHP
SLE2123100B00L	WWC3*773	03/23/92	03/23/92	19.1		04/10/92	WHP
SLE2123100C00L	WWC3*774	03/23/92	03/23/92	19.8		04/10/92	WHP
SLE2123200A00L	WWC3*775	03/23/92	03/23/92	15.9		04/10/92	WHP
SLE2123200B00L	WWC3*776	03/23/92	03/23/92	15.2		04/10/92	WHP
SLE2123200C00L	WWC3*777	03/23/92	03/23/92	21.6		04/10/92	WHP
SLE2127100A00L	WWC3*778	03/23/92	03/23/92	20.8		04/10/92	WHP
SLE2127100B00L	WWC3*779	03/23/92	03/23/92	19.9		04/10/92	WHP
SLE2127100C00L	WWC3*780	03/23/92	03/23/92	19.4		04/10/92	WHP
SLE2127200A00L	WWC3*781	03/23/92	03/23/92	24.4		04/10/92	WHP
SLE2127200B00L	WWC3*782	03/23/92	03/23/92	18.9		04/10/92	WHP
SLE2127200C00L	WWC3*783	03/23/92	03/23/92	20.7		04/10/92	WHP
SLE2149100A00L	WWC3*784	03/23/92	03/23/92	21.6		04/10/92	WHP
SLE2149100B00L	WWC3*785	03/23/92	03/23/92	20.7		04/10/92	WHP
SLE2149100C00L	WWC3*786	03/23/92	03/23/92	17.6		04/10/92	WHP
SLE2149200A00L	WWC3*787	03/23/92	03/23/92	17.4		04/10/92	WHP
SLE2149200B00L	WWC3*788	03/23/92	03/23/92	17.3		04/10/92	WHP
SLE2149200C00L	WWC3*789	03/23/92	03/23/92	16.5		04/10/92	WHP
SLE2147100A00L	WWC3*790	03/23/92	03/23/92	21.8		04/10/92	WHP
SLE2147100B00L	WWC3*791	03/23/92	03/23/92	20.1		04/10/92	WHP
SLE2147100C00L	WWC3*792	03/23/92	03/23/92	19.5		04/10/92	WHP
SLE2147200A00L	WWC3*793	03/23/92	03/23/92	21.1		04/10/92	WHP
SLE2147200B00L	WWC3*794	03/23/92	03/23/92	20.6		04/10/92	WHP
SLE2147200C00L	WWC3*795	03/23/92	03/23/92	19.0		04/10/92	WHP
SLE2145100A00L	WWC3*796	03/23/92	03/23/92	25.6		04/10/92	WHP
SLE2145100B00L	WWC3*797	03/23/92	03/23/92	20.2		04/10/92	WHP
SLE2145100C00L	WWC3*798	03/23/92	03/23/92	18.1		04/10/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SLE2145200A00L	WWC3*799	03/23/92	03/23/92	23.6		04/10/92	WHP
SLE2145200B00L	WWC3*800	03/23/92	03/23/92	19.0		04/10/92	WHP
SLE2145200C00L	WWC3*801	03/23/92	03/23/92	19.3		04/10/92	WHP
SST2158100A00L	WWC3*802	03/23/92	03/23/92	24.6		04/10/92	WHP
SST2158100B00L	WWC3*803	03/23/92	03/23/92	25.8		04/10/92	WHP
SST2158100C00L	WWC3*804	03/23/92	03/23/92	26.8		04/10/92	WHP
SST2158200A00L	WWC3*805	03/23/92	03/23/92	26.6		04/10/92	WHP
SST2158200B00L	WWC3*806	03/23/92	03/23/92	26.7		04/10/92	WHP
SST2158200C00L	WWC3*807	03/23/92	03/23/92	26.7		04/10/92	WHP
SST2132100A00L	WWC3*808	03/23/92	03/23/92	22.8		04/10/92	WHP
SST2132100B00L	WWC3*809	03/23/92	03/23/92	21.4		04/10/92	WHP
SST2132100C00L	WWC3*810	03/23/92	03/23/92	21.0		04/10/92	WHP
SST2132200A00L	WWC3*811	03/23/92	03/23/92	23.5		04/10/92	WHP
SST2132200B00L	WWC3*812	03/23/92	03/23/92	24.0		04/10/92	WHP
SST2132200C00L	WWC3*813	03/23/92	03/23/92	25.4		04/10/92	WHP
SST2135100A00L	WWC3*814	03/23/92	03/23/92	20.6		04/10/92	WH
SST2135100B00L	WWC3*815	03/23/92	03/23/92	17.9		04/10/92	WHP
SST2135100C00L	WWC3*816	03/23/92	03/23/92	22.3		04/10/92	WHP
SST2135200A00L	WWC3*817	03/23/92	03/23/92	23.2		04/10/92	WHP
SST2135200B00L	WWC3*818	03/23/92	03/23/92	22.6		04/10/92	WHP
SST2135200C00L	WWC3*819	03/23/92	03/23/92	21.1		04/10/92	WHP
SST2148100A00L	WWC3*820	03/23/92	03/23/92	25.6		04/10/92	WHP
SST2148100B00L	WWC3*821	03/23/92	03/23/92	24.5		04/10/92	WHP
SST2148100C00L	WWC3*822	03/23/92	03/23/92	26.2		04/10/92	WHP
SST2101100A00L	WWC3*823	03/23/92	03/23/92	20.6		04/10/92	WHP
SST2101100B00L	WWC3*824	03/23/92	03/23/92	19.9		04/10/92	WHP
SST2101100C00L	WWC3*825	03/23/92	03/23/92	19.1		04/10/92	WHP
SST2101200A00L	WWC3*826	03/23/92	03/23/92	21.1		04/10/92	WHP
SST2101200B00L	WWC3*827	03/23/92	03/23/92	19.6		04/10/92	WHP
SST2101200C00L	WWC3*828	03/23/92	03/23/92	17.1		04/10/92	WHP
SST2118100A00L	WWC3*829	03/23/92	03/23/92	23.4		04/10/92	WHP
SST2118100B00L	WWC3*830	03/23/92	03/23/92	22.1		04/10/92	WHP
SST2118100C00L	WWC3*831	03/23/92	03/23/92	21.2		04/10/92	WHP
SST2118200A00L	WWC3*832	03/23/92	03/23/92	15.7		04/10/92	WHP
SST2118200B00L	WWC3*833	03/23/92	03/23/92	20.8		04/10/92	WHP
SST2118200C00L	WWC3*834	03/23/92	03/23/92	16.2		04/10/92	WHP
SST2119100A00L	WWC3*835	03/23/92	03/23/92	24.4		04/10/92	WHP
SST2119100B00L	WWC3*836	03/23/92	03/23/92	22.5		04/10/92	WHP
SST2119100C00L	WWC3*837	03/23/92	03/23/92	21.0		04/10/92	WHP
SST2119200A00L	WWC3*838	03/23/92	03/23/92	23.5		04/10/92	WHP
SST2119200B00L	WWC3*839	03/23/92	03/23/92	22.4		04/10/92	WHP
SST2119200C00L	WWC3*840	03/23/92	03/24/92	20.9		04/10/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SNI0931100A00L	WWC3*841	03/24/92	03/24/92	20.2		04/14/92	WHP
SNI0931100B00L	WWC3*842	03/24/92	03/24/92	21.0		04/14/92	WHP
SNI0931100C00L	WWC3*843	03/24/92	03/24/92	21.5		04/14/92	WHP
SNI0929100A00L	WWC3*844	03/24/92	03/24/92	24.0		04/14/92	WHP
SNI0929100B00L	WWC3*845	03/24/92	03/24/92	22.5		04/14/92	WHP
SNI0929100C00L	WWC3*846	03/24/92	03/24/92	20.3		04/14/92	WHP
SWA1751100A00L	WWC3*847	03/24/92	03/24/92	20.6		04/14/92	WHP
SWA1751100B00L	WWC3*848	03/24/92	03/24/92	19.5		04/14/92	WHP
SWA1751100C00L	WWC3*849	03/24/92	03/24/92	19.5		04/14/92	WHP
SWA1751200A00L	WWC3*850	03/24/92	03/24/92	17.5		04/14/92	WHP
SWA1751200B00L	WWC3*851	03/24/92	03/24/92	15.7		04/14/92	WHP
SWA1751200C00L	WWC3*852	03/24/92	03/24/92	18.1		04/14/92	WHP
SWA1745100A00L	WWC3*853	03/24/92	03/24/92	20.7		04/14/92	WHP
SWA1745100B00L	WWC3*854	03/24/92	03/24/92	16.6		04/14/92	WHP
SWA1745100C00L	WWC3*855	03/24/92	03/24/92	17.5		04/14/92	WHP
SWA1745100A0LD	WWC3*856	03/24/92	03/24/92	21.1		04/14/92	WHP
SWA1745100B0LD	WWC3*857	03/24/92	03/24/92	17.4		04/14/92	WHP
SWA1745100C0LD	WWC3*858	03/24/92	03/24/92	16.8		04/14/92	WHP
SNI0910100A00L	WWC3*859	03/24/92	03/24/92	18.2		04/14/92	WHP
SNI0910100B00L	WWC3*860	03/24/92	03/24/92	17.7		04/14/92	WHP
SNI0910100C00L	WWC3*861	03/24/92	03/24/92	17.3		04/14/92	WHP
SNI0910200A00L	WWC3*862	03/24/92	03/24/92	18.3		04/14/92	WHP
SNI0910200B00L	WWC3*863	03/24/92	03/24/92	18.6		04/14/92	WHP
SNI0910200C00L	WWC3*864	03/24/92	03/24/92	16.5		04/14/92	WHP
SWA1713100A00L	WWC3*865	03/24/92	03/24/92	21.0		04/14/92	WHP
SWA1713100B00L	WWC3*866	03/24/92	03/24/92	16.9		04/14/92	WHP
SWA1713100C00L	WWC3*867	03/24/92	03/24/92	16.6		04/14/92	WHP
SWA1713200A00L	WWC3*868	03/24/92	03/24/92	24.4		04/14/92	WHP
SWA1713200B00L	WWC3*869	03/24/92	03/24/92	20.0		04/14/92	WHP
SWA1713200C00L	WWC3*870	03/24/92	03/24/92	17.8		04/14/92	WHP
SWA1711100A00L	WWC3*871	03/24/92	03/24/92	20.6		04/14/92	WHP
SWA1711100B00L	WWC3*872	03/24/92	03/24/92	15.5		04/14/92	WHP
SWA1711100C00L	WWC3*873	03/24/92	03/24/92	16.0		04/14/92	WHP
SWA1711200A00L	WWC3*874	03/24/92	03/24/92	29.3		04/14/92	WHP
SWA1711200B00L	WWC3*875	03/24/92	03/24/92	22.4		04/14/92	WHP
SWA1711200C00L	WWC3*876	03/24/92	03/24/92	21.6		04/14/92	WHP
SOL1724200A00L	WWC3*877	03/24/92	03/24/92	20.8		04/14/92	WHP
SOL1724200B00L	WWC3*878	03/24/92	03/24/92	16.5		04/14/92	WHP
SOL1724200C00L	WWC3*879	03/24/92	03/24/92	16.9		04/14/92	WHP
SCH1753100A00L	WWC3*880	03/24/92	03/24/92	19.8		04/14/92	WHP
SCH1753100B00L	WWC3*881	03/24/92	03/24/92	18.0		04/14/92	WHP
SCH1753100C00L	WWC3*882	03/24/92	03/24/92	16.5		04/14/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCH1753200A00L	WWC3*883	03/24/92	03/24/92	16.7		04/14/92	WHP
SCH1753200B00L	WWC3*884	03/24/92	03/24/92	16.2		04/14/92	WHP
SCH1753200C00L	WWC3*885	03/24/92	03/24/92	16.3		04/14/92	WHP
SCH1754100A00L	WWC3*886	03/24/92	03/24/92	22.0		04/14/92	WHP
SCH1754100B00L	WWC3*887	03/24/92	03/24/92	17.6		04/14/92	WHP
SCH1754100C00L	WWC3*888	03/24/92	03/24/92	17.3		04/14/92	WHP
SCH1754200A00L	WWC3*889	03/24/92	03/24/92	28.1		04/14/92	WHP
SCH1754200B00L	WWC3*890	03/24/92	03/24/92	26.4		04/14/92	WHP
SCH1754200C00L	WWC3*891	03/24/92	03/24/92	21.1		04/14/92	WHP
SCH1751100A00L	WWC3*892	03/24/92	03/24/92	15.2		04/14/92	WHP
SCH1751100B00L	WWC3*893	03/24/92	03/24/92	14.4		04/14/92	WHP
SCH1751100C00L	WWC3*894	03/24/92	03/24/92	13.6		04/14/92	WHP
SCH1751200A00L	WWC3*895	03/24/92	03/24/92	20.7		04/14/92	WHP
SCH1751200B00L	WWC3*896	03/24/92	03/24/92	20.7		04/14/92	WHP
SCH1751200C00L	WWC3*897	03/24/92	03/24/92	19.1		04/14/92	WHP
SCH1716100A00L	WWC3*898	03/24/92	03/24/92	18.3		04/14/92	WHP
SCH1716100B00L	WWC3*899	03/24/92	03/24/92	17.9		04/14/92	WHP
SCH1716100C00L	WWC3*900	03/24/92	03/24/92	19.5		04/14/92	WHP
SCH1716200A00L	WWC3*901	03/24/92	03/24/92	19.8		04/14/92	WHP
SCH1716200B00L	WWC3*902	03/24/92	03/24/92	20.6		04/14/92	WHP
SCH1716200C00L	WWC3*903	03/24/92	03/24/92	20.8		04/14/92	WHP
SCH1712100A00L	WWC3*904	03/24/92	03/24/92	20.6		04/14/92	WHP
SCH1712100B00L	WWC3*905	03/24/92	03/24/92	20.8		04/14/92	WHP
SCH1712100C00L	WWC3*906	03/24/92	03/24/92	28.1		04/14/92	WHP
SCH1712100A0LD	WWC3*907	03/24/92	03/24/92	23.4		04/14/92	WHP
SCH1712100B0LD	WWC3*908	03/24/92	03/24/92	19.8		04/14/92	WHP
SCH1712100C0LD	WWC3*909	03/24/92	03/24/92	23.4		04/14/92	WHP
SNI0822100A00L	WWC3*910	03/25/92	03/25/92	19.6		04/14/92	WHP
SNI0822100B00L	WWC3*911	03/25/92	03/25/92	16.1		04/14/92	WHP
SNI0822100C00L	WWC3*912	03/25/92	03/25/92	14.0		04/14/92	WHP
SNI0822200A00L	WWC3*913	03/25/92	03/25/92	20.2		04/14/92	WHP
SNI0822200B00L	WWC3*914	03/25/92	03/25/92	15.9		04/14/92	WHP
SNI0822200C00L	WWC3*915	03/25/92	03/25/92	18.3		04/14/92	WHP
SNI0828100A00L	WWC3*916	03/25/92	03/25/92	20.5		04/14/92	WHP
SNI0828100B00L	WWC3*917	03/25/92	03/25/92	16.9		04/14/92	WHP
SNI0828100C00L	WWC3*918	03/25/92	03/25/92	19.4		04/14/92	WHP
SNI0828200A00L	WWC3*919	03/25/92	03/25/92	17.1		04/14/92	WHP
SNI0828200B00L	WWC3*920	03/25/92	03/25/92	15.5		04/14/92	WHP
SNI0828200C00L	WWC3*921	03/25/92	03/25/92	15.0		04/14/92	WHP
SMP1709100A00L	WWC3*922	03/25/92	03/25/92	20.4		04/14/92	WHP
SMP1709100B00L	WWC3*923	03/25/92	03/25/92	18.3		04/14/92	WHP
SMP1709100C00L	WWC3*924	03/25/92	03/25/92	20.4		04/14/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1722100A00L	WWC3*925	03/25/92	03/25/92	19.7		04/14/92	WHP
SMP1722100B00L	WWC3*926	03/25/92	03/25/92	17.1		04/14/92	WHP
SMP1722100C00L	WWC3*927	03/25/92	03/25/92	19.4		04/14/92	WHP
SMP1722200A00L	WWC3*928	03/25/92	03/25/92	26.7		04/14/92	WHP
SMP1722200B00L	WWC3*929	03/25/92	03/25/92	21.5		04/14/92	WHP
SMP1722200C00L	WWC3*930	03/25/92	03/25/92	20.8		04/14/92	WHP
SMP1731100A00L	WWC3*931	03/25/92	03/25/92	28.3		04/14/92	WHP
SMP1731100B00L	WWC3*932	03/25/92	03/25/92	20.9		04/14/92	WHP
SMP1731100C00L	WWC3*933	03/25/92	03/25/92	20.6		04/14/92	WHP
SMP1731200A00L	WWC3*934	03/25/92	03/25/92	25.5		04/14/92	WHP
SMP1731200B00L	WWC3*935	03/25/92	03/25/92	23.8		04/14/92	WHP
SMP1731200C00L	WWC3*936	03/25/92	03/25/92	22.4		04/14/92	WHP
SOL1739100A00L	WWC3*937	03/25/92	03/25/92	24.3		04/14/92	WHP
SOL1739100B00L	WWC3*938	03/25/92	03/25/92	20.2		04/14/92	WHP
SOL1739100C00L	WWC3*939	03/25/92	03/25/92	19.5		04/14/92	WHP
SOL1739200A00L	WWC3*940	03/25/92	03/25/92	27.5		04/14/92	WHP
SOL1739200B00L	WWC3*941	03/25/92	03/25/92	22.8		04/14/92	WHP
SOL1739200C00L	WWC3*942	03/25/92	03/25/92	21.4		04/14/92	WHP
SOL1735100A00L	WWC3*943	03/25/92	03/25/92	17.8		04/14/92	WHP
SOL1735100B00L	WWC3*944	03/25/92	03/25/92	20.0		04/14/92	WHP
SOL1735100C00L	WWC3*945	03/25/92	03/25/92	20.0		04/14/92	WHP
SOL1735200A00L	WWC3*946	03/25/92	03/25/92	26.8		04/14/92	WHP
SOL1735200B00L	WWC3*947	03/25/92	03/25/92	23.0		04/14/92	WHP
SOL1735200C00L	WWC3*948	03/25/92	03/25/92	21.6		04/14/92	WHP
SOL1732100A00L	WWC3*949	03/25/92	03/25/92	20.6		04/14/92	WHP
SOL1732100B00L	WWC3*950	03/25/92	03/25/92	18.3		04/14/92	WHP
SOL1732100C00L	WWC3*951	03/25/92	03/25/92	20.0		04/14/92	WHP
SOL1732200A00L	WWC3*952	03/25/92	03/25/92	19.3		04/14/92	WHP
SOL1732200B00L	WWC3*953	03/25/92	03/25/92	17.4		04/14/92	WHP
SOL1732200C00L	WWC3*954	03/25/92	03/25/92	17.8		04/14/92	WHP
SSP1618100A00L	WWC3*955	03/25/92	03/25/92	20.9		04/14/92	WHP
SSP1618100B00L	WWC3*956	03/25/92	03/25/92	17.3		04/14/92	WHP
SSP1618100C00L	WWC3*957	03/25/92	03/25/92	19.3		04/14/92	WHP
SSP1618200A00L	WWC3*958	03/25/92	03/25/92	21.5		04/14/92	WHP
SSP1618200B00L	WWC3*959	03/25/92	03/25/92	17.3		04/14/92	WHP
SSP1618200C00L	WWC3*960	03/25/92	03/25/92	17.5		04/14/92	WHP
SSP1642100A00L	WWC3*961	03/25/92	03/25/92	22.9		04/14/92	WHP
SSP1642100B00L	WWC3*962	03/25/92	03/25/92	16.8		04/14/92	WHP
SSP1642100C00L	WWC3*963	03/25/92	03/25/92	20.2		04/14/92	WHP
SSP1642200A00L	WWC3*964	03/25/92	03/25/92	22.3		04/14/92	WHP
SSP1642200B00L	WWC3*965	03/25/92	03/25/92	20.3		04/14/92	WHP
SSP1642200C00L	WWC3*966	03/25/92	03/25/92	21.4		04/14/92	WHP

Environmental
Science &
Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SSP1734100A00L	WWC3*967	03/25/92	03/25/92	26.7		04/14/92	WHP
SSP1734100B00L	WWC3*968	03/25/92	03/25/92	22.9		04/14/92	WHP
SSP1734100C00L	WWC3*969	03/25/92	03/25/92	23.4		04/14/92	WHP
SSP1734200A00L	WWC3*970	03/25/92	03/25/92	20.6		04/14/92	WHP
SSP1734200B00L	WWC3*971	03/25/92	03/25/92	18.2		04/14/92	WHP
SSP1734200C00L	WWC3*972	03/25/92	03/25/92	12.8		04/14/92	WHP
SSP1750100A00L	WWC3*973	03/25/92	03/25/92	23.6		04/14/92	WHP
SSP1750100B00L	WWC3*974	03/25/92	03/25/92	22.0		04/14/92	WHP
SSP1750100C00L	WWC3*975	03/25/92	03/25/92	22.0		04/14/92	WHP
SSP1750200A00L	WWC3*976	03/25/92	03/25/92	22.2		04/14/92	WHP
SSP1750200B00L	WWC3*977	03/25/92	03/25/92	23.8		04/14/92	WHP
SSP1750200C00L	WWC3*978	03/25/92	03/25/92	23.7		04/14/92	WHP

LEAD ANALYSIS

Pages 25 - 48

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1619100A00L	WWC3*1	03/03/92	03/03/92	3340	D	60.2	03/10/92	05/11/92	PW
SDE1619100B00L	WWC3*2	03/03/92	03/03/92	1410		5.8	03/10/92	03/18/92	PW
SDE1619100C00L	WWC3*3	03/03/92	03/03/92	917		6.1	03/10/92	03/18/92	PW
SDE1619200A00L	WWC3*4	03/03/92	03/03/92	2700	D	58.5	03/10/92	05/11/92	PW
SDE1619200B00L	WWC3*5	03/03/92	03/03/92	774		5.8	03/10/92	03/18/92	PW
SDE1619200C00L	WWC3*6	03/03/92	03/03/92	626		5.9	03/10/92	03/18/92	PW
SDE1628100A00L	WWC3*7	03/03/92	03/03/92	1620		5.9	03/10/92	03/18/92	PW
SDE1628100A0LD	WWC3*8	03/03/92	03/03/92	1730		6.0	03/10/92	03/18/92	PW
SDE1628100B00L	WWC3*9	03/03/92	03/03/92	722		5.7	03/10/92	03/18/92	PW
SDE1628100B0LD	WWC3*10	03/03/92	03/03/92	680		5.8	03/10/92	03/18/92	PW
SDE1628100C00L	WWC3*11	03/03/92	03/03/92	278		5.7	03/10/92	03/18/92	PW
SDE1628100C0LD	WWC3*12	03/03/92	03/03/92	280		5.5	03/10/92	03/18/92	PW
SDE1628200A00L	WWC3*13	03/03/92	03/03/92	1250		6.2	03/10/92	03/18/92	PW
SDE1628200B00L	WWC3*14	03/03/92	03/03/92	833		6.3	03/10/92	03/18/92	PW
SDE1628200C00L	WWC3*15	03/03/92	03/03/92	107		6.4	03/10/92	03/18/92	PW
SDE1636100A00L	WWC3*16	03/03/92	03/03/92	1320		6.0	03/10/92	03/18/92	PW
SDE1636100B00L	WWC3*17	03/03/92	03/03/92	881		5.8	03/10/92	03/18/92	PW
SDE1636100C00L	WWC3*18	03/03/92	03/03/92	566		5.5	03/10/92	03/18/92	PW
SDE1636200A00L	WWC3*19	03/03/92	03/03/92	1350		6.0	03/10/92	03/18/92	PW
SDE1636200B00L	WWC3*20	03/03/92	03/03/92	1090	J	5.8	03/10/92	03/18/92	PW
SDE1636200C00L	WWC3*21	03/03/92	03/03/92	584		5.8	03/10/92	03/18/92	PW
SDE1638100A00L	WWC3*22	03/03/92	03/03/92	1300		5.8	03/10/92	03/18/92	PW
SDE1638100B00L	WWC3*23	03/03/92	03/03/92	819		5.7	03/10/92	03/18/92	PW
SDE1638100C00L	WWC3*24	03/03/92	03/03/92	256		5.7	03/10/92	03/18/92	PW
SDE1638200A00L	WWC3*25	03/03/92	03/03/92	7240	D	59.1	03/11/92	05/11/92	PW
SDE1638200B00L	WWC3*26	03/03/92	03/03/92	1040		6.0	03/10/92	03/18/92	PW
SDE1638200C00L	WWC3*27	03/03/92	03/03/92	516		6.5	03/10/92	03/18/92	PW
SDE1637100A00L	WWC3*28	03/03/92	03/03/92	1850		5.7	03/10/92	03/18/92	PW
SDE1637100A0LD	WWC3*29	03/03/92	03/03/92	1830		6.0	03/10/92	03/18/92	PW
SDE1637100B00L	WWC3*30	03/03/92	03/03/92	272		6.0	03/10/92	03/18/92	PW
SDE1637100B0LD	WWC3*31	03/03/92	03/03/92	328		6.0	03/10/92	03/18/92	PW
SDE1637100C00L	WWC3*32	03/03/92	03/03/92	526		5.6	03/10/92	03/18/92	PW
SDE1637100C0LD	WWC3*33	03/03/92	03/03/92	613		5.5	03/10/92	03/18/92	PW
SDE1637200A00L	WWC3*34	03/03/92	03/03/92	485		6.1	03/10/92	03/18/92	PW
SDE1637200B00L	WWC3*35	03/03/92	03/03/92	378		6.0	03/10/92	03/18/92	PW
SDE1637200C00L	WWC3*36	03/03/92	03/03/92	338		5.7	03/10/92	03/18/92	PW
SDE1715100A00L	WWC3*37	03/03/92	03/03/92	1270		6.1	03/10/92	03/18/92	PW
SDE1715100B00L	WWC3*38	03/03/92	03/03/92	1010		6.3	03/10/92	03/18/92	PW
SDE1715100C00L	WWC3*39	03/03/92	03/03/92	203		6.2	03/10/92	03/18/92	PW
SDE1715200A00L	WWC3*40	03/03/92	03/03/92	2130	J	6.1	03/10/92	03/18/92	PW
SDE1715200B00L	WWC3*41	03/03/92	03/03/92	1150		5.6	03/10/92	03/18/92	PW
SDE1715200C00L	WWC3*42	03/03/92	03/03/92	766		5.8	03/10/92	03/18/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE1725100A00L	WWC3*43	03/03/92	03/03/92	1720	6.2	03/10/92	03/18/92	PW
SDE1725100A0LD	WWC3*44	03/03/92	03/03/92	1810	6.3	03/10/92	03/18/92	PW
SDE1725100B00L	WWC3*45	03/03/92	03/03/92	1230	6.5	03/10/92	03/18/92	PW
SDE1725100B0LD	WWC3*46	03/03/92	03/03/92	1410	6.3	03/10/92	03/18/92	PW
SDE1725100C00L	WWC3*47	03/03/92	03/03/92	1220	6.3	03/10/92	03/18/92	PW
SDE1725100C0LD	WWC3*48	03/03/92	03/03/92	771	6.0	03/10/92	03/18/92	PW
SDE1725200A00L	WWC3*49	03/03/92	03/03/92	1550	6.5	03/10/92	03/18/92	PW
SDE1725200B00L	WWC3*50	03/03/92	03/03/92	1870	6.4	03/10/92	03/18/92	PW
SDE1725200C00L	WWC3*51	03/03/92	03/03/92	314	6.9	03/10/92	03/18/92	PW
SDE1726100A00L	WWC3*52	03/03/92	03/03/92	1440	6.0	03/10/92	03/18/92	PW
SDE1726100B00L	WWC3*53	03/03/92	03/03/92	556	5.7	03/10/92	03/18/92	PW
SDE1726100C00L	WWC3*54	03/03/92	03/03/92	197	6.3	03/10/92	03/18/92	PW
SDE1726200A00L	WWC3*55	03/03/92	03/03/92	1480	6.1	03/10/92	03/18/92	PW
SDE1726200B00L	WWC3*56	03/03/92	03/03/92	424	6.2	03/10/92	03/18/92	PW
SDE1726200C00L	WWC3*57	03/03/92	03/03/92	441	5.8	03/10/92	03/18/92	PW
SDE1737100A00L	WWC3*58	03/03/92	03/03/92	1960	6.0	03/10/92	03/18/92	PW
SDE1737100A0LD	WWC3*59	03/03/92	03/03/92	2230	5.8	03/10/92	03/18/92	PW
SDE1737100B00L	WWC3*60	03/03/92	03/03/92	3530 D	58.9	03/11/92	05/11/92	PW
SDE1737100B0LD	WWC3*61	03/03/92	03/03/92	1520	5.9	03/10/92	03/18/92	PW
SDE1737100C00L	WWC3*62	03/03/92	03/03/92	830	6.1	03/10/92	03/18/92	PW
SDE1737100C0LD	WWC3*63	03/03/92	03/03/92	698	5.9	03/10/92	03/18/92	PW
SDE1737200A00L	WWC3*64	03/03/92	03/03/92	1120	5.8	03/10/92	03/18/92	PW
SDE1737200B00L	WWC3*65	03/03/92	03/03/92	1600	6.0	03/10/92	03/18/92	PW
SDE1737200C00L	WWC3*66	03/03/92	03/03/92	707	6.1	03/10/92	03/18/92	PW
SDE2137100A00L	WWC3*67	03/03/92	03/03/92	1420	6.1	03/10/92	03/18/92	PW
SDE2137100B00L	WWC3*68	03/03/92	03/03/92	978	5.8	03/10/92	03/18/92	PW
SDE2137100C00L	WWC3*69	03/03/92	03/03/92	974	5.9	03/10/92	03/18/92	PW
SAD2100100A00L	WWC3*70	03/04/92	03/04/92	586	5.8	03/10/92	03/18/92	PW
SAD2100100B00L	WWC3*71	03/04/92	03/04/92	436	5.7	03/10/92	03/18/92	PW
SAD2100100C00L	WWC3*72	03/04/92	03/04/92	236	5.7	03/10/92	03/18/92	PW
SAD2100200A00L	WWC3*73	03/04/92	03/04/92	872	5.6	03/10/92	03/18/92	PW
SAD2100200B00L	WWC3*74	03/04/92	03/04/92	882	5.6	03/10/92	03/18/92	PW
SAD2100200C00L	WWC3*75	03/04/92	03/04/92	843	5.8	03/10/92	03/18/92	PW
SAD2128100A00L	WWC3*76	03/04/92	03/04/92	453	5.7	03/10/92	03/18/92	PW
SAD2128100B00L	WWC3*77	03/04/92	03/04/92	411	5.9	03/10/92	03/18/92	PW
SAD2128100C00L	WWC3*78	03/04/92	03/04/92	316	5.8	03/10/92	03/18/92	PW
SAD2128200A00L	WWC3*79	03/04/92	03/04/92	264	5.5	03/10/92	03/18/92	PW
SAD2128200B00L	WWC3*80	03/04/92	03/04/92	239	5.7	03/10/92	03/18/92	PW
SAD2128200C00L	WWC3*81	03/04/92	03/04/92	145	5.8	03/13/92	03/19/92	PW
SAD2148100A00L	WWC3*82	03/04/92	03/04/92	529	5.8	03/13/92	03/19/92	PW
SAD2148100B00L	WWC3*83	03/04/92	03/04/92	269	5.5	03/13/92	03/19/92	PW
SAD2148100C00L	WWC3*84	03/04/92	03/04/92	67.7	5.4	03/13/92	03/19/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SAD2148200A00L	WWC3*85	03/04/92	03/04/92	1460	5.8	03/13/92	03/19/92	PW
SAD2148200B00L	WWC3*86	03/04/92	03/04/92	1250	5.9	03/13/92	03/19/92	PW
SAD2148200C00L	WWC3*87	03/04/92	03/04/92	1290	5.9	03/13/92	03/19/92	PW
SAD2140100A00L	WWC3*88	03/04/92	03/04/92	408	5.8	03/13/92	03/19/92	PW
SAD2140100B00L	WWC3*89	03/04/92	03/04/92	413	5.8	03/13/92	03/19/92	PW
SAD2140100C00L	WWC3*90	03/04/92	03/04/92	324	5.4	03/13/92	03/19/92	PW
SAD2140200A00L	WWC3*91	03/04/92	03/04/92	102	5.7	03/13/92	03/19/92	PW
SAD2140200B00L	WWC3*92	03/04/92	03/04/92	73.7	5.4	03/13/92	03/19/92	PW
SAD2140200C00L	WWC3*93	03/04/92	03/04/92	145	5.3	03/13/92	03/19/92	PW
SBE1926100A00L	WWC3*94	03/04/92	03/04/92	660	6.1	03/13/92	03/19/92	PW
SBE1926100B00L	WWC3*95	03/04/92	03/04/92	129	5.4	03/13/92	03/19/92	PW
SBE1926100C00L	WWC3*96	03/04/92	03/04/92	22.9	5.2	03/13/92	03/19/92	PW
SBE1926200A00L	WWC3*97	03/04/92	03/04/92	415	5.5	03/13/92	03/19/92	PW
SBE1926200B00L	WWC3*98	03/04/92	03/04/92	242	5.5	03/13/92	03/19/92	PW
SBE1926200C00L	WWC3*99	03/04/92	03/04/92	212	5.3	03/13/92	03/19/92	PW
SBE1922100A00L	WWC3*100	03/04/92	03/04/92	367	5.7	03/13/92	03/19/92	PW
SBE1922100B00L	WWC3*101	03/04/92	03/04/92	319	5.9	03/13/92	03/19/92	PW
SBE1922100C00L	WWC3*102	03/04/92	03/04/92	216	5.5	03/13/92	03/19/92	PW
SBE1922200A00L	WWC3*103	03/04/92	03/04/92	709	5.6	03/13/92	03/19/92	PW
SBE1922200B00L	WWC3*104	03/04/92	03/04/92	521	5.3	03/13/92	03/19/92	PW
SBE1922200C00L	WWC3*105	03/04/92	03/04/92	364	5.4	03/13/92	03/19/92	PW
SBE1916100A00L	WWC3*106	03/04/92	03/04/92	577	5.4	03/13/92	03/19/92	PW
SBE1916100B00L	WWC3*107	03/04/92	03/04/92	337	5.3	03/13/92	03/19/92	PW
SBE1916100C00L	WWC3*108	03/04/92	03/04/92	182	5.2	03/13/92	03/19/92	PW
SBE1916200A00L	WWC3*109	03/04/92	03/04/92	128	5.3	03/13/92	03/19/92	PW
SBE1916200B00L	WWC3*110	03/04/92	03/04/92	209	5.2	03/13/92	03/19/92	PW
SBE1916200C00L	WWC3*111	03/04/92	03/04/92	43.9	5.1	03/13/92	03/19/92	PW
SBE1940100A00L	WWC3*112	03/04/92	03/04/92	479	5.4	03/13/92	03/19/92	PW
SBE1940100B00L	WWC3*113	03/04/92	03/04/92	114	5.3	03/13/92	03/19/92	PW
SBE1940100C00L	WWC3*114	03/04/92	03/04/92	47.9	5.3	03/13/92	03/19/92	PW
SBE1940200A00L	WWC3*115	03/04/92	03/04/92	987	5.9	03/13/92	03/19/92	PW
SBE1940200B00L	WWC3*116	03/04/92	03/04/92	470	5.4	03/13/92	03/19/92	PW
SBE1940200C00L	WWC3*117	03/04/92	03/04/92	252	5.4	03/13/92	03/19/92	PW
SBE1941100A00L	WWC3*118	03/04/92	03/04/92	611	5.4	03/13/92	03/19/92	PW
SBE1941100B00L	WWC3*119	03/04/92	03/04/92	441	5.3	03/13/92	03/19/92	PW
SBE1941100C00L	WWC3*120	03/04/92	03/04/92	81.4	5.3	03/13/92	03/19/92	PW
SBE1941200A00L	WWC3*121	03/04/92	03/04/92	1240	5.6	03/13/92	03/19/92	PW
SBE1941200B00L	WWC3*122	03/04/92	03/04/92	384	5.5	03/13/92	03/19/92	PW
SBE1941200C00L	WWC3*123	03/04/92	03/04/92	215	5.5	03/13/92	03/19/92	PW
SBE2140100A00L	WWC3*124	03/04/92	03/04/92	402	5.7	03/13/92	03/19/92	PW
SBE2140100B00L	WWC3*125	03/04/92	03/04/92	417	5.9	03/13/92	03/19/92	PW
SBE2140100C00L	WWC3*126	03/04/92	03/04/92	230	5.7	03/13/92	03/19/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SBE2140200A00L	WWC3*127	03/04/92	03/04/92	523	5.6	03/13/92	03/19/92	PW
SBE2140200B00L	WWC3*128	03/04/92	03/04/92	618	5.8	03/13/92	03/19/92	PW
SBE2140200C00L	WWC3*129	03/04/92	03/04/92	157	5.9	03/13/92	03/19/92	PW
SBE2020100A00L	WWC3*130	03/04/92	03/04/92	476	5.8	03/13/92	03/19/92	PW
SBE2020100B00L	WWC3*131	03/04/92	03/04/92	190	5.6	03/13/92	03/19/92	PW
SBE2020100C00L	WWC3*132	03/04/92	03/04/92	130	5.3	03/13/92	03/19/92	PW
SBE2020200A00L	WWC3*133	03/04/92	03/04/92	693	5.9	03/13/92	03/19/92	PW
SBE2020200B00L	WWC3*134	03/04/92	03/04/92	404	5.8	03/13/92	03/19/92	PW
SBE2020200C00L	WWC3*135	03/04/92	03/04/92	84.8	5.4	03/13/92	03/19/92	PW
SBE2034100A00L	WWC3*136	03/04/92	03/04/92	284	5.7	03/13/92	03/19/92	PW
SBE2034100B00L	WWC3*137	03/04/92	03/04/92	235	5.2	03/13/92	03/19/92	PW
SBE2034100C00L	WWC3*138	03/04/92	03/04/92	150	5.3	03/13/92	03/19/92	PW
SBE2034200A00L	WWC3*139	03/04/92	03/04/92	341	5.5	03/13/92	03/19/92	PW
SBE2034200B00L	WWC3*140	03/04/92	03/04/92	245	5.5	03/13/92	03/19/92	PW
SBE2034200C00L	WWC3*141	03/04/92	03/04/92	160	5.5	03/13/92	03/19/92	PW
SBE2032100A00L	WWC3*142	03/04/92	03/04/92	299	5.5	03/13/92	03/19/92	PW
SBE2032100B00L	WWC3*143	03/04/92	03/04/92	220	5.4	03/13/92	03/19/92	PW
SBE2032100C00L	WWC3*144	03/04/92	03/04/92	80.9	5.5	03/13/92	03/19/92	PW
SBE2032200A00L	WWC3*145	03/04/92	03/04/92	347	5.8	03/13/92	03/19/92	PW
SBE2032200B00L	WWC3*146	03/04/92	03/04/92	348	5.8	03/13/92	03/19/92	PW
SBE2032200C00L	WWC3*147	03/04/92	03/04/92	240	6.0	03/13/92	03/19/92	PW
SBE2256100A00L	WWC3*148	03/05/92	03/05/92	379	5.9	03/13/92	03/19/92	PW
SBE2256100A0LD	WWC3*149	03/05/92	03/05/92	339	6.2	03/13/92	03/19/92	PW
SBE2256100B00L	WWC3*150	03/05/92	03/05/92	218	6.3	03/13/92	03/19/92	PW
SBE2256100B0LD	WWC3*151	03/05/92	03/05/92	269	6.1	03/13/92	03/19/92	PW
SBE2256100C00L	WWC3*152	03/05/92	03/05/92	164	5.9	03/13/92	03/19/92	PW
SBE2256100C0LD	WWC3*153	03/05/92	03/05/92	152	5.7	03/13/92	03/19/92	PW
SBE2256200A00L	WWC3*154	03/05/92	03/05/92	398	5.4	03/13/92	03/19/92	PW
SBE2256200B00L	WWC3*155	03/05/92	03/05/92	340	5.2	03/13/92	03/19/92	PW
SBE2256200C00L	WWC3*156	03/05/92	03/05/92	153	5.4	03/13/92	03/19/92	PW
SBE2244100A00L	WWC3*157	03/05/92	03/05/92	313	5.5	03/13/92	03/19/92	PW
SBE2244100B00L	WWC3*158	03/05/92	03/05/92	180	5.6	03/13/92	03/19/92	PW
SBE2244100C00L	WWC3*159	03/05/92	03/05/92	111	5.7	03/13/92	03/19/92	PW
SBE2244200A00L	WWC3*160	03/05/92	03/05/92	240	5.6	03/13/92	03/19/92	PW
SBE2244200B00L	WWC3*161	03/05/92	03/05/92	96.0	5.4	03/13/92	03/19/92	PW
SBE2244200C00L	WWC3*162	03/05/92	03/05/92	ND	5.3	03/13/92	03/19/92	PW
SBE2246100A00L	WWC3*163	03/05/92	03/05/92	239	5.9	03/13/92	03/19/92	PW
SBE2246100B00L	WWC3*164	03/05/92	03/05/92	25.0	5.7	03/13/92	03/19/92	PW
SBE2246100C00L	WWC3*165	03/05/92	03/05/92	ND	5.6	03/13/92	03/19/92	PW
SBE2246200A00L	WWC3*166	03/05/92	03/05/92	253	5.6	03/13/92	03/19/92	PW
SBE2246200B00L	WWC3*167	03/05/92	03/05/92	366	5.5	03/13/92	03/19/92	PW
SBE2246200C00L	WWC3*168	03/05/92	03/05/92	153	5.4	03/13/92	03/19/92	PW

Environmental Science & Engineering, Inc.

St Louis Chemistry Laboratory

11663 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1603100A00L	WWC3*169	03/05/92	03/05/92	180	5.4	03/13/92	03/19/92	PW
SMP1603100B00L	WWC3*170	03/05/92	03/05/92	264	5.7	03/13/92	03/19/92	PW
SMP1603100C00L	WWC3*171	03/05/92	03/05/92	176	5.6	03/13/92	03/19/92	PW
SMP1603200A00L	WWC3*172	03/05/92	03/05/92	710	5.6	03/13/92	03/19/92	PW
SMP1603200B00L	WWC3*173	03/05/92	03/05/92	14300 D	54.8	03/13/92	05/11/92	PW
SMP1603200C00L	WWC3*174	03/05/92	03/05/92	493	5.5	03/13/92	03/19/92	PW
SMP1642100A00L	WWC3*175	03/05/92	03/05/92	1350	5.7	03/13/92	03/19/92	PW
SMP1642100B00L	WWC3*176	03/05/92	03/05/92	917	5.6	03/13/92	03/19/92	PW
SMP1642100C00L	WWC3*177	03/05/92	03/05/92	499	6.1	03/13/92	03/19/92	PW
SMP1642200A00L	WWC3*178	03/05/92	03/05/92	852	5.8	03/13/92	03/19/92	PW
SMP1642200B00L	WWC3*179	03/05/92	03/05/92	898	5.6	03/13/92	03/19/92	PW
SMP1642200C00L	WWC3*180 J	03/05/92	03/05/92	598 J	6.0	03/13/92	03/19/92	PW
SMP1641100A00L	WWC3*181	03/05/92	03/05/92	498	5.7	03/13/92	03/19/92	PW
SMP1641100B00L	WWC3*182	03/05/92	03/05/92	966	6.1	03/13/92	03/19/92	PW
SMP1641100C00L	WWC3*183	03/05/92	03/05/92	432	5.6	03/13/92	03/19/92	PW
SMP1641200A00L	WWC3*184	03/05/92	03/05/92	1110	6.0	03/13/92	03/19/92	PW
SMP1641200B00L	WWC3*185	03/05/92	03/05/92	639	5.5	03/13/92	03/19/92	PW
SMP1641200C00L	WWC3*186	03/05/92	03/05/92	356	5.8	03/13/92	03/19/92	PW
SMP1635100A00L	WWC3*187	03/05/92	03/05/92	721	5.9	03/13/92	03/19/92	PW
SMP1635100B00L	WWC3*188	03/05/92	03/05/92	365	5.6	03/13/92	03/19/92	PW
SMP1635100C00L	WWC3*189	03/05/92	03/05/92	148	5.3	03/13/92	03/19/92	PW
SMP1635200A00L	WWC3*190	03/05/92	03/05/92	593	5.6	03/13/92	03/19/92	PW
SMP1635200B00L	WWC3*191	03/05/92	03/05/92	475	5.7	03/13/92	03/19/92	PW
SMP1635200C00L	WWC3*192	03/05/92	03/05/92	261	5.8	03/13/92	03/19/92	PW
SMP1633100A00L	WWC3*193	03/05/92	03/05/92	747	5.2	03/13/92	03/19/92	PW
SMP1633100B00L	WWC3*194	03/05/92	03/05/92	372	5.3	03/13/92	03/19/92	PW
SMP1633100C00L	WWC3*195	03/05/92	03/05/92	122	5.4	03/13/92	03/19/92	PW
SMP1633200A00L	WWC3*196	03/05/92	03/05/92	640	5.8	03/13/92	03/19/92	PW
SMP1633200B00L	WWC3*197	03/05/92	03/05/92	444	5.5	03/13/92	03/19/92	PW
SMP1633200C00L	WWC3*198	03/05/92	03/05/92	261	5.4	03/13/92	03/19/92	PW
SMP1632100A00L	WWC3*199	03/05/92	03/05/92	417	5.8	03/13/92	03/19/92	PW
SMP1632100B00L	WWC3*200	03/05/92	03/05/92	414	5.8	03/13/92	03/19/92	PW
SMP1632100C00L	WWC3*201	03/05/92	03/05/92	200	5.1	03/16/92	03/20/92	PW
SMP1632200A00L	WWC3*202	03/05/92	03/05/92	900	5.5	03/16/92	03/20/92	PW
SMP1632200B00L	WWC3*203	03/05/92	03/05/92	611	5.3	03/16/92	03/20/92	PW
SMP1632200C00L	WWC3*204	03/05/92	03/05/92	382	4.9	03/16/92	03/20/92	PW
SMP1617100A00L	WWC3*205	03/05/92	03/05/92	587	5.7	03/16/92	03/20/92	PW
SMP1617100B00L	WWC3*206	03/05/92	03/05/92	414	5.6	03/16/92	03/20/92	PW
SMP1617100C00L	WWC3*207	03/05/92	03/05/92	241	5.5	03/16/92	03/20/92	PW
SMP1617200A00L	WWC3*208	03/05/92	03/05/92	452	5.6	03/16/92	03/20/92	PW
SMP1617200B00L	WWC3*209	03/05/92	03/05/92	250	6.2	03/16/92	03/20/92	PW
SMP1617200C00L	WWC3*210	03/05/92	03/05/92	276	6.0	03/16/92	03/20/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1618100A00L	WWC3*211	03/05/92	03/05/92	590	6.1	03/16/92	03/20/92	PW
SMP1618100B00L	WWC3*212	03/05/92	03/05/92	491	5.8	03/16/92	03/20/92	PW
SMP1618100C00L	WWC3*213	03/05/92	03/05/92	248	5.4	03/16/92	03/20/92	PW
SMP1618200A00L	WWC3*214	03/05/92	03/05/92	1910	5.9	03/16/92	03/20/92	PW
SMP1618200B00L	WWC3*215	03/05/92	03/05/92	533	5.5	03/16/92	03/20/92	PW
SMP1618200C00L	WWC3*216	03/05/92	03/05/92	279	5.7	03/16/92	03/20/92	PW
SMP1619100A00L	WWC3*217	03/05/92	03/05/92	392	5.6	03/16/92	03/20/92	PW
SMP1619100B00L	WWC3*218	03/05/92	03/05/92	369	6.0	03/16/92	03/20/92	PW
SMP1619100C00L	WWC3*219	03/05/92	03/05/92	323	6.0	03/16/92	03/20/92	PW
SMP1619200A00L	WWC3*220 J	03/05/92	03/05/92	365 J	6.0	03/16/92	03/20/92	PW
SMP1619200B00L	WWC3*221	03/05/92	03/05/92	272	5.8	03/16/92	03/20/92	PW
SMP1619200C00L	WWC3*222	03/05/92	03/05/92	251	5.8	03/16/92	03/20/92	PW
SCL1624100A00L	WWC3*223	03/06/92	03/06/92	4790 D	60.7	03/16/92	05/11/92	PW
SCL1624100B00L	WWC3*224	03/06/92	03/06/92	2490	6.3	03/16/92	03/20/92	PW
SCL1624100C00L	WWC3*225	03/06/92	03/06/92	1030	6.0	03/16/92	03/20/92	PW
SCL1624200A00L	WWC3*226	03/06/92	03/06/92	1830	5.8	03/16/92	03/20/92	PW
SCL1624200B00L	WWC3*227	03/06/92	03/06/92	1390	5.8	03/16/92	03/20/92	PW
SCL1624200C00L	WWC3*228	03/06/92	03/06/92	452	5.5	03/16/92	03/20/92	PW
SCL1628100A00L	WWC3*229	03/06/92	03/06/92	2160	6.0	03/16/92	03/20/92	PW
SCL1628100B00L	WWC3*230	03/06/92	03/06/92	990	6.0	03/16/92	03/20/92	PW
SCL1628100C00L	WWC3*231	03/06/92	03/06/92	787	6.0	03/16/92	03/20/92	PW
SCL1628200A00L	WWC3*232	03/06/92	03/06/92	2050	5.7	03/16/92	03/20/92	PW
SCL1628200B00L	WWC3*233	03/06/92	03/06/92	992	6.1	03/16/92	03/20/92	PW
SCL1628200C00L	WWC3*234	03/06/92	03/06/92	382	5.9	03/16/92	03/20/92	PW
SCL1726100A00L	WWC3*235	03/06/92	03/06/92	1150	6.1	03/16/92	03/20/92	PW
SCL1726100B00L	WWC3*236	03/06/92	03/06/92	497	5.6	03/16/92	03/20/92	PW
SCL1726100C00L	WWC3*237	03/06/92	03/06/92	452	5.6	03/16/92	03/20/92	PW
SCL1726200A00L	WWC3*238	03/06/92	03/06/92	581	6.2	03/16/92	03/20/92	PW
SCL1726200B00L	WWC3*239	03/06/92	03/06/92	345	5.9	03/16/92	03/20/92	PW
SCL1726200C00L	WWC3*240 J	03/06/92	03/06/92	577 J	6.0	03/16/92	03/20/92	PW
SCL2114100A00L	WWC3*241	03/06/92	03/06/92	434	5.8	03/16/92	03/20/92	PW
SCL2114100B00L	WWC3*242	03/06/92	03/06/92	375	5.7	03/16/92	03/20/92	PW
SCL2114100C00L	WWC3*243	03/06/92	03/06/92	146	6.1	03/16/92	03/20/92	PW
SCL2114200A00L	WWC3*244	03/06/92	03/06/92	414	6.0	03/16/92	03/20/92	PW
SCL2114200B00L	WWC3*245	03/06/92	03/06/92	476	5.7	03/16/92	03/20/92	PW
SCL2114200C00L	WWC3*246	03/06/92	03/06/92	191	5.7	03/16/92	03/20/92	PW
SCL2128100A00L	WWC3*247	03/06/92	03/06/92	242	5.3	03/16/92	03/20/92	PW
SCL2128100B00L	WWC3*248	03/06/92	03/06/92	198	5.7	03/16/92	03/20/92	PW
SCL2128100C00L	WWC3*249	03/06/92	03/06/92	80.2	5.9	03/16/92	03/20/92	PW
SCL2128200A00L	WWC3*250	03/06/92	03/06/92	334	5.6	03/16/92	03/20/92	PW
SCL2128200B00L	WWC3*251	03/06/92	03/06/92	272	5.5	03/16/92	03/20/92	PW
SCL2128200C00L	WWC3*252	03/06/92	03/06/92	380	5.5	03/16/92	03/20/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2121100A00L	WWC3*253	03/06/92	03/06/92	695	6.0	03/16/92	03/20/92	PW
SCL2121100B00L	WWC3*254	03/06/92	03/06/92	502	5.7	03/16/92	03/20/92	PW
SCL2121100C00L	WWC3*255	03/06/92	03/06/92	171	5.5	03/16/92	03/20/92	PW
SCL2121200A00L	WWC3*256	03/06/92	03/06/92	652	5.8	03/16/92	03/20/92	PW
SCL2121200B00L	WWC3*257	03/06/92	03/06/92	372	5.8	03/16/92	03/20/92	PW
SCL2121200C00L	WWC3*258	03/06/92	03/06/92	60.7	5.5	03/16/92	03/20/92	PW
SCL2127100A00L	WWC3*259	03/06/92	03/06/92	1150	4.9	03/16/92	03/20/92	PW
SCL2127100B00L	WWC3*260 J	03/06/92	03/06/92	524 J	5.7	03/16/92	03/20/92	PW
SCL2127100C00L	WWC3*261	03/06/92	03/06/92	113	5.8	03/16/92	03/20/92	PW
SCL2127200A00L	WWC3*262	03/06/92	03/06/92	448	5.9	03/16/92	03/20/92	PW
SCL2127200B00L	WWC3*263	03/06/92	03/06/92	465	5.7	03/16/92	03/20/92	PW
SCL2127200C00L	WWC3*264	03/06/92	03/06/92	233	5.9	03/16/92	03/20/92	PW
SCL2131100A00L	WWC3*265	03/06/92	03/06/92	309	6.0	03/16/92	03/20/92	PW
SCL2131100B00L	WWC3*266	03/06/92	03/06/92	168	5.4	03/16/92	03/20/92	PW
SCL2131100C00L	WWC3*267	03/06/92	03/06/92	86.7	5.8	03/16/92	03/20/92	PW
SCL2131200A00L	WWC3*268	03/06/92	03/06/92	401	6.1	03/16/92	03/20/92	PW
SCL2131200B00L	WWC3*269	03/06/92	03/06/92	321	6.1	03/16/92	03/20/92	PW
SCL2131200C00L	WWC3*270	03/06/92	03/06/92	176	5.8	03/16/92	03/20/92	PW
SCL2126100A00L	WWC3*271	03/06/92	03/06/92	419	6.0	03/16/92	03/20/92	PW
SCL2126100B00L	WWC3*272	03/06/92	03/06/92	321	5.9	03/16/92	03/20/92	PW
SCL2126100C00L	WWC3*273	03/06/92	03/06/92	116	5.6	03/16/92	03/20/92	PW
SCL2126200A00L	WWC3*274	03/06/92	03/06/92	550	5.6	03/16/92	03/20/92	PW
SCL2126200B00L	WWC3*275	03/06/92	03/06/92	497	5.8	03/16/92	03/20/92	PW
SCL2126200C00L	WWC3*276	03/06/92	03/06/92	172	5.9	03/16/92	03/20/92	PW
SCL2008100A00L	WWC3*277	03/06/92	03/06/92	359	6.0	03/16/92	03/20/92	PW
SCL2008100B00L	WWC3*278	03/06/92	03/06/92	351	6.0	03/16/92	03/20/92	PW
SCL2008100C00L	WWC3*279	03/06/92	03/06/92	309	5.9	03/16/92	03/20/92	PW
SCL2008200A00L	WWC3*280	03/06/92	03/06/92	167	5.6	03/16/92	03/20/92	PW
SCL2008200B00L	WWC3*281	03/06/92	03/06/92	99.9	5.3	03/16/92	03/20/92	PW
SCL2008200C00L	WWC3*282	03/06/92	03/06/92	294	5.4	03/16/92	03/20/92	PW
SCL2057100A00L	WWC3*283	03/06/92	03/06/92	677	5.8	03/16/92	03/20/92	PW
SCL2057100B00L	WWC3*284	03/06/92	03/06/92	286	5.5	03/16/92	03/20/92	PW
SCL2057100C00L	WWC3*285	03/06/92	03/06/92	100.0	5.6	03/16/92	03/20/92	PW
SCL2057200A00L	WWC3*286	03/06/92	03/06/92	552	5.8	03/16/92	03/20/92	PW
SCL2057200B00L	WWC3*287	03/06/92	03/06/92	420	5.6	03/16/92	03/20/92	PW
SCL2057200C00L	WWC3*288	03/06/92	03/06/92	203	5.8	03/16/92	03/20/92	PW
SCL2030100A00L	WWC3*289	03/06/92	03/06/92	754	6.1	03/16/92	03/20/92	PW
SCL2030100B00L	WWC3*290	03/06/92	03/06/92	229	5.9	03/16/92	03/20/92	PW
SCL2030100C00L	WWC3*291	03/06/92	03/06/92	76.8	5.5	03/16/92	03/20/92	PW
SCL2030200A00L	WWC3*292	03/06/92	03/06/92	1700	5.3	03/16/92	03/20/92	PW
SCL2030200B00L	WWC3*293	03/06/92	03/06/92	604	5.6	03/16/92	03/20/92	PW
SCL2030200C00L	WWC3*294	03/06/92	03/06/92	289	5.6	03/16/92	03/20/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2026100A00L	WWC3*295	03/06/92	03/06/92	354	5.6	03/16/92	03/20/92	PW
SCL2026100B00L	WWC3*296	03/06/92	03/06/92	536	5.7	03/16/92	03/20/92	PW
SCL2026100C00L	WWC3*297	03/06/92	03/06/92	192	5.7	03/16/92	03/20/92	PW
SCL2026200A00L	WWC3*298	03/06/92	03/06/92	1780	5.7	03/16/92	03/20/92	PW
SCL2026200B00L	WWC3*299	03/06/92	03/06/92	1610	5.1	03/16/92	03/20/92	PW
SCL2026200C00L	WWC3*300	03/06/92	03/06/92	63.9	5.3	03/16/92	03/20/92	PW
SCL2161100A00L	WWC3*301	03/09/92	03/09/92	304	6.0	03/16/92	03/20/92	PW
SCL2161100B00L	WWC3*302	03/09/92	03/09/92	122	5.8	03/16/92	03/20/92	PW
SCL2161100C00L	WWC3*303	03/09/92	03/09/92	141	5.8	03/16/92	03/20/92	PW
SCL2161200A00L	WWC3*304	03/09/92	03/09/92	584	5.9	03/16/92	03/20/92	PW
SCL2161200B00L	WWC3*305	03/09/92	03/09/92	320	5.8	03/16/92	03/20/92	PW
SCL2161200C00L	WWC3*306	03/09/92	03/09/92	140	5.8	03/16/92	03/20/92	PW
SCL2160100A00L	WWC3*307	03/09/92	03/09/92	204	5.7	03/16/92	03/20/92	PW
SCL2160100B00L	WWC3*308	03/09/92	03/09/92	131	5.8	03/16/92	03/20/92	PW
SCL2160100C00L	WWC3*309	03/09/92	03/09/92	77.8	5.7	03/16/92	03/20/92	PW
SCL2160200A00L	WWC3*310	03/09/92	03/09/92	70.6	6.2	03/16/92	03/20/92	PW
SCL2160200B00L	WWC3*311	03/09/92	03/09/92	374	5.2	03/16/92	03/20/92	PW
SCL2160200C00L	WWC3*312	03/09/92	03/09/92	645	5.6	03/16/92	03/20/92	PW
SCL2145100A00L	WWC3*313	03/09/92	03/09/92	162	5.7	03/16/92	03/20/92	PW
SCL2145100B00L	WWC3*314	03/09/92	03/09/92	119	5.6	03/16/92	03/20/92	PW
SCL2145100C00L	WWC3*315	03/09/92	03/09/92	43.1	5.7	03/16/92	03/20/92	PW
SCL2145200A00L	WWC3*316	03/09/92	03/09/92	312	5.6	03/16/92	03/20/92	PW
SCL2145200B00L	WWC3*317	03/09/92	03/09/92	493	5.9	03/16/92	03/20/92	PW
SCL2145200C00L	WWC3*318	03/09/92	03/09/92	194	5.8	03/16/92	03/20/92	PW
SCL2149100A00L	WWC3*319	03/09/92	03/09/92	444	5.8	03/16/92	03/20/92	PW
SCL2149100B00L	WWC3*320	03/09/92	03/09/92	259	5.7	03/16/92	03/20/92	PW
SCL2149100C00L	WWC3*321	03/09/92	03/09/92	48.0	5.5	03/18/92	03/24/92	PW
SCL2149200A00L	WWC3*322	03/09/92	03/09/92	290	5.9	03/18/92	03/24/92	PW
SCL2149200B00L	WWC3*323	03/09/92	03/09/92	211	5.7	03/18/92	03/24/92	PW
SCL2149200C00L	WWC3*324	03/09/92	03/09/92	65.2	5.6	03/18/92	03/24/92	PW
SCL2156100A00L	WWC3*325	03/09/92	03/09/92	382	5.8	03/18/92	03/24/92	PW
SCL2156100B00L	WWC3*326	03/09/92	03/09/92	197	6.0	03/18/92	03/24/92	PW
SCL2156100C00L	WWC3*327	03/09/92	03/09/92	64.3	5.7	03/18/92	03/24/92	PW
SCL2156200A00L	WWC3*328	03/09/92	03/09/92	638	5.9	03/18/92	03/24/92	PW
SCL2156200B00L	WWC3*329	03/09/92	03/09/92	557	5.7	03/18/92	03/24/92	PW
SCL2156200C00L	WWC3*330	03/09/92	03/09/92	285	5.8	03/18/92	03/24/92	PW
SCL2164100A00L	WWC3*331	03/09/92	03/09/92	528	6.0	03/18/92	03/24/92	PW
SCL2164100B00L	WWC3*332	03/09/92	03/09/92	222	5.7	03/18/92	03/24/92	PW
SCL2164100C00L	WWC3*333	03/09/92	03/09/92	78.4	5.7	03/18/92	03/24/92	PW
SCL2164200A00L	WWC3*334	03/09/92	03/09/92	333	6.0	03/18/92	03/24/92	PW
SCL2164200B00L	WWC3*335	03/09/92	03/09/92	284	5.9	03/18/92	03/24/92	PW
SCL2164200C00L	WWC3*336	03/09/92	03/09/92	211	5.9	03/18/92	03/24/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2153100A00L	WWC3*337	03/09/92	03/09/92	230	5.5	03/18/92	03/24/92	PW
SCL2153100B00L	WWC3*338	03/09/92	03/09/92	180	5.5	03/18/92	03/24/92	PW
SCL2153100C00L	WWC3*339	03/09/92	03/09/92	103	5.6	03/18/92	03/24/92	PW
SCL2153200A00L	WWC3*340 J	03/09/92	03/09/92	484 J	6.2	03/18/92	03/24/92	PW
SCL2153200B00L	WWC3*341	03/09/92	03/09/92	524	5.7	03/18/92	03/24/92	PW
SCL2153200C00L	WWC3*342	03/09/92	03/09/92	335	5.7	03/18/92	03/24/92	PW
SGR2012100A00L	WWC3*343	03/09/92	03/09/92	541	5.7	03/18/92	03/24/92	PW
SGR2012100B00L	WWC3*344	03/09/92	03/09/92	159	5.5	03/18/92	03/24/92	PW
SGR2012100C00L	WWC3*345	03/09/92	03/09/92	49.6	5.5	03/18/92	03/24/92	PW
SGR2012200A00L	WWC3*346	03/09/92	03/09/92	364	5.5	03/18/92	03/24/92	PW
SGR2012200B00L	WWC3*347	03/09/92	03/09/92	408	5.8	03/18/92	03/24/92	PW
SGR2012200C00L	WWC3*348	03/09/92	03/09/92	308	5.6	03/18/92	03/24/92	PW
SGR2016100A00L	WWC3*349	03/09/92	03/09/92	614	5.9	03/18/92	03/24/92	PW
SGR2016100B00L	WWC3*350	03/09/92	03/09/92	419	5.4	03/18/92	03/24/92	PW
SGR2016100C00L	WWC3*351	03/09/92	03/09/92	176	6.0	03/18/92	03/24/92	PW
SGR2016200A00L	WWC3*352	03/09/92	03/09/92	727	5.8	03/18/92	03/24/92	PW
SGR2016200B00L	WWC3*353	03/09/92	03/09/92	582	5.9	03/18/92	03/24/92	PW
SGR2016200C00L	WWC3*354	03/09/92	03/09/92	235	5.7	03/18/92	03/24/92	PW
SGR1937100A00L	WWC3*355	03/09/92	03/09/92	542	6.4	03/18/92	03/24/92	PW
SGR1937100B00L	WWC3*356	03/09/92	03/09/92	453	5.8	03/18/92	03/24/92	PW
SGR1937100C00L	WWC3*357	03/09/92	03/09/92	467	5.6	03/18/92	03/24/92	PW
SGR1937200A00L	WWC3*358	03/09/92	03/09/92	805	6.0	03/18/92	03/24/92	PW
SGR1937200B00L	WWC3*359	03/09/92	03/09/92	2050	5.8	03/18/92	03/24/92	PW
SGR1937200C00L	WWC3*360 J	03/09/92	03/09/92	291 J	5.8	03/18/92	03/24/92	PW
SGR1929100A00L	WWC3*361	03/09/92	03/09/92	655	6.2	03/18/92	03/24/92	PW
SGR1929100B00L	WWC3*362	03/09/92	03/09/92	583	5.8	03/18/92	03/24/92	PW
SGR1929100C00L	WWC3*363	03/09/92	03/09/92	194	5.6	03/18/92	03/24/92	PW
SGR1919100A00L	WWC3*364	03/09/92	03/09/92	1240	6.5	03/18/92	03/24/92	PW
SGR1919100B00L	WWC3*365	03/09/92	03/09/92	872	5.8	03/18/92	03/24/92	PW
SGR1919100C00L	WWC3*366	03/09/92	03/09/92	485	6.0	03/18/92	03/24/92	PW
SGR1919200A00L	WWC3*367	03/09/92	03/09/92	726	6.1	03/18/92	03/24/92	PW
SGR1919200B00L	WWC3*368	03/09/92	03/09/92	738	6.1	03/18/92	03/24/92	PW
SGR1919200C00L	WWC3*369	03/09/92	03/09/92	342	5.9	03/18/92	03/24/92	PW
SCL2264100A00L	WWC3*370	03/11/92	03/11/92	250	6.4	03/18/92	03/24/92	PW
SCL2264100B00L	WWC3*371	03/11/92	03/11/92	133	5.7	03/18/92	03/24/92	PW
SCL2264100C00L	WWC3*372	03/11/92	03/11/92	81.0	5.7	03/18/92	03/24/92	PW
SCL2264200A00L	WWC3*373	03/11/92	03/11/92	427	6.3	03/18/92	03/24/92	PW
SCL2264200B00L	WWC3*374	03/11/92	03/11/92	287	6.0	03/18/92	03/24/92	PW
SCL2264200C00L	WWC3*375	03/11/92	03/11/92	220	5.8	03/18/92	03/24/92	PW
SCL2254100A00L	WWC3*376	03/11/92	03/11/92	381	5.8	03/18/92	03/24/92	PW
SCL2254100B00L	WWC3*377	03/11/92	03/11/92	226	6.0	03/18/92	03/24/92	PW
SCL2254100C00L	WWC3*378	03/11/92	03/11/92	192	5.7	03/18/92	03/24/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2242100A00L	WWC3*379	03/11/92	03/11/92	251	6.1	03/18/92	03/24/92	PW
SCL2242100A0LD	WWC3*380	03/11/92	03/11/92	324	5.9	03/18/92	03/24/92	PW
SCL2242100B00L	WWC3*381	03/11/92	03/11/92	245	6.1	05/06/92	05/11/92	PW
SCL2242100B0LD	WWC3*382	03/11/92	03/11/92	237	6.1	05/06/92	05/11/92	PW
SCL2242100C00L	WWC3*383	03/11/92	03/11/92	111	5.9	05/06/92	05/11/92	PW
SCL2242100C0LD	WWC3*384	03/11/92	03/11/92	108	5.9	05/06/92	05/11/92	PW
SCL2242200A00L	WWC3*385	03/11/92	03/11/92	393	6.2	05/06/92	05/11/92	PW
SCL2242200B00L	WWC3*386	03/11/92	03/11/92	284	6.1	05/06/92	05/11/92	PW
SCL2242200C00L	WWC3*387	03/11/92	03/11/92	135	6.0	05/06/92	05/11/92	PW
SCL2246100A00L	WWC3*388	03/11/92	03/11/92	347	6.2	05/06/92	05/11/92	PW
SCL2246100B00L	WWC3*389	03/11/92	03/11/92	256	6.0	05/06/92	05/11/92	PW
SCL2246100C00L	WWC3*390	03/11/92	03/11/92	102	6.0	05/06/92	05/11/92	PW
SCL2246200A00L	WWC3*391	03/11/92	03/11/92	1210	6.0	05/06/92	05/11/92	PW
SCL2246200B00L	WWC3*392	03/11/92	03/11/92	562	6.1	05/06/92	05/11/92	PW
SCL2246200C00L	WWC3*393	03/11/92	03/11/92	287	5.6	05/06/92	05/11/92	PW
SCL2243100A00L	WWC3*394	03/11/92	03/11/92	390	6.2	05/06/92	05/11/92	PW
SCL2243100B00L	WWC3*395	03/11/92	03/11/92	318	6.1	05/06/92	05/11/92	PW
SCL2243100C00L	WWC3*396	03/11/92	03/11/92	221	6.0	05/06/92	05/11/92	PW
SCL2243200A00L	WWC3*397	03/11/92	03/11/92	388	6.2	05/06/92	05/11/92	PW
SCL2243200B00L	WWC3*398	03/11/92	03/11/92	224	6.0	05/06/92	05/11/92	PW
SCL2243200C00L	WWC3*399	03/11/92	03/11/92	111	5.6	05/06/92	05/11/92	PW
SCL2208100A00L	WWC3*400	03/11/92	03/11/92	445	5.6	05/06/92	05/11/92	PW
SCL2208100B00L	WWC3*401	03/11/92	03/11/92	376	5.4	05/06/92	05/11/92	PW
SCL2208100C00L	WWC3*402	03/11/92	03/11/92	130	5.9	05/06/92	05/11/92	PW
SCL2208100A0LD	WWC3*403	03/11/92	03/11/92	422	5.7	05/06/92	05/11/92	PW
SCL2208100B0LD	WWC3*404	03/11/92	03/11/92	388	5.6	05/06/92	05/11/92	PW
SCL2208100C0LD	WWC3*405	03/11/92	03/11/92	111	6.0	05/06/92	05/11/92	PW
SCL2208200A00L	WWC3*406	03/11/92	03/11/92	383	5.7	05/06/92	05/11/92	PW
SCL2208200B00L	WWC3*407	03/11/92	03/11/92	457	6.0	05/06/92	05/11/92	PW
SCL2208200C00L	WWC3*408	03/11/92	03/11/92	306	5.8	05/06/92	05/11/92	PW
SCL2229100A00L	WWC3*409	03/11/92	03/11/92	552	6.2	05/06/92	05/11/92	PW
SCL2229100B00L	WWC3*410	03/11/92	03/11/92	503	6.0	05/06/92	05/11/92	PW
SCL2229100C00L	WWC3*411	03/11/92	03/11/92	277	5.9	05/06/92	05/11/92	PW
SCL2229200A00L	WWC3*412	03/11/92	03/11/92	921	6.0	05/06/92	05/11/92	PW
SCL2229200B00L	WWC3*413	03/11/92	03/11/92	918	5.9	05/06/92	05/11/92	PW
SCL2229200C00L	WWC3*414	03/11/92	03/11/92	435	5.8	05/06/92	05/11/92	PW
SCL2222100A00L	WWC3*415	03/11/92	03/11/92	549	6.3	05/06/92	05/11/92	PW
SCL2222100B00L	WWC3*416	03/11/92	03/11/92	460	6.1	05/06/92	05/11/92	PW
SCL2222100C00L	WWC3*417	03/11/92	03/11/92	232	6.1	05/06/92	05/11/92	PW
SCL2222200A00L	WWC3*418	03/11/92	03/11/92	662	6.1	05/06/92	05/11/92	PW
SCL2222200B00L	WWC3*419	03/11/92	03/11/92	442	5.4	05/11/92	05/11/92	PW
SCL2222200C00L	WWC3*420	03/11/92	03/11/92	218	5.9	05/06/92	05/11/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCL2221100A00L	WWC3*421	03/11/92	03/11/92	299		6.1	03/18/92	03/24/92	PW
SCL2221100B00L	WWC3*422	03/11/92	03/11/92	305		5.8	03/18/92	03/24/92	PW
SCL2221100C00L	WWC3*423	03/11/92	03/11/92	146		5.7	03/18/92	03/24/92	PW
SCL2221200A00L	WWC3*424	03/11/92	03/11/92	8870	D	54.5	03/19/92	05/11/92	PW
SCL2221200B00L	WWC3*425	03/11/92	03/11/92	1410		5.1	03/18/92	03/24/92	PW
SCL2221200C00L	WWC3*426	03/11/92	03/11/92	154		5.5	03/18/92	03/24/92	PW
SCL2217100A00L	WWC3*427	03/11/92	03/11/92	451		5.3	03/18/92	03/24/92	PW
SCL2217100B00L	WWC3*428	03/11/92	03/11/92	291		5.6	03/18/92	03/24/92	PW
SCL2217100C00L	WWC3*429	03/11/92	03/11/92	76.2		5.4	03/18/92	03/24/92	PW
SCL2217200A00L	WWC3*430	03/11/92	03/11/92	128		5.7	03/18/92	03/24/92	PW
SCL2217200B00L	WWC3*431	03/11/92	03/11/92	390		5.9	03/18/92	03/24/92	PW
SCL2217200C00L	WWC3*432	03/11/92	03/11/92	491		5.7	03/18/92	03/24/92	PW
SGR2209100A00L	WWC3*433	03/12/92	03/12/92	282		5.5	03/18/92	03/24/92	PW
SGR2209100A0LD	WWC3*434	03/12/92	03/12/92	283		5.6	03/18/92	03/24/92	PW
SGR2209100B00L	WWC3*435	03/12/92	03/12/92	211		5.8	03/18/92	03/24/92	PW
SGR2209100B0LD	WWC3*436	03/12/92	03/12/92	183		5.7	03/18/92	03/24/92	PW
SGR2209100C00L	WWC3*437	03/12/92	03/12/92	118		5.3	03/18/92	03/24/92	PW
SGR2209100C0LD	WWC3*438	03/12/92	03/12/92	130		5.4	03/18/92	03/24/92	PW
SGR2209200A00L	WWC3*439	03/12/92	03/12/92	238		5.9	03/18/92	03/24/92	PW
SGR2209200B00L	WWC3*440 J	03/12/92	03/12/92	118	J	5.5	03/18/92	03/24/92	PW
SGR2209200C00L	WWC3*441	03/12/92	03/12/92	281		5.8	03/19/92	03/24/92	PW
SGR2228100A00L	WWC3*442	03/12/92	03/12/92	353		5.9	03/19/92	03/24/92	PW
SGR2228100B00L	WWC3*443	03/12/92	03/12/92	156		5.8	03/19/92	03/24/92	PW
SGR2228100C00L	WWC3*444	03/12/92	03/12/92	72.7		6.0	03/19/92	03/24/92	PW
SGR2228200A00L	WWC3*445	03/12/92	03/12/92	597		5.1	03/19/92	03/24/92	PW
SGR2228200B00L	WWC3*446	03/12/92	03/12/92	438		5.2	03/19/92	03/24/92	PW
SGR2228200C00L	WWC3*447	03/12/92	03/12/92	348		6.0	03/19/92	03/24/92	PW
SGR2213100A00L	WWC3*448	03/12/92	03/12/92	1310		6.0	03/19/92	03/24/92	PW
SGR2213100B00L	WWC3*449	03/12/92	03/12/92	581		5.8	03/19/92	03/24/92	PW
SGR2213100C00L	WWC3*450	03/12/92	03/12/92	1150		5.6	03/19/92	03/24/92	PW
SGR2213200A00L	WWC3*451	03/12/92	03/12/92	3410	D	57.6	03/19/92	05/11/92	PW
SGR2213200B00L	WWC3*452	03/12/92	03/12/92	568		5.8	03/19/92	03/24/92	PW
SGR2213200C00L	WWC3*453	03/12/92	03/12/92	497		5.9	03/19/92	03/24/92	PW
SGR2221100A00L	WWC3*454	03/12/92	03/12/92	639		5.5	03/19/92	03/24/92	PW
SGR2221100B00L	WWC3*455	03/12/92	03/12/92	466		5.6	03/19/92	03/24/92	PW
SGR2221100C00L	WWC3*456	03/12/92	03/12/92	150		5.6	03/19/92	03/24/92	PW
SGR2221200A00L	WWC3*457	03/12/92	03/12/92	829		6.0	03/19/92	03/24/92	PW
SGR2221200B00L	WWC3*458	03/12/92	03/12/92	411		6.0	03/19/92	03/24/92	PW
SGR2221200C00L	WWC3*459	03/12/92	03/12/92	125		6.2	03/19/92	03/24/92	PW
SGR2217100A00L	WWC3*460 J	03/12/92	03/12/92	308	J	5.5	03/19/92	03/24/92	PW
SGR2217100B00L	WWC3*461	03/12/92	03/12/92	268		5.4	03/19/92	03/24/92	PW
SGR2217100C00L	WWC3*462	03/12/92	03/12/92	94.4		5.5	03/19/92	03/24/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR2217200A00L	WWC3*463	03/12/92	03/12/92	478	6.4	03/19/92	03/24/92	PW
SGR2217200B00L	WWC3*464	03/12/92	03/12/92	541	6.2	03/19/92	03/24/92	PW
SGR2217200C00L	WWC3*465	03/12/92	03/12/92	322	5.8	03/19/92	03/24/92	PW
SGR2233100A00L	WWC3*466	03/12/92	03/12/92	332	5.6	03/19/92	03/24/92	PW
SGR2233100B00L	WWC3*467	03/12/92	03/12/92	262	5.6	03/19/92	03/24/92	PW
SGR2233100C00L	WWC3*468	03/12/92	03/12/92	97.2	5.3	03/19/92	03/24/92	PW
SGR2233100A0LD	WWC3*469	03/12/92	03/12/92	375	5.5	03/19/92	03/24/92	PW
SGR2233100B0LD	WWC3*470	03/12/92	03/12/92	268	5.5	03/19/92	03/24/92	PW
SGR2233100C0LD	WWC3*471	03/12/92	03/12/92	196	5.2	03/19/92	03/24/92	PW
SGR2263100A00L	WWC3*472	03/12/92	03/12/92	353	5.8	03/19/92	03/24/92	PW
SGR2263100B00L	WWC3*473	03/12/92	03/12/92	289	5.4	03/19/92	03/24/92	PW
SGR2263100C00L	WWC3*474	03/12/92	03/12/92	94.4	5.3	03/19/92	03/24/92	PW
SGR2263200A00L	WWC3*475	03/12/92	03/12/92	340	6.1	03/19/92	03/24/92	PW
SGR2263200B00L	WWC3*476	03/12/92	03/12/92	225	5.8	03/19/92	03/24/92	PW
SGR2263200C00L	WWC3*477	03/12/92	03/12/92	139	5.9	03/19/92	03/24/92	PW
SGR2254100A00L	WWC3*478	03/12/92	03/12/92	318	6.1	03/19/92	03/24/92	PW
SGR2254100B00L	WWC3*479	03/12/92	03/12/92	221	5.9	03/19/92	03/24/92	PW
SGR2254100C00L	WWC3*480	03/12/92	03/12/92	83.4	6.0	03/19/92	03/24/92	PW
SGR2254200A00L	WWC3*481	03/12/92	03/12/92	271	5.5	03/19/92	03/24/92	PW
SGR2254200B00L	WWC3*482	03/12/92	03/12/92	217	5.5	03/19/92	03/24/92	PW
SGR2254200C00L	WWC3*483	03/12/92	03/12/92	170	5.5	03/19/92	03/24/92	PW
SGR2248100A00L	WWC3*484	03/12/92	03/12/92	411	6.1	03/19/92	03/24/92	PW
SGR2248100B00L	WWC3*485	03/12/92	03/12/92	305	5.9	03/19/92	03/24/92	PW
SGR2248100C00L	WWC3*486	03/12/92	03/12/92	130	5.7	03/19/92	03/24/92	PW
SGR2248200A00L	WWC3*487	03/12/92	03/12/92	197	6.0	03/19/92	03/24/92	PW
SGR2248200B00L	WWC3*488	03/12/92	03/12/92	159	5.8	03/19/92	03/24/92	PW
SGR2248200C00L	WWC3*489	03/12/92	03/12/92	379	5.8	03/19/92	03/24/92	PW
SDE2205100A00L	WWC3*490	03/13/92	03/13/92	423	6.1	03/19/92	03/24/92	PW
SDE2205100B00L	WWC3*491	03/13/92	03/13/92	354	5.5	03/19/92	03/24/92	PW
SDE2205100C00L	WWC3*492	03/13/92	03/13/92	142	5.6	03/19/92	03/24/92	PW
SDE2205200A00L	WWC3*493	03/13/92	03/13/92	641	6.2	03/19/92	03/24/92	PW
SDE2205200B00L	WWC3*494	03/13/92	03/13/92	560	5.9	03/19/92	03/24/92	PW
SDE2205200C00L	WWC3*495	03/13/92	03/13/92	169	5.8	03/19/92	03/24/92	PW
SDE2206100A00L	WWC3*496	03/13/92	03/13/92	473	6.3	03/19/92	03/24/92	PW
SDE2206100B00L	WWC3*497	03/13/92	03/13/92	197	5.9	03/19/92	03/24/92	PW
SDE2206100C00L	WWC3*498	03/13/92	03/13/92	55.2	5.5	03/19/92	03/24/92	PW
SDE2218100A00L	WWC3*499	03/13/92	03/13/92	477	6.0	03/19/92	03/24/92	PW
SDE2218100B00L	WWC3*500 J	03/13/92	03/13/92	199 J	5.7	03/19/92	03/24/92	PW
SDE2218100C00L	WWC3*501	03/13/92	03/13/92	51.5	5.7	03/19/92	03/24/92	PW
SDE2218200A00L	WWC3*502	03/13/92	03/13/92	211	5.8	03/19/92	03/24/92	PW
SDE2218200B00L	WWC3*503	03/13/92	03/13/92	226	5.8	03/19/92	03/24/92	PW
SDE2218200C00L	WWC3*504	03/13/92	03/13/92	74.4	5.7	03/19/92	03/24/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE2206200A00L	WWC3*505	03/13/92	03/13/92	901	5.8	03/19/92	03/24/92	PW
SDE2206200B00L	WWC3*506	03/13/92	03/13/92	440	5.5	03/19/92	03/24/92	PW
SDE2206200C00L	WWC3*507	03/13/92	03/13/92	83.8	5.5	03/19/92	03/24/92	PW
SDE2227100A00L	WWC3*508	03/13/92	03/13/92	247	5.8	03/19/92	03/24/92	PW
SDE2227100B00L	WWC3*509	03/13/92	03/13/92	222	5.9	03/19/92	03/24/92	PW
SDE2227100C00L	WWC3*510	03/13/92	03/13/92	268	5.5	03/19/92	03/24/92	PW
SDE2227200A00L	WWC3*511	03/13/92	03/13/92	203	5.6	03/19/92	03/24/92	PW
SDE2227200B00L	WWC3*512	03/13/92	03/13/92	129	5.5	03/19/92	03/24/92	PW
SDE2227200C00L	WWC3*513	03/13/92	03/13/92	118	5.4	03/19/92	03/24/92	PW
SDE2233100A00L	WWC3*514	03/13/92	03/13/92	434	6.2	03/19/92	03/24/92	PW
SDE2233100B00L	WWC3*515	03/13/92	03/13/92	301	5.7	03/19/92	03/24/92	PW
SDE2233100C00L	WWC3*516	03/13/92	03/13/92	196	5.6	03/19/92	03/24/92	PW
SDE2233200A00L	WWC3*517	03/13/92	03/13/92	287	6.0	03/19/92	03/24/92	PW
SDE2233200B00L	WWC3*518	03/13/92	03/13/92	264	5.8	03/19/92	03/24/92	PW
SDE2233200C00L	WWC3*519	03/13/92	03/13/92	584	6.1	03/19/92	03/24/92	PW
SDE2234100A00L	WWC3*520 J	03/13/92	03/13/92	1190 J	6.1	03/19/92	03/24/92	PW
SDE2234100B00L	WWC3*521	03/13/92	03/13/92	485	5.8	03/19/92	03/24/92	PW
SDE2234100C00L	WWC3*522	03/13/92	03/13/92	113	6.0	03/19/92	03/24/92	PW
SDE2234200A00L	WWC3*523	03/13/92	03/13/92	383	6.3	03/19/92	03/24/92	PW
SDE2234200B00L	WWC3*524	03/13/92	03/13/92	243	6.2	03/19/92	03/24/92	PW
SDE2234200C00L	WWC3*525	03/13/92	03/13/92	112	6.3	03/19/92	03/24/92	PW
SGR1414100A00L	WWC3*526	03/16/92	03/16/92	1550	6.0	03/19/92	03/24/92	PW
SGR1414100B00L	WWC3*527	03/16/92	03/16/92	1120	5.7	03/19/92	03/24/92	PW
SGR1414100C00L	WWC3*528	03/16/92	03/16/92	704	6.1	03/19/92	03/24/92	PW
SGR1414200A00L	WWC3*529	03/16/92	03/16/92	929	5.8	03/19/92	03/24/92	PW
SGR1414200B00L	WWC3*530	03/16/92	03/16/92	626	5.7	03/19/92	03/24/92	PW
SGR1414200C00L	WWC3*531	03/16/92	03/16/92	270	5.8	03/19/92	03/24/92	PW
SGR1410100A00L	WWC3*532	03/16/92	03/16/92	2730	5.8	03/19/92	03/24/92	PW
SGR1410100B00L	WWC3*533	03/16/92	03/16/92	1720	5.4	03/19/92	03/24/92	PW
SGR1410100C00L	WWC3*534	03/16/92	03/16/92	1730	5.8	03/19/92	03/24/92	PW
SGR1410200A00L	WWC3*535	03/16/92	03/16/92	1420	5.9	03/19/92	03/24/92	PW
SGR1410200B00L	WWC3*536	03/16/92	03/16/92	1190	5.7	03/19/92	03/24/92	PW
SGR1410200C00L	WWC3*537	03/16/92	03/16/92	1180	6.0	03/19/92	03/24/92	PW
SGR1412100A00L	WWC3*538	03/16/92	03/16/92	1020	5.9	03/19/92	03/24/92	PW
SGR1412100B00L	WWC3*539	03/16/92	03/16/92	476	5.7	03/19/92	03/24/92	PW
SGR1412100C00L	WWC3*540	03/16/92	03/16/92	367	5.8	03/19/92	03/24/92	PW
SGR1412200A00L	WWC3*541	03/16/92	03/16/92	627	6.2	03/19/92	03/24/92	PW
SGR1412200B00L	WWC3*542	03/16/92	03/16/92	1610	5.8	03/19/92	03/24/92	PW
SGR1412200C00L	WWC3*543	03/16/92	03/16/92	665	5.8	03/19/92	03/24/92	PW
SGR1422100A00L	WWC3*544	03/16/92	03/16/92	1980	6.1	03/19/92	03/24/92	PW
SGR1422100B00L	WWC3*545	03/16/92	03/16/92	936	6.1	03/19/92	03/24/92	PW
SGR1422100C00L	WWC3*546	03/16/92	03/16/92	549	6.1	03/19/92	03/24/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR1422200A00L	WWC3*547	03/16/92	03/16/92	2320	6.4	03/19/92	03/24/92	PW
SGR1422200B00L	WWC3*548	03/16/92	03/16/92	2250	6.3	03/19/92	03/24/92	PW
SGR1422200C00L	WWC3*549	03/16/92	03/16/92	737	6.4	03/19/92	03/24/92	PW
SGR1443100A00L	WWC3*550	03/16/92	03/16/92	1970	6.0	03/19/92	03/24/92	PW
SGR1443100B00L	WWC3*551	03/16/92	03/16/92	907	5.9	03/19/92	03/24/92	PW
SGR1443100C00L	WWC3*552	03/16/92	03/16/92	666	6.0	03/19/92	03/24/92	PW
SGR1423100A00L	WWC3*553	03/16/92	03/16/92	1580	6.4	03/19/92	03/24/92	PW
SGR1423100B00L	WWC3*554	03/16/92	03/16/92	711	5.9	03/19/92	03/24/92	PW
SGR1423100C00L	WWC3*555	03/16/92	03/16/92	1470	5.8	03/19/92	03/24/92	PW
SGR1423200A00L	WWC3*556	03/16/92	03/16/92	981	6.1	03/19/92	03/24/92	PW
SGR1423200B00L	WWC3*557	03/16/92	03/16/92	622	5.9	03/19/92	03/24/92	PW
SGR1423200C00L	WWC3*558	03/16/92	03/16/92	1480	6.5	03/19/92	03/24/92	PW
SGR1424100A00L	WWC3*559	03/16/92	03/16/92	1520	5.9	03/19/92	03/24/92	PW
SGR1424100B00L	WWC3*560	03/16/92	03/16/92	1030	6.2	03/19/92	03/24/92	PW
SGR1424100C00L	WWC3*561	03/16/92	03/16/92	355	5.9	03/23/92	03/25/92	PW
SGR1424200A00L	WWC3*562	03/16/92	03/16/92	1650	6.3	03/23/92	03/25/92	PW
SGR1424200B00L	WWC3*563	03/16/92	03/16/92	1400	6.5	03/23/92	03/25/92	PW
SGR1424200C00L	WWC3*564	03/16/92	03/16/92	712	6.7	03/23/92	03/25/92	PW
SGR1425100A00L	WWC3*565	03/16/92	03/16/92	2580	6.5	03/23/92	03/25/92	PW
SGR1425100B00L	WWC3*566	03/16/92	03/16/92	1610	5.9	03/23/92	03/25/92	PW
SGR1425100C00L	WWC3*567	03/16/92	03/16/92	953	6.2	03/23/92	03/25/92	PW
SGR1425200A00L	WWC3*568	03/16/92	03/16/92	1160	5.8	03/23/92	03/25/92	PW
SGR1425200B00L	WWC3*569	03/16/92	03/16/92	932	5.9	03/23/92	03/25/92	PW
SGR1425200C00L	WWC3*570	03/16/92	03/16/92	527	5.9	03/23/92	03/25/92	PW
SGR1437100A00L	WWC3*571	03/16/92	03/16/92	1460	6.2	03/23/92	03/25/92	PW
SGR1437100B00L	WWC3*572	03/16/92	03/16/92	1350	6.0	03/23/92	03/25/92	PW
SGR1437100C00L	WWC3*573	03/16/92	03/16/92	750	5.3	03/23/92	03/25/92	PW
SGR1437200A00L	WWC3*574	03/16/92	03/16/92	1950	6.3	03/23/92	03/25/92	PW
SGR1437200B00L	WWC3*575	03/16/92	03/16/92	1550	5.9	03/23/92	03/25/92	PW
SGR1437200C00L	WWC3*576	03/16/92	03/16/92	1100	5.7	03/23/92	03/25/92	PW
SGR1440100A00L	WWC3*577	03/16/92	03/16/92	1350	5.8	03/23/92	03/25/92	PW
SGR1440100B00L	WWC3*578	03/16/92	03/16/92	974	5.6	03/23/92	03/25/92	PW
SGR1440100C00L	WWC3*579	03/16/92	03/16/92	795	5.7	03/23/92	03/25/92	PW
SGR1442100A00L	WWC3*580 J	03/16/92	03/16/92	1750 J	6.2	03/23/92	03/25/92	PW
SGR1442100B00L	WWC3*581	03/16/92	03/16/92	1480	6.3	03/23/92	03/25/92	PW
SGR1442100C00L	WWC3*582	03/16/92	03/16/92	1410	5.8	03/23/92	03/25/92	PW
SGR1442200A00L	WWC3*583	03/16/92	03/16/92	697	6.0	03/23/92	03/25/92	PW
SGR1442200B00L	WWC3*584	03/16/92	03/16/92	1920	6.1	03/23/92	03/25/92	PW
SGR1442200C00L	WWC3*585	03/16/92	03/16/92	845	6.3	03/23/92	03/25/92	PW
SGR1714100A00L	WWC3*586	03/17/92	03/17/92	876	5.8	03/23/92	03/25/92	PW
SGR1714100B00L	WWC3*587	03/17/92	03/17/92	765	6.1	03/23/92	03/25/92	PW
SGR1714100C00L	WWC3*588	03/17/92	03/17/92	449	6.0	03/23/92	03/25/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SGR2127100A00L	WWC3*589	03/17/92	03/17/92	845	5.8	03/23/92	03/25/92	PW
SGR2127100B00L	WWC3*590	03/17/92	03/17/92	709	5.9	03/23/92	03/25/92	PW
SGR2127100C00L	WWC3*591	03/17/92	03/17/92	330	5.6	03/23/92	03/25/92	PW
SGR2127200A00L	WWC3*592	03/17/92	03/17/92	583	5.8	03/23/92	03/25/92	PW
SGR2127200B00L	WWC3*593	03/17/92	03/17/92	572	5.5	03/23/92	03/25/92	PW
SGR2127200C00L	WWC3*594	03/17/92	03/17/92	349	5.9	03/23/92	03/25/92	PW
SGR2139100A00L	WWC3*595	03/17/92	03/17/92	412	6.0	03/23/92	03/25/92	PW
SGR2139100B00L	WWC3*596	03/17/92	03/17/92	381	5.8	03/23/92	03/25/92	PW
SGR2139100C00L	WWC3*597	03/17/92	03/17/92	235	5.6	03/23/92	03/25/92	PW
SDE2147100A0LD	WWC3*598	03/17/92	03/17/92	1370	6.0	03/23/92	03/25/92	PW
SDE2147100B0LD	WWC3*599	03/17/92	03/17/92	1250	6.0	03/23/92	03/25/92	PW
SDE2147100C0LD	WWC3*600	03/17/92	03/17/92	393	5.9	03/23/92	03/25/92	PW
SDE2147100A00L	WWC3*601	03/17/92	03/17/92	1420	5.7	03/23/92	03/25/92	PW
SDE2147100B00L	WWC3*602	03/17/92	03/17/92	1160	5.7	03/23/92	03/25/92	PW
SDE2147100C00L	WWC3*603	03/17/92	03/17/92	275	5.8	03/23/92	03/25/92	PW
SDE2147200A00L	WWC3*604	03/17/92	03/17/92	964	5.7	03/23/92	03/25/92	PW
SDE2147200B00L	WWC3*605	03/17/92	03/17/92	1030	5.8	03/23/92	03/25/92	PW
SDE2147200C00L	WWC3*606	03/17/92	03/17/92	425	5.8	03/23/92	03/25/92	PW
SDE2157100A00L	WWC3*607	03/17/92	03/17/92	466	5.6	03/23/92	03/25/92	PW
SDE2157100B00L	WWC3*608	03/17/92	03/17/92	224	5.7	03/23/92	03/25/92	PW
SDE2157100C00L	WWC3*609	03/17/92	03/17/92	134	5.3	03/23/92	03/25/92	PW
SDE2157100A0LD	WWC3*610	03/17/92	03/17/92	477	5.8	03/23/92	03/25/92	PW
SDE2157100B0LD	WWC3*611	03/17/92	03/17/92	251	5.8	03/23/92	03/25/92	PW
SDE2157100C0LD	WWC3*612	03/17/92	03/17/92	120	5.6	03/23/92	03/25/92	PW
SDE2157200A00L	WWC3*613	03/17/92	03/17/92	426	5.7	03/23/92	03/25/92	PW
SDE2157200B00L	WWC3*614	03/17/92	03/17/92	289	5.7	03/23/92	03/25/92	PW
SDE2157200C00L	WWC3*615	03/17/92	03/17/92	132	5.8	03/23/92	03/25/92	PW
SDE2153100A00L	WWC3*616	03/17/92	03/17/92	292	5.8	03/23/92	03/25/92	PW
SDE2153100B00L	WWC3*617	03/17/92	03/17/92	232	5.8	03/23/92	03/25/92	PW
SDE2153100C00L	WWC3*618	03/17/92	03/17/92	113	5.7	03/23/92	03/25/92	PW
SDE2153100A0LD	WWC3*619	03/17/92	03/17/92	307	5.7	03/23/92	03/25/92	PW
SDE2153100B0LD	WWC3*620	03/17/92	03/17/92	244	5.9	03/23/92	03/25/92	PW
SDE2153100C0LD	WWC3*621	03/17/92	03/17/92	101	6.1	03/25/92	04/06/92	PW
SDE2153200A00L	WWC3*622	03/17/92	03/17/92	371	5.8	03/25/92	04/06/92	PW
SDE2153200B00L	WWC3*623	03/17/92	03/17/92	398	5.8	03/25/92	04/06/92	PW
SDE2153200C00L	WWC3*624	03/17/92	03/17/92	186	5.5	03/25/92	04/06/92	PW
SDE2262100A00L	WWC3*625	03/17/92	03/17/92	416	6.0	03/25/92	04/06/92	PW
SDE2262100B00L	WWC3*626	03/17/92	03/17/92	331	5.7	03/25/92	04/06/92	PW
SDE2262100C00L	WWC3*627	03/17/92	03/17/92	176	5.7	03/25/92	04/06/92	PW
SDE2262200A00L	WWC3*628	03/17/92	03/17/92	536	5.4	03/25/92	04/06/92	PW
SDE2262200B00L	WWC3*629	03/17/92	03/17/92	463	5.8	03/25/92	04/06/92	PW
SDE2262200C00L	WWC3*630	03/17/92	03/17/92	111	5.7	03/25/92	04/06/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SDE2260100A00L	WWC3*631	03/17/92	03/17/92	512	6.1	03/25/92	04/06/92	PW
SDE2260100B00L	WWC3*632	03/17/92	03/17/92	368	5.6	03/25/92	04/06/92	PW
SDE2260100C00L	WWC3*633	03/17/92	03/17/92	118	5.7	03/25/92	04/06/92	PW
SDE2260200A00L	WWC3*634	03/17/92	03/17/92	645	6.4	03/25/92	04/06/92	PW
SDE2260200B00L	WWC3*635	03/17/92	03/17/92	494	5.9	03/25/92	04/06/92	PW
SDE2260200C00L	WWC3*636	03/17/92	03/17/92	406	6.1	04/16/92	05/11/92	PW
SDE2258100A00L	WWC3*637	03/17/92	03/17/92	762	6.3	04/16/92	05/11/92	PW
SDE2258100B00L	WWC3*638	03/17/92	03/17/92	477	6.1	04/16/92	05/11/92	PW
SDE2258100C00L	WWC3*639	03/17/92	03/17/92	192	5.8	04/16/92	05/11/92	PW
SDE2258200A00L	WWC3*640	03/17/92	03/17/92	229	5.8	03/25/92	04/06/92	PW
SDE2258200B00L	WWC3*641	03/17/92	03/17/92	230	6.0	03/25/92	04/06/92	PW
SDE2258200C00L	WWC3*642	03/17/92	03/17/92	344	5.9	03/25/92	04/06/92	PW
SDE2245100A00L	WWC3*643	03/17/92	03/17/92	487	5.8	03/25/92	04/06/92	PW
SDE2245100B00L	WWC3*644	03/17/92	03/17/92	433	5.8	03/25/92	04/06/92	PW
SDE2245100C00L	WWC3*645	03/17/92	03/17/92	253	5.5	03/25/92	04/06/92	PW
SDE2245200A00L	WWC3*646	03/17/92	03/17/92	365	5.8	03/25/92	04/06/92	PW
SDE2245200B00L	WWC3*647	03/17/92	03/17/92	431	5.7	03/25/92	04/06/92	PW
SDE2245200C00L	WWC3*648	03/17/92	03/17/92	353	5.5	03/25/92	04/06/92	PW
SDE2247100A00L	WWC3*649	03/17/92	03/17/92	1210	5.9	03/25/92	04/06/92	PW
SDE2247100B00L	WWC3*650	03/17/92	03/17/92	706	5.8	03/25/92	04/06/92	PW
SDE2247100C00L	WWC3*651	03/17/92	03/17/92	112	6.1	03/25/92	04/06/92	PW
SDE2247200A00L	WWC3*652	03/17/92	03/17/92	789	6.2	03/25/92	04/06/92	PW
SDE2247200B00L	WWC3*653	03/17/92	03/17/92	556	5.6	03/25/92	04/06/92	PW
SDE2247200C00L	WWC3*654	03/17/92	03/17/92	135	6.0	03/25/92	04/06/92	PW
SDE2253100A00L	WWC3*655	03/17/92	03/17/92	354	6.0	03/25/92	04/06/92	PW
SDE2253100B00L	WWC3*656	03/17/92	03/17/92	10800 D	69.8	03/25/92	04/06/92	PW
SDE2253100C00L	WWC3*657	03/17/92	03/17/92	380	5.7	03/25/92	04/06/92	PW
SDE2253200A00L	WWC3*658	03/17/92	03/17/92	337	5.5	03/25/92	04/06/92	PW
SDE2253200B00L	WWC3*659	03/17/92	03/17/92	233	5.4	03/25/92	04/06/92	PW
SDE2253200C00L	WWC3*660 J	03/17/92	03/17/92	163 J	5.8	03/25/92	04/06/92	PW
SED1642100A00L	WWC3*661	03/19/92	03/19/92	1310	6.8	03/26/92	04/06/92	PW
SED1642100B00L	WWC3*662	03/19/92	03/19/92	1060	6.5	03/26/92	04/06/92	PW
SED1642100C00L	WWC3*663	03/19/92	03/19/92	317	6.2	03/26/92	04/06/92	PW
SED1642200A00L	WWC3*664	03/19/92	03/19/92	598	5.9	03/26/92	04/06/92	PW
SED1642200B00L	WWC3*665	03/19/92	03/19/92	1340	6.4	03/26/92	04/06/92	PW
SED1642200C00L	WWC3*666	03/19/92	03/19/92	791	5.9	03/26/92	04/06/92	PW
SED1700100A00L	WWC3*667	03/19/92	03/19/92	1130	6.7	03/26/92	04/06/92	PW
SED1700100B00L	WWC3*668	03/19/92	03/19/92	1380	6.2	03/26/92	05/11/92	PW
SED1700100C00L	WWC3*669	03/19/92	03/19/92	515	6.1	03/26/92	05/11/92	PW
SED1700200A00L	WWC3*670	03/19/92	03/19/92	1260	6.1	03/26/92	05/11/92	PW
SED1700200B00L	WWC3*671	03/19/92	03/19/92	705	6.4	03/26/92	04/07/92	PW
SED1700200C00L	WWC3*672	03/19/92	03/19/92	400	6.1	03/26/92	04/07/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SED1701100A00L	WWC3*673	03/19/92	03/19/92	971	6.0	03/26/92	04/07/92	PW
SED1701100B00L	WWC3*674	03/19/92	03/19/92	789	6.1	03/26/92	04/07/92	PW
SED1701100C00L	WWC3*675	03/19/92	03/19/92	1130	5.9	03/26/92	04/07/92	PW
SED1701200A00L	WWC3*676	03/19/92	03/19/92	881	6.0	03/26/92	04/07/92	PW
SED1701200B00L	WWC3*677	03/19/92	03/19/92	560	6.0	03/26/92	04/07/92	PW
SED1701200C00L	WWC3*678	03/19/92	03/19/92	304	6.5	03/26/92	04/07/92	PW
SED1708100A00L	WWC3*679	03/19/92	03/19/92	1120	6.3	03/26/92	04/07/92	PW
SED1708100B00L	WWC3*680	03/19/92	03/19/92	838	6.1	03/26/92	04/06/92	PW
SED1708100C00L	WWC3*681	03/19/92	03/19/92	217	6.0	03/26/92	04/07/92	PW
SED1708200A00L	WWC3*682	03/19/92	03/19/92	993	6.0	03/26/92	04/07/92	PW
SED1708200B00L	WWC3*683	03/19/92	03/19/92	1800	6.2	03/26/92	04/07/92	PW
SED1708200C00L	WWC3*684	03/19/92	03/19/92	1020	6.3	03/26/92	04/07/92	PW
SED1720100A00L	WWC3*685	03/19/92	03/19/92	907	6.3	03/26/92	04/07/92	PW
SED1720100B00L	WWC3*686	03/19/92	03/19/92	922	6.1	03/26/92	04/07/92	PW
SED1720100C00L	WWC3*687	03/19/92	03/19/92	433	6.2	03/26/92	04/07/92	PW
SED1720200A00L	WWC3*688	03/19/92	03/19/92	1130	6.4	03/26/92	04/07/92	PW
SED1720200B00L	WWC3*689	03/19/92	03/19/92	776	6.3	03/26/92	04/07/92	PW
SED1720200C00L	WWC3*690	03/19/92	03/19/92	695	6.0	03/26/92	04/07/92	PW
SED1723100A00L	WWC3*691	03/19/92	03/19/92	561	6.0	03/26/92	04/07/92	PW
SED1723100B00L	WWC3*692	03/19/92	03/19/92	429	6.0	03/26/92	04/07/92	PW
SED1723100C00L	WWC3*693	03/19/92	03/19/92	257	5.9	03/26/92	04/07/92	PW
SED1734100A00L	WWC3*694	03/19/92	03/19/92	1480	6.3	03/26/92	04/07/92	PW
SED1734100B00L	WWC3*695	03/19/92	03/19/92	619	5.7	03/26/92	04/07/92	PW
SED1734100C00L	WWC3*696	03/19/92	03/19/92	747	5.9	03/26/92	04/07/92	PW
SED1734200A00L	WWC3*697	03/19/92	03/19/92	1120	6.6	03/26/92	04/07/92	PW
SED1734200B00L	WWC3*698	03/19/92	03/19/92	919	5.9	03/26/92	04/07/92	PW
SED1734200C00L	WWC3*699	03/19/92	03/19/92	762	5.8	03/26/92	04/07/92	PW
SED2137100A00L	WWC3*700	03/20/92	03/20/92	389	6.0	03/26/92	04/07/92	PW
SED2137100B00L	WWC3*701	03/20/92	03/20/92	393	6.0	03/26/92	04/07/92	PW
SED2137100C00L	WWC3*702	03/20/92	03/20/92	251	5.6	03/26/92	04/07/92	PW
SED2137200A00L	WWC3*703	03/20/92	03/20/92	635	6.2	03/26/92	04/07/92	PW
SED2137200B00L	WWC3*704	03/20/92	03/20/92	886	5.8	03/26/92	04/07/92	PW
SED2137200C00L	WWC3*705	03/20/92	03/20/92	297	5.9	03/26/92	04/07/92	PW
SED2144100A00L	WWC3*706	03/20/92	03/20/92	206	6.1	03/26/92	04/07/92	PW
SED2144100B00L	WWC3*707	03/20/92	03/20/92	240	5.7	03/26/92	04/07/92	PW
SED2144100C00L	WWC3*708	03/20/92	03/20/92	268	5.4	03/26/92	04/07/92	PW
SED2144200A00L	WWC3*709	03/20/92	03/20/92	650	6.4	03/26/92	04/07/92	PW
SED2144200B00L	WWC3*710	03/20/92	03/20/92	576	5.9	03/26/92	04/07/92	PW
SED2144200C00L	WWC3*711	03/20/92	03/20/92	243	6.0	03/26/92	04/07/92	PW
SED2153100A00L	WWC3*712	03/20/92	03/20/92	551	5.6	03/26/92	04/07/92	PW
SED2153100B00L	WWC3*713	03/20/92	03/20/92	599	5.6	03/26/92	04/07/92	PW
SED2153100C00L	WWC3*714	03/20/92	03/20/92	168	5.5	03/26/92	04/07/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SED2153200A00L	WWC3*715	03/20/92	03/20/92	832	5.9	03/26/92	04/07/92	PW
SED2153200B00L	WWC3*716	03/20/92	03/20/92	495	5.8	03/26/92	04/07/92	PW
SED2153200C00L	WWC3*717	03/20/92	03/20/92	335	5.6	03/26/92	04/07/92	PW
SWS2020100A00L	WWC3*718	03/20/92	03/20/92	617	6.0	03/26/92	04/07/92	PW
SWS2020100B00L	WWC3*719	03/20/92	03/20/92	670	6.2	03/26/92	04/07/92	PW
SWS2020100C00L	WWC3*720	03/20/92	03/20/92	1290 D	61.1	03/26/92	05/11/92	PW
SWS2034100A00L	WWC3*721	03/20/92	03/20/92	880	6.0	03/26/92	04/13/92	PW
SWS2034100B00L	WWC3*722	03/20/92	03/20/92	367	6.0	03/26/92	04/13/92	PW
SWS2034100C00L	WWC3*723	03/20/92	03/20/92	324	5.7	03/26/92	04/13/92	PW
SWS2034200A00L	WWC3*724	03/20/92	03/20/92	2380 D	58.1	03/26/92	04/13/92	PW
SWS2034200B00L	WWC3*725	03/20/92	03/20/92	595	6.0	03/26/92	04/13/92	PW
SWS2034200C00L	WWC3*726	03/20/92	03/20/92	712	5.9	03/26/92	04/13/92	PW
SWS2026100A00L	WWC3*727	03/20/92	03/20/92	1230	5.9	03/26/92	04/13/92	PW
SWS2026100B00L	WWC3*728	03/20/92	03/20/92	710	5.7	03/26/92	04/13/92	PW
SWS2026100C00L	WWC3*729	03/20/92	03/20/92	117	5.6	03/26/92	04/13/92	PW
SWS2026200A00L	WWC3*730	03/20/92	03/20/92	1320	6.1	03/26/92	04/13/92	PW
SWS2026200B00L	WWC3*731	03/20/92	03/20/92	402	5.6	03/26/92	04/13/92	PW
SWS2026200C00L	WWC3*732	03/20/92	03/20/92	117	5.7	03/26/92	04/13/92	PW
SWS2024100A00L	WWC3*733	03/20/92	03/20/92	451	6.0	03/26/92	04/13/92	PW
SWS2024100B00L	WWC3*734	03/20/92	03/20/92	430	5.7	03/26/92	04/13/92	PW
SWS2024100C00L	WWC3*735	03/20/92	03/20/92	236	5.6	03/26/92	04/13/92	PW
SOL1650100A00L	WWC3*736	03/20/92	03/20/92	455	6.2	03/26/92	04/13/92	PW
SOL1650100B00L	WWC3*737	03/20/92	03/20/92	345	5.7	03/26/92	04/13/92	PW
SOL1650100C00L	WWC3*738	03/20/92	03/20/92	593	5.6	03/26/92	04/13/92	PW
SOL1650200A00L	WWC3*739	03/20/92	03/20/92	523	5.8	03/26/92	04/13/92	PW
SOL1650200B00L	WWC3*740	03/20/92	03/20/92	223	5.8	03/26/92	04/13/92	PW
SOL1650200C00L	WWC3*741	03/20/92	03/20/92	159	6.0	03/26/92	04/13/92	PW
SOL1635100A00L	WWC3*742	03/20/92	03/20/92	734	6.0	03/26/92	04/13/92	PW
SOL1635100B00L	WWC3*743	03/20/92	03/20/92	1010	5.9	03/26/92	04/13/92	PW
SOL1635100C00L	WWC3*744	03/20/92	03/20/92	312	5.9	03/26/92	04/13/92	PW
SOL1635100A0LD	WWC3*745	03/20/92	03/20/92	555	6.1	03/26/92	04/13/92	PW
SOL1635100B0LD	WWC3*746	03/20/92	03/20/92	673	6.0	03/26/92	04/13/92	PW
SOL1635100C0LD	WWC3*747	03/20/92	03/20/92	324	5.9	03/26/92	04/13/92	PW
SOL1631100A00L	WWC3*748	03/20/92	03/20/92	2300	6.0	03/26/92	04/13/92	PW
SOL1631100B00L	WWC3*749	03/20/92	03/20/92	849	6.4	03/26/92	04/13/92	PW
SOL1631100C00L	WWC3*750	03/20/92	03/20/92	293	6.1	03/26/92	04/13/92	PW
SOL1631100A0LD	WWC3*751	03/20/92	03/20/92	1820	6.0	03/26/92	04/13/92	PW
SOL1631100B0LD	WWC3*752	03/20/92	03/20/92	617	6.0	03/26/92	04/13/92	PW
SOL1631100C0LD	WWC3*753	03/20/92	03/20/92	443	6.2	03/26/92	04/13/92	PW
SOL1633100A00L	WWC3*754	03/20/92	03/20/92	502	5.9	03/26/92	04/13/92	PW
SOL1633100B00L	WWC3*755	03/20/92	03/20/92	209	5.6	03/26/92	04/13/92	PW
SOL1633100C00L	WWC3*756	03/20/92	03/20/92	151	5.8	03/26/92	04/13/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SOL1633200A00L	WWC3*757	03/20/92	03/20/92	135	6.3	03/26/92	04/13/92	PW
SOL1633200B00L	WWC3*758	03/20/92	03/20/92	50.4	6.0	03/26/92	04/13/92	PW
SOL1633200C00L	WWC3*759	03/20/92	03/20/92	60.7	5.7	03/26/92	04/13/92	PW
SOL1635200A00L	WWC3*760	03/20/92	03/20/92	1250	6.0	03/26/92	04/13/92	PW
SOL1635200B00L	WWC3*761	03/20/92	03/20/92	779	5.8	03/26/92	04/13/92	PW
SOL1635200C00L	WWC3*762	03/20/92	03/20/92	1430	6.1	03/26/92	04/13/92	PW
SWS2024200A00L	WWC3*763	03/20/92	03/20/92	1960	6.2	03/26/92	04/13/92	PW
SWS2024200B00L	WWC3*764	03/20/92	03/20/92	261	5.8	03/26/92	04/13/92	PW
SWS2024200C00L	WWC3*765	03/20/92	03/20/92	114	6.0	03/26/92	04/13/92	PW
SLE2027100A00L	WWC3*766	03/23/92	03/23/92	657	6.5	03/26/92	04/13/92	PW
SLE2027100B00L	WWC3*767	03/23/92	03/23/92	530	6.2	03/26/92	04/13/92	PW
SLE2027100C00L	WWC3*768	03/23/92	03/23/92	468	6.0	03/26/92	04/13/92	PW
SLE2027200A00L	WWC3*769	03/23/92	03/23/92	1220	6.5	03/26/92	04/13/92	PW
SLE2027200B00L	WWC3*770	03/23/92	03/23/92	900	6.1	03/26/92	04/13/92	PW
SLE2027200C00L	WWC3*771	03/23/92	03/23/92	675	6.0	03/26/92	04/13/92	PW
SLE2123100A00L	WWC3*772	03/23/92	03/23/92	300	5.6	03/26/92	04/13/92	PW
SLE2123100B00L	WWC3*773	03/23/92	03/23/92	141	6.1	03/26/92	04/13/92	PW
SLE2123100C00L	WWC3*774	03/23/92	03/23/92	161	5.8	03/26/92	04/13/92	PW
SLE2123200A00L	WWC3*775	03/23/92	03/23/92	641	5.4	03/26/92	04/13/92	PW
SLE2123200B00L	WWC3*776	03/23/92	03/23/92	516	5.4	03/26/92	04/13/92	PW
SLE2123200C00L	WWC3*777	03/23/92	03/23/92	768	6.1	03/26/92	04/13/92	PW
SLE2127100A00L	WWC3*778	03/23/92	03/23/92	909	6.1	03/26/92	04/13/92	PW
SLE2127100B00L	WWC3*779	03/23/92	03/23/92	932	5.7	03/26/92	04/13/92	PW
SLE2127100C00L	WWC3*780	03/23/92	03/23/92	184	6.0	03/26/92	04/13/92	PW
SLE2127200A00L	WWC3*781	03/23/92	03/23/92	572	6.3	03/27/92	04/13/92	PW
SLE2127200B00L	WWC3*782	03/23/92	03/23/92	529	5.9	03/27/92	04/13/92	PW
SLE2127200C00L	WWC3*783	03/23/92	03/23/92	741	6.3	03/27/92	04/13/92	PW
SLE2149100A00L	WWC3*784	03/23/92	03/23/92	733	5.9	03/27/92	04/13/92	PW
SLE2149100B00L	WWC3*785	03/23/92	03/23/92	686	6.1	03/27/92	04/13/92	PW
SLE2149100C00L	WWC3*786	03/23/92	03/23/92	612	5.6	03/27/92	04/13/92	PW
SLE2149200A00L	WWC3*787	03/23/92	03/23/92	337	5.5	03/27/92	04/13/92	PW
SLE2149200B00L	WWC3*788	03/23/92	03/23/92	696	5.7	03/27/92	04/13/92	PW
SLE2149200C00L	WWC3*789	03/23/92	03/23/92	114	5.8	03/27/92	04/13/92	PW
SLE2147100A00L	WWC3*790	03/23/92	03/23/92	849	6.1	03/27/92	04/13/92	PW
SLE2147100B00L	WWC3*791	03/23/92	03/23/92	816	6.0	03/27/92	04/13/92	PW
SLE2147100C00L	WWC3*792	03/23/92	03/23/92	296	6.0	03/27/92	04/13/92	PW
SLE2147200A00L	WWC3*793	03/23/92	03/23/92	752	6.0	03/27/92	04/13/92	PW
SLE2147200B00L	WWC3*794	03/23/92	03/23/92	586	5.8	03/27/92	04/13/92	PW
SLE2147200C00L	WWC3*795	03/23/92	03/23/92	310	5.7	03/27/92	04/13/92	PW
SLE2145100A00L	WWC3*796	03/23/92	03/23/92	422	6.3	03/27/92	04/13/92	PW
SLE2145100B00L	WWC3*797	03/23/92	03/23/92	347	5.8	03/27/92	04/13/92	PW
SLE2145100C00L	WWC3*798	03/23/92	03/23/92	189	5.9	03/27/92	04/13/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SLE2145200A00L	WWC3*799	03/23/92	03/23/92	399	6.0	03/27/92	04/13/92	PW
SLE2145200B00L	WWC3*800	03/23/92	03/23/92	385	6.0	03/27/92	04/13/92	PW
SLE2145200C00L	WWC3*801	03/23/92	03/23/92	276	5.9	03/27/92	04/13/92	PW
SST2158100A00L	WWC3*802	03/23/92	03/23/92	139	6.1	03/27/92	04/13/92	PW
SST2158100B00L	WWC3*803	03/23/92	03/23/92	578	6.4	03/27/92	04/13/92	PW
SST2158100C00L	WWC3*804	03/23/92	03/23/92	402	6.3	03/27/92	04/13/92	PW
SST2158200A00L	WWC3*805	03/23/92	03/23/92	209	6.2	03/27/92	04/13/92	PW
SST2158200B00L	WWC3*806	03/23/92	03/23/92	555	6.6	03/27/92	04/13/92	PW
SST2158200C00L	WWC3*807	03/23/92	03/23/92	291	6.3	03/27/92	04/13/92	PW
SST2132100A00L	WWC3*808	03/23/92	03/23/92	147	6.1	03/27/92	04/13/92	PW
SST2132100B00L	WWC3*809	03/23/92	03/23/92	15.6	6.0	03/27/92	04/13/92	PW
SST2132100C00L	WWC3*810	03/23/92	03/23/92	6.0	6.0	03/27/92	04/13/92	PW
SST2132200A00L	WWC3*811	03/23/92	03/23/92	261	5.9	03/27/92	04/13/92	PW
SST2132200B00L	WWC3*812	03/23/92	03/23/92	83.0	6.3	03/27/92	04/13/92	PW
SST2132200C00L	WWC3*813	03/23/92	03/23/92	12.7	6.3	03/27/92	04/13/92	PW
SST2135100A00L	WWC3*814	03/23/92	03/23/92	39.3	5.8	03/27/92	04/13/92	PW
SST2135100B00L	WWC3*815	03/23/92	03/23/92	563	5.8	03/27/92	04/13/92	PW
SST2135100C00L	WWC3*816	03/23/92	03/23/92	127	6.2	03/27/92	04/13/92	PW
SST2135200A00L	WWC3*817	03/23/92	03/23/92	308	6.0	03/27/92	04/13/92	PW
SST2135200B00L	WWC3*818	03/23/92	03/23/92	269	5.9	03/27/92	04/13/92	PW
SST2135200C00L	WWC3*819	03/23/92	03/23/92	121	6.1	03/27/92	04/13/92	PW
SST2148100A00L	WWC3*820	03/23/92	03/23/92	441	6.4	03/27/92	05/11/92	PW
SST2148100B00L	WWC3*821	03/23/92	03/23/92	326	6.1	03/27/92	04/13/92	PW
SST2148100C00L	WWC3*822	03/23/92	03/23/92	200	6.2	03/27/92	04/13/92	PW
SST2101100A00L	WWC3*823	03/23/92	03/23/92	215	5.9	03/27/92	04/13/92	PW
SST2101100B00L	WWC3*824	03/23/92	03/23/92	151	6.0	03/27/92	04/13/92	PW
SST2101100C00L	WWC3*825	03/23/92	03/23/92	130	5.9	03/27/92	04/13/92	PW
SST2101200A00L	WWC3*826	03/23/92	03/23/92	299	5.8	03/27/92	04/13/92	PW
SST2101200B00L	WWC3*827	03/23/92	03/23/92	279	5.9	03/27/92	04/13/92	PW
SST2101200C00L	WWC3*828	03/23/92	03/23/92	163	5.6	03/27/92	04/13/92	PW
SST2118100A00L	WWC3*829	03/23/92	03/23/92	364	6.0	03/27/92	04/13/92	PW
SST2118100B00L	WWC3*830	03/23/92	03/23/92	345	6.3	03/27/92	04/13/92	PW
SST2118100C00L	WWC3*831	03/23/92	03/23/92	269	6.0	03/27/92	04/13/92	PW
SST2118200A00L	WWC3*832	03/23/92	03/23/92	963	5.5	03/27/92	04/13/92	PW
SST2118200B00L	WWC3*833	03/23/92	03/23/92	692	6.0	03/27/92	04/13/92	PW
SST2118200C00L	WWC3*834	03/23/92	03/23/92	283	5.6	03/27/92	04/13/92	PW
SST2119100A00L	WWC3*835	03/23/92	03/23/92	605	6.1	03/27/92	04/13/92	PW
SST2119100B00L	WWC3*836	03/23/92	03/23/92	578	6.0	03/27/92	04/13/92	PW
SST2119100C00L	WWC3*837	03/23/92	03/23/92	424	5.8	03/27/92	04/13/92	PW
SST2119200A00L	WWC3*838	03/23/92	03/23/92	640	6.1	03/27/92	04/13/92	PW
SST2119200B00L	WWC3*839	03/23/92	03/23/92	512	6.0	03/27/92	04/13/92	PW
SST2119200C00L	WWC3*840	03/23/92	03/24/92	349	6.0	03/27/92	04/13/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SNI0931100A00L	WWC3*841	03/24/92	03/24/92	616	5.9	03/30/92	04/13/92	PW
SNI0931100B00L	WWC3*842	03/24/92	03/24/92	481	5.8	03/30/92	04/13/92	PW
SNI0931100C00L	WWC3*843	03/24/92	03/24/92	519	6.2	03/30/92	04/13/92	PW
SNI0929100A00L	WWC3*844	03/24/92	03/24/92	971	6.0	03/30/92	04/13/92	PW
SNI0929100B00L	WWC3*845	03/24/92	03/24/92	804	5.9	03/30/92	04/13/92	PW
SNI0929100C00L	WWC3*846	03/24/92	03/24/92	436	6.0	03/30/92	04/13/92	PW
SWA1751100A00L	WWC3*847	03/24/92	03/24/92	457	6.2	03/30/92	04/13/92	PW
SWA1751100B00L	WWC3*848	03/24/92	03/24/92	432	6.0	03/30/92	04/13/92	PW
SWA1751100C00L	WWC3*849	03/24/92	03/24/92	316	5.7	03/30/92	04/13/92	PW
SWA1751200A00L	WWC3*850	03/24/92	03/24/92	855	5.7	03/30/92	04/13/92	PW
SWA1751200B00L	WWC3*851	03/24/92	03/24/92	823	5.4	03/30/92	04/13/92	PW
SWA1751200C00L	WWC3*852	03/24/92	03/24/92	1900	5.7	03/30/92	04/13/92	PW
SWA1745100A00L	WWC3*853	03/24/92	03/24/92	912	5.9	03/30/92	04/13/92	PW
SWA1745100B00L	WWC3*854	03/24/92	03/24/92	563	5.8	03/30/92	04/13/92	PW
SWA1745100C00L	WWC3*855	03/24/92	03/24/92	453	5.8	03/30/92	04/13/92	PW
SWA1745100A0LD	WWC3*856	03/24/92	03/24/92	996	6.0	03/30/92	04/13/92	PW
SWA1745100B0LD	WWC3*857	03/24/92	03/24/92	527	5.5	03/30/92	04/13/92	PW
SWA1745100C0LD	WWC3*858	03/24/92	03/24/92	442	5.5	03/31/92	04/13/92	PW
SNI0910100A00L	WWC3*859	03/24/92	03/24/92	596	5.9	03/30/92	04/13/92	PW
SNI0910100B00L	WWC3*860	03/24/92	03/24/92	428	5.6	03/30/92	04/13/92	PW
SNI0910100C00L	WWC3*861	03/24/92	03/24/92	338	5.9	03/30/92	04/13/92	PW
SNI0910200A00L	WWC3*862	03/24/92	03/24/92	470	5.6	03/30/92	04/13/92	PW
SNI0910200B00L	WWC3*863	03/24/92	03/24/92	463	5.6	03/30/92	04/13/92	PW
SNI0910200C00L	WWC3*864	03/24/92	03/24/92	413	5.7	03/30/92	04/13/92	PW
SWA1713100A00L	WWC3*865	03/24/92	03/24/92	3070 D	61.2	03/30/92	05/11/92	PW
SWA1713100B00L	WWC3*866	03/24/92	03/24/92	570	5.5	03/30/92	04/13/92	PW
SWA1713100C00L	WWC3*867	03/24/92	03/24/92	345	5.8	03/30/92	04/13/92	PW
SWA1713200A00L	WWC3*868	03/24/92	03/24/92	1220	6.1	03/30/92	04/13/92	PW
SWA1713200B00L	WWC3*869	03/24/92	03/24/92	726	6.0	03/30/92	04/13/92	PW
SWA1713200C00L	WWC3*870	03/24/92	03/24/92	520	5.7	03/30/92	04/13/92	PW
SWA1711100A00L	WWC3*871	03/24/92	03/24/92	253	6.1	03/30/92	04/13/92	PW
SWA1711100B00L	WWC3*872	03/24/92	03/24/92	985	5.7	03/30/92	04/13/92	PW
SWA1711100C00L	WWC3*873	03/24/92	03/24/92	540	5.8	03/30/92	04/13/92	PW
SWA1711200A00L	WWC3*874	03/24/92	03/24/92	2100	6.6	03/30/92	04/13/92	PW
SWA1711200B00L	WWC3*875	03/24/92	03/24/92	1300	6.2	03/30/92	04/13/92	PW
SWA1711200C00L	WWC3*876	03/24/92	03/24/92	478	5.9	03/30/92	04/13/92	PW
SOL1724200A00L	WWC3*877	03/24/92	03/24/92	725	5.9	03/30/92	04/13/92	PW
SOL1724200B00L	WWC3*878	03/24/92	03/24/92	744	5.7	03/30/92	04/13/92	PW
SOL1724200C00L	WWC3*879	03/24/92	03/24/92	766	5.8	03/30/92	04/13/92	PW
SCH1753100A00L	WWC3*880	03/24/92	03/24/92	615	5.8	03/30/92	04/13/92	PW
SCH1753100B00L	WWC3*881	03/24/92	03/24/92	644	6.0	03/30/92	04/13/92	PW
SCH1753100C00L	WWC3*882	03/24/92	03/24/92	898	5.6	03/30/92	04/13/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 05-26-92

SAMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SCH1753200A00L	WWC3*883	03/24/92	03/24/92	375	5.8	03/30/92	04/13/92	PW
SCH1753200B00L	WWC3*884	03/24/92	03/24/92	318	5.7	03/30/92	04/13/92	PW
SCH1753200C00L	WWC3*885	03/24/92	03/24/92	239	5.4	03/30/92	04/13/92	PW
SCH1754100A00L	WWC3*886	03/24/92	03/24/92	704	6.2	03/30/92	04/13/92	PW
SCH1754100B00L	WWC3*887	03/24/92	03/24/92	487	5.7	03/30/92	04/13/92	PW
SCH1754100C00L	WWC3*888	03/24/92	03/24/92	212	5.6	03/30/92	04/13/92	PW
SCH1754200A00L	WWC3*889	03/24/92	03/24/92	1500	6.5	03/30/92	04/13/92	PW
SCH1754200B00L	WWC3*890	03/24/92	03/24/92	1230	6.2	03/30/92	04/13/92	PW
SCH1754200C00L	WWC3*891	03/24/92	03/24/92	567	5.9	03/30/92	04/13/92	PW
SCH1751100A00L	WWC3*892	03/24/92	03/24/92	645	5.5	03/30/92	04/13/92	PW
SCH1751100B00L	WWC3*893	03/24/92	03/24/92	346	5.4	03/30/92	04/13/92	PW
SCH1751100C00L	WWC3*894	03/24/92	03/24/92	318	5.5	03/30/92	04/13/92	PW
SCH1751200A00L	WWC3*895	03/24/92	03/24/92	973	5.9	03/30/92	04/13/92	PW
SCH1751200B00L	WWC3*896	03/24/92	03/24/92	351	6.1	03/30/92	04/13/92	PW
SCH1751200C00L	WWC3*897	03/24/92	03/24/92	511	5.7	03/30/92	04/13/92	PW
SCH1716100A00L	WWC3*898	03/24/92	03/24/92	398	5.9	03/30/92	04/13/92	PW
SCH1716100B00L	WWC3*899	03/24/92	03/24/92	242	5.7	03/30/92	04/13/92	PW
SCH1716100C00L	WWC3*900	03/24/92	03/24/92	68.8	5.7	03/30/92	04/13/92	PW
SCH1716200A00L	WWC3*901	03/24/92	03/24/92	1240	5.7	03/30/92	04/13/92	PW
SCH1716200B00L	WWC3*902	03/24/92	03/24/92	1560	6.1	03/30/92	04/13/92	PW
SCH1716200C00L	WWC3*903	03/24/92	03/24/92	1200	5.7	03/30/92	04/13/92	PW
SCH1712100A00L	WWC3*904	03/24/92	03/24/92	505	6.2	03/30/92	04/13/92	PW
SCH1712100B00L	WWC3*905	03/24/92	03/24/92	666	5.8	03/30/92	04/13/92	PW
SCH1712100C00L	WWC3*906	03/24/92	03/24/92	465	6.7	03/30/92	04/13/92	PW
SCH1712100A0LD	WWC3*907	03/24/92	03/24/92	502	6.4	03/30/92	04/13/92	PW
SCH1712100B0LD	WWC3*908	03/24/92	03/24/92	666	5.9	03/30/92	04/13/92	PW
SCH1712100C0LD	WWC3*909	03/24/92	03/24/92	489	6.2	03/30/92	04/13/92	PW
SNI0822100A00L	WWC3*910	03/25/92	03/25/92	322	5.9	03/30/92	04/13/92	PW
SNI0822100B00L	WWC3*911	03/25/92	03/25/92	307	5.5	03/30/92	04/13/92	PW
SNI0822100C00L	WWC3*912	03/25/92	03/25/92	111	5.5	03/30/92	04/13/92	PW
SNI0822200A00L	WWC3*913	03/25/92	03/25/92	271	5.7	03/30/92	04/13/92	PW
SNI0822200B00L	WWC3*914	03/25/92	03/25/92	180	5.6	03/30/92	04/13/92	PW
SNI0822200C00L	WWC3*915	03/25/92	03/25/92	82.4	5.9	03/30/92	04/13/92	PW
SNI0828100A00L	WWC3*916	03/25/92	03/25/92	1300	5.8	03/30/92	04/13/92	PW
SNI0828100B00L	WWC3*917	03/25/92	03/25/92	221	5.6	03/30/92	04/13/92	PW
SNI0828100C00L	WWC3*918	03/25/92	03/25/92	78.7	5.8	03/30/92	04/13/92	PW
SNI0828200A00L	WWC3*919	03/25/92	03/25/92	590	5.5	03/30/92	04/13/92	PW
SNI0828200B00L	WWC3*920	03/25/92	03/25/92	535	5.5	03/30/92	04/13/92	PW
SNI0828200C00L	WWC3*921	03/25/92	03/25/92	454	5.8	03/30/92	04/13/92	PW
SMP1709100A00L	WWC3*922	03/25/92	03/25/92	211	5.9	03/30/92	04/13/92	PW
SMP1709100B00L	WWC3*923	03/25/92	03/25/92	196	5.7	03/30/92	04/13/92	PW
SMP1709100C00L	WWC3*924	03/25/92	03/25/92	105	6.0	03/30/92	04/13/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SMP1722100A00L	WWC3*925	03/25/92	03/25/92	422	5.8	03/30/92	04/13/92	PW
SMP1722100B00L	WWC3*926	03/25/92	03/25/92	340	5.6	03/30/92	04/13/92	PW
SMP1722100C00L	WWC3*927	03/25/92	03/25/92	1420	5.7	03/30/92	04/13/92	PW
SMP1722200A00L	WWC3*928	03/25/92	03/25/92	743	6.4	03/30/92	04/13/92	PW
SMP1722200B00L	WWC3*929	03/25/92	03/25/92	482	6.1	03/30/92	04/13/92	PW
SMP1722200C00L	WWC3*930	03/25/92	03/25/92	293	5.9	03/30/92	04/13/92	PW
SMP1731100A00L	WWC3*931	03/25/92	03/25/92	1080	6.7	03/30/92	04/13/92	PW
SMP1731100B00L	WWC3*932	03/25/92	03/25/92	458	6.2	03/30/92	04/13/92	PW
SMP1731100C00L	WWC3*933	03/25/92	03/25/92	242	5.9	03/30/92	04/13/92	PW
SMP1731200A00L	WWC3*934	03/25/92	03/25/92	534	6.5	03/30/92	04/13/92	PW
SMP1731200B00L	WWC3*935	03/25/92	03/25/92	786	6.1	03/30/92	04/13/92	PW
SMP1731200C00L	WWC3*936	03/25/92	03/25/92	266	6.3	03/30/92	04/13/92	PW
SOL1739100A00L	WWC3*937	03/25/92	03/25/92	467	6.1	03/30/92	04/13/92	PW
SOL1739100B00L	WWC3*938	03/25/92	03/25/92	413	5.9	03/30/92	04/13/92	PW
SOL1739100C00L	WWC3*939	03/25/92	03/25/92	291	5.9	03/30/92	04/13/92	PW
SOL1739200A00L	WWC3*940	03/25/92	03/25/92	402	6.5	03/30/92	04/13/92	PW
SOL1739200B00L	WWC3*941	03/25/92	03/25/92	362	6.3	03/30/92	04/13/92	PW
SOL1739200C00L	WWC3*942	03/25/92	03/25/92	206	6.0	03/30/92	04/13/92	PW
SOL1735100A00L	WWC3*943	03/25/92	03/25/92	680	5.7	03/30/92	04/13/92	PW
SOL1735100B00L	WWC3*944	03/25/92	03/25/92	405	6.0	03/30/92	04/13/92	PW
SOL1735100C00L	WWC3*945	03/25/92	03/25/92	285	5.8	03/30/92	04/13/92	PW
SOL1735200A00L	WWC3*946	03/25/92	03/25/92	737	6.5	03/30/92	04/13/92	PW
SOL1735200B00L	WWC3*947	03/25/92	03/25/92	595	6.3	03/30/92	04/13/92	PW
SOL1735200C00L	WWC3*948	03/25/92	03/25/92	325	6.1	03/30/92	04/13/92	PW
SOL1732100A00L	WWC3*949	03/25/92	03/25/92	611	5.8	03/30/92	04/13/92	PW
SOL1732100B00L	WWC3*950	03/25/92	03/25/92	374	5.8	03/30/92	04/13/92	PW
SOL1732100C00L	WWC3*951	03/25/92	03/25/92	349	5.8	03/30/92	04/13/92	PW
SOL1732200A00L	WWC3*952	03/25/92	03/25/92	398	5.8	03/30/92	04/13/92	PW
SOL1732200B00L	WWC3*953	03/25/92	03/25/92	432	5.7	03/30/92	04/13/92	PW
SOL1732200C00L	WWC3*954	03/25/92	03/25/92	204	5.6	03/30/92	04/13/92	PW
SSP1618100A00L	WWC3*955	03/25/92	03/25/92	1690	6.0	03/30/92	04/13/92	PW
SSP1618100B00L	WWC3*956	03/25/92	03/25/92	403	5.6	03/30/92	04/13/92	PW
SSP1618100C00L	WWC3*957	03/25/92	03/25/92	173	5.7	03/30/92	04/13/92	PW
SSP1618200A00L	WWC3*958	03/25/92	03/25/92	74.8	5.8	03/30/92	04/13/92	PW
SSP1618200B00L	WWC3*959	03/25/92	03/25/92	36.3	5.5	03/30/92	04/13/92	PW
SSP1618200C00L	WWC3*960	03/25/92	03/25/92	10.3	5.7	03/30/92	04/13/92	PW
SSP1642100A00L	WWC3*961	03/25/92	03/25/92	185	6.2	03/31/92	04/13/92	PW
SSP1642100B00L	WWC3*962	03/25/92	03/25/92	204	5.5	03/31/92	04/13/92	PW
SSP1642100C00L	WWC3*963	03/25/92	03/25/92	273	5.7	03/31/92	04/13/92	PW
SSP1642200A00L	WWC3*964	03/25/92	03/25/92	377	5.9	03/31/92	04/13/92	PW
SSP1642200B00L	WWC3*965	03/25/92	03/25/92	480	6.0	03/31/92	04/13/92	PW
SSP1642200C00L	WWC3*966	03/25/92	03/25/92	573	6.1	03/31/92	04/13/92	PW

Environmental
Science &
Engineering, Inc.

St Louis Chemistry Laboratory

Analytical Chemistry Res

11665 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100 **REPORT DATE:** 05-26-92

SAMPLE MATRIX: SOIL **LAB MANAGER/QC REVIEW:** JEFFREY W. SIRIA

PROJECT MANAGER: JOHN F. GEMOULES **REPORT APPROVED BY:** FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SSP1734100A00L	WWC3*967	03/25/92	03/25/92	522	6.3	03/31/92	04/13/92	PW
SSP1734100B00L	WWC3*968	03/25/92	03/25/92	260	6.2	03/31/92	04/13/92	PW
SSP1734100C00L	WWC3*969	03/25/92	03/25/92	167	6.2	03/31/92	04/13/92	PW
SSP1734200A00L	WWC3*970	03/25/92	03/25/92	265	6.1	03/31/92	04/13/92	PW
SSP1734200B00L	WWC3*971	03/25/92	03/25/92	235	5.8	03/31/92	04/13/92	PW
SSP1734200C00L	WWC3*972	03/25/92	03/25/92	68.5	5.5	03/31/92	04/13/92	PW
SSP1750100A00L	WWC3*973	03/25/92	03/25/92	559	6.3	03/31/92	04/13/92	PW
SSP1750100B00L	WWC3*974	03/25/92	03/25/92	331	5.9	03/31/92	04/13/92	PW
SSP1750100C00L	WWC3*975	03/25/92	03/25/92	274	5.9	03/31/92	04/13/92	PW
SSP1750200A00L	WWC3*976	03/25/92	03/25/92	599	6.2	03/31/92	04/13/92	PW
SSP1750200B00L	WWC3*977	03/25/92	03/25/92	620	6.4	03/31/92	04/13/92	PW
SSP1750200C00L	WWC3*978	03/25/92	03/25/92	665	6.1	03/31/92	04/13/92	PW

QC SUMMARY

LEGEND

STOR*METH - storet*method code. Used as a unique identification of the analytical parameter.

BATCH - analytical data batch identification.

DATE - analysis date.

FOUND (method blank) - quantitated concentration determined to be in the method blank.

FOUND (continuing calibration verification) - quantitated concentration determined to be in the CCV sample.

FOUND (standard matrix spike) - quantitated concentration determined to be in the standard matrix spike.

FOUND (sample matrix spike) - the difference in the quantitated concentration in the sample matrix spike and the UNSPIKED sample.

UNSPIKED (sample matrix spike) - quantitated concentration determined to be in the sample prior to spike fortification.

R.P.D. - replicate percent difference.

R.P.D. CRITERIA - R.P.D. not to be exceeded.

TARGET - the calculated concentration of the analyte in the spike or QC sample. The TARGET may vary from sample to sample based on sample weight, and moisture content. This concentration is the benchmark to which the FOUND concentrations are compared.

R.P.D.*1 - default reference when RPD cannot be calculated due to the spike sample I.D. used in the data batch.

JFG/pl/REPORT/WWC.LEG

N

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOINOTE
MOISTURE	%WET WT	70320*S1	S7079	MB*NONE*1	03/05/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT		S7104	MB*NONE*1	03/06/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT		S7106	MB*NONE*1	03/10/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*7		0.0	
MOISTURE	%WET WT		S7133	MB*NONE*1	03/12/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT		S7143	MB*NONE*1	03/16/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT		S7147	MB*NONE*1	03/17/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT		S7166	MB*NONE*1	03/18/92	0.0	
MOISTURE	%WET WT		S7171	MB*NONE*1	03/19/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT		S7179	MB*NONE*1	03/20/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT		S7303	MB*NONE*1	04/10/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*7		0.0	
MOISTURE	%WET WT			MB*NONE*8		0.0	
MOISTURE	%WET WT			MB*NONE*9		0.0	
MOISTURE	%WET WT		S7306	MB*NONE*1	04/13/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT		S7311	MB*NONE*5	04/07/92	0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT		S7338	MB*NONE*1	04/13/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
MOISTURE	%WET WT	70320*SI	S7339	MB*NONE*5	04/13/92	0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*1		0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT		S7343	MB*NONE*1	04/14/92	0.0	
MOISTURE	%WET WT			MB*NONE*2		0.0	
MOISTURE	%WET WT			MB*NONE*3		0.0	
MOISTURE	%WET WT			MB*NONE*4		0.0	
MOISTURE	%WET WT			MB*NONE*5		0.0	
MOISTURE	%WET WT			MB*NONE*6		0.0	
MOISTURE	%WET WT			MB*NONE*7		0.0	
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7169	MB*NONE*1	3/18/92	0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.0	
LEAD(FAA)	MG/KG-DRY		S7172	MB*NONE*1	03/19/92	0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.09	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.3	
LEAD(FAA)	MG/KG-DRY		S7229	MB*NONE*1	03/20/92	0.09	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.2	
LEAD(FAA)	MG/KG-DRY		S7230	MB*NONE*1	03/24/92	0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.0	
LEAD(FAA)	MG/KG-DRY		S7231	MB*NONE*1		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.0	
LEAD(FAA)	MG/KG-DRY		S7236	MB*NONE*1	03/[illegible]92	0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.07	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY		S7271	MB*NONE*2	04/06/92	0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.08	
LEAD(FAA)	MG/KG-DRY		S7306	MB*NONE*1	04/13/92	0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.3	
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7306	MB*NONE*5	04/13/92	0.01	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.08	
LEAD(FAA)	MG/KG-DRY		S7311	MB*NONE*5	04/07/92	0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.1	
LEAD(FAA)	MG/KG-DRY		S7338	MB*NONE*1	04/13/92	0.1	

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7338	MB*NONE*3	04/13/92	0.03	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.05	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.0	
LEAD(FAA)	MG/KG-DRY		S7339	MB*NONE*5		0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*1		0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.02	
LEAD(FAA)	MG/KG-DRY		S7482	MB*NONE*1	05/11/92	0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.4	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.4	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.9	

N

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7169	CCV*NONE*1	3/18/92	5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7172	CCV*NONE*1	03/19/92	5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7172	CCV*NONE*11	03/19/92	5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*18		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*19		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7229	CCV*NONE*1	03/20/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	4.5	90.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*18		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7230	CCV*NONE*1	03/24/92	5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	4.6	92.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.1	102	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR=METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051=SFAAS	S7230	CCV=NONE=5		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=15		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=16		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=17		5.0	4.6	92.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=18		5.0	4.5	90.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7231	CCV=NONE=1		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=3		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=4		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=5		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=10		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=11		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=12		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=13		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=14		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=15		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=16		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7236	CCV=NONE=1	03/25/92	5.0	4.6	92.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=2		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=3		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=4		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=5		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	4.7	94.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	4.7	94.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	4.7	94.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7271	CCV=NONE=5	04/06/92	5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	4.6	92.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	4.5	90.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=10		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=11		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY		S7306	CCV=NONE=1	04/13/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=2		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=3		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=4		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=5		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=7		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=8		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=9		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=10		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=11		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=12		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV=NONE=13		5.0	5.3	106	75-125	

N

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7306	CCV*NONE*14		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*18		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY		S7311	CCV*NONE*1	04/07/92	5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	4.5	90.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7338	CCV*NONE*1	04/13/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7338	CCV*NONE*13	04/13/92	5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*18		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*19		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7339	CCV*NONE*11		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*1		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7482	CCV*NONE*1	05/11/92	5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.1	102	75-125	

N

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7482	CCV*NONE*7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE* 9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	4.8	96.0	75-125	

N

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7169	SP*NONE*1	3/18/92	5.0	5.2	106	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.3	106	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.3	108	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.5	111	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.4	108	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7172	SP*NONE*1	03/19/92	5.0	5.0	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	4.9	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	4.9	98.2	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	4.4	88.4	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.4	108	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7229	SP*NONE*1	03/20/92	5.0	4.9	98.2	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.0	107	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	4.7	93.2	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	116	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	4.7	93.2	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.1	101	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7230	SP*NONE*1	03/24/92	5.0	5.3	108	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.2	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.3	107	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7231	SP*NONE*1		5.0	4.4	89.0	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.3	106	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.8	117	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.3	107	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.2	105	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7236	SP*NONE*1	03/25/92	5.0	5.2	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.1	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	4.8	99.2	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7271	SP*NONE*2	04/06/92	5.0	4.9	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.0	100.0	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.5	110	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7306	SP*NONE*1	04/13/92	5.0	5.3	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	4.9	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.2	107	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.0	99.8	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7311	SP*NONE*5	04/07/92	5.0	5.1	102	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.1	101	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7338	SP*NONE*1	04/13/92	5.0	5.4	107	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.1	101	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.3	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.1	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.1	103	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7339	SP*NONE*5		5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.4	108	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*1		5.0	5.3	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.0	100.0	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY		S7482	SP*NONE*1	05/11/92	5.0	5.3	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP1*NONE*3		5.0	5.5	110	75-125		20	

Environmental Science & Engineering, Inc.

11665 Lilburn Park Rd
St. Louis, MO 63146
(314) 567-4600
FAX 314-567-5030

8230 Marshall Dr
Lenexa, KS 66214
(913) 492-6554
FAX 913-492-9256

701 E. 2nd St
Des Moines, IA 50309
(515) 282-9607
FAX 515-282-9610

Letter of Transmittal

DATE 9-11-92 JOB NO

ATTENTION Wendy Reinholt

RE Report Corrections & Moisture Raw Data.

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items.

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	LATEST DATE	NO	DESCRIPTION
		1.	3/18/92 QC Data for SPM's WWC3.
			– Please replace current copies with this
			update.
		2.	Moisture Data for WWC5 & WWC6.

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No exception taken ☐ Revise and submit ___ copies

☐ For your use ☐ Make corrections noted ☐ Submit ___ copies for distribution

☐ As requested ☐ Rejected ☐ Return ___ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19___ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Wendy,

Per our phone conversation Thursday 9-10-92:

– In WWC3 Report, the date 3/18/92 corresponds to batch S7169 for MB, CLV & SP Summaries. Computer error caused this date to be missed along with SPM data. The missing SPM data is included in this package

Delivered 9/11/92 [illegible]

COPY TO File Signed: ECL

If enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - re

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7169	SPM1*WAC2*929	03/18/92	576	653	113	75-125	537		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC2*929		561	593	106	75-125	537	6.39	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC2*942		616	637	103	75-125	493		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC2*942		626	697	111	75-125	493	7.48	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*20		588	420	71.4	75-125	1090		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*20		567	530	93.5	75-125	1090	26.8	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*40		649	-90.0	-13.9	75-125	2130		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*40		593	430	72.6	75-125	2130	295	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*80		534	599	112	75-125	239		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*80		590	630	107	75-125	239	4.57	20	
LEAD(FAA)	MG/KG-DRY		S7172	SPM1*WAC3*100	03/19/92	584	580	99.3	75-125	367		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*100		572	548	95.8	75-125	367	3.59	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*120		524	541	103	75-125	81.4		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*120		541	551	102	75-125	81.4	0.976	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*140		570	544	95.4	75-125	245		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*140		564	525	96.5	75-125	245	1.15	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*160		543	587	108	75-125	240		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*160		559	597	107	75-125	240	0.930	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*180		625	342	54.7	75-125	598		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*180		611	356	58.3	75-125	598	6.37	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*200		599	636	106	75-125	414		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*200		583	616	106	75-125	414	0.0	20	
LEAD(FAA)	MG/KG-DRY		S7229	SPM1*WAC3*220	03/20/92	579	469	80.9	75-125	365		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*220		570	421	73.9	75-125	365	9.17	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*240		581	378	65.1	75-125	577		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*240		599	185	30.9	75-125	577	71.3	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*260		590	876	149	75-125	524		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*260		566	726	128	75-125	524	14.5	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*280		559	652	117	75-125	167		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*280		543	626	115	75-125	167	1.72	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*300		547	607	111	75-125	63.9		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*300		536	560	105	75-125	63.9	5.56	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*320		562	593	106	75-125	259		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*320		537	520	96.8	75-125	259	9.07	20	
LEAD(FAA)	MG/KG-DRY		S7230	SPM1*WAC3*340	03/24/92	595	776	130	75-125	484		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*340		637	786	123	75-125	484	5.53	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*360		584	2740	469	75-125	291		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*360		605	55.0	9.09	75-125	291	192	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*380		565	593	105	75-125	324		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*380		593	644	109	75-125	324	3.74	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*440		593	760	128	75-125	118		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*440		556	1010	182	75-125	118	34.8	20	(1)
LEAD(FAA)	MG/KG-DRY		S7231	SPM1*WAC3*460		558	792	142	75-125	308		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*460		548	962	175	75-125	308	20.8	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*480		632	717	113	75-125	83.4		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*480		639	733	115	75-125	83.4	1.75	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*500		590	841	142	75-125	199		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*500		609	931	153	75-125	199	6.76	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*520		585	700	120	75-125	1190		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*520		586	2860	488	75-125	1190	121	20	(1)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*540		594	713	120	75-125	367		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*540		577	610	106	75-125	367	12.4	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*560		606	600	99.0	75-125	1030		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*560		598	510	85.3	75-125	1030	14.9	20	
LEAD(FAA)	MG/KG-DRY		S7236	SPM1*WAC3*580	03/25/92	599	950	158	75-125	1750		20	(1)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*580		620	1420	229	75-125	1750	36.1	20	(1)

Sample Matrix Spike Recovery Summary

AME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
EAD(FAA)	MG/KG-DRY	1051*SFAAS	S7236	SPM1*WAC3*600	03/25/92	560	647	116	75-125	393		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*600		556	627	113	75-125	393	2.62	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*620		591	593	100	75-125	244		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*620		564	572	101	75-125	244	0.995	20	
EAD(FAA)	MG/KG-DRY		S7271	SPM1*WAC3*640	04/06/92	601	649	108	75-125	229		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*640		578	611	106	75-125	229	1.87	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*660		564	476	84.4	75-125	163		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*660		568	598	105	75-125	163	21.8	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*680		588	672	114	75-125	838		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*680		580	692	119	75-125	838	4.29	20	
EAD(FAA)	MG/KG-DRY		S7306	SPM1*WAC3*740	04/13/92	577	598	104	75-125	223		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*740		577	583	101	75-125	223	2.93	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*760		627	430	68.6	75-125	1250		20	(1)
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*760		636	500	78.7	75-125	1250	13.7	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*780		581	618	106	75-125	184		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*780		586	608	104	75-125	184	1.90	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*800		567	665	117	75-125	385		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*800		592	675	114	75-125	385	2.60	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*840		601	711	118	75-125	349		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*840		592	619	105	75-125	349	11.7	20	
EAD(FAA)	MG/KG-DRY		S7311	SPM1*WAC3*700	04/07/92	612	651	106	75-125	389		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*700		601	597	99.4	75-125	389	6.43	20	
EAD(FAA)	MG/KG-DRY		S7338	SPM1*WAC3*860	04/13/92	564	672	119	75-125	428		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*860		564	642	114	75-125	428	4.29	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*880		569	615	108	75-125	615		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*880		612	655	107	75-125	615	0.930	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*900		594	661	111	75-125	68.8		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*900		586	705	121	75-125	68.8	8.62	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*920		577	655	114	75-125	535		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*920		561	685	122	75-125	535	6.78	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*940		651	688	106	75-125	402		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*940		686	748	109	75-125	402	2.79	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*960		574	641	112	75-125	10.3		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*960		590	644	109	75-125	10.3	2.71	20	
EAD(FAA)	MG/KG-DRY		S7339	SPM1*WAC4*80		654	862	132	75-125	608		20	(1)
EAD(FAA)	MG/KG-DRY			SPM2*WAC4*80		617	972	158	75-125	608	17.9	20	(1)
EAD(FAA)	MG/KG-DRY			SPM1*WAC4*100		619	2020	326	75-125	850		20	(1)
EAD(FAA)	MG/KG-DRY			SPM2*WAC4*100		596	610	103	75-125	850	104	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*978		597	615	103	75-125	665		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*978		631	615	97.4	75-125	665	5.59	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC4*20		592	559	94.5	75-125	187		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC4*20		593	568	95.8	75-125	187	1.47	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC4*40		590	650	110	75-125	210		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC4*40		581	723	124	75-125	210	12.0	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC4*60		573	654	114	75-125	246		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC4*60		573	684	119	75-125	246	4.29	20	
EAD(FAA)	MG/KG-DRY		S7482	SPM1*WAC3*60	05/11/92	630	-740	-117	75-125	3530		20	(2)
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*60		628	-920	-147	75-125	3530		20	(2)
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*399		529	615	116	75-125	111		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*399		568	623	110	75-125	111	5.31	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*720		587	600	102	75-125	1290		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*720		588	320	54.4	75-125	1290	60.9	20	(1)
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*820		656	849	129	75-125	441		20	(1)
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*820		644	729	113	75-125	441	13.2	20	
EAD(FAA)	MG/KG-DRY			SPM1*WAC3*419		571	588	103	75-125	442		20	
EAD(FAA)	MG/KG-DRY			SPM2*WAC3*419		573	528	92.1	75-125	442	11.2	20	

(1)- Sample inhomogeneity.
Not applicable; the concentration of the target metal in the sample matr ss found to be > 4 times the spiking concentration.

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	3/3	745	S	DEL619	1	00A	00L	✓	1	X			
2		746	S	DEL619	1	00B	00L	✓	1	X			
3		748	S	DEL619	1	00C	00L	✓	1	X			
4		752	S	DEL619	2	00A	00L	✓	1	X			
5		754	S	DEL619	2	00B	00L	✓	1	X			
6		756	S	DEL619	2	00C	00L	✓	1	X			
7		808	S	DEL628	1	00A	00L	✓	1	X			
		~~808~~	~~S~~	~~DEL628~~	~~1~~	~~00A~~	~~00LD~~	~~✓~~	~~1~~	~~X~~			
8		806	S	DEL628	1	00A	00LD	✓	1	X			
9		810	S	DEL628	1	00B	00L	✓	1	X			
		~~810~~	~~S~~	~~DEL628~~	~~1~~	~~00B~~	~~00LD~~	~~✓~~	~~1~~	~~X~~			
10		810	S	DEL628	1	00B	00LD	✓	1	X			
11		812	S	DEL628	1	00C	00L	✓	1	X			
		~~812~~	~~S~~	~~DEL628~~	~~1~~	~~00C~~	~~00LD~~		~~1~~	~~X~~			
12		812	S	DEL628	1	00C	00LD	✓	1	X			
13		815	S	DEL628	2	00A	00L	✓	1	X			
14		817	S	DEL628	2	00B	00L	✓	1	X			
15		819	S	DEL628	2	00C	00L	✓	1	X			
16		846	S	DEL636	1	00A	00L	✓	1	X			
17		848	S	DEL636	1	00B	00L	✓	1	X			
18		850	S	DEL636	1	00C	00L	✓	1	X			
19		855	S	DEL636	2	00A	00L	✓	1	X			
20		857	S	DEL636	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	3/3/92 1500		3/3 1500
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/3 1650		3/3/92 1650
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC 3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
21	3/3	859	S DE1636 2 00C00L ✓	1	X			
22		906	S DE1638 1 00A00L ✓	1	X			
23		908	S DE1638 1 00B00L ✓	1	X			
24		910	S DE1638 1 00C00L ✓	1	X			
25		915	S DE1638 2 00A00L ✓	1	X			
26		917	S DE1638 2 00B00L ✓	1	X			
27		919	S DE1638 2 00C00L ✓	1	X			
28		930	S DE1637 1 00A00L ✓	1	X			
		~~930~~	~~S DE1637 1 00A00LD~~	1	X			
29		930	S DE1637 1 00A00LD ✓	1	X			
30		932	S DE1637 1 00B00L ✓	1	X			
		~~932~~	~~S DE1637 1 00B00LD~~	1	X			
31		932	S DE1637 1 00B00LD ✓	1	X			
32		934	S DE1637 1 00C00L ✓	1	X			
		~~934~~	~~S DE1637 1 00C00LD~~	1	X			
33		934	S DE1637 1 00C00LD ✓	1	X			
34		939	S DE1637 2 00A00L ✓	1	X			
35		941	S DE1637 2 00B00L ✓	1	X			
36		943	S DE1637 2 00C00L ✓	1	X			
37		1111	S DE1715 1 00A00L ✓	1	X			
38		1113	S DE1715 1 00B00L ✓	1	X			
39		1115	S DE1715 1 00C00L ✓	1	X			
40		1120	S DE1715 2 00A00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	3/3/92 1520		3/3 1500
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/3 1650		3/5/92 1650
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
41	3/3	1122	S	DE17L5	2	00A	00L	✓	1	X			
42		1129	S	DE17L5	2	00C	00L	✓	1	X			
43		1138	S	DE17Z5	1	00A	00L	✓	1	X			
		~~1138~~	~~S~~	~~DE17Z6~~	~~1~~	~~00A~~	~~01Q~~		~~1~~	~~X~~			
44		1138	S	DE17Z5	1	00A	01D	✓	1	X			
45		1140	S	DE17Z5	1	00B	00L	✓	1	X			
		~~1140~~	~~S~~	~~DE17Z6~~	~~1~~	~~00B~~	~~01Q~~		~~1~~	~~X~~			
46		1140	S	DE17Z5	1	00B	01D	✓	1	X			
47		1142	S	DE17Z5	1	00C	00L	✓	1	X			
		~~1142~~	~~S~~	~~DE17Z5~~	~~1~~	~~00C~~	~~01Q~~		~~1~~	~~X~~			
48		1142	S	DE17Z5	1	00C	01D	✓	1	X			
49		1147	S	DE17Z5	2	00A	00L	✓	1	X			
50		1149	S	DE17Z5	2	00B	00L	✓	1	X			
51		1151	S	DE17Z5	2	00C	00L	✓	1	X			
52		1104	S	DE17Z6	1	00A	00L	✓	1	X			
53		1106	S	DE17Z6	1	00B	00L	✓	1	X			
54		1108	S	DE17Z6	1	00C	00L	✓	1	X			
55		1113	S	DE17Z6	2	00A	00L	✓	1	X			
56		1115	S	DE17Z6	2	00B	00L	✓	1	X			
57		1117	S	DE17Z6	2	00C	00L	✓	1	X			
58		1250	S	DE17Z7	1	00A	00L	✓	1	X			
		~~1250~~	~~S~~	~~DE17Z7~~	~~1~~	~~00A~~	~~01Q~~		~~1~~	~~X~~			
59		1250	S	DE17Z7	1	00A	01D	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/3/92 1500	[illegible]	3/3 1500
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/3 1650	[illegible]	3-3-92/1650

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

WWC 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
60	3/3	1254	S DE1737 1 00A DOL ✓	1	X			
		~~1254~~	~~S DE1737 1 00B DLQ~~	~~1~~	~~X~~			
61		1254	S DE1737 1 00B DLD ✓	1	X			
62		1256	S DE1737 1 00C DDL ✓	1	X			
		~~1256~~	~~S DE1737 1 00C DLQ~~	~~1~~	~~X~~			
63		1256	S DE1737 1 00C DLD ✓	1	X			
64		1301	S DE1737 2 00A DDL ✓	1	X			
65		1303	S DE1737 2 00B DDL ✓	1	X			
66		1305	S DE1737 2 00C DDL ✓	1	X			
67		1408	S DE2137 1 00A DDL ✓	1	X			
68		1410	S DE2137 1 00B DDL ✓	1	X			
69		1412	S DE2137 1 00C DDL ✓	1	X			
			S DE2137 2 00A DDL	1	X			
			S DE2137 2 00B DDL	1	X			
			S DE2137 2 00C DDL	1	X			
			S	1	X			
			S	1	X			
			S	1	X			
			S	1	X			
			S	1	X			
			S	1	X			
			S	1	X			
			S	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/3/92 1500	[illegible]	3/3 1500
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/3 1650	[illegible]	3-3-92/1605
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

WWC 3+ 1-69

ESE Cooler # ✓ 165
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-3-92 1650

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-4-92 830

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-3-92, seal name: RWS
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplock® bag and taped inside to the lid? . . . . . YES (NO)
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-4-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] M Wallace

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/4/92	732	S	AD2100	1	00A	00L	1	X			
	734	S	AD2100	1	00B	00L	1	X			
	736	S	AD2100	1	00C	00L	1	X			
	740	S	AD2100	2	00A	00L	1	X			
	741	S	AD2100	2	00B	00L	1	X			
	743	S	AD2100	2	00C	00L	1	X			
	800	S	AD2128	1	00A	00L	1	X			
	802	S	AD2128	1	00B	00L	1	X			
	804	S	AD2128	1	00C	00L	1	X			
	810	S	AD2128	2	00A	00L	1	X			
	812	S	AD2128	2	00B	00L	1	X			
	814	S	AD2128	2	00C	00L	1	X			
	828	S	AD2148	1	00A	00L	1	X			
	830	S	AD2148	1	00B	00L	1	X			
	832	S	AD2148	1	00C	00L	1	X			
	836	S	AD2148	2	00A	00L	1	X			
	838	S	AD2148	2	00B	00L	1	X			
	840	S	AD2148	2	00C	00L	1	X			
	852	S	AD2140	1	00A	00L	1	X			
	854	S	AD2140	1	00B	00L	1	X			
	856	S	AD2140	1	00C	00L	1	X			
	900	S	AD2140	2	00A	00L	1	X			
	902	S	AD2140	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	3:45 3/4/92	[signature]	3/4 1545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/4 1655	Carol Cash	3/4 1655

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

WWC3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
93	3/X 4/92	904	s ADZ140 2 00C 00L	1	X			
94		956	s BE1926 1 00A 00L	1	X			
95		958	s BE1926 1 00B 00L	1	X			
96		1000	s BE1926 1 00C 00L	1	X			
97		1004	s BE1926 2 00A 00L	1	X			
98		1006	s BE1926 2 00B 00L	1	X			
99		1008	s BE1926 2 00C 00L	1	X			
100		1018	s BE1922 1 00A 00L	1	X			
101		1020	s BE1922 1 00B 00L	1	X			
102		1022	s BE1922 1 00C 00L	1	X			
103		1027	s BE1922 2 00A 00L	1	X			
104		1029	s BE1922 2 00B 00L	1	X			
105		1031	s BE1922 2 00C 00L	1	X			
106		1044	s BE1916 1 00A 00L	1	X			
107		1046	s BE1916 1 00B 00L	1	X			
108		1048	s BE1916 1 00C 00L	1	X			
109		1052	s BE1916 2 00A 00L	1	X			
110		1054	s BE1916 2 00B 00L	1	X			
111		1056	s BE1916 2 00C 00L	1	X			
112		1123	s BE1910 1 00A 00L	1	X			
113		1125	s BE1910 1 00B 00L	1	X			
114		1127	s BE1910 1 00C 00L	1	X			
115		1132	s BE1910 2 00A 00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parsons	3/4/92 3:45		3/4 1545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/4 1655	Carol Cook	3/4 1655

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
116	3/3/92	1134	S	BE1940	2	00B	00L	1	X			
117		1136	S	BE1940	2	00C	00L	1	X			
118		1151	S	BE1941	1	00A	00L	1	X			
119		1153	S	BE1941	1	00B	00L	1	X			
120		1155	S	BE1941	1	00C	00L	1	X			
121		1200	S	BE1941	2	00A	00L	1	X			
122		1202	S	BE1941	2	00B	00L	1	X			
123		1204	S	BE1941	2	00C	00L	1	X			
124		1339	S	BE2140	1	00A	00L	1	X			
125		1341	S	BE2140	1	00B	00L	1	X			
126		1343	S	BE2140	1	00C	00L	1	X			
127		1348	S	BE2140	2	00A	00L	1	X			
128		1350	S	BE2140	2	00B	00L	1	X			
129		1352	S	BE2140	2	00C	00L	1	X			
130		1412	S	BE2020	1	00A	00L	1	X			
131		1414	S	BE2020	1	00B	00L	1	X			
132		1416	S	BE2020	1	00C	00L	1	X			
133		1421	S	BE2020	2	00A	00L	1	X			
134		1423	S	BE2020	2	00B	00L	1	X			
135		1425	S	BE2020	2	00C	00L	1	X			
136		1435	S	BE2034	1	00A	00L	1	X			
137		1437	S	BE2034	1	00A	00L	1	X			
138		1439	S	BE2034	1	00C	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/4/92 3:45	[signature]	3/4 1545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/4 1655	Carol Cash	3/4 1655
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] M Mallow

	DATE (CFP 4/92)	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
39	3/4	1444	S	BE2034	2	00A	00L	1	X			
140		1446	S	BE2034	2	00B	00L	1	X			
41		1448	S	BE2034	2	00C	00L	1	X			
142		1458	S	BE2032	1	00A	00L	1	X			
43		1500	S	BE2032	1	00B	00L	1	X			
144		1502	S	BE2032	1	00C	00L	1	X			
145		1507	S	BE2032	2	00A	00L	1	X			
146		1509	S	BE2032	2	00B	00L	1	X			
147		1511	S	BE2032	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

C. Pavelka

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	3/4/92 3:45	[signature]	3/4 1545
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/4 1655	Carol Cash	3/4 1655

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

WWC-3

Rev.01 10/7/91

ESE Cooler # 172
Client Cooler #
No Cooler

Project: Woodward-Clyde Consultants Date/Time Received: 3-4-92 1655

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-5-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Eric Page . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-4-92 , seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplock® bag and taped inside to the lid? . . . . . YES (NO)
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-5-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
8	3/5	802	S	BEZ256	1	00A	00L	✓	1	K			
49		802	S	BEZ256	1	00A	0LD	✓	1	K			
-0		804	S	BEZ256	1	00B	00L	✓	1	K			
-1		806	S	BEZ256	1	00B	0LD	✓	1	K			
-2		806	S	BEZ256	1	00C	00L	✓	1	K			
-3		806	S	BEZ256	1	00C	0LD	✓	1	K			
54		811	S	BEZ256	2	00A	00L	✓	1	K			
5		813	S	BEZ256	2	00B	00L	✓	1	K			
56		815	S	BEZ256	2	00C	00L	✓	1	K			
-7		826	S	BEZ244	1	00A	00L	✓	1	K			
58		828	S	BEZ244	1	00B	00L	✓	1	K			
-9		830	S	BEZ244	1	00C	00L	✓	1	K			
60		835	S	BEZ244	2	00A	00L	✓	1	K			
-1		837	S	BEZ244	2	00B	00L	✓	1	K			
-2		839	S	BEZ244	2	00C	00L	✓	1	K			
63		849	S	BEZ246	1	00A	00L	✓	1	K			
4		851	S	BEZ246	1	00B	00L	✓	1	K			
65		853	S	BEZ246	1	00C	00L	✓	1	K			
6		858	S	BEZ246	2	00A	00L	✓	1	K			
67		900	S	BEZ246	2	00B	00L	✓	1	K			
8		902	S	BEZ246	2	00C	00L	✓	1	K			
-9		1006	S	MPL603	1	00A	00L	✓	1	K			
-0		1008	S	MPL603	1	00B	00L	✓	1	K			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	03/05/92 1630	[illegible]	3/5 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/5/92 1730	[illegible]	3/5/92 17:30

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	3/5	1010	S	MP1603	1	00C	00L	✓	1	X			
2		1015	S	MP1603	2	00A	00L	✓	1	X			
3		1017	S	MP1603	2	00B	00L	✓	1	X			
114		1019	S	MP1603	2	00C	00L	✓	1	X			
5		1036	S	MP1642	1	00A	00L	✓	1	X			
6		1038	S	MP1642	1	00B	00L	✓	1	X			
177		1040	S	MP1642	1	00C	00L	✓	1	X			
8		1045	S	MP1642	2	00A	00L	✓	1	X			
179		1047	S	MP1642	2	00B	00L	✓	1	X			
10		1049	S	MP1642	2	00C	00L	✓	1	X			
181		1104	S	MP1641	1	00A	00L	✓	1	X			
2		1106	S	MP1641	1	00B	00L	✓	1	X			
3		1108	S	MP1641	1	00C	00L	✓	1	X			
4		1113	S	MP1641	2	00A	00L	✓	1	X			
5		1115	S	MP1641	2	00B	00L	✓	1	X			
186		1117	S	MP1641	2	00C	00L	✓	1	X			
7		1141	S	MP1635	1	00A	00L	✓	1	X			
188		1143	S	MP1635	1	00B	00L	✓	1	X			
9		1145	S	MP1635	1	00C	00L	✓	1	X			
190		1148	S	MP1635	2	00A	00L	✓	1	X			
1		1150	S	MP1635	2	00B	00L	✓	1	X			
192		1152	S	MP1635	2	00C	00L	✓	1	X			
3		1438	S	MP1633	1	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	03/05/92 1630	[illegible]	3/5 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/5/92 1730	[illegible]	3/5/92 17:3
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)					NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4	3/5	1440	S	MP1633	1	00B	00L ✓	1	X			
95		1442	S	MP1633	1	00C	00L ✓	1	X			
6		1446	S	MP1633	2	00A	00L ✓	1	X			
97		1448	S	MP1633	2	00B	00L ✓	1	X			
98		1450	S	MP1633	2	00C	00L ✓	1	X			
99		1345	S	MP1632	1	00A	00L ✓	1	X			
200		1347	S	MP1632	1	00B	00L ✓	1	X			
01		1349	S	MP1632	1	00C	00L ✓	1	X			
202		1353	S	MP1632	2	00A	00L ✓	1	X			
03		1355	S	MP1632	2	00B	00L ✓	1	X			
204		1357	S	MP1632	2	00C	00L ✓	1	X			
05		1412	S	MP1617	1	00A	00L ✓	1	X			
206		1414	S	MP1617	1	00B	00L ✓	1	X			
07		1416	S	MP1617	1	00C	00L ✓	1	X			
08		1421	S	MP1617	2	00A	00L ✓	1	X			
09		1423	S	MP1617	2	00B	00L ✓	1	X			
10		1425	S	MP1617	2	00C	00L ✓	1	X			
211		1506	S	MP1618	1	00A	00L ✓	1	X			
2		1510	S	MP1618	1	00B	00L ✓	1	X			
213		1512	S	MP1618	1	00C	00L ✓	1	X			
14		1516	S	MP1618	2	00A	00L ✓	1	X			
15		1518	S	MP1618	2	00B	00L ✓	1	X			
16		1520	S	MP1618	2	00C	00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/5/92 1630	[signature]	3/5 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/5/92 1730	[signature]	3/5/92 17:3

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WW@3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7	3/5	1535	S	MPL619	1	00A	00L	✓		X			
18		1537	S	MPL619	1	00B	00L	✓		X			
9		1539	S	MPL619	1	00C	00L	✓		X			
20		1541	S	MPL619	2	00A	00L	✓		X			
1		1546	S	MPL619	2	00B	00L	✓		X			
22	✓	1548	S	MPL619	2	00C	00L	✓		X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/05/92 1630	[signature]	3/5 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/5/92 1730	[signature]	3/5/92 17:[illegible]
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWCS

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 169
Client Cooler #
No Cooler

Project: Woodward-Clyde Consultants Date/Time Received: 3-5-92 1730

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-6-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on the front
   If YES, enter the following: seal date: 3-5-92, seal name: Mark Cws
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO*
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-6-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with Ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] / M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
66	3/23	746	S LE2027 1 00A 00L	1	✓			
11,7		748	S LE2027 1 00B 00L	1	✓			
8		750	S LE2027 1 00C 00L	1	✓			
.69		800	S LE2027 2 00A 00L	1	✓			
770		804	S LE2027 2 00B 00L	1	✓			
1-		806	S LE2027 2 00C 00L	1	✓			
772		833	S LE2123 1 00A 00L	1	✓			
3-		835	S LE2123 1 00B 00L	1	✓			
774		837	S LE2123 1 00C 00L	1	✓			
5-		841	S LE2123 2 00A 00L	1	✓			
76		843	S LE2123 2 00B 00L	1	✓			
77		845	S LE2123 2 00C 00L	1	✓			
.8		900	S LE2127 1 00A 00L	1	✓			
1		903	S LE2127 1 00B 00L	1	✓			
0		905	S LE2127 1 00C 00L	1	✓			
781		918	S LE2127 2 00A 00L	1	✓			
2		910	S LE2127 2 00B 00L	1	✓			
783-		912	S LE2127 2 00C 00L	1	✓			
4		925	S LE2149 1 00A 00L	1	✓			
785-		927	S LE2149 1 00B 00L	1	✓			
786		930	S LE2149 1 00C 00L	1	✓			
7		934	S LE2149 2 00A 00L	1	✓			
788		936	S LE2149 2 00B 00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/23/93 15:55	[illegible]	3/23 1555
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/23 1640	[illegible]	3/23/92 1640

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWLD

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
9	3/23	938	S	LE2149	2	00C	00L	1	✓			
90		952	S	LE2147	1	00A	00L	1	✓			
1		954	S	LE2147	1	00B	00L	1	✓			
12		956	S	LE2147	1	00C	00L	1	✓			
93		1000	S	LE2147	2	00A	00L	1	✓			
4		1003	S	LE2147	2	00B	00L	1	✓			
95		1005	S	LE2147	2	00C	00L	1	✓			
6		1014	S	LE2145	1	00A	00L	1	✓			
97		1016	S	LE2145	1	00B	00L	1	✓			
8		1018	S	LE2145	1	00C	00L	1	✓			
99		1023	S	LE2145	2	00A	00L	1	✓			
0		1025	S	LE2145	2	00B	00L	1	✓			
1		1027	S	LE2145	2	00C	00L	1	✓			
2		1200	S	ST2158	1	00A	00L	1	✓			
3		1203	S	ST2158	1	00B	00L	1	✓			
4		1205	S	ST2158	1	00C	00L	1	✓			
5		1210	S	ST2158	2	00A	00L	1	✓			
6		1212	S	ST2158	2	00B	00L	1	✓			
7		1214	S	ST2158	2	00C	00L	1	✓			
8		1228	S	ST2132	1	00A	00L	1	✓			
9		1230	S	ST2122	1	00B	00L	1	✓			
0		1232	S	ST2132	1	00C	00L	1	✓			
1		1237	S	ST2132	2	00A	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia [signature]	3/23/92 15:55	[signature]	3/23 1555
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/23 1640	[signature]	3-23-92 1640
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
23	3/6	808	S CL1629 1 00A 00L ✓	1	X			
24		810	S CL1629 1 00B 00L ✓	1	X			
25		812	S CL1629 1 00C 00L ✓	1	X			
26		817	S CL1629 2 00A 00L ✓	1	X			
27		819	S CL1629 2 00B 00L ✓	1	X			
28		821	S CL1629 2 00C 00L ✓	1	X			
29		835	S CL1628 1 00A 00L ✓	1	X			
30		837	S CL1628 1 00B 00L ✓	1	X			
31		839	S CL1628 1 00C 00L ✓	1	X			
32		843	S CL1628 2 00A 00L ✓	1	X			
33		845	S CL1628 2 00B 00L ✓	1	X			
34		847	S CL1628 2 00C 00L ✓	1	X			
35		942	S CL1726 1 00A 00L ✓	1	X			
36		944	S CL1726 1 00B 00L ✓	1	X			
37		946	S CL1726 1 00C 00L ✓	1	X			
38		950	S CL1726 2 00A 00L ✓	1	X			
39		952	S CL1726 2 00B 00L ✓	1	X			
40		954	S CL1726 2 00C 00L ✓	1	X			
41		1028	S CL2114 1 00A 00L ✓	1	X			
42		1030	S CL2114 1 00B 00L ✓	1	X			
43		1032	S CL2114 1 00C 00L ✓	1	X			
44		1036	S CL2114 2 00A 00L ✓	1	X			
45		1038	S CL2114 2 00B 00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	3/6/92 1620		3/6 1620
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/6 1710		3/6/92 17:1
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
246	3/6	1060	S CL2114 2 00C 00L ✓	1	X			
247		1100	S CL2128 1 00A 00L ✓	1	X			
248		1102	S CL2128 1 00B 00L ✓	1	X			
249		1104	S CL2128 1 00C 00L ✓	1	X			
250		1108	S CL2128 2 00A 00L ✓	1	X			
251		1110	S CL2128 2 00B 00L ✓	1	X			
252		1112	S CL2128 2 00C 00L ✓	1	X			
253		1128	S CL2121 1 00A 00L ✓	1	X			
254		1130	S CL2121 1 00B 00L ✓	1	X			
255		1132	S CL2121 1 00C 00L ✓	1	X			
256		1136	S CL2121 2 00A 00L ✓	1	X			
257		1138	S CL2121 2 00B 00L ✓	1	X			
258		1140	S CL2121 2 00C 00L ✓	1	X			
259		1151	S CL2127 1 00A 00L ✓	1	X			
260		1153	S CL2127 1 00B 00L ✓	1	X			
261		1155	S CL2127 1 00C 00L ✓	1	X			
262		1200	S CL2127 2 00A 00L ✓	1	X			
263		1202	S CL2127 2 00B 00L ✓	1	X			
264		1204	S CL2127 2 00C 00L ✓	1	X			
265		1227	S CL2131 1 00A 00L ✓	1	X			
266		1229	S CL2131 1 00B 00L ✓	1	X			
267		1231	S CL2131 1 00C 00L ✓	1	X			
268		1236	S CL2131 2 00A 00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/6/92 1620	[signature]	3/6 1620
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/6 1710	[signature]	3/6/92 17 10

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
69	3/6	1238	S CL2131 2 00B00L ✓	1	X			
70		1240	S CL2131 2 00C00L ✓	1	X			
71		1253	S CL2126 1 00A00L ✓	1	X			
272		1255	S CL2126 1 00B00L ✓	1	X			
73		1257	S CL2126 1 00C00L ✓	1	X			
74		1302	S CL2126 2 00A00L ✓	1	X			
75		1304	S CL2126 2 00B00L ✓	1	X			
76		1306	S CL2126 2 00C00L ✓	1	X			
277		1422	S CL2008 1 00A00L ✓	1	X			
78		1424	S CL2008 1 00B00L ✓	1	X			
279		1426	S CL2008 1 00C00L ✓	1	X			
80		1431	S CL2008 2 00A00L ✓	1	X			
81		1433	S CL2008 2 00B00L ✓	1	X			
82		1435	S CL2008 2 00C00L ✓	1	X			
283		1449	S CL2057 1 00B00L ✓	1	X			
84		1450	S CL2057 1 00B00L ✓	1	X			
285		1452	S CL2057 1 00C00L ✓	1	X			
286		1457	S CL2057 2 00A00L ✓	1	X			
87		1459	S CL2057 2 00B00L ✓	1	X			
288		1501	S CL2057 2 00C00L ✓	1	X			
89		1528	S CL2030 1 00A00L ✓	1	X			
290		1530	S CL2030 1 00B00L ✓	1	X			
91		1532	S CL2030 1 00C00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/6/92 1620	[signature]	3/6 1620
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/6 1710	[signature]	3/6/92 17:1
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
292	3/6	1536	S	CL2030	2	00A	00L	✓	1	X			
293		1538	S	CL2030	2	00B	00L	✓	1	X			
294		1540	S	CL2030	2	00C	00L	✓	1	X			
295		1510	S	CL2026	1	00A	00L	✓	1	X			
296		1512	S	CL2026	1	00B	00L	✓	1	X			
297		1514	S	CL2026	1	00C	00L	✓	1	X			
298		1518	S	CL2026	2	00A	00L	✓	1	X			
299		1520	S	CL2026	2	00B	00L	✓	1	X			
300	↓	1521	S	CL2026	2	00C	00L	✓	1	X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

Weekly E Rinkolt 03/06/92

NQUISHED BY: (Signature) [signature]	DATE / TIME 3/6/92 1620	RECEIVED BY: (Signature) [signature]	DATE / TIME 3/6 1620
SHED BY: (Signature) [signature]	DATE / TIME 3/6 1710	RECEIVED AT LAB BY: (Signature) [signature]	DATE / TIME 5/6/92 17°K
SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC - 223-300

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓177
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 3-6-92 1710

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-9-92 1000

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: , seal name: Can't read
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-9-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in cooler
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

2

WWC-3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
01	3/9/92	844	S	CL2161	1	00A	00L	1	X			
302		846	S	CL2161	1	00B	00L	1	X			
03		848	S	CL2161	1	00C	00L	1	X			
304		851	S	CL2161	2	00A	00L	1	X			
05		853	S	CL2161	2	00B	00L	1	X			
06		855	S	CL2161	2	00C	00L	1	X			
07		911	S	CL2160	1	00A	00L	1	X			
08		913	S	CL2160	1	00B	00L	1	X			
309		915	S	CL2160	1	00C	00L	1	X			
10		920	S	CL2160	2	00A	00L	1	X			
311		922	S	CL2160	2	00B	00L	1	X			
12		924	S	CL2160	2	00C	00L	1	X			
313		941	S	CL2145	1	00A	00L	1	X			
14		943	S	CL2145	1	00B	00L	1	X			
15		945	S	CL2145	1	00C	00L	1	X			
16		949	S	CL2145	2	00A	00L	1	X			
17		951	S	CL2145	2	00B	00L	1	X			
318		952 ~~951~~	S	CL2145	2	00C	00L	1	X			
19		1004	S	CL2149	1	00A	00L	1	X			
320		1006	S	CL2149	1	00B	00L	1	X			
21		1008	S	CL2149	1	00C	00L	1	X			
22		1012	S	CL2149	2	00A	00L	1	X			
23		1019	S	CL2149	2	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/9/92 1:30pm	[illegible]	3/9 16:30
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/9 17:50	[illegible]	3-9 5:50

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4	3/9	1016	S	CL2L49	2	00C	00L	1	X			
5		1036	S	CL2L56	1	00A	00L	1	X			
6		1038	S	CL2L56	1	00B	00L	1	X			
027		1040	S	CL2L56	1	00C	00L	1	X			
8		1045	S	CL2L56	2	00A	00L	1	X			
29		1047	S	CL2L56	2	00B	00L	1	X			
230		1049	S	CL2L56	2	00C	00L	1	X			
31		1107	S	CL2L64	1	00A	00L	1	X			
332		1109	S	CL2L64	1	00B	00L	1	X			
3		1111	S	CL2L64	1	00C	00L	1	X			
334		1115	S	CL2L64	2	00A	00L	1	X			
15		1117	S	CL2L64	2	00B	00L	1	X			
36		1119	S	CL2L64	2	00C	00L	1	X			
7		1138	S	CL2L53	1	00A	00L	1	X			
38		1140	S	CL2L53	1	00B	00L	1	X			
39		1142	S	CL2L53	1	00C	00L	1	X			
40		1147	S	CL2L53	2	00A	00L	1	X			
241		1149	S	CL2L53	2	00B	00L	1	X			
2		1151	S	CL2L53	2	00C	00L	1	X			
343		1353	S	GR2012	1	00A	00L	1	X			
4		1355	S	GR2012	1	00B	00L	1	X			
345		1357	S	GR2012	1	00C	00L	1	X			
6		1400	S	GR2012	2	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pendleton	3/9/93 4:00pm		3/9 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/9 1750	Esther Litsey	3-9 1750
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WW@3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7	3/9/92	1402	S	GR2012	2	00B	00L	1	X			
348		1404	S	GR2012	2	00C	00L	1	X			
19		1416	S	GR2016	1	00A	00L	1	X			
350		1418	S	GR2016	1	00B	00L	1	X			
51		1420	S	GR2016	1	00C	00L	1	X			
352		1424	S	GR2016	2	00A	00L	1	X			
53		1426	S	GR2016	2	00B	00L	1	X			
54		1428	S	GR2016	2	00C	00L	1	X			
355		1455	S	GR1937	1	00A	00L	1	X			
56		1457	S	GR1937	1	00B	00L	1	X			
357		1459	S	GR1937	1	00C	00L	1	X			
58		1504	S	GR1937	2	00A	00L	1	X			
359		1506	S	GR1937	2	00B	00L	1	X			
0		1508	S	GR1937	2	00C	00L	1	X			
1		1526	S	GR1929	1	00A	00L	1	X			
2		1528	S	GR1929	1	00B	00L	1	X			
3		1530	S	GR1929	1	00C	00L	1	X			
364		1536	S	GR1919	1	00A	00L	1	X			
5		1538	S	GR1919	1	00B	00L	1	X			
66		1540	S	GR1919	1	00C	00L	1	X			
7		1544	S	GR1919	2	00A	00L	1	X			
68		1546	S	GR1919	2	00B	00L	1	X			
9		1548	S	GR1919	2	00C	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/9/92 4:30pm	[signature]	3/9 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/9 1950	Ethan [signature]	3-9 5:50pm
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3 + 301 — 367

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 171
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-9-92 1750

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-10-92 1100

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 2-9-92, seal name: Cure Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-10-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Sample in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: _____ . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Nolizel, C Hawthe

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
0	3/11	1106	S	CL2264	1	00A	00L	✓	1	X			
71		1106	S	CL2264	1	00B	00L	✓	1	X			
2		1110	S	CL2264	1	00C	00L	✓	1	X			
73		1115	S	CL2264	2	00A	00L	✓	1	X			
74		1117	S	CL2264	2	00B	00L	✓	1	X			
75		1119	S	CL2264	2	00C	00L	✓	1	X			
76		1152	S	CL2259	1	00A	00L	✓	1	X			
77		1155	S	CL2259	1	00B	00L	✓	1	X			
78		1158	S	CL2259	1	00C	00L	✓	1	X			
79		12:30	S	CL2242	1	00A	00L	✓	1	X			
80		12:33	S	CL2242	1	00A	00D	✓	1	X			
81		12:34	S	CL2242	1	00B	00L	✓	1	X			
82		12:36	S	CL2242	1	00B	00D	✓	1	X			
83		12:37	S	CL2242	1	00C	00L	✓	1	X			
84		12:39	S	CL2242	1	00C	00D	✓	1	X			
85		12:42	S	CL2242	2	00A	00L	✓	1	X			
86		12:45	S	CL2242	2	00B	00L	✓	1	X			
87		12:47	S	CL2242	2	00C	00L	✓	1	X			
88		1:08	S	CL2246	1	00A	00L	✓	1	X			
89		1:09	S	CL2246	1	00B	00L	✓	1	X			
90		1:10	S	CL2246	1	00C	00L	✓	1	X			
91		1:15	S	CL2246	2	00A	00L	✓	1	X			
92	✓	1:17	S	CL2246	2	00B	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/11/92 1740	[illegible]	3/11/92 6:25pm
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/11 1625	[illegible]	3/11 1740

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWP3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace, C Parker

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
393	3/11/92	1:19	S	CL2276	2	00C	00L	✓	1	X			
394		2:35	S	CL2343	1	00A	00L	✓	1	X			
395		2:40	S	CL2243	1	00B	00L	✓	1	X			
396		2:42	S	CL2243	1	00C	00L	✓	1	X			
397		2:47	S	CL2243	2	00A	00L	✓	1	X			
398		2:48	S	CL2243	2	00B	00L	✓	1	X			
399		2:50	S	CL2243	2	00C	00L	✓	1	X			
400		3:08	S	CL2208	1	00A	00L	✓	1	X			
401		3:10	S	CL2208	1	00B	00L	✓	1	X			
402		3:12	S	CL2208	1	00C	00L	✓	1	X			
403		3:09	S	CL2208	1	00A	0LD	✓	1	X			
404		3:11	S	CL2208	1	00B	0LD	✓	1	X			
405		3:13	S	CL2208	1	00C	0LD	✓	1	X			
406		3:20	S	CL2208	2	00A	00L	✓	1	X			
407		3:21	S	CL2208	2	00B	00L	✓	1	X			
408		3:24	S	CL2208	2	00C	00L	✓	1	X			
409		3:38	S	CL2229	1	00A	00L	✓	1	X			
410		3:39	S	CL2229	1	00B	00L	✓	1	X			
411		3:41	S	CL2229	1	00C	00L	✓	1	X			
412		3:45	S	CL2229	2	00A	00L	✓	1	X			
413		3:46	S	CL2229	2	00B	00L	✓	1	X			
414		3:48	S	CL2229	2	00C	00L	✓	1	X			
415		3:55	S	CL2222	1	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/11/92 1740	[signature]	3/11 1740
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/11 1825	[signature]	3/11/92 6::

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) C. Pavelka / M Wallace

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/11/92	3:56	S	CL2222	1	00B	00L	✓	1	X			
	3:58	S	CL2222	1	00C	00L	✓	1	X			
	4:01	S	CL2222	2	00A	00L	✓	1	X			
	4:02	S	CL2222	2	00B	00L	✓	1	X			
	4:04	S	CL2222	2	00C	00L	✓	1	X			
	4:14	S	CL2221	1	00A	00L	✓	1	X			
	4:16	S	CL2221	1	00B	00L	✓	1	X			
	4:18	S	CL2221	1	00C	00L	✓	1	X			
	4:20	S	CL2221	2	00A	00L	✓	1	X			
	4:21	S	CL2221	2	00B	00L	✓	1	X			
	4:23	S	CL2221	2	00C	00L	✓	1	X			
	4:40	S	CL2217	1	00A	00L	✓	1	X			
	4:41	S	CL2217	1	00B	00L	✓	1	X			
	4:42	S	CL2217	1	00C	00L	✓	1	X			
	4:44	S	CL2217	2	00A	00L	✓	1	X			
	4:45	S	CL2217	2	00B	00L	✓	1	X			
	4:46	S	CL2217	2	00C	00L	✓	1	X			
		S										
		S										
		S										
		S										
		S										
		S										

C. Pavelka

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/11/92 1740	[signature]	3/11 1740
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/11 1825	[signature]	3/11/92 6:25 P.
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC 3 + 220 to 400

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 172
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-11-92 1825

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-12-92 1030

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 2-11-92, seal name: M Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-12-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Coolers with Ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: N/A . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) C. Pavelka / M. Wallace

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
33-	3/12/92	9:15	S	GR2209	1	00A	00L	1	X			
434-		9:16	S	GR2209	1	00A	OLD	1	X			
35-		9:17	S	GR2209	1	00B	00L	1	X			
436		9:18	S	GR2209	1	00B	OLD	1	X			
37		9:19	S	GR2209	1	00C	00L	1	X			
438		9:20	S	GR2209	1	00C	OLD	1	X			
439		9:28	S	GR2209	2	00A	00L	1	X			
40		9:30	S	GR2209	2	00B	00L	1	X			
441-		9:32	S	GR2209	2	00C	00L	1	X			
42		9:50	S	GR2228	1	00A	00L	1	X			
443-		9:51	S	GR2228	1	00B	00L	1	X			
44		9:53	S	GR2228	1	00C	00L	1	X			
45		9:57	S	GR2228	2	00A	00L	1	X			
46		9:59	S	GR2228	2	00B	00L	1	X			
47		10:00	S	GR2228	2	00C	00L	1	X			
48		10:15	S	GR2213	1	00A	00L	1	X			
49		10:16	S	GR2213	1	00B	00L	1	X			
50		10:18	S	GR2213	1	00C	00L	1	X			
51		10:22	S	GR2213	2	00A	00L	1	X			
452		10:24	S	GR2213	2	00B	00L	1	X			
53		10:26	S	GR2213	2	00C	00L	1	X			
454		10:44	S	GR2221	1	00A	00L	1	X			
55		10:46	S	GR2221	1	00B	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	3/12/92 5:40		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
		Carol Cash	3-12-92 1700
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) C. Pavlin / L. Cy

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	3/12/92	10:48	S	GR2221	1	00C	00L	1	X			
7		10:52	S	GR2221	2	00A	00L	1	X			
8		10:53	S	GR2221	2	00B	00L	1	X			
459		10:54	S	GR2221	2	00C	00L	1	X			
0		11:12	S	GR2217	1	00A	00L	1	X			
1		11:13	S	GR2217	1	00B	00L	1	X			
462		11:14	S	GR2217	1	00C	00L	1	X			
3		11:15	S	GR2217	2	00A	00L	1	X			
464		11:17	S	GR2217	2	00B	00L	1	X			
5		11:19	S	GR2217	2	00C	00L	1	X			
466		1320	S	GR2233	1	00A	00L	1	X			
7		1322	S	GR2233	1	00B	00L	1	X			
8		1324	S	GR2233	1	00C	00L	1	X			
469		1320	S	GR2233	1	00A	00L	1	X			
470		1322	S	GR2233	1	00B	00L	1	X			
1		1324	S	GR2233	1	00C	00L	1	X			
2		1340	S	GR2263	1	00A	00L	1	X			
473		1342	S	GR2263	1	00B	00L	1	X			
4		1344	S	GR2263	1	00C	00L	1	X			
475		1349	S	GR2263	2	00A	00L	1	X			
6		1351	S	GR2263	2	00B	00L	1	X			
477		1353	S	GR2263	2	00C	00L	1	X			
8		1410	S	GR2254	12	00A	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavlin	3/12/92 5:00		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
		Carol Cash	3-12-92 17:00
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
9	3/6/92	1412	S	GR22259	1	00B	00L	1	X			
80		1419	S	GR22259	1	00C	00L	1	X			
81		1419	S	GR22259	2	00A	00L	1	X			
82		1421	S	GR22259	2	00B	00L	1	X			
83		1423	S	GR22259	2	00C	00L	1	X			
84		1437	S	GR22246	1	00A	00L	1	X			
85		1439	S	GR22246	1	00B	00L	1	X			
86		1441	S	GR22246	1	00C	00L	1	X			
87		1445	S	GR22246	2	00A	00L	1	X			
88		1447	S	GR22246	2	00B	00L	1	X			
89		1449	S	GR22246	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parish	3/12/92 5:00		
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
		Carol Cook	3/12/92 1700
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 177
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-12-92 1200

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-13-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-12-92 seal name: Cynthia Parella
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziplock™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-13-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
X 16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES (NO)
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

M:\WP\CHEMCOM\CRF.01

#16 On. SGR228200C00L the time on custody paper is 10:00 the labels says 10:10.

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] / [illegible] / David L. Pate

	DATE	TIME (P.m.)	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
490	3/13/92	130	S	DE2205	1	00A	00L	✓	1	X			
491		135	S	DE2205	1	00B	00L	✓		X			
492		140	S	DE2205	1	00C	00L	✓		X			
493		145	S	DE2205	2	00A	00L	✓		X			
494		150	S	DE2205	2	00B	00L	✓		X			
495		155	S	DE2205	2	00C	00L	✓		X			
496		205	S	DE2206	1	00A	00L	✓		X			
497		205	S	DE2206	1	00B	00L	✓		X			
498		205	S	DE2206	1	00C	00L	✓		X			
499		235	S	DE2218	1	00A	00L	✓		X			
500		235	S	DE2218	1	00B	00L	✓		X			
501		235	S	DE2218	1	00C	00L	✓		X			
502		240	S	DE2218	2	00A	00L	✓		X			
503		240	S	DE2218	2	00B	00L	✓		X			
504		240	S	DE2218	2	00C	00L	✓		X			
505		210	S	DE2206	2	00A	00L	✓		X			
506		210	S	DE2206	2	00B	00L	✓		X			
507		215	S	DE2206	2	00C	00L	✓		X			
508		255	S	DE2227	1	00A	00L	✓		X			
509		255	S	DE2227	1	00B	00L	✓		X			
510		255	S	DE2227	1	00C	00L	✓		X			
511		310	S	DE2227	2	00A	00L	✓		X			
512		310	S	DE2227	2	00B	00L	✓		X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/13/92	D.L. Pate	3/13/92 1700
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
D.L. Pate	3/13/92 1300	[illegible]	3/13/92 6PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WWC3

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME (pm)	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
13	3/13/92	310	S	DE2227	2	00C	00L	✓	1	X			
514		320	S	DE2233	1	00A	00L	✓		X			
15		320	S	DE2233	1	00B	00L	✓		X			
516		320	S	DE2233	1	00C	00L	✓		X			
17		330	S	DE2233	2	00A	00L	✓		X			
518		330	S	DE2233	2	00B	00L	✓		X			
19		330	S	DE2233	2	00C	00L	✓		X			
20		355	S	DE2234	1	00A	00L	✓		X			
521		355	S	DE2234	1	00B	00L	✓		X			
22		355	S	DE2234	1	00C	00L	✓		X			
523		405	S	DE2234	2	00A	00L	✓		X			
24		405	S	DE2234	2	00B	00L	✓		X			
25		405	S	DE2234	2	00C	00L	✓		X			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/13/92	[illegible]	3/13/92 1700
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/13/92 1800	[illegible]	3/13/92 6.
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWCS

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3 (CFP)

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	3/16/92	8:35	S GR1414 1 00A 00L ✓	1	X			
27		8:37	S GR1414 1 00B 00L ✓	1	X			
28		8:39	S GR1414 1 00C 00L ✓	1	X			
29		8:52	S GR1414 2 00A 00L ✓	1	X			
30		8:54	S GR1414 2 00B 00L ✓	1	X			
31		8:57	S GR1414 2 00C 00L ✓	1	X			
32		9:32	S GR1410 1 00A 00L ✓	1	X			
33		9:34	S GR1410 1 00B 00L ✓	1	X			
34		9:36	S GR1410 1 00C 00L ✓	1	X			
35		9:39	S GR1410 2 00A 00L ✓	1	X			
36		9:42	S GR1410 2 00B 00L ✓	1	X			
37		9:45	S GR1410 2 00C 00L ✓	1	X			
38		10:15	S GR1412 1 00A 00L ✓	1	X			
39		10:17	S GR1412 1 00B 00L ✓	1	X			
40		10:19	S GR1412 1 00C 00L ✓	1	X			
41		10:30	S GR1412 2 00A 00L ✓	1	X			
42		10:32	S GR1412 2 00B 00L ✓	1	X			
43		10:34	S GR1412 2 00C 00L ✓	1	X			
44		10:58	S GR1422 1 00A 00L ✓	1	X			
45		11:00	S GR1422 1 00B 00L ✓	1	X			
46		11:01	S GR1422 1 00C 00L ✓	1	X			
47		11:07	S GR1422 2 00A 00L ✓	1	X			
48		11:09	S GR1422 2 00B 00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/16/92 1700	Cynthia Powell	3/16/92 17:00
RELINQUISHED BY: (Signature) Cynthia Powell	DATE / TIME 3/16/92 6:25pm	RECEIVED AT LAB BY: (Signature) [illegible]	DATE / TIME 3/16/92 6:25pm

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace / [signature]

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
9	3/16/92	11:11	S	GR1422	X	00X	00L	✓	1	X			
50		11:28	S	GR1443	1	00A	00L	✓	1	X			
1		11:30	S	GR1443	1	00B	00L	✓	1	X			
552		11:32	S	GR1443	1	00C	00L	✓	1	X			
3		11:45	S	GR1423	1	00A	00L	✓	1	X			
4		11:47	S	GR1423	1	00B	00L	✓	1	X			
555		11:49	S	GR1423	1	00C	00L	✓	1	X			
6		11:54	S	GR1423	2	00A	00L	✓	1	X			
557		11:56	S	GR1423	2	00B	00L	✓	1	X			
8		11:58	S	GR1423	2	00C	00L	✓	1	X			
559		2:14	S	GR1424	1	00A	00L	✓	1	X			
0		2:16	S	GR1424	1	00B	00L	✓	1	X			
1		2:17	S	GR1424	1	00C	00L	✓	1	X			
2		2:25	S	GR1424	2	00A	00L	✓	1	X			
3		2:27	S	GR1424	2	00B	00L	✓	1	X			
64		2:30	S	GR1424	2	00C	00L	✓	1	X			
5		2:45	S	GR1425	1	00A	00L	✓	1	X			
6		2:46	S	GR1425	1	00B	00L	✓	1	X			
7		2:47	S	GR1425	1	00C	00L	✓	1	X			
568		2:55	S	GR1425	2	00A	00L	✓	1	X			
9		2:57	S	GR1425	2	00B	00L	✓	1	X			
570		2:59	S	GR1425	2	00C	00L	✓	1	X			
71		3:10	S	GR1437	1	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/16/92 1700	Cynthia Paulk	3/16/92 17:00
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
Cynthia Paulk	3/16/92 6:25pm	Ethan Litsey	3/16/92 6:2
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWCS

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) C. Paulk, M. Wallace, K. Hunter

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
72	3/16/92	3:12	S	6R1437	1	00B	00L	✓					
73		3:14	S	6R1437	1	00C	00L	✓					
74		3:16	S	6R1437	2	00A	00L	✓					
75		3:17	S	6R1437	2	00B	00L	✓					
76		3:19	S	6R1437	2	00C	00L	✓					
77		3:35	S	6R1440	1	00A	00L	✓					
78		3:37	S	6R1440	1	00B	00L	✓					
79		3:39	S	6R1440	1	00C	00L	✓					
80		3:48	S	6R1442	1	00A	00L	✓					
81		3:50	S	6R1442	1	00B	00L	✓					
82		3:52	S	6R1442	1	00C	00L	✓					
83		3:54	S	6R1442	2	00A	00L	✓					
84		3:56	S	6R1442	2	00B	00L	✓					
85		3:57	S	6R1442	2	00C	00L	✓					
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Kenly E. Lindt	3/16/92 1700	Cynthia Paulk	3/16/92 17:00
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
C. Paulk	3/16/92 6:25	Ethan Libby	3/16/92 6:25 PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

-WWL3 + 526 - 505

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 172
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-16-92 1825

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-18-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-16-92, seal name: Can't read
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplock® bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-16-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6	3/17	8:05	S	GE1714	1	00A	02L	1	✓			
87		8:07	S	GE1714	1	00B	02L	1	✓			
8		8:09	S	GE1714	1	00C	02L	1	✓			
89		8:40	S	GE2127	1	00A	02L	1	✓			
90		8:43	S	GE2127	1	00B	02L	1	✓			
91		8:45	S	GE2127	1	00C	02L	1	✓			
92		8:50	S	GE2127	2	00A	02L	1	✓			
3		8:53	S	GE2127	2	00B	02L	1	✓			
94		8:55	S	GE2127	2	00C	02L	1	✓			
95		9:10	S	GE2132	1	00A	02L	1	✓			
96		9:12	S	GE2132	1	00B	02L	1	✓			
7		9:15	S	GE2132	1	00C	02L	1	✓			
98		9:55	S	DE2147	1	00A	02LD	1	✓			
99		9:57	S	DE2147	1	00B	02LD	1	✓			
00		10:00	S	DE2147	1	00C	02LD	1	✓			
01		9:55	S	DE2147	1	00A	02L	1	✓			
02		9:57	S	DE2147	1	00B	02L	1	✓			
03		10:00	S	DE2147	1	00C	02L	1	✓			
04		10:05	S	DE2147	2	00A	02L	1	✓			
05		10:08	S	DE2147	2	00B	02L	1	✓			
06		10:10	S	DE2147	2	00C	02L	1	✓			
07		10:20	S	DE2157	1	00A	02L	1	✓			
08		10:23	S	DE2157	1	00B	02L	1	✓			

RELINQUISHED BY: (Signature) [illegible]	DATE / TIME 3/17/92 4:30p	RECEIVED BY: (Signature) [illegible]	DATE / TIME 3-17 1630
RELINQUISHED BY: (Signature) [illegible]	DATE / TIME 3/17 1715	RECEIVED AT LAB BY: (Signature) P Lapin	DATE / TIME 3-17-92 17
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) K. Dodge, M. Wallace

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4	3/17	10:25	S	DE2157	1	00C	00L	1	✓			
5		10:20	S	DE2157	1	00A	0LD	1	✓			
1		10:23	S	DE2157	1	00B	0LD	1	✓			
612		10:25	S	DE2157	1	00C	0LD	1	✓			
3		10:30	S	DE2157	2	00A	00L	1	—			
614		10:33	S	DE2157	2	00B	00L	1	✓			
15		10:35	S	DE2157	2	00C	00L	1	✓			
6		10:50	S	DE2153	1	00A	00L	1	✓			
617		10:55	S	DE2153	1	00B	00L	1	✓			
8		11:00	S	DE2153	1	00C	00L	1	✓			
619		10:50	S	DE2153	1	00A	0LD	1	✓			
0		10:55	S	DE2153	1	00B	0LD	1	✓			
1		11:00	S	DE2153	1	00C	0LD	1	✓			
2		11:05	S	DE2153	2	00A	00L	1	✓			
3		11:07	S	DE2153	2	00B	00L	1	✓			
24		11:10	S	DE2153	2	00C	00L	1	✓			
5		12:55	S	DE2262	1	00A	00L	1	✓			
26		1300	S	DE2262	1	00B	00L	1	✓			
7		1305	S	DE2262	1	00C	00L	1	✓			
628		1309	S	DE2262	2	00A	00L	1	✓			
9		1309	S	DE2262	2	00B	00L	1	✓			
630		1311	S	DE2262	2	00C	00L	1	✓			
1		1320	S	DE2260	1	00A	0LD	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Paulka	3/17/92 4:50pm	C. S. Pry	3/17 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
C. S. Pry	3/17 1745	P. Lapin	3-17-92 171
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWCS

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
32	3/17	1322	S	DE2260	1	00B	00L	1	✓			
633		1325	S	DE2260	1	00C	00L	1	✓			
34		13:30	S	DE2260	2	00A	00L	1	✓			
035		13:33	S	DE2260	2	00B	00L	1	✓			
36		13:35	S	DE2260	2	00C	00L	1	✓			
37		1357	S	DE2258	1	00A	00L	1	X			
38		1359	S	DE2258	1	00B	00L	1	X			
39		1401	S	DE2258	1	00C	00L	1	X			
640		1406	S	DE2258	2	00A	00L	1	X			
41		1408	S	DE2258	2	00B	00L	1	X			
042		1410	S	DE2258	2	00C	00L	1	X			
43		1430	S	DE2245	1	00A	00L	1	X			
044		1432	S	DE2245	1	00B	00L	1	X			
45		1434	S	DE2245	1	00C	00L	1	X			
46		1439	S	DE2245	2	00A	00L	1	X			
047		1441	S	DE2245	2	00B	00L	1	X			
48		1443	S	DE2245	2	00C	00L	1	X			
49		1503	S	DE2247	1	00A	00L	1	X			
50		1505	S	DE2247	1	00B	00L	1	X			
51		1507	S	DE2247	1	00C	00L	1	X			
52		1512	S	DE2247	2	00A	00L	1	X			
53		1514	S	DE2247	2	00B	00L	1	X			
54		1516	S	DE2247	2	00C	00L	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	3/17/92 4:30pm	[signature]	3/17 1130
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/17 1715	P. Lapin	3-17-92 1710

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
55	3/17	1528	S	DE2253	1	00A	00L	1	X			
1056		1530	S	DE2253	1	00B	00L	1	X			
57		1532	S	DE2253	1	00C	00L	1	X			
58		1537	S	DE2253	2	00A	00L	1	X			
59		1539	S	DE2253	2	00B	00L	1	X			
60		1541	S	DE2253	2	00C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Paulk	3/17/92 4:30		3/17 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/17 1715		3-17-92 1711
METHOD OF SHIPMENT:		AIRBILL NO.: (If Applicable)	

WWC3 * 586-660

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 171
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3/7-92 1710

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-18-92 1100

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... (YES) NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-17-92, seal name: M Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-18-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/19												
3/19	10:26	S	ED1642	1	00A	00L	✓	1	✓			
	10:28	S	ED1642	1	00B	00L	✓	1	✓			
	10:30	S	ED1642	1	00C	00L	✓	1	✓			
	10:49	S	ED1642	2	00A	00L	✓	1	✓			
	10:51	S	ED1642	2	00B	00L	✓	1	✓			
	10:53	S	ED1642	2	00C	00L	✓	1	✓			
	11:29	S	ED1700	1	00A	00L	✓	1	✓			
	11:31	S	ED1700	1	00B	00L	✓	1	✓			
	11:33	S	ED1700	1	00C	00L	✓	1	✓			
	11:37	S	ED1700	2	00A	00L	✓	1	✓			
	11:39	S	ED1700	2	00B	00L	✓	1	✓			
	11:41	S	ED1700	2	00C	00L	✓	1	✓			
	12:06	S	ED1701	1	00A	00L	✓	1	✓			
	12:08	S	ED1701	1	00B	00L	✓	1	✓			
	12:10	S	ED1701	1	00C	00L	✓	1	✓			
	12:15	S	ED1701	2	00A	00L	✓	1	✓			
	12:17	S	ED1701	2	00B	00L	✓	1	✓			
	12:19	S	ED1701	2	00C	00L	✓	1	✓			
14:05	1407	S	ED1708	1	00A	00L	✓	1	✓			
	1407	S	ED1708	1	00B	00L	✓	1	✓			
	1409	S	ED1708	1	00C	00L	✓	1	✓			
	1418	S	ED1708	2	00A	00L	✓	1	✓			
	1420	S	ED1708	2	00B	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/19/92 1645	[signature]	3/19/92 1645
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/19/92 5:30	[signature]	3/19/92 5:30

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 2

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
84	3/19	1422	S	ED1708	2	00C	00L	✓	1	✓			
85		1445	S	ED1720	1	00A	00L	✓	1	✓			
086		1447	S	ED1720	1	00B	00L	✓	1	✓			
87		1449	S	ED1720	1	00C	00L	✓	1	✓			
088		1457	S	ED1720	2	00A	00L	✓	1	✓			
89		1454	S	ED1720	2	00B	00L	✓	1	✓			
90		1501	S	ED1720	2	00C	00L	✓	1	✓			
91		1518	S	ED1723	1	00A	00L	✓	1	✓			
92		1520	S	ED1723	1	00B	00L	✓	1	✓			
93		1522	S	ED1723	1	00C	00L	✓	1	✓			
94		1537	S	ED1734	1	00A	00L	✓	1	✓			
95		1539	S	ED1734	1	00B	00L	✓	1	✓			
96		1541	S	ED1734	1	00C	00L	✓	1	✓			
97		1545	S	ED1734	2	00A	00L	✓	1	✓			
98		1549	S	ED1734	2	00B	00L	✓	1	✓			
99		1551	S	ED1734	2	00C	00L	✓	1	✓			
			S										
			S										
			S										
			S										
			S										
			S										
			S										

[signature]

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/19/92 1645	[signature]	3/19/92 1645
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/19/92 5:30 pm	[signature]	3/19/92 5:30 pm
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

WWC3 x661-699

Rev.01 10/7/91

ESE Cooler # 169
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-19-92 1730

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-23-92 1000

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-19-92, seal name: Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: _____ by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) K Clark

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
00	3/20	817	S	ED2137	1	00A	024	✓	1	✓			
101		819	S	ED2137	1	00B	024	✓	1	✓			
02		821	S	ED2137	1	00C	024	✓	1	✓			
03		825	S	ED2137	2	00A	024	✓	1	✓			
04		827	S	ED2137	2	00B	024	✓	1	✓			
05		829	S	ED2137	2	00C	024	✓	1	✓			
706		847	S	ED2144	1	00A	024	✓	1	✓			
07		849	S	ED2144	1	00B	024	✓	1	✓			
708		851	S	ED2144	1	00C	024	✓	1	✓			
09		855	S	ED2144	2	00A	024	✓	1	✓			
110		857	S	ED2144	2	00B	024	✓	1	✓			
11		859	S	ED2144	2	00C	024	✓	1	✓			
12		922	S	ED2153	1	00A	024	✓	1	✓			
13		924	S	ED2153	1	00B	024	✓	1	✓			
14		926	S	ED2153	1	00C	024	✓	1	✓			
15		929	S	ED2153	2	00A	024	✓	1	✓			
16		931	S	ED2153	2	00B	024	✓	1	✓			
17		933	S	ED2153	2	00C	024	✓	1	✓			
			S	ED					1	✓			XD
			S	ED					1	✓			XD
			S	ED					1	✓			XD
			S	ED					1	✓			XD
			S	ED					1	✓			XD

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/20/92 1640	[illegible]	3/20 1640
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/20 1830	Ethan [illegible]	5:30 3/20
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC 3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) K. [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
718	3/20	1018	S	WS2020	1	00A	00L	✓	1	✓			
719		1020	S	WS2020	1	00B	00L	✓	1	✓			
720		1022	S	WS2020	1	00C	00L	✓	1	✓			
721		1034	S	WS2034	1	00A	00L	✓	1	✓			
722		1036	S	WS2034	1	00B	00L	✓	1	✓			
723		1038	S	WS2034	1	00C	00L	✓	1	✓			
724		1042	S	WS2034	2	00A	00L	✓	1	✓			
725		1044	S	WS2034	2	00B	00L	✓	1	✓			
726		1046	S	WS2034	2	00C	00L	✓	1	✓			
727		1101	S	WS2026	1	00A	00L	✓	1	✓			
728		1103	S	WS2026	1	00B	00L	✓	1	✓			
729		1105	S	WS2026	1	00C	00L	✓	1	✓			
730		1108	S	WS2026	2	00A	00L	✓	1	✓			
731		1110	S	WS2026	2	00B	00L	✓	1	✓			
732		1112	S	WS2026	2	00C	00L	✓	1	✓			
733	1125	~~1132~~	S	WS2024	1	00A	00L	✓	1	✓			
734	1125	~~1134~~	S	WS2024	1	00B	00L	✓	1	✓			
735	1130	~~1136~~	S	WS2024	1	00C	00L	✓	1	✓			
736		1413	S	OL1650	1	00A	00L	✓	1	✓			
737		1415	S	OL1650	1	00B	00L	✓	1	✓			
738		1417	S	OL1650	1	00C	00L	✓	1	✓			
739		1422	S	OL1650	2	00A	00L	✓	1	✓			
740		1425	S	OL1650	2	00B	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Wendy S. Eckhart	3/20/92 1640	[illegible]	3/20 1640
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/20 1730	Ethan Stacy	3/20 5:3
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
41	3/20	1427	S	0L1650	2	00C	00L	✓	1	✓			
42		1443	S	0L1635	1	00A	00L	✓	1	✓			
43		1445	S	0L1635	1	00B	00L	✓	1	✓			
44		1447	S	0L1635	1	00C	00L	✓	1	✓			
45		1443	S	0L1635	1	00A	0LD	✓	1	✓			
46		1445	S	0L1635	1	00B	0LD	✓	1	✓			
47		1447	S	0L1635	1	00C	0LD	✓	1	✓			
48		1507	S	0L1631	1	00A	00L	✓	1	✓			
49		1509	S	0L1631	1	00B	00L	✓	1	✓			
50		1511	S	0L1631	1	00C	00L	✓	1	✓			
51		1507	S	0L1631	1	00A	0LD	✓	1	✓			
52		1509	S	0L1631	1	00B	0LD	✓	1	✓			
53		1511	S	0L1631	1	00C	0LD	✓	1	✓			
54		1527	S	0L1633	1	00A	00L	✓	1	✓			
55		1530	S	0L1633	1	00B	00L	✓	1	✓			
56		1532	S	0L1633	1	00C	00L	✓	1	✓			
57		1535	S	0L1633	2	00A	00L	✓	1	✓			
58		1537	S	0L1633	2	00B	00L	✓	1	✓			
59		1539	S	0L1633	2	00C	00L	✓	1	✓			
60		1450	S	0L1635	2	00A	00L	✓	1	✓			
61		1452	S	0L1635	2	00B	00L	✓	1	✓			
62		1454	S	0L1635	2	00C	00L	✓	1	✓			
63		1132	S	WS0224	2	00A	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/20/92 1640	[signature]	3/20 1140
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/20 1730	[signature]	3/20 5:30 PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/23	1239	S ST2132 2 00B 00L	1	✓			
	1241	S ST2132 2 00C 00L	1	✓			
	1252	S ST2135 1 00A 00L	1	✓			
	1254	S ST2135 1 00B 00L	1	✓			
	1256	S ST2135 1 00C 00L	1	✓			
	1300	S ST2135 2 00A 00L	1	✓			
	1303	S ST2135 2 00B 00L	1	✓			
	1305	S ST2135 2 00C 00L	1	✓			
	1328	S ST2148 1 00A 00L	1	✓			
	1330	S ST2148 1 00B 00L	1	✓			
	1332	S ST2148 1 00C 00L	1	✓			
	1408	S ST2101 1 00A 00L	1	✓			
	1410	S ST2101 1 00B 00L	1	✓			
	1412	S ST2101 1 00C 00L	1	✓			
	1416	S ST2101 2 00A 00L	1	✓			
	1418	S ST2101 2 00B 00L	1	✓			
	1420	S ST2101 2 00C 00L	1	✓			
	1433	S ST2118 1 00A 00L	1	✓			
	1435	S ST2118 1 00B 00L	1	✓			
	1437	S ST2118 1 00C 00L	1	✓			
	1440	S ST2118 2 00A 00L	1	✓			
	1442	S ST2118 2 00B 00L	1	✓			
	1444	S ST2118 2 00C 00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	3/23/92 15:55		3/23 15:55
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/23 1640		3-23-92/1640

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
35	3/23	1451	S ST2119 1 00A 004	1	✓			
36		1453	S ST2119 1 00B 004	1	✓			
37		1455	S ST2119 1 00C 004	1	✓			
38		1458	S ST2119 2 00A 004	1	✓			
39		1500	S ST2119 2 00B 004	1	✓			
40		1502	S ST2119 2 00C 004	1	✓			
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	3/23/92 15:35		3/23 1555
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	3/23 1640		3-23-92 1640

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWLS -766 - 840

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 162
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-23-92 1640

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-25-92 630

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-23-92, seal name: Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
5. Was chain-of-custody provided? ..... YES NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? ..... YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES NO
9. Did you sign custody papers in the appropriate place? ..... YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-25-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
*14. Did all bottles arrive unbroken and in good condition? ..... YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

J:\WP\CHEMCOM\CRF.01

WWC5 - 841 - 909

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	3/24	814	S	NE0931	1	00A	00L	✓	1	✓			
2		816	S	NE0931	1	00B	00L	✓	1	✓			
3		818	S	NE0931	1	00C	00L	✓	1	✓			
4		820	S	NE0929	1	00A	00L	✓	1	✓			
5		822	S	NE0929	1	00B	00L	✓	1	✓			
6		824	S	NE0929	1	00C	00L	✓	1	✓			
7		848	S	WA1751	1	00A	00L	✓	1	✓			
8		850	S	WA1751	1	00B	00L	✓	1	✓			
9		852	S	WA1751	1	00C	00L	✓	1	✓			
0		854	S	WA1751	2	00A	00L	✓	1	✓			
1		856	S	WA1751	2	00B	00L	✓	1	✓			
2		858	S	WA1751	2	00C	00L	✓	1	✓			
3		906	S	WA1745	1	00A	00L	✓	1	✓			
4		908	S	WA1745	1	00B	00L	✓	1	✓			
5		910	S	WA1745	1	00C	00L	✓	1	✓			
6		906	S	WA1745	1	00A	00LD	✓	1	✓			
7		908	S	WA1745	1	00B	00LD	✓	1	✓			
8		910	S	WA1745	1	00C	00LD	✓	1	✓			
9		937	S	NE0910	1	00A	00L	✓	1	✓			
0		939	S	NE0910	1	00B	00L	✓	1	✓			
1		941	S	NE0910	1	00C	00L	✓	1	✓			
2		944	S	NE0910	2	00A	00L	✓	1	✓			
3		946	S	NE0910	2	00B	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/24/92 1600	[illegible]	3/24 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/29 1630	[illegible]	3/24 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NUTRACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4	3/24	948	S	WE0910	2	00C	00L	✓	1	✓			
865	1008	1015	S	WA1713	1	00A	00L	✓	1	✓			
6	1010	1017	S	WA1713	1	00B	00L	✓	1	✓			
867	1012	1019	S	WA1713	1	00C	00L	✓	1	✓			
868		1015	S	WA1713	2	00A	00L	✓	1	✓			
869		1017	S	WA1713	2	00B	00L	✓	1	✓			
870		1019	S	WA1713	2	00C	00L	✓	1	✓			
71		1026	S	WA1711	1	00A	00L	✓	1	✓			
872		1028	S	WA1711	1	00B	00L	✓	1	✓			
73		1030	S	WA1711	1	00C	00L	✓	1	✓			
874		1034	S	WA1711	2	00A	00L	✓	1	✓			
875		1036	S	WA1711	2	00B	00L	✓	1	✓			
876		1038	S	WA1711	2	00C	00L	✓	1	✓			
7		1316	S	OL1724	2	00A	00L	✓	1	✓			
878		1318	S	OL1724	2	00B	00L	✓	1	✓			
879		1320	S	OL1724	2	00C	00L	✓	1	✓			
30		1338	S	CH1753	1	00A	00L	✓	1	✓			
881		1340	S	CH1753	1	00B	00L	✓	1	✓			
32		1342	S	CH1753	1	00C	00L	✓	1	✓			
883		1344	S	CH1753	2	00A	00L	✓	1	✓			
34		1346	S	CH1753	2	00B	00L	✓	1	✓			
885		1348	S	CH1753	2	00C	00L	✓	1	✓			
36		1359	S	CH1754	1	00A	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/24/92 1600	[illegible]	3/24 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/24 1630	[illegible]	3/24 1630
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7	3/24	1359	S	CH1754	1	00B024	✓	1	✓			
58		1400	S	CH1754	1	02C024	✓	1	✓			
9		1405	S	CH1754	2	00A024	✓	1	✓			
10		1407	S	CH1754	2	00B024	✓	1	✓			
1		1409	S	CH1754	2	00C024	✓	1	✓			
2		1416	S	CH1751	1	00A024	✓	1	✓			
3		1418	S	CH1751	1	00B024	✓	1	✓			
4		1420	S	CH1751	1	00C024	✓	1	✓			
15		1423	S	CH1751	2	00A024	✓	1	✓			
6		1425	S	CH1751	2	00B024	✓	1	✓			
7		1427	S	CH1751	2	02C024	✓	1	✓			
8		1447	S	CH1716	1	00A024	✓	1	✓			
9		1449	S	CH1716	1	00B024	✓	1	✓			
0		1503	S	CH1716	1	00C024	✓	1	✓			
1		1505	S	CH1716	2	00A024	✓	1	✓			
2		1507	S	CH1716	2	00B024	✓	1	✓			
3		1509	S	CH1716	2	00C024	✓	1	✓			
4		1513	S	CH1712	1	00A024	✓	1	✓			
5		1515	S	CH1712	1	00B024	✓	1	✓			
6		1517	S	CH1712	1	00C024	✓	1	✓			
7		1513	S	CH1712	1	00A060	✓	1	✓			
8		1515	S	CH1712	1	00B060	✓	1	✓			
9		1517	S	CH1712	1	00C060	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/24 1600	[illegible]	3/24 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/24 1630	[illegible]	3/24 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

Rev.01 10/7/91

COOLER/SAMPLE RECEIPT FORM

WWC3-841-909

ESE Cooler # 169
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-24-92 1630

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-26-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-24-92 seal name: Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-26-92 by (all those involved must sign below):

(print) Carol Cash *(sign) Carol Cash

11. Describe packing: samples in Cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

:\WP\CHEMCOM\CRF.01

WWC3 * 710-428

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace / J Deeke

	DATE 92	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
910	3/25	744	S	NE0822	1	00A	00L	1	✓			
11		746	S	NE0822	1	00B	00L	1	✓			
12		748	S	NE0822	1	00C	00L	1	✓			
13		752	S	NE0822	2	00A	00L	1	✓			
14		754	S	NE0822	2	00B	00L	1	✓			
15		756	S	NE0822	2	00C	00L	1	✓			
716		810	S	NE0828	1	00A	00L	1	✓			
17		812	S	NE0828	1	00B	00L	1	✓			
718		814	S	NE0828	1	00C	00L	1	✓			
19		818	S	NE0828	2	00A	00L	1	✓			
720		820	S	NE0828	2	00B	00L	1	✓			
21		822	S	NE0828	2	00C	00L	1	✓			
22		837	S	MP1709	1	00A	00L	1	✓			
23		839	S	MP1709	1	00B	00L	1	✓			
24		841	S	MP1709	1	00C	00L	1	✓			
25		856	S	MP1722	1	00A	00L	1	✓			
26		858	S	MP1722	1	00B	00L	1	✓			
27		900	S	MP1722	1	00C	00L	1	✓			
28		905	S	MP1722	2	00A	00L	1	✓			
29		907	S	MP1722	2	00B	00L	1	✓			
30		909	S	MP1722	2	00C	00L	1	✓			
31		942	S	MP1731	1	00A	00L	1	✓			
32		944	S	MP1731	1	00B	00L	1	✓			

RELINQUISHED BY: (Signature) [signature]	DATE / TIME 4/35 3/25/92	RECEIVED BY: (Signature) [signature]	DATE / TIME 3/25 1635
RELINQUISHED BY: (Signature) [signature]	DATE / TIME 3/25 1755	RECEIVED AT LAB BY: (Signature) [signature]	DATE / TIME 3/25 17:55
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE 92	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3	3/25	946	S	MP1731	1	00C	00L	1	✓			
934		950	S	MP1731	2	00A	00L	1	✓			
5		952	S	MP1731	2	00B	00L	1	✓			
936		954	S	MP1731	2	00C	00L	1	✓			
37		1045	S	OL1739	1	00A	00L	1	✓			
38		1047	S	OL1739	1	00B	00L	1	✓			
939		1049	S	OL1739	1	00C	00L	1	✓			
40		1052	S	OL1739	2	00A	00L	1	✓			
941		1054	S	OL1739	2	00B	00L	1	✓			
42		1056	S	OL1739	2	00C	00L	1	✓			
943		1109	S	OL1735	1	00A	00L	1	✓			
44		1111	S	OL1735	1	00B	00L	1	✓			
45		1113	S	OL1735	1	00C	00L	1	✓			
46		1116	S	OL1735	2	00A	00L	1	✓			
47		1118	S	OL1735	2	00B	00L	1	✓			
948		1120	S	OL1735	2	00C	00L	1	✓			
49		1131	S	OL1732	1	00A	00L	1	✓			
950		1133	S	OL1732	1	00B	00L	1	✓			
51		1135	S	OL1732	1	00C	00L	1	✓			
952		1140	S	OL1732	2	00A	00L	1	✓			
53		1142	S	OL1732	2	00B	00L	1	✓			
954		1144	S	OL1732	2	00C	00L	1	✓			
55		1404	S	SP1618	1	00A	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/25/92 4:35 pm	[signature]	3/25 1635
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/25 1755	[signature]	3/25 18:55

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC3

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
56	3/25/92	1406	S	SP1618	1	00B	00L	1	✓			
57		1408	S	SP1618	1	00C	00L	1	✓			
58		1413	S	SP1618	2	00A	00L	1	✓			
59		1415	S	SP1618	2	00B	00L	1	✓			
60		1417	S	SP1618	2	00C	00L	1	✓			
61		1439	S	SP1642	1	00A	00L	1	✓			
62		1441	S	SP1642	1	00B	00L	1	✓			
63		1443	S	SP1642	1	00C	00L	1	✓			
64		1446	S	SP1642	2	00A	00L	1	✓			
65		1448	S	SP1642	2	00B	00L	1	✓			
66		1450	S	SP1642	2	00C	00L	1	✓			
67		1516	S	SP1734	1	00A	00L	1	✓			
68		1518	S	SP1734	1	00B	00L	1	✓			
69		1520	S	SP1734	1	00C	00L	1	✓			
70		1525	S	SP1734	2	00A	00L	1	✓			
71		1527	S	SP1734	2	00B	00L	1	✓			
72		1529	S	SP1734	2	00C	00L	1	✓			
73		1541	S	SP1750	1	00A	00L	1	✓			
74		1543	S	SP1750	1	00B	00L	1	✓			
75		1545	S	SP1750	1	00C	00L	1	✓			
76		1552	S	SP1750	2	00A	00L	1	✓			
77		1554	S	SP1750	2	00B	00L	1	✓			
78		1556	S	SP1750	2	00C	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/25/92 4:55pm	[signature]	3/25 1635
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/25 1755	[signature]	3/25 1755
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

1 D

COOLER/SAMPLE RECEIPT FORM

WWC3 * 910-978

Rev.01 10/7/91

ESE Cooler # 171
Client Cooler #
No Cooler

Project: Woodward-Clyde Date/Time Received: 3-25-92 1755

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-26-92 800

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES NO
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? ..... YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-25-92 seal name: Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
5. Was chain-of-custody provided? ..... YES NO
6. Were custody papers sealed in a Ziplock® bag and taped inside to the lid? ..... YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? ..... YES NO
9. Did you sign custody papers in the appropriate place? ..... YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-26-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Coolers with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... YES NO
13. Were all bottles sealed in separate plastic bags? ..... YES NO
14. Did all bottles arrive unbroken and in good condition? ..... YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... YES NO
17. Were correct containers used for the tests indicated? ..... YES NO
*18. Were correct preservatives used when required? ..... YES NO
19. pH of samples maintained correctly as required? If NO, list by ID# ..... YES NO
20. Was a sufficient amount of sample sent for tests indicated? ..... YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

:\WP\CHEMCOM\CRF.01

WW--

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
104	3/20/92	1134	S WS2024 2 0006 0L ✓	1	✓			
105	↓	1136	S WS2024 2 0006 0L ✓	1	✓			
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/20/92 1640	[signature]	3/20 1640
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/20 1730	Ethan Lutey	3/20 5:30
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

Rev.01 10/7/91

COOLER/SAMPLE RECEIPT FORM

WWC3 * 700 - 765

ESE Cooler # ✓ 172
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-20-92 1730

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-23-92 1100

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-23-92 seal name: Wallace
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziplock® bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-23-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

M:\WP\CHEMCOM\CRF.01

REPORT
OF
ANALYTICAL RESULTS

Project No.:
5912031 0100

Prepared For:
Woodward-Clyde Consultants
Maryland Heights, MO 63043

Submitted By:
St. Louis Chemistry Laboratory
Environmental Science &
Engineering, Inc.

June 26, 1992

Environmental
Science &
Engineering, Inc.

A CILCORP Company

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. NA
NO. OF SAMPLES
MATRIX

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Wendy Reinbolt
REVIEWER'S NAME WENDY REINBOLT
COMPLETION DATE 8/27/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES					
2. BLANKS					
3. CCV					
4. STANDARD MATRIX SPIKE					
5. MATRIX SPIKE					
6. OTHER QC					
7. OVERALL ASSESSMENT					

NOT APPLICABLE

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: RELIEVED % MOISTURE CALCULATIONS - ALL OF THE ATTACHED CALCULATIONS WERE CHECKED FOR ACCURACY. WWC 4 # 716, WWC 4 # 736, WWC 4 # 783, AND WWC 4 # 872 WERE CORRECTED. NO OTHER ERRORS WERE FOUND.

Environmental Science & Engineering, Inc.

Letter of Transmit

✓ 11665 Lilburn Park Rd St. Louis, MO 63146 (314) 567-4600 FAX 314-567-5030

8230 Marshall Dr. Lenexa, KS 66214 (913) 492-6554 FAX 913-492-9256

701 E. 2nd St Des Moines, IA 50309 (515) 282-9607 FAX 515-282-9610

DATE 8-17-92 JOB NO 5912031 C10

ATTENTION CYNTHIA PAVELKA

RE NL / TARACORP

WE ARE SENDING YOU ✓ Attached ☐ Under separate cover via _____ the following items

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	LATEST DATE	NO	DESCRIPTION
1			RAW DATA FOR MOISTURE ANALYSIS
1			C-O-C for samples WWC4 *934-999

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No exception taken ☐ Revise and submit ____ copies

☐ For your use ☐ Make corrections noted ☐ Submit ____ copies for distribution

☐ As requested ☐ Rejected ☐ Return ____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Cynthia –

There should be sufficient data to cover 10% for each of the files (field groups: WWC, WWC3, WWC4). Other QC results will be available soon.

SEE DATA VALIDATION FILES FOR DATA - WEC, 8/25/92

COPY TO FILE

Signed John Gemoules

* enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - reading

57578 ~~57577~~

10:35

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 37

Date Start: 5-11-92 Chem. Int.: LA | Date End: 5-12-92 Chem. Int: LA | Method:

Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
WWC4 * 701	1	NO	STIR	SOIL	1.33	5.92	6.37	14.9
702					1.32	6.22	6.59	15.3
703					1.32	6.23	6.57	15.7
704					1.32	5.69	6.09	16.2
705					1.34	6.79	7.00	16.6
706					1.33	6.18	6.59	14.9
707					1.33	5.91	6.41	14.0
708					1.33	5.65	5.82	20.5
709					1.35	5.98	6.22	18.6
710					1.35	6.44	6.62	18.2
711					1.35	5.87	6.05	19.9
712					1.36	6.69	7.02	15.4
713					1.35	5.87	6.36	14.6
714					1.35	6.88	7.19	15.1
715					1.35	5.81	6.22	16.2
716					1.35	5.93	5.26	34.0 34.1
717					1.35	5.65	6.25	13.3
718					1.35	6.38	6.74	15.5
719					1.35	5.72	6.19	15.4
720					1.34	6.35	6.88	12.8
MB					1.35	—	1.35	0
RP 720		NO		SOIL	1.36	6.87	7.33	13.1

p\chemcom\metdigst.frm.3

$$* \ [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

✓

FMA 6/4/92

57578

PERCENT MOISTURE DETERMINATION

11:40

Notebook: 2083 Page#: 38

Date Start: 5-11-92 Chem. Int.: LA | Date End: 5-12-92 Chem. Int: LA | Method:

	Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWCH *	721	2	NO	STIR	SOIL	1.33	5.91	6.53	12.0
		722					1.33	6.57	7.06	12.8
3		723					1.34	5.55	6.05	15.1
		724					1.34	6.81	6.79	20.0
		725					1.35	6.06	6.42	16.3
		726					1.35	5.48	5.86	17.9
7		727					1.34	6.21	6.31	20.0
		728					1.34	6.26	6.48	17.9
9		729					1.34	6.01	6.27	18.0
		730					1.34	6.30	6.72	14.6
11		731					1.35	5.59	6.12	14.7
		732					1.35	6.76	7.10	14.9
13		733					1.34	5.88	6.19	17.5
	[illegible] * LA	734					1.33	5.82	6.36	13.6
		735					1.34	6.10	6.57	14.3
		736					1.34	5.84	6.10	11.8 18.5
17		737					1.34	6.74	7.14	13.9
		738					1.35	6.43	6.93	13.2
19		739					1.34	5.57	5.97	16.9
		740		↓	↓	↓	1.34	6.43	6.68	17.0
21	MB						1.35	—	1.35	0
22	RP	740	↓	NO	STIR	SOIL	1.35	6.11	6.45	16.5

wp\chemcom\metdigst.frm.3

$$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$$

S7578

PERCENT MOISTURE DETERMINATION

12:20

Notebook: 2083 Page#: 39

Date Start: 5-11-92 Chem. Int.: LA | Date End: 5-12-92 Chem. Int: LA | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWCU * 741	3	NO	STIR	SOIL	1.34	6.78	7.22	13.3
	742					1.33	5.79	5.80	22.5
3	743					1.33	5.81	6.00	19.6
	744					1.33	5.87	6.03	19.9
5	745					1.33	6.58	6.54	20.8
	746					1.33	6.96	6.94	19.4
7	747					1.33	6.42	6.50	19.5
	748					1.33	5.89	6.14	18.3
9	749					1.33	5.47	5.88	16.8
	750					1.34	5.69	6.06	17.0
1	751					1.34	6.15	6.62	14.1
	752					1.35	5.53	6.06	14.8
3	753					1.34	5.31	5.69	18.1
	754					1.34	6.45	6.80	18.4
5	755					1.34	6.52	6.66	18.4
	756					1.34	6.02	6.15	20.1
7	757					1.34	6.03	5.89	24.5
	758					1.33	6.47	6.67	17.5
9	759					1.33	5.80	6.09	17.9
	760					1.33	5.54	5.88	17.9
1	MB					1.32	—	1.32	0
	RP 760		NO	STIR	SOIL	1.33	5.46	5.80	18.1

\wp\chemcom\metdiget.frm.3

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 40

Date Start: 5-11-92 Chem. Int.: LA | Date End: 5-12-92 Chem. Int: LA | Method:

	Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
1	WWC47	761	6	NO	STIR	SOIL	1.33	5.72	6.18	15.2
		762					1.32	5.60	5.85	19.1
		763					1.33	5.56	5.87	18.3
		764					1.34	5.34	5.69	18.5
		765					1.34	5.18	5.56	18.5
		766					1.35	6.72	6.67	20.8
		767					1.35	6.70	6.77	19.1
		768					1.34	6.46	6.58	18.4
		769					1.34	6.04	6.61	12.7
1		770					1.34	7.01	7.19	16.5
		771					1.34	6.53	6.66	18.5
2		772					1.34	6.22	6.68	14.1
		773					1.34	6.93	7.13	16.4
		774					1.34	5.63	5.93	18.5
		775					1.34	6.42	6.29	22.9
1u		776					1.34	5.76	6.11	17.2
		777					1.33	5.67	5.95	18.5
1o		778					1.33	5.71	6.13	15.9
		779					1.33	6.68	6.95	15.9
2u		780					1.32	6.29	6.51	17.5
	MB						1.32	—	1.32	0
2z	RP	780		NO	STIR	SOIL	1.33	6.47	6.59	18.7

rp\chemcom\metdiget.frm.3

$$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$$

FWB
6/4/92

5758

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 41

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
1	WWCH # 781	1	NO	STIR	SOIL	1.35	6.03	5.90	24.5	✓
	782					1.34	5.60	4.74	39.3	✓
3	783					1.35	5.78	6.05	18.9	18.7
	784					1.36	5.90	5.63	27.6	✓
5	785					1.32	6.20	6.49	16.6	✓
	786					1.33	5.96	6.27	17.1	✓
7	787					1.32	5.84	5.43	29.6	✓
	788					1.33	5.40	5.23	27.8	✓
9	789					1.33	6.73	6.49	23.3	✓
	790					1.33	5.53	5.77	19.7	✓
1	791					1.34	5.82	6.05	19.1	✓
	792					1.33	6.49	6.63	18.3	✓
3	793					1.33	5.37	5.79	16.9	✓
	794					1.33	5.56	6.06	14.9	✓
5	795					1.33	6.14	6.48	16.1	✓
	796					1.33	5.49	5.84	17.8	✓
7	797					1.33	5.45	5.92	15.8	✓
	798					1.33	5.60	6.11	14.6	✓
9	799					1.34	5.98	6.49	10.5	✓
	800		↓	↓	↓	1.34	5.46	6.20	11.0	✓
	MB					1.34	—	1.34	0	✓
	RP 800	↓	NO	STIR	SOIL	1.34	5.71	6.42	11.0	✓

p\chemcom\metdigst.frm.3

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

S7578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 42

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
1	WWC 4 # 801	2	NO	STIR	SOIL	1.34	5.63	6.23	13.1	✓
	802					1.34	5.48	6.14	12.4	✓
3	803					1.34	5.36	6.03	12.5	✓
	804					1.34	5.35	5.98	13.3	✓
	805					1.33	5.49	6.00	14.9	✓
	806					1.33	5.38	6.10	11.3	✓
7	807					1.33	5.61	6.25	12.3	✓
	808					1.33	5.65	5.68	23.0	✓
9	809					1.33	5.40	5.82	16.8	✓
	810					1.32	5.37	5.84	15.8	✓
11	811					1.32	5.65	6.10	15.4	✓
	812					1.33	5.34	5.88	14.8	✓
13	813					1.32	5.47	5.94	15.5	✓
	814					1.33	5.57	5.45	26.0	✓
	815					1.33	6.27	6.49	17.7	✓
	816					1.32	6.20	6.69	13.4	✓
17	817					1.33	5.39	6.05	12.4	✓
	818					1.33	5.52	6.01	15.2	✓
19	819					1.34	6.39	6.85	13.8	✓
	820		↓	↓	↓	1.34	6.33	6.39	20.2	✓
21	MB					1.34	—	1.34	0	✓
22	RP 820	↓	NO	STIR	SOIL	1.34	5.84	6.01	20.0	✓

wp\chemcom\metdiget.frm.3

$$* \ [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 43

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
WWC4 *	821	3	NO	STIR	SOIL	1.35	5.42	5.89	16.2	✓
	822					1.35	5.75	6.14	16.7	✓
	823					1.35	6.31	6.63	16.3	✓
	824					1.35	6.02	6.64	17.1	✓
	825					1.34	5.41	5.94	15.0	✓
	826					1.33	5.72	5.80	21.8	✓
	827					1.34	5.42	5.88	16.7	✓
	828					1.32	5.52	5.98	15.6	✓
	829					1.31	5.57	5.55	23.9	✓
	830					1.31	6.47	6.35	22.1	✓
	831					1.32	6.04	6.26	18.2	✓
	832					1.32	5.28	5.75	16.1	✓
	833					1.30	5.47	5.94	15.2	✓
	834					1.30	5.62	6.04	15.6	✓
	835					1.31	5.95	5.83	24.0	✓
	836					1.30	5.41	5.67	19.2	✓
	837					1.32	5.96	6.28	16.8	✓
	838					1.30	6.45	6.13	26.1	✓
	839					1.31	5.36	5.52	21.4	✓
	840		↓	↓	↓	1.32	5.78	6.00	19.0	✓
MB						1.34	—	1.34	0	✓
RP	840	↓	NO	STIR	SOIL	1.35	5.53	5.78	19.9	✓

\wp\chemcom\metdigst.fru.3

$$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 44

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

	Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
1	WWC4 *	841	4	NO	STIR	SOIL	1.34	5.45	5.64	21.1	✓
		842					1.34	6.26	6.45	18.4	✓
3		843					1.35	5.51	5.76	20.0	✓
		844					1.35	5.44	5.72	19.7	✓
		845					1.35	5.98	6.31	17.0	✓
		846					1.34	5.23	5.63	18.0	✓
7		847					1.34	5.67	5.79	21.5	✓
		848					1.34	5.55	5.81	19.4	✓
9		849					1.35	5.99	6.40	18.7	✓
		850					1.35	6.60	6.62	20.2	✓
11		851					1.35	5.81	6.18	16.9	✓
		852					1.34	5.69	6.00	18.1	✓
13		853					1.35	5.92	6.23	17.6	✓
		854					1.34	5.89	6.22	17.1	✓
		855					1.34	5.58	6.04	15.8	✓
		856					1.34	6.44	6.55	19.1	✓
17		857					1.35	6.62	6.71	19.0	✓
		858					1.31	6.92	6.95	18.5	✓
19		859					1.31	5.70	5.76	21.9	✓
		860		↓	↓	↓	1.31	5.42	5.66	19.7	✓
1	MB						1.31	—	1.31	0	✓
2	RP	860	↓	NO	STIR	SOIL	1.30	5.72	6.14	15.4	✓

\wp\chemcom\metdiget.frm.3

$$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$$

S7578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 45

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
WWC4 #	861	5	NO	STIR	SOIL	1.31	5.53	5.69	20.8	✓
	862					1.31	6.22	6.48	16.9	✓
	863					1.30	6.96	7.23	14.8	✓
	864					1.30	5.69	6.14	14.9	✓
	865					1.31	5.61	5.92	17.8	✓
	866					1.31	5.53	5.91	16.8	✓
	867					1.31	5.57	5.87	18.1	✓
	868					1.31	5.17	5.93	10.6	✓
	869					1.31	6.51	7.23	9.06	✓
	870					1.32	5.84	6.59	9.76	✓
	871					1.31	5.67	6.52	8.11	✓
	872					1.31	5.72	6.48	9.20	✓ 9.16
	873					1.33	5.60	6.18	13.4	✓
	874					1.33	5.69	6.06	16.9	✓
	875					1.32	6.63	6.76	17.9	✓
	876					1.34	5.37	5.78	17.3	✓
	877					1.34	6.37	6.34	21.5	✓
	878					1.33	6.01	6.12	20.3	✓
	879					1.33	5.39	5.59	21.0	✓
	880		↓	↓	↓	1.33	5.47	4.98	33.3	✓
MB						1.32	—	1.32	0	✓
RP	880	↓	NO	STIR	SOIL	1.32	6.07	6.61	12.8	✓

wp\chemcom\metdiget.frm.3

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 46

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC47 881	6	NO	STIR	SOIL	1.32	5.42	5.80	~~17.4~~ 17.3
	882					1.32	5.87	6.27	15.7
3	883					1.33	5.95	6.71	9.58
	884					1.33	6.22	6.70	13.7
	885					1.33	5.47	5.80	18.3
	886					1.34	5.81	6.38	13.2
7	887					1.34	5.42	5.94	15.1
	888					1.35	5.36	5.80	17.0
9	889					1.34	6.02	6.39	16.1
	890					1.35	5.30	5.73	17.4
1	891					1.34	6.08	6.35	17.6
	892					1.35	5.42	5.91	15.9
3	893					1.35	5.37	5.85	16.2
	894					1.34	5.28	5.69	17.6
	895					1.34	6.39	6.58	18.0
	896					1.34	5.38	6.72	18.6
7	897					1.32	5.60	5.88	18.6
	898					1.32	5.92	6.10	19.2
9	899					1.33	6.60	6.54	21.1
	900					1.32	5.96	6.12	19.5
	MB					1.34	—	1.34	0
	RP 900		NO	STIR	SOIL	1.33	5.55	5.79	19.6

wp\chemcom\metdigst.frm.3

$$[1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 47

Date Start: 5-12-92 Chem. Int.: LA | Date End: 5-13-92 Chem. Int: LA | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC4 * 901	7	NO	STIR	SOIL	1.33	5.36	5.82	16.2
	902					1.33	5.26	5.66	17.7
3	903					1.33	5.37	5.71	18.4
	904					1.34	5.50	5.74	20.0
5	905					1.34	5.66	6.18	14.5
	906					1.34	5.77	6.30	14.0
7	907					1.34	6.37	7.33	5.96
	— 908					1.35	6.22	7.29	4.50
9	— 909					1.35	5.74	6.68	7.14
	— 910					1.35	5.70	6.01	18.2
11	— 911					1.34	5.37	5.73	18.2
	— 912					1.34	5.42	5.67	20.1
13	— 913					1.34	5.46	5.83	17.8
	914					1.34	5.72	6.09	17.0
15	915					1.34	5.56	5.85	18.9
	916					1.34	5.26	5.78	15.6
17	917					1.34	5.38	5.84	16.4
	918					1.35	5.27	5.62	19.0
19	919					1.34	5.17	5.39	21.7
	920					1.34	6.21	6.38	18.8
	MB					1.33	—	1.33	0
	RP 920		NO	STIR	SOIL	1.32	5.33	5.64	18.9

rp\chemcom\metdigst.frm.3

$$[1-(\frac{C-A}{B})]\cdot 100 = \%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

Notebook: 2083 Page#: 48

te Start: 5-13-92 Chem. Int.: LA | Date End: 5/27 Chem. Int: CB | Method:

	Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample + Container C	% Moisture *	
1	WWC4#	921	5	NO	MIX	brown soil	1.36	5.51	5.91	17.4	✓
		922				brown soil	1.36	5.24	~~5.88~~ 5.87	13.9	✓
3		923				brown soil	1.36	5.21	5.98	11.3	✓
		924				brown soil	1.36	5.49	6.06	14.4	✓
		925				brown soil	1.36	5.15	5.80	13.8	✓
		926				brown soil	1.36	5.10	5.61	16.7	✓
7		927				brown soil	1.36	5.05	5.45	19.0	✓
		928				brown soil	1.36	5.19	6.05	9.6	✓
9		929				brown soil	1.36	5.03	5.88	10.1	✓
		930				brown soil	1.36	5.19	5.85	13.5	✓
1		931				brown soil	1.37	5.18	5.67	17.0	✓
		932				brown soil	1.37	5.14	5.62	17.3	✓
3		933				brown soil	1.38	5.19	5.63	18.1	✓
		934	#7	NO	STIR	Brown Soil	1.36	5.05	5.50	18.0	✓
		935				Black Soil	1.37	5.24	5.27	25.6	✓
		936				Black Soil	1.36	5.37	5.48	19.6	✓
7		937				Black Soil	1.36	5.03	5.60	15.7	✓
		938				Black Soil	1.36	5.06	5.58	16.6	✓
9		939				Brown Soil	1.36	5.03	5.36	20.5	✓
		940				Black Soil	1.36	5.02	5.58	15.9	✓
1	MB					—	1.35	—	1.35	0	✓
	RP	940				Black Soil	1.33	5.16	5.49	15.5	✓

\wp\chemcom\metdigst.frm.3

$$* \; [1-(\frac{C-A}{B})]*100=\%MOISTURE$$

57578

PERCENT MOISTURE DETERMINATION

#7 in oven at 11:45AM

Notebook: 2083 Page#: 49

Date Start: 5-13-92 Chem. Int.: LA | Date End: 5-18-92 Chem. Int: DB | Method:

Sample ID		Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *
WWC4 *	941	#7	NO	STIR	Black Soil	1.33	5.18	5.57	18.1
	942					1.34	5.07	5.46	18.7
	943					1.35	5.80	6.25	15.5
	944					1.34	5.06	5.31	21.5
	945					1.34	5.18	5.50	19.7
	946					1.34	5.18	5.81	13.7
	947					1.34	5.11	5.46	15.5
	948					1.35	5.01	5.43	14.6
	949					1.36	5.10	5.78	13.1
	950					1.34	5.08	5.69	14.4
	951					1.33	5.89	6.35	14.8
	952					1.36	5.08	5.31	22.2
	953	✓				1.35	5.06	5.49	18.2
	954	#1				1.35	5.03	5.50	17.5
	955					1.34	5.02	5.33	20.5
	956					1.34	5.23	5.70	16.6
	957					1.34	5.16	5.69	15.7
	958					1.33	5.00	5.45	17.6
	959					1.34	5.10	5.57	17.1
	960					1.33	5.14	5.62	16.5
MB					—	1.34	—	1.34	0
RP	960	✓	✓	✓	✓	1.35	5.24	5.73	16.4

wp\chemcom\metdiget.frm.3

$$* \; [1-(\frac{C-A}{B})] \cdot 100 = \%MOISTURE$$

S7578

PERCENT MOISTURE DETERMINATION

#1 in oven at 2:10 PM

Notebook: 2083 Page#: 50

Date Start: 6-13-92 Chem. Int.: LA Date End: 5-18-92 Chem. Int: DB Method:

	Sample ID		Location	Homogeneous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture *	
1	WBCM #	961	#1	ND	STIR	Black Soil	1.35	5.00	5.22	22.6	✓
		962					1.34	5.22	5.43	21.6	✓
3		963					1.34	5.52	5.66	21.7	✓
		964					1.34	5.01	5.25	22.0	✓
		965					1.35	5.08	5.31	22.0	✓
		966					1.35	5.02	5.25	22.3	✓
7		967					1.35	5.07	5.75	13.2	✓
		968					1.35	5.27	5.93	13.1	✓
9		969					1.34	5.24	5.60	15.5	✓
		970					1.35	5.12	5.69	15.2	✓
11		971					1.34	5.08	5.62	15.7	✓
		972					1.35	5.15	5.63	16.9	✓
13		973					1.35	5.07	5.52	17.8	✓
		974	#2				1.34	5.25	5.52	20.4	✓
15		975					1.35	5.04	5.37	20.2	✓
		976					1.35	5.11	5.71	14.7	✓
17		977					1.35	5.37	5.95	14.3	✓
		978					1.35	5.10	5.67	15.3	✓
19		979					1.36	5.98	6.04	21.7	✓
		980					1.36	5.86	6.10	19.1	✓
21	NB					—	1.36	—	1.36	0	✓
22	RP	980	✓	✓	✓	✓	1.36	5.19	5.55	19.3	✓

\wp\chemcom\metdigst.frm.3

$$* \; [1-(\frac{C-A}{B})]*100 = \%MOISTURE$$

#3 in oven at 3:10 PM S7578

PERCENT MOISTURE DETERMINATION

#2 in oven at 2:55 PM

Notebook: 2083 Page#: 51

Date Start: 5-13-92 Chem. Int.: LA | Date End: 5-18-92 Chem. Int.: DB | Method:

	Sample ID	Location	Homogenous	Method of Homogenation	Sample Description	Container Weight (g) A	Sample Weight (g) B	Dry Sample & Container C	% Moisture
1	WWC4# 981	#2	NO	STIR	Black	1.36	5.16	5.38	[redacted]
	982					1.36	5.01	5.51	17.2
3	983					1.36	5.35	5.58	21.1
	984					1.36	5.57	6.01	16.5
5	985					1.35	5.08	5.44	19.5
	986					1.35	5.90	6.32	15.6
7	987					1.35	5.15	5.72	15.1
	988					1.35	5.28	5.65	18.6
9	989					1.35	5.03	5.45	18.5
	990					1.34	5.01	5.48	17.4
11	991					1.34	5.40	5.87	16.1
	992					1.34	5.01	5.42	18.6
13	993					1.34	5.03	5.55	16.3
	994 #3					1.35	5.55	6.11	14.2
15	995					1.35	5.03	5.64	14.7
	996					1.35	5.33	5.90	[redacted] 14.6
17	997					1.36	5.11	5.72	14.7
	998					1.35	5.01	5.66	14.0
19	999					1.35	5.33	5.94	13.9
	Blank				—	1.36	—	1.36	0
21	MB				—	1.36	—	1.36	0
	RP 999	✓	✓	✓	✓	1.36	5.25	5.94	14.7

\wp\chemcom\metdigst.frm.3

$$[1-(\frac{C-A}{B})]*100=\%MOISTURE$$

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912C31 C100
NO. OF SAMPLES/
MATRIX 100/SOIL

ANALYSIS DATE: 4/13/92

SITE NL/TARACORP SUPERFUND SITE

REVIEWER [illegible]
REVIEWER'S NAME WENDY REINBOLT
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC4*SC, WWC4*100 - RPD AND SAMPLE RECOVERY OUTSIDE OF CONTROL LIMITS. LAB ATTRIBUTES TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912-031 C100
NO. OF SAMPLES/
MATRIX 1 TC/SOIL
ANALYSES DATE: 4/14/92

SITE NL/TARACORP SUPERFUND SITE

REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/7/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		N.A			
7. OVERALL ASSESSMENT		O/m			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC4#260, WWC4#240, AND WWC4#280 EXCEED RPD AND SAMPLE RECOVERY CONTROL LIMITS. LIKELY ATTRIBUTES TO SAMPLE HETEROGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 6100
NO. OF SAMPLES
MATRIX 93/SOIL
ANALYSIS DATE: 4/15/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O/M			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (1) WWC4 * 340 EXCEEDED RPD AND SAMPLE RECOVERY CONTROL LIMITS. LAB ATTRIBUTED TO SAMPLE INHOMOGENEITY. DATA QUALIFIED AS ESTIMATED (J).

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 CICC
NO. OF SAMPLES
MATRIX 238/SOIL
ANALYSIS DATE: 5/14/92

SITE NL/TARACORP SUPERFUND SITE

REVIEWER [illegible]
REVIEWER'S NAME [illegible]
COMPLETION DATE 7/7/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		✓			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS:

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 C1CC
NO. OF SAMPLES/
MATRIX 16S / SOIL
ANALYSIS DATE: 5/15/92

SITE NL/TARACORP SUPERFUND SITE

REVIEWER [illegible]
REVIEWER'S NAME Wendy Rudolph
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		(1)			
5. MATRIX SPIKE		(2)			
6. OTHER QC		NA			
7. OVERALL ASSESSMENT		O			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: (2) WWC4*671, WWC4*691 EXCEED SAMPLE RECOVERY CONTROL LIMITS. LAB ATTRIBUTES TO MATRIX INTERFERENCE. DATA QUALIFIED AS ESTIMATION (J).

COMMENTS: (1) LCS RECOVERY PERCENTAGE; LAB ATTRIBUTED TO SPIKING ERROR. SAMPLE DATA NOT AFFECTED.

METALS/WET CHEMISTRY DATA ASSESSMENT

PROJECT NO. 89MC114V
LABORATORY ESE
LAB PROJECT NO. 5912031 0100
NO. OF SAMPLES
MATRIX 1SS/SOIL
ANALYSIS DATE: 5/18/92

SITE NL/TARACORP SUPERFUND SITE
REVIEWER Wendy Reinbolt
REVIEWER'S NAME Wendy Reinbolt
COMPLETION DATE 7/17/92

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN	OTHER
1. HOLDING TIMES		✓			
2. BLANKS		✓			
3. CCV		✓			
4. STANDARD MATRIX SPIKE		✓			
5. MATRIX SPIKE		(1)			
6. OTHER QC		N/A			
7. OVERALL ASSESSMENT		O/X			

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:

COMMENTS: (1) WGC4*949 - SAMPLE RECOVERY VERY LOW. LAB ATTRIBUTES TO SPIKING ERROR. SAMPLE DATA NOT AFFECTED.

Environmental
Science &
Engineering, Inc.

June 26, 1992
ESE No. 5912031 0100

Ms. Cynthia Pavelka
Woodward-Clyde Consultants
2318 Millpark Dr.
Maryland Heights, MO 63043

RE: Report of Analytical Chemistry Results,
Woodward-Clyde Consultants - Report 5
NL/Taracorp Project

Dear Ms. Pavelka:

Enclosed is the complete report of results for nine hundred and ninety-nine (999) soil samples received in the ESE St. Louis Laboratory between March 26 and April 14, 1992. The preliminary results have been reported to you verbally on April 27, May 11 and June 19, 1992. The samples were analyzed in accordance with the approved EPA methods as indicated in the report.

The QC results are composed of two parts, precision and accuracy. The % recovery is used to assess the accuracy of the analytical method. The % recovery limits for each of the control compounds are tabulated in the following report along with the actual % recovery for the spiked sample. The difference of the recoveries of the duplicate samples are calculated as replicate % difference which is used to measure the precision of the analytical method. Both % recovery limits and replicate % difference limits used in this analysis are set forth by the United States Environmental Protection Agency as the criteria of laboratory quality control for this type of analysis.

The QC results have been reviewed by the analysts and the Laboratory Manager. Explanations for QC results that did not fall within the QC criteria are provided in the summary.

We appreciate the opportunity to be of technical service to you. If there are any questions with regard to this report, please feel free to call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

John F. Gemoules

John F. Gemoules
Laboratory Project Manager

JFG/pl/REPORT/WWC4.RP2

Enclosures

11005 Lilburn Park Road St. Louis, MO 63146-3535 Phone (314) 567-4600 Fax (314) 567-5030

MOISTURE

Pages 1 - 24

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SGR1216100A00L	WWC4*1	03/26/92	03/26/92	25.3		04/15/92
SGR1216100B00L	WWC4*2	03/26/92	03/26/92	21.7		04/15/92
SGR1216100C00L	WWC4*3	03/26/92	03/26/92	20.5		04/15/92
SGR1216200A00L	WWC4*4	03/26/92	03/26/92	21.3		04/15/92
SGR1216200B00L	WWC4*5	03/26/92	03/26/92	17.1		04/15/92
SGR1216200C00L	WWC4*6	03/26/92	03/26/92	14.1		04/15/92
SGR1225100A00L	WWC4*7	03/26/92	03/26/92	25.9		04/15/92
SGR1225100B00L	WWC4*8	03/26/92	03/26/92	22.4		04/15/92
SGR1225100C00L	WWC4*9	03/26/92	03/26/92	20.6		04/15/92
SGR1225200A00L	WWC4*10	03/26/92	03/26/92	26.7		04/15/92
SGR1225200B00L	WWC4*11	03/26/92	03/26/92	21.5		04/15/92
SGR1225200C00L	WWC4*12	03/26/92	03/26/92	21.8		04/15/92
SGR1201100A00L	WWC4*13	03/26/92	03/26/92	23.2		04/15/92
SGR1201100B00L	WWC4*14	03/26/92	03/26/92	18.8		04/15/92
SGR1201100C00L	WWC4*15	03/26/92	03/26/92	20.2		04/15/92
SGR1201200A00L	WWC4*16	03/26/92	03/26/92	30.0		04/15/92
SGR1201200B00L	WWC4*17	03/26/92	03/26/92	24.0		04/15/92
SGR1201200C00L	WWC4*18	03/26/92	03/26/92	22.6		04/15/92
SGR1242100A00L	WWC4*19	03/26/92	03/26/92	27.4		04/15/92
SGR1242100B00L	WWC4*20	03/26/92	03/26/92	22.2		04/15/92
SGR1242100C00L	WWC4*21	03/26/92	03/26/92	20.9		04/15/92
SGR1242200A00L	WWC4*22	03/26/92	03/26/92	27.8		04/15/92
SGR1242200B00L	WWC4*23	03/26/92	03/26/92	22.5		04/15/92
SGR0906100A00L	WWC4*24	03/26/92	03/26/92	22.2		04/15/92
SGR0906100B00L	WWC4*25	03/26/92	03/26/92	20.6		04/15/92
SGR0906100C00L	WWC4*26	03/26/92	03/26/92	20.8		04/15/92
SGR0906200A00L	WWC4*27	03/26/92	03/26/92	24.4		04/15/92
SGR0906200B00L	WWC4*28	03/26/92	03/26/92	22.1		04/15/92
SGR0906200C00L	WWC4*29	03/26/92	03/26/92	26.8		04/15/92
SGR0901100A00L	WWC4*30	03/26/92	03/26/92	22.4		04/15/92
SGR0901100B00L	WWC4*31	03/26/92	03/26/92	22.8		04/15/92
SGR0901100C00L	WWC4*32	03/26/92	03/26/92	21.0		04/15/92
SGR0901200A00L	WWC4*33	03/26/92	03/26/92	22.2		04/15/92
SGR0901200B00L	WWC4*34	03/26/92	03/26/92	21.1		04/15/92
SGR0901200C00L	WWC4*35	03/26/92	03/26/92	22.6		04/15/92
SGR0900100A00L	WWC4*36	03/26/92	03/26/92	22.1		04/15/92
SGR0900100B00L	WWC4*37	03/26/92	03/26/92	20.8		04/15/92
SGR0900100C00L	WWC4*38	03/26/92	03/26/92	21.1		04/15/92
SGR0900100A0LD	WWC4*39	03/26/92	03/26/92	22.7		04/15/92
SGR0900100B0LD	WWC4*40	03/26/92	03/26/92	20.0		04/15/92
SGR0902100C0LD	WWC4*41	03/26/92	03/26/92	21.3		04/15/92
SGR0900200A00L	WWC4*42	03/26/92	03/26/92	20.0		04/15/92

D

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

AMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
GR0900200B00L	WWC4*43	03/26/92	03/26/92	18.2		04/15/92	WHP
GR0900200C00L	WWC4*44	03/26/92	03/26/92	20.2		04/15/92	WHP
GR0919100A00L	WWC4*45	03/26/92	03/26/92	25.3		04/15/92	WHP
SGR0919100B00L	WWC4*46	03/26/92	03/26/92	21.4		04/15/92	WHP
SGR0919100C00L	WWC4*47	03/26/92	03/26/92	20.3		04/15/92	[illegible]
GR0919200A00L	WWC4*48	03/26/92	03/26/92	23.6		04/15/92	[illegible]
GR0919200B00L	WWC4*49	03/26/92	03/26/92	22.9		04/15/92	WHP
GR0919200C00L	WWC4*50	03/26/92	03/26/92	20.4		04/15/92	WHP
SGR1242200C00L	WWC4*51	03/26/92	03/26/92	21.5		04/15/92	WHP
SGR1125100A00L	WWC4*52	03/26/92	03/26/92	16.8		04/15/92	WHP
GR1125100B00L	WWC4*53	03/26/92	03/26/92	18.3		04/15/92	WHP
GR1125100C00L	WWC4*54	03/26/92	03/26/92	21.6		04/15/92	WHP
SGR1125200A00L	WWC4*55	03/26/92	03/26/92	30.2		04/15/92	WHP
SGR1125200B00L	WWC4*56	03/26/92	03/26/92	23.0		04/15/92	WHP
GR1125200C00L	WWC4*57	03/26/92	03/26/92	25.8		04/15/92	WHP
GR1229100A00L	WWC4*58	03/26/92	03/26/92	24.7		04/15/92	WHP
GR1229100B00L	WWC4*59	03/26/92	03/26/92	21.1		04/15/92	WHP
SGR1229100C00L	WWC4*60	03/26/92	03/26/92	18.8		04/15/92	WHP
GR1229200A00L	WWC4*61	03/26/92	03/26/92	22.9		04/15/92	[illegible]
GR1229200B00L	WWC4*62	03/26/92	03/26/92	20.9		04/15/92	[illegible]
GR1229200C00L	WWC4*63	03/26/92	03/26/92	21.4		04/15/92	WHP
SGR1231100A00L	WWC4*64	03/26/92	03/26/92	27.8		04/15/92	WHP
SGR1231100B00L	WWC4*65	03/26/92	03/26/92	22.5		04/15/92	WHP
GR1231100C00L	WWC4*66	03/26/92	03/26/92	19.6		04/15/92	WHP
GR1231200A00L	WWC4*67	03/26/92	03/26/92	23.0		04/15/92	WHP
GR1231200B00L	WWC4*68	03/26/92	03/26/92	20.6		04/15/92	WHP
SGR1231200C00L	WWC4*69	03/26/92	03/26/92	19.7		04/15/92	[illegible]
GR1238100A00L	WWC4*70	03/26/92	03/26/92	25.1		04/15/92	[illegible]
GR1238100B00L	WWC4*71	03/26/92	03/26/92	18.6		04/15/92	WHP
GR1238100C00L	WWC4*72	03/26/92	03/26/92	19.8		04/15/92	WHP
SGR1308100A00L	WWC4*73	03/27/92	03/27/92	29.6		04/15/92	WHP
SGR1308100B00L	WWC4*74	03/27/92	03/27/92	21.7		04/15/92	WHP
GR1308100C00L	WWC4*75	03/27/92	03/27/92	21.3		04/15/92	WHP
GR1308100A0LD	WWC4*76	03/27/92	03/27/92	24.8		04/15/92	WHP
GR1308100B0LD	WWC4*77	03/27/92	03/27/92	22.0		04/15/92	WHP
SGR1308100C0LD	WWC4*78	03/27/92	03/27/92	22.2		04/15/92	WHP
GR1308200A00L	WWC4*79	03/27/92	03/27/92	18.9		04/15/92	WHP
GR1308200B00L	WWC4*80	03/27/92	03/27/92	25.8		04/15/92	WHP
GR1308200C00L	WWC4*81	03/27/92	03/27/92	21.8		04/15/92	WHP
SGR1310100A00L	WWC4*82	03/27/92	03/27/92	23.7		04/15/92	WHP
SGR1310100B00L	WWC4*83	03/27/92	03/27/92	18.2		04/15/92	WHP
GR1310100C00L	WWC4*84	03/27/92	03/27/92	18.8		04/15/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SGR1310200A00L	WWC4*85	03/27/92	03/27/92	21.6		04/15/92
SGR1310200B00L	WWC4*86	03/27/92	03/27/92	26.9		04/15/92
SGR1310200C00L	WWC4*87	03/27/92	03/27/92	32.7		04/15/92
SGR1101100A00L	WWC4*88	03/27/92	03/27/92	23.0		04/15/92
SGR1101100B00L	WWC4*89	03/27/92	03/27/92	20.3		04/15/92
SGR1101100C00L	WWC4*90	03/27/92	03/27/92	20.6		04/15/92
SGR1101200A00L	WWC4*91	03/27/92	03/27/92	23.5		04/15/92
SGR1101200B00L	WWC4*92	03/27/92	03/27/92	20.2		04/15/92
SGR1101200C00L	WWC4*93	03/27/92	03/27/92	26.1		04/15/92
SGR0801100A00L	WWC4*94	03/27/92	03/27/92	22.7		04/15/92
SGR0801100B00L	WWC4*95	03/27/92	03/27/92	18.0		04/15/92
SGR0801100C00L	WWC4*96	03/27/92	03/27/92	18.5		04/15/92
SGR0801200A00L	WWC4*97	03/27/92	03/27/92	22.4		04/15/92
SGR0801200B00L	WWC4*98	03/27/92	03/27/92	16.8		04/15/92
SGR0801200C00L	WWC4*99	03/27/92	03/27/92	16.2		04/15/92
SGR0805100A00L	WWC4*100	03/27/92	03/27/92	22.5		04/15/92
SGR0805100B00L	WWC4*101	03/27/92	03/27/92	19.3		04/15/92
SGR0805100C00L	WWC4*102	03/27/92	03/27/92	20.7		04/15/92
SGR0805200A00L	WWC4*103	03/27/92	03/27/92	23.9		04/15/92
SGR0805200B00L	WWC4*104	03/27/92	03/27/92	23.6		04/15/92
SGR0805200C00L	WWC4*105	03/27/92	03/27/92	22.1		04/15/92
SGR0825100A00L	WWC4*106	03/27/92	03/27/92	22.0		04/15/92
SGR0825100B00L	WWC4*107	03/27/92	03/27/92	21.0		04/15/92
SGR0825100C00L	WWC4*108	03/27/92	03/27/92	19.8		04/15/92
SGR0825200A00L	WWC4*109	03/27/92	03/27/92	19.7		04/15/92
SGR0825200B00L	WWC4*110	03/27/92	03/27/92	19.1		04/15/92
SGR0825200C00L	WWC4*111	03/27/92	03/27/92	20.9		04/15/92
SIO0823100A00L	WWC4*112	03/27/92	03/27/92	18.8		04/15/92
SIO0823100B00L	WWC4*113	03/27/92	03/27/92	17.8		04/15/92
SIO0823100C00L	WWC4*114	03/27/92	03/27/92	17.5		04/15/92
SIO0817100A00L	WWC4*115	03/27/92	03/27/92	18.4		04/15/92
SIO0817100B00L	WWC4*116	03/27/92	03/27/92	19.6		04/15/92
IO0817100C00L	WWC4*117	03/27/92	03/27/92	18.7		04/15/92
IO0817200A00L	WWC4*118	03/27/92	03/27/92	19.0		04/15/92
IO0817200B00L	WWC4*119	03/27/92	03/27/92	17.4		04/15/92
SIO0817200C00L	WWC4*120	03/27/92	03/27/92	17.4		04/15/92
SIO0810100A00L	WWC4*121	03/27/92	03/27/92	24.6		04/15/92
IO0810100B00L	WWC4*122	03/27/92	03/27/92	17.1		04/15/92
IO0810100C00L	WWC4*123	03/27/92	03/27/92	18.2		04/15/92
SIO0810200A00L	WWC4*124	03/27/92	03/27/92	15.5		04/15/92
SIO0810200B00L	WWC4*125	03/27/92	03/27/92	15.6		04/15/92
IO0810200C00L	WWC4*126	03/27/92	03/27/92	11.2		04/15/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL PAGE# 4

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100 REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SIO0803100A00L	WWC4*127	03/27/92	03/27/92	20.9		04/15/92	WHP
SIO0803100B00L	WWC4*128	03/27/92	03/27/92	20.2		04/15/92	WHP
SIO0803100C00L	WWC4*129	03/27/92	03/27/92	20.4		04/15/92	WHP
SIO0805100A00L	WWC4*130	03/27/92	03/27/92	22.2		04/15/92	WHP
SIO0805100B00L	WWC4*131	03/27/92	03/27/92	20.6		04/15/92	[illegible]
SIO0805100C00L	WWC4*132	03/27/92	03/27/92	19.9		04/15/92	[illegible]
SIO0804100A00L	WWC4*133	03/27/92	03/27/92	20.0		04/15/92	WHP
SIO0804100B00L	WWC4*134	03/27/92	03/27/92	17.8		04/15/92	WHP
SIO0804100C00L	WWC4*135	03/27/92	03/27/92	16.8		04/15/92	WHP
SIO0804200A00L	WWC4*136	03/27/92	03/27/92	16.0		04/15/92	WHP
SIO0804200B00L	WWC4*137	03/27/92	03/27/92	14.6		04/15/92	WHP
SIO0804200C00L	WWC4*138	03/27/92	03/27/92	11.7		04/15/92	WHP
SED2121100A00L	WWC4*139	03/30/92	03/30/92	21.3		04/15/92	WHP
SED2121100B00L	WWC4*140	03/30/92	03/30/92	19.1		04/15/92	WHP
SED2121100C00L	WWC4*141	03/30/92	03/30/92	21.2		04/15/92	WHP
SED2121200A00L	WWC4*142	03/30/92	03/30/92	22.4		04/15/92	WHP
SED2121200B00L	WWC4*143	03/30/92	03/30/92	20.6		04/15/92	WHP
SED2121200C00L	WWC4*144	03/30/92	03/30/92	20.3		04/15/92	WHP
SED2122100A00L	WWC4*145	03/30/92	03/30/92	27.9		04/15/92	[illegible]
SED2122100B00L	WWC4*146	03/30/92	03/30/92	21.8		04/15/92	[illegible]
SED2122100C00L	WWC4*147	03/30/92	03/30/92	22.0		04/15/92	[illegible]
SED2123100A00L	WWC4*148	03/30/92	03/30/92	20.8		04/15/92	WHP
SED2123100B00L	WWC4*149	03/30/92	03/30/92	20.1		04/15/92	WHP
SED2123100C00L	WWC4*150	03/30/92	03/30/92	16.9		04/15/92	WHP
SED2123200A00L	WWC4*151	03/30/92	03/30/92	23.7		04/15/92	WHP
SED2123200B00L	WWC4*152	03/30/92	03/30/92	17.6		04/15/92	WHP
SED2123200C00L	WWC4*153	03/30/92	03/30/92	17.4		04/15/92	[illegible]
SED2125100A00L	WWC4*154	03/30/92	03/30/92	30.5		04/15/92	[illegible]
SED2125100B00L	WWC4*155	03/30/92	03/30/92	21.8		04/15/92	WHP
SED2125100C00L	WWC4*156	03/30/92	03/30/92	20.1		04/15/92	WHP
SED2125200A00L	WWC4*157	03/30/92	03/30/92	22.5		04/15/92	WHP
SED2125200B00L	WWC4*158	03/30/92	03/30/92	18.7		04/15/92	WHP
SED2125200C00L	WWC4*159	03/30/92	03/30/92	17.2		04/15/92	WHP
SED2128100A00L	WWC4*160	03/30/92	03/30/92	22.4		04/15/92	WHP
SED2128100B00L	WWC4*161	03/30/92	03/30/92	20.1		04/15/92	WHP
SED2128100C00L	WWC4*162	03/30/92	03/30/92	21.1		04/15/92	WHP
SED2128200A00L	WWC4*163	03/30/92	03/30/92	21.4		04/15/92	WHP
SED2128200B00L	WWC4*164	03/30/92	03/30/92	19.3		04/15/92	WHP
SED2128200C00L	WWC4*165	03/30/92	03/30/92	20.7		04/15/92	WHP
SED2141100A00L	WWC4*166	03/30/92	03/30/92	22.3		04/15/92	WHP
SED2141100B00L	WWC4*167	03/30/92	03/30/92	17.7		04/15/92	WHP
SED2141100C00L	WWC4*168	03/30/92	03/30/92	18.0		04/15/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 06-23-92

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SED2141200A00L	WWC4*169	03/30/92	03/30/92	17.8		04/15/92
ED2141200B00L	WWC4*170	03/30/92	03/30/92	15.2		04/15/92
ED2141200C00L	WWC4*171	03/30/92	03/30/92	14.2		04/15/92
SED2149100A00L	WWC4*172	03/30/92	03/30/92	21.4		04/15/92
SED2149100B00L	WWC4*173	03/30/92	03/30/92	18.0		04/15/92
ED2149100C00L	WWC4*174	03/30/92	03/30/92	16.9		04/15/92
ED2149200A00L	WWC4*175	03/30/92	03/30/92	25.0		04/15/92
ED2149200B00L	WWC4*176	03/30/92	03/30/92	21.9		04/15/92
SED2149200C00L	WWC4*177	03/30/92	03/30/92	19.4		04/15/92
SST2150100A00L	WWC4*178	03/30/92	03/30/92	21.2		04/15/92
ST2150100B00L	WWC4*179	03/30/92	03/30/92	23.0		04/15/92
ST2150100C00L	WWC4*180	03/30/92	03/30/92	23.0		04/15/92
SST2150200A00L	WWC4*181	03/30/92	03/30/92	24.4		04/15/92
SST2150200B00L	WWC4*182	03/30/92	03/30/92	25.2		04/15/92
ST2150200C00L	WWC4*183	03/30/92	03/30/92	29.8		04/15/92
ST2162100A00L	WWC4*184	03/30/92	03/30/92	25.1		04/15/92
ST2162100B00L	WWC4*185	03/30/92	03/30/92	24.5		04/15/92
SST2162100C00L	WWC4*186	03/30/92	03/30/92	23.6		04/15/92
ST2162200A00L	WWC4*187	03/30/92	03/30/92	26.0		04/15/92
ST2162200B00L	WWC4*188	03/30/92	03/30/92	26.5		04/15/92
ST2162200C00L	WWC4*189	03/30/92	03/30/92	28.0		04/15/92
SST2159100A00L	WWC4*190	03/30/92	03/30/92	26.2		04/15/92
SST2159100B00L	WWC4*191	03/30/92	03/30/92	22.6		04/15/92
ST2159100C00L	WWC4*192	03/30/92	03/30/92	20.5		04/15/92
ST2159200A00L	WWC4*193	03/30/92	03/30/92	26.1		04/15/92
ST2159200B00L	WWC4*194	03/30/92	03/30/92	20.7		04/15/92
ST2159200C00L	WWC4*195	03/30/92	03/30/92	20.2		04/15/92
GR2139200A00L	WWC4*196	03/30/92	03/30/92	22.4		04/15/92
GR2139200B00L	WWC4*197	03/30/92	03/30/92	17.7		04/15/92
GR2139200C00L	WWC4*198	03/30/92	03/30/92	18.8		04/15/92
SST2148200A00L	WWC4*199	03/30/92	03/30/92	23.8		04/15/92
SST2148200B00L	WWC4*200	03/30/92	03/30/92	22.8		04/15/92
ST2148200C00L	WWC4*201	03/30/92	03/30/92	23.7		04/15/92
ST2147100A00L	WWC4*202	03/30/92	03/30/92	22.1		04/15/92
ST2147100B00L	WWC4*203	03/30/92	03/30/92	20.6		04/15/92
SST2147100C00L	WWC4*204	03/30/92	03/30/92	20.0		04/15/92
ST2147200A00L	WWC4*205	03/30/92	03/30/92	22.9		04/15/92
ST2147200B00L	WWC4*206	03/30/92	03/30/92	17.6		04/15/92
ST2147200C00L	WWC4*207	03/30/92	03/30/92	19.8		04/15/92
SMC1115100A00L	WWC4*208	03/31/92	03/31/92	24.8		04/15/92
SMC1115100B00L	WWC4*209	03/31/92	03/31/92	19.3		04/15/92
MC1115100C00L	WWC4*210	03/31/92	03/31/92	17.2		04/15/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SMC1115200A00L	WWC4*211	03/31/92	03/31/92	23.2		04/15/92	WHI
SMC1115200B00L	WWC4*212	03/31/92	03/31/92	19.2		04/15/92	WHI
SMC1115200C00L	WWC4*213	03/31/92	03/31/92	24.5		04/15/92	WHI
SMC1111100A00L	WWC4*214	03/31/92	03/31/92	20.1		04/15/92	[illegible]
SMC1111100B00L	WWC4*215	03/31/92	03/31/92	18.9		04/15/92	[illegible]
SMC1111100C00L	WWC4*216	03/31/92	03/31/92	18.3		04/15/92	[illegible]
SMC1111200A00L	WWC4*217	03/31/92	03/31/92	26.1		04/15/92	WHP
SMC1111200B00L	WWC4*218	03/31/92	03/31/92	22.6		04/15/92	WHP
SMC1111200C00L	WWC4*219	03/31/92	03/31/92	22.0		04/15/92	WHP
SMC1105100A00L	WWC4*220	03/31/92	03/31/92	25.5		04/15/92	WHP
SMC1105100B00L	WWC4*221	03/31/92	03/31/92	21.9		04/15/92	WHP
SMC1105100C00L	WWC4*222	03/31/92	03/31/92	22.0		04/15/92	WHP
SMC1105200A00L	WWC4*223	03/31/92	03/31/92	33.9		04/15/92	WHP
SMC1105200B00L	WWC4*224	03/31/92	03/31/92	20.6		04/15/92	WHP
SMC1105200C00L	WWC4*225	03/31/92	03/31/92	21.7		04/15/92	WHP
SMC1103100A00L	WWC4*226	03/31/92	03/31/92	22.6		04/15/92	WHP
SMC1103100B00L	WWC4*227	03/31/92	03/31/92	20.2		04/15/92	WHP
SMC1103100C00L	WWC4*228	03/31/92	03/31/92	18.6		04/15/92	WHP
SMC1103200A00L	WWC4*229	03/31/92	03/31/92	19.9		04/15/92	[illegible]
SMC1103200B00L	WWC4*230	03/31/92	03/31/92	20.6		04/15/92	[illegible]
SMC1103200C00L	WWC4*231	03/31/92	03/31/92	20.0		04/15/92	[illegible]
SGW0916100A00L	WWC4*232	03/31/92	03/31/92	23.5		04/15/92	WHP
SGW0916100B00L	WWC4*233	03/31/92	03/31/92	18.5		04/15/92	WHP
SGW0916100C00L	WWC4*234	03/31/92	03/31/92	18.9		04/15/92	WHP
SGW0916200A00L	WWC4*235	03/31/92	03/31/92	18.0		04/15/92	WHP
SGW0916200B00L	WWC4*236	03/31/92	03/31/92	20.8		04/15/92	WHP
SGW0916200C00L	WWC4*237	03/31/92	03/31/92	23.0		04/15/92	[illegible]
SGW1028100A00L	WWC4*238	03/31/92	03/31/92	20.6		04/15/92	[illegible]
SGW1028100B00L	WWC4*239	03/31/92	03/31/92	17.8		04/15/92	WHP
SGW1028100C00L	WWC4*240	03/31/92	03/31/92	17.1		04/15/92	WHP
SGW1028200A00L	WWC4*241	03/31/92	03/31/92	22.4		04/15/92	WHP
SGW1028200B00L	WWC4*242	03/31/92	03/31/92	21.4		04/15/92	WHP
SGW1028200C00L	WWC4*243	03/31/92	03/31/92	20.8		04/15/92	WHP
SGW1012100A00L	WWC4*244	03/31/92	03/31/92	25.4		04/15/92	WHP
SGW1012100B00L	WWC4*245	03/31/92	03/31/92	22.4		04/15/92	WHP
SGW1012100C00L	WWC4*246	03/31/92	03/31/92	22.7		04/15/92	WHP
SGW1015100A00L	WWC4*247	03/31/92	03/31/92	28.7		04/15/92	WHP
SGW1015100B00L	WWC4*248	03/31/92	03/31/92	20.8		04/15/92	WHP
SGW1015100C00L	WWC4*249	03/31/92	03/31/92	20.4		04/15/92	WHP
SGW1015200A00L	WWC4*250	03/31/92	03/31/92	29.1		04/15/92	WHP
SGW1015200B00L	WWC4*251	03/31/92	03/31/92	21.7		04/15/92	WHP
SGW1015200C00L	WWC4*252	03/31/92	03/31/92	19.2		04/15/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SGW1020100A00L	WWC4*253	03/31/92	03/31/92	22.1		04/15/92
GW1020100B00L	WWC4*254	03/31/92	03/31/92	22.8		04/15/92
GW1020100C00L	WWC4*255	03/31/92	03/31/92	21.7		04/15/92
SGW1020200A00L	WWC4*256	03/31/92	03/31/92	26.8		04/15/92
SGW1020200B00L	WWC4*257	03/31/92	03/31/92	23.7		04/15/92
GW1020200C00L	WWC4*258	03/31/92	03/31/92	23.7		04/15/92
GW1012200A00L	WWC4*259	03/31/92	03/31/92	24.3		04/15/92
GW1012200B00L	WWC4*260	03/31/92	03/31/92	20.7		04/15/92
SGW1012200C00L	WWC4*261	03/31/92	03/31/92	21.6		04/15/92
SGW1034100A00L	WWC4*262	03/31/92	03/31/92	21.3		04/15/92
GW1034100B00L	WWC4*263	03/31/92	03/31/92	18.3		04/15/92
GW1034100C00L	WWC4*264	03/31/92	03/31/92	18.1		04/15/92
SGW1026100A00L	WWC4*265	03/31/92	03/31/92	28.6		04/15/92
SGW1026100B00L	WWC4*266	03/31/92	03/31/92	25.4		04/15/92
GW1026100C00L	WWC4*267	03/31/92	03/31/92	23.3		04/15/92
GW1026200A00L	WWC4*268	03/31/92	03/31/92	27.9		04/15/92
GW1026200B00L	WWC4*269	03/31/92	03/31/92	22.4		04/15/92
SGW1026200C00L	WWC4*270	03/31/92	03/31/92	20.8		04/15/92
SIO0823200A00L	WWC4*271	03/31/92	03/31/92	21.4		04/15/92
IO0823200B00L	WWC4*272	03/31/92	03/31/92	18.8		04/15/92
IO0823200C00L	WWC4*273	03/31/92	03/31/92	18.6		04/15/92
SED2223100A00L	WWC4*274	04/01/92	04/01/92	20.9		04/15/92
SED2223100B00L	WWC4*275	04/01/92	04/01/92	14.6		04/15/92
ED2223100C00L	WWC4*276	04/01/92	04/01/92	16.1		04/15/92
ED2223200A00L	WWC4*277	04/01/92	04/01/92	18.8		04/15/92
ED2223200B00L	WWC4*278	04/01/92	04/01/92	17.2		04/15/92
SED2223200C00L	WWC4*279	04/01/92	04/01/92	18.6		04/15/92
ED2223100A0LD	WWC4*280	04/01/92	04/01/92	19.1		04/15/92
ED2223100B0LD	WWC4*281	04/01/92	04/01/92	15.4		04/18/92
ED2223100C0LD	WWC4*282	04/01/92	04/01/92	14.9		04/18/92
SED2207100A00L	WWC4*283	04/01/92	04/01/92	20.7		04/18/92
SED2207100B00L	WWC4*284	04/01/92	04/01/92	19.0		04/18/92
ED2207100C00L	WWC4*285	04/01/92	04/01/92	18.8		04/18/92
ED2207200A00L	WWC4*286	04/01/92	04/01/92	22.3		04/18/92
ED2207200B00L	WWC4*287	04/01/92	04/01/92	22.1		04/18/92
SED2207200C00L	WWC4*288	04/01/92	04/01/92	20.9		04/18/92
ED2212100A00L	WWC4*289	04/01/92	04/01/92	21.2		04/18/92
ED2212100B00L	WWC4*290	04/01/92	04/01/92	17.2		04/18/92
ED2212100C00L	WWC4*291	04/01/92	04/01/92	14.9		04/18/92
SED2212200A00L	WWC4*292	04/01/92	04/01/92	19.1		04/18/92
SED2212200B00L	WWC4*293	04/01/92	04/01/92	18.5		04/18/92
ED2212200C00L	WWC4*294	04/01/92	04/01/92	17.4		04/18/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SED2212100A0LD	WWC4*295	04/01/92	04/01/92	21.7		04/18/92	WHP
SED2212100B0LD	WWC4*296	04/01/92	04/01/92	17.3		04/18/92	WHP
SED2235200A00L	WWC4*297	04/01/92	04/01/92	23.4		04/18/92	WHP
SED2235200B00L	WWC4*298	04/01/92	04/01/92	21.6		04/18/92	WHP
SED2235200C00L	WWC4*299	04/01/92	04/01/92	21.2		04/18/92	[illegible]
SED2232100A00L	WWC4*300	04/01/92	04/01/92	16.8		04/18/92	[illegible]
SED2232100B00L	WWC4*301	04/01/92	04/01/92	16.2		04/18/92	WHP
SED2232100C00L	WWC4*302	04/01/92	04/01/92	19.2		04/18/92	WHP
SED2232200A00L	WWC4*303	04/01/92	04/01/92	17.1		04/18/92	WHP
SED2232200B00L	WWC4*304	04/01/92	04/01/92	16.4		04/18/92	WHP
SED2232200C00L	WWC4*305	04/01/92	04/01/92	18.5		04/18/92	WHP
SED2237100A00L	WWC4*306	04/01/92	04/01/92	20.6		04/18/92	WHP
SED2237100B00L	WWC4*307	04/01/92	04/01/92	18.1		04/18/92	WHP
SED2237100C00L	WWC4*308	04/01/92	04/01/92	17.1		04/18/92	WHP
SED2237100A0LD	WWC4*309	04/01/92	04/01/92	18.8		04/18/92	WHP
SED2237100B0LD	WWC4*310	04/01/92	04/01/92	16.8		04/18/92	WHP
SED2237100C0LD	WWC4*311	04/01/92	04/01/92	16.9		04/18/92	WHP
SED2237200A00L	WWC4*312	04/01/92	04/01/92	20.4		04/18/92	WHP
SED2237200B00L	WWC4*313	04/01/92	04/01/92	15.1		04/18/92	[illegible]
SED2237200C00L	WWC4*314	04/01/92	04/01/92	20.8		04/18/92	[illegible]
SED2245100A00L	WWC4*315	04/01/92	04/01/92	24.3		04/18/92	[illegible]
SED2245100B00L	WWC4*316	04/01/92	04/01/92	21.9		04/18/92	WHP
SED2245100C00L	WWC4*317	04/01/92	04/01/92	21.2		04/18/92	WHP
SED2245200A00L	WWC4*318	04/01/92	04/01/92	24.9		04/18/92	WHP
SED2245200B00L	WWC4*319	04/01/92	04/01/92	21.7		04/18/92	WHP
SED2225200B00L	WWC4*320	04/01/92	04/01/92	20.8		04/18/92	WHP
SED2225200C00L	WWC4*321	04/01/92	04/01/92	18.8		04/18/92	W[illegible]
SED2215100A00L	WWC4*322	04/01/92	04/01/92	25.2		04/18/92	W[illegible]
SED2215100B00L	WWC4*323	04/01/92	04/01/92	20.4		04/18/92	WH[illegible]
SED2215100C00L	WWC4*324	04/01/92	04/01/92	19.0		04/18/92	WHP
SED2215200A00L	WWC4*325	04/01/92	04/01/92	21.6		04/18/92	WHP
SED2215200B00L	WWC4*326	04/01/92	04/01/92	17.7		04/18/92	WHP
ED2215200C00L	WWC4*327	04/01/92	04/01/92	14.8		04/18/92	WHP
ED2222100A00L	WWC4*328	04/01/92	04/01/92	20.0		04/18/92	WHP
ED2222100B00L	WWC4*329	04/01/92	04/01/92	15.5		04/18/92	WHP
SED2222100C00L	WWC4*330	04/01/92	04/01/92	16.9		04/18/92	WHP
SED2222200A00L	WWC4*331	04/01/92	04/01/92	18.6		04/18/92	WHP
ED2222200B00L	WWC4*332	04/01/92	04/01/92	16.8		04/18/92	WHP
ED2222200C00L	WWC4*333	04/01/92	04/01/92	13.0		04/18/92	WHP
SED2230100A00L	WWC4*334	04/01/92	04/01/92	21.8		04/18/92	WHP
SED2230100B00L	WWC4*335	04/01/92	04/01/92	17.6		04/18/92	WHP
ED2230100C00L	WWC4*336	04/01/92	04/01/92	14.9		04/18/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11965 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SED2230200A00L	WWC4*337	04/01/92	04/01/92	19.9		04/18/92
SED2230200B00L	WWC4*338	04/01/92	04/01/92	18.2		04/18/92
SED2235100B00L	WWC4*341	04/01/92	04/01/92	19.4		04/23/92
SED2235100C00L	WWC4*342	04/01/92	04/01/92	18.8		04/23/92
SED2212100C0LD	WWC4*343	04/01/92	04/01/92	16.2		04/23/92
SED2218100A00L	WWC4*344	04/01/92	04/01/92	18.0		04/23/92
SED2218100B00L	WWC4*345	04/01/92	04/01/92	17.2		04/23/92
SED2218100C00L	WWC4*346	04/01/92	04/01/92	16.5		04/23/92
SED2218200A00L	WWC4*347	04/01/92	04/01/92	18.7		04/23/92
SED2218200B00L	WWC4*348	04/01/92	04/01/92	15.9		04/23/92
SED2218200C00L	WWC4*349	04/01/92	04/01/92	12.4		04/23/92
SED2219100A00L	WWC4*350	04/01/92	04/01/92	20.6		04/23/92
SED2219100B00L	WWC4*351	04/01/92	04/01/92	17.6		04/23/92
SED2219100C00L	WWC4*352	04/01/92	04/01/92	16.6		04/23/92
SED2219200A00L	WWC4*353	04/01/92	04/01/92	18.9		04/23/92
SED2219200B00L	WWC4*354	04/01/92	04/01/92	16.6		04/23/92
SED2219200C00L	WWC4*355	04/01/92	04/01/92	18.1		04/23/92
SED2211100A00L	WWC4*356	04/01/92	04/01/92	19.8		04/23/92
SED2211100B00L	WWC4*357	04/01/92	04/01/92	18.7		04/23/92
SED2211100C00L	WWC4*358	04/01/92	04/01/92	16.8		04/23/92
SED2211200A00L	WWC4*359	04/01/92	04/01/92	21.9		04/23/92
SED2211200B00L	WWC4*360	04/01/92	04/01/92	20.8		04/23/92
SED2211200C00L	WWC4*361	04/01/92	04/01/92	19.1		04/23/92
SED2225100A00L	WWC4*362	04/01/92	04/01/92	19.3		04/23/92
SED2225100B00L	WWC4*363	04/01/92	04/01/92	17.0		04/23/92
SED2225100C00L	WWC4*364	04/01/92	04/01/92	17.6		04/23/92
SED2225200A00L	WWC4*365	04/01/92	04/01/92	23.4		04/23/92
SED2245200C00L	WWC4*366	04/01/92	04/01/92	18.1		04/23/92
SST2250100A00L	WWC4*367	04/02/92	04/02/92	15.0		04/23/92
SST2250100A0LD	WWC4*368	04/02/92	04/02/92	15.7		04/23/92
SST2250100B00L	WWC4*369	04/02/92	04/02/92	15.8		04/23/92
SST2250100B0LD	WWC4*370	04/02/92	04/02/92	15.6		04/23/92
SST2250100C00L	WWC4*371	04/02/92	04/02/92	15.5		04/23/92
SST2250100C0LD	WWC4*372	04/02/92	04/02/92	16.8		04/23/92
SST2250200A00L	WWC4*373	04/02/92	04/02/92	20.4		04/23/92
SST2250200B00L	WWC4*374	04/02/92	04/02/92	23.7		04/23/92
SST2250200C00L	WWC4*375	04/02/92	04/02/92	16.0		04/23/92
SST2248100A00L	WWC4*376	04/02/92	04/02/92	20.3		04/23/92
SST2248100B00L	WWC4*377	04/02/92	04/02/92	18.7		04/23/92
SST2248100C00L	WWC4*378	04/02/92	04/02/92	17.2		04/23/92
SST2248200A00L	WWC4*379	04/02/92	04/02/92	26.7		04/23/92
SST2248200B00L	WWC4*380	04/02/92	04/02/92	26.2		04/23/92

Environmental
Science &
Engineering, Inc.

St. Louis Chemistry Laboratory

1165 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
ST2248200A00L	WWC4*379	04/02/92	04/02/92	26.7		04/23/92	CAG
ST2248200B00L	WWC4*380	04/02/92	04/02/92	26.2		04/23/92	CAG
ST2248200C00L	WWC4*381	04/02/92	04/02/92	23.4		04/23/92	WHP
SST2244100A00L	WWC4*382	04/02/92	04/02/92	21.1		04/23/92	WHP
SST2244100B00L	WWC4*383	04/02/92	04/02/92	18.2		04/23/92	[illegible]
ST2244100C00L	WWC4*384	04/02/92	04/02/92	16.2		04/23/92	[illegible]
ST2244200A00L	WWC4*385	04/02/92	04/02/92	10.7		04/23/92	WHP
ST2244200B00L	WWC4*386	04/02/92	04/02/92	17.0		04/23/92	WHP
SST2244200C00L	WWC4*387	04/02/92	04/02/92	14.1		04/23/92	WHP
ST2222100A00L	WWC4*388	04/02/92	04/02/92	20.5		04/23/92	WHP
ST2222100B00L	WWC4*389	04/02/92	04/02/92	20.3		04/23/92	WHP
ST2222100C00L	WWC4*390	04/02/92	04/02/92	20.3		04/23/92	WHP
SST2222200A00L	WWC4*391	04/02/92	04/02/92	21.0		04/23/92	WHP
SST2222200B00L	WWC4*392	04/02/92	04/02/92	15.5		04/23/92	WHP
ST2222200C00L	WWC4*393	04/02/92	04/02/92	9.6		04/23/92	WHP
ST2223100A00L	WWC4*394	04/02/92	04/02/92	19.5		04/23/92	WHP
ST2223100B00L	WWC4*395	04/02/92	04/02/92	17.7		04/23/92	WHP
SST2223100C00L	WWC4*396	04/02/92	04/02/92	16.8		04/23/92	WHP
ST2223200A00L	WWC4*397	04/02/92	04/02/92	21.7		04/23/92	[illegible]
ST2223200B00L	WWC4*398	04/02/92	04/02/92	19.5		04/23/92	[illegible]
ST2223200C00L	WWC4*399	04/02/92	04/02/92	18.9		04/23/92	[illegible]
SST2226100A00L	WWC4*400	04/02/92	04/02/92	20.3		04/23/92	WHP
SST2226100B00L	WWC4*401	04/02/92	04/02/92	18.8		04/23/92	WHP
ST2226100C00L	WWC4*402	04/02/92	04/02/92	18.8		04/23/92	WHP
ST2226200A00L	WWC4*403	04/02/92	04/02/92	22.1		04/23/92	WHP
ST2226200B00L	WWC4*404	04/02/92	04/02/92	19.8		04/23/92	WHP
SST2226200C00L	WWC4*405	04/02/92	04/02/92	19.8		04/23/92	[illegible]
ST2235100A00L	WWC4*406	04/02/92	04/02/92	23.2		04/23/92	[illegible]
ST2235100B00L	WWC4*407	04/02/92	04/02/92	21.7		04/23/92	[illegible]
ST2235100C00L	WWC4*408	04/02/92	04/02/92	22.8		04/23/92	WHP
SST2235200A00L	WWC4*409	04/02/92	04/02/92	22.6		04/23/92	WHP
SST2235200B00L	WWC4*410	04/02/92	04/02/92	19.6		04/23/92	WHP
ST2235200C00L	WWC4*411	04/02/92	04/02/92	21.1		04/23/92	WHP
ST2210100A00L	WWC4*412	04/02/92	04/02/92	22.1		04/23/92	WHP
ST2210100B00L	WWC4*413	04/02/92	04/02/92	20.3		04/23/92	WHP
SST2210100C00L	WWC4*414	04/02/92	04/02/92	22.8		04/23/92	WHP
ST2210200A00L	WWC4*415	04/02/92	04/02/92	19.6		04/23/92	WHP
ST2210200B00L	WWC4*416	04/02/92	04/02/92	25.6		04/23/92	WHP
ST2210200C00L	WWC4*417	04/02/92	04/02/92	23.9		04/23/92	WHP
SST2212100A00L	WWC4*418	04/02/92	04/02/92	22.7		04/23/92	WHP
SST2212100B00L	WWC4*419	04/02/92	04/02/92	20.0		04/23/92	WHP
ST2212100C00L	WWC4*420	04/02/92	04/02/92	18.1		04/23/92	WHP

Environmental
Science &
Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CH IN
^ST2212200A00L	WWC4*421	04/02/92	04/02/92	26.2		04/23/92	W
ST2212200B00L	WWC4*422	04/02/92	04/02/92	20.5		04/23/92	W
ST2212200C00L	WWC4*423	04/02/92	04/02/92	19.0		04/23/92	W
SST2214100A00L	WWC4*424	04/02/92	04/02/92	23.9		04/23/92	W
ST2214100B00L	WWC4*425	04/02/92	04/02/92	20.2		04/23/92	W
ST2214100C00L	WWC4*426	04/02/92	04/02/92	22.2		04/23/92	W
ST2214100A0LD	WWC4*427	04/02/92	04/02/92	23.7		04/23/92	W
₅ST2214100B0LD	WWC4*428	04/02/92	04/02/92	20.7		04/23/92	W
SST2214100C0LD	WWC4*429	04/02/92	04/02/92	21.6		04/23/92	W
^ST2214200A00L	WWC4*430	04/02/92	04/02/92	23.3		04/23/92	W
ST2214200B00L	WWC4*431	04/02/92	04/02/92	23.3		04/23/92	W
ST2214200C00L	WWC4*432	04/02/92	04/02/92	22.1		04/23/92	W
SST1725100A00L	WWC4*433	04/03/92	04/03/92	21.8		04/23/92	W
SST1725100B00L	WWC4*434	04/03/92	04/03/92	21.7		04/23/92	W
ST1725100C00L	WWC4*435	04/03/92	04/03/92	20.3		04/23/92	W
ST1725200A00L	WWC4*436	04/03/92	04/03/92	26.5		04/23/92	W
₅ST1725200B00L	WWC4*437	04/03/92	04/03/92	22.5		04/23/92	W
SST1725200C00L	WWC4*438	04/03/92	04/03/92	20.7		04/23/92	W
^ST1710100A00L	WWC4*439	04/03/92	04/03/92	23.0		04/23/92	W
ST1710100B00L	WWC4*440	04/03/92	04/03/92	17.8		04/23/92	W
ST1710100C00L	WWC4*441	04/03/92	04/03/92	16.5		04/23/92	W
SST1710100A0LD	WWC4*442	04/03/92	04/03/92	23.9		04/23/92	W
SST1710100B0LD	WWC4*443	04/03/92	04/03/92	17.2		04/23/92	W
ST1710100C0LD	WWC4*444	04/03/92	04/03/92	19.2		04/23/92	W
ST1710200A00L	WWC4*445	04/03/92	04/03/92	23.3		04/23/92	W
₅ST1710200B00L	WWC4*446	04/03/92	04/03/92	19.8		04/23/92	W
ST1710200C00L	WWC4*447	04/03/92	04/03/92	19.7		04/23/92	W
ST2256100A00L	WWC4*448	04/03/92	04/03/92	18.7		04/23/92	W
ST2256100B00L	WWC4*449	04/03/92	04/03/92	18.5		04/23/92	W
ST2256100C00L	WWC4*450	04/03/92	04/03/92	17.2		04/23/92	W
SST2254100A00L	WWC4*451	04/03/92	04/03/92	18.7		04/23/92	W
SST2254100B00L	WWC4*452	04/03/92	04/03/92	15.8		04/23/92	W
ST2254100C00L	WWC4*453	04/03/92	04/03/92	18.2		04/23/92	W
ST2254200A00L	WWC4*454	04/03/92	04/03/92	17.6		04/23/92	W
₅ST2254200B00L	WWC4*455	04/03/92	04/03/92	13.8		04/23/92	W
SST2254200C00L	WWC4*456	04/03/92	04/03/92	17.8		04/23/92	W
^ST2251100A00L	WWC4*457	04/03/92	04/03/92	19.9		04/23/92	W
ST2251100B00L	WWC4*458	04/03/92	04/03/92	18.3		04/23/92	W
ST2251100C00L	WWC4*459	04/03/92	04/03/92	16.6		04/23/92	W
SST2251200A00L	WWC4*460	04/03/92	04/03/92	23.3		04/23/92	W
SST2251200B00L	WWC4*461	04/03/92	04/03/92	21.7		04/23/92	W
ST2251200C00L	WWC4*462	04/03/92	04/03/92	19.8		04/23/92	W

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11605 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SED2246100A00L	WWC4*463	04/03/92	04/03/92	19.6		04/23/92	WH
SED2246100B00L	WWC4*464	04/03/92	04/03/92	17.1		04/23/92	WH
SED2246100C00L	WWC4*465	04/03/92	04/03/92	15.7		04/23/92	WH
SED2246200A00L	WWC4*466	04/03/92	04/03/92	21.6		04/23/92	WH
SED2246200B00L	WWC4*467	04/03/92	04/03/92	19.4		04/23/92	
SED2246200C00L	WWC4*468	04/03/92	04/03/92	19.1		04/23/92	
SED2254100A00L	WWC4*469	04/03/92	04/03/92	20.3		04/23/92	WHI
SED2254100B00L	WWC4*470	04/03/92	04/03/92	18.9		04/23/92	WHI
SED2254100C00L	WWC4*471	04/03/92	04/03/92	18.1		04/23/92	WHI
SED2254200A00L	WWC4*472	04/03/92	04/03/92	18.1		04/23/92	WHI
SED2254200B00L	WWC4*473	04/03/92	04/03/92	17.5		04/23/92	WHI
SED2254200C00L	WWC4*474	04/03/92	04/03/92	15.9		04/23/92	WHI
SED2255100A00L	WWC4*475	04/03/92	04/03/92	21.7		04/23/92	WHI
SED2255100B00L	WWC4*476	04/03/92	04/03/92	20.5		04/23/92	WHI
SED2255100C00L	WWC4*477	04/03/92	04/03/92	18.6		04/23/92	WHI
SED2255100A0LD	WWC4*478	04/03/92	04/03/92	22.0		04/23/92	WHI
SED2255100B0LD	WWC4*479	04/03/92	04/03/92	20.8		04/23/92	WHI
SED2255100C0LD	WWC4*480	04/03/92	04/03/92	17.9		04/23/92	WHI
SED2255200A00L	WWC4*481	04/03/92	04/03/92	20.9		04/23/92	WHI
SED2255200B00L	WWC4*482	04/03/92	04/03/92	37.4		04/23/92	WHI
SED2255200C00L	WWC4*483	04/03/92	04/03/92	21.1		04/23/92	WHI
SED2261100A00L	WWC4*484	04/03/92	04/03/92	22.6		04/23/92	WHI
SED2261100B00L	WWC4*485	04/03/92	04/03/92	20.1		04/23/92	WHI
SED2261100C00L	WWC4*486	04/03/92	04/03/92	19.7		04/23/92	WHI
SED2261200A00L	WWC4*487	04/03/92	04/03/92	20.2		04/23/92	WHI
SED2261200B00L	WWC4*488	04/03/92	04/03/92	19.6		04/23/92	WHI
SED2261200C00L	WWC4*489	04/03/92	04/03/92	19.6		04/23/92	
SED2262100A00L	WWC4*490	04/03/92	04/03/92	18.9		04/23/92	
SED2262100B00L	WWC4*491	04/03/92	04/03/92	15.9		04/23/92	Wh
SED2262100C00L	WWC4*492	04/03/92	04/03/92	16.8		04/23/92	WHI
SED2262200A00L	WWC4*493	04/03/92	04/03/92	17.3		04/23/92	WHI
SED2262200B00L	WWC4*494	04/03/92	04/03/92	16.5		04/23/92	WHI
SED2262200C00L	WWC4*495	04/03/92	04/03/92	15.2		04/23/92	WHI
SCL1939100A00L	WWC4*496	04/03/92	04/03/92	30.7		04/23/92	WHI
SCL1939100B00L	WWC4*497	04/03/92	04/03/92	13.1		04/23/92	WHI
SCL1939100C00L	WWC4*498	04/03/92	04/03/92	13.5		04/23/92	WHI
SCL1939200A00L	WWC4*499	04/03/92	04/03/92	18.1		04/23/92	WHI
SCL1939200B00L	WWC4*500	04/03/92	04/03/92	16.9		04/23/92	WHP
SCL1939200C00L	WWC4*501	04/03/92	04/03/92	16.7		04/23/92	WHP
SIO0915100A00L	WWC4*502	04/06/92	04/06/92	16.8		04/23/92	WHP
SIO0915100B00L	WWC4*503	04/06/92	04/06/92	17.7		04/23/92	WHP
SIO0915100C00L	WWC4*504	04/06/92	04/06/92	17.9		04/23/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	C I
I00915200A00L	WWC4*505	04/06/92	04/06/92	14.6		04/23/92	W
I00915200B00L	WWC4*506	04/06/92	04/06/92	9.4		04/23/92	W
I00915200C00L	WWC4*507	04/06/92	04/06/92	9.1		04/23/92	W
SI00916100A00L	WWC4*508	04/06/92	04/06/92	18.9		04/23/92	W
I00916100B00L	WWC4*509	04/06/92	04/06/92	17.8		04/23/92	W
I00916100C00L	WWC4*510	04/06/92	04/06/92	17.6		04/23/92	W
I00916200A00L	WWC4*511	04/06/92	04/06/92	19.6		04/23/92	W
SI00916200B00L	WWC4*512	04/06/92	04/06/92	18.9		04/23/92	W
SI00916200C00L	WWC4*513	04/06/92	04/06/92	17.7		04/23/92	W
I00900100A00L	WWC4*514	04/06/92	04/06/92	17.0		04/23/92	W
I00900100B00L	WWC4*515	04/06/92	04/06/92	16.2		04/23/92	W
I00900100C00L	WWC4*516	04/06/92	04/06/92	15.5		04/23/92	W
SI00900200A00L	WWC4*517	04/06/92	04/06/92	20.3		04/23/92	W
SI00900200B00L	WWC4*518	04/06/92	04/06/92	17.8		04/23/92	W
I00900200C00L	WWC4*519	04/06/92	04/06/92	16.5		04/23/92	W
I00906100A00L	WWC4*520	04/06/92	04/06/92	22.9		04/23/92	W
SI00906100B00L	WWC4*521	04/06/92	04/06/92	18.3		04/23/92	W
SI00906100C00L	WWC4*522	04/06/92	04/06/92	19.3		04/23/92	W
I00906200A00L	WWC4*523	04/06/92	04/06/92	21.2		04/23/92	W
I00906200B00L	WWC4*524	04/06/92	04/06/92	18.9		04/23/92	W
I00906200C00L	WWC4*525	04/06/92	04/06/92	18.2		04/23/92	W
SI01202100A00L	WWC4*526	04/06/92	04/06/92	20.8		04/23/92	W
SI01202100B00L	WWC4*527	04/06/92	04/06/92	18.1		04/23/92	W
I01202100C00L	WWC4*528	04/06/92	04/06/92	16.8		04/23/92	W
I01205100A00L	WWC4*529	04/06/92	04/06/92	18.0		04/23/92	W
SI01205100B00L	WWC4*530	04/06/92	04/06/92	15.9		04/23/92	W
I01205100C00L	WWC4*531	04/06/92	04/06/92	15.1		04/23/92	W
I01218100A00L	WWC4*532	04/06/92	04/06/92	16.2		04/23/92	W
I01218100B00L	WWC4*533	04/06/92	04/06/92	17.7		04/23/92	W
I01218100C00L	WWC4*534	04/06/92	04/06/92	16.8		04/23/92	W
SI01218200A00L	WWC4*535	04/06/92	04/06/92	20.7		04/23/92	W
SI01218200B00L	WWC4*536	04/06/92	04/06/92	19.7		04/23/92	W
I01218200C00L	WWC4*537	04/06/92	04/06/92	18.4		04/23/92	W
I01208100A00L	WWC4*538	04/06/92	04/06/92	18.5		04/23/92	W
SI01208100B00L	WWC4*539	04/06/92	04/06/92	18.3		04/23/92	W
SI01208100C00L	WWC4*540	04/06/92	04/06/92	17.9		04/23/92	W
I01208200A00L	WWC4*541	04/06/92	04/06/92	17.8		04/23/92	W
I01208200B00L	WWC4*542	04/06/92	04/06/92	15.1		04/23/92	W
I01208200C00L	WWC4*543	04/06/92	04/06/92	14.7		04/23/92	W
SI01229100A00L	WWC4*544	04/06/92	04/06/92	20.4		04/23/92	W
SI01229100B00L	WWC4*545	04/06/92	04/06/92	19.8		04/23/92	W
I01229100C00L	WWC4*546	04/06/92	04/06/92	19.4		04/23/92	W

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
AMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
ROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
^IO1229200A00L	WWC4*547	04/06/92	04/06/92	24.2		04/23/92	WHP
IO1229200B00L	WWC4*548	04/06/92	04/06/92	21.3		04/23/92	WHP
IO1229200C00L	WWC4*549	04/06/92	04/06/92	22.8		04/23/92	WHP
SWS0805100A00L	WWC4*550	04/06/92	04/06/92	13.3		04/23/92	WHP
SWS0805100B00L	WWC4*551	04/06/92	04/06/92	13.1		04/23/92	WHP
WS0805100C00L	WWC4*552	04/06/92	04/06/92	15.3		04/23/92	WHP
WS0805200A00L	WWC4*553	04/06/92	04/06/92	16.2		04/23/92	WHP
₅WS0805200B00L	WWC4*554	04/06/92	04/06/92	12.4		04/23/92	WHP
SWS0805200C00L	WWC4*555	04/06/92	04/06/92	34.4		04/23/92	WHP
^WS0821100A00L	WWC4*556	04/06/92	04/06/92	14.0		04/23/92	WHP
WS0821100B00L	WWC4*557	04/06/92	04/06/92	12.7		04/23/92	WHP
WS0821100C00L	WWC4*558	04/06/92	04/06/92	11.6		04/23/92	WHP
SWS0821200A00L	WWC4*559	04/06/92	04/06/92	16.2		04/23/92	WHP
SWS0821200B00L	WWC4*560	04/06/92	04/06/92	13.1		04/23/92	WHP
WS0821200C00L	WWC4*561	04/06/92	04/06/92	12.1		04/23/92	WHP
WS1005100A00L	WWC4*562	04/06/92	04/06/92	14.4		04/23/92	WHP
₅WS1005100B00L	WWC4*563	04/06/92	04/06/92	15.7		04/23/92	WHP
SWS1005100C00L	WWC4*564	04/06/92	04/06/92	22.6		04/23/92	WHP
^IO1014100A00L	WWC4*565	04/07/92	04/07/92	17.5		04/23/92	[illegible]
IO1014100B00L	WWC4*566	04/07/92	04/07/92	17.2		04/23/92	[illegible]
IO1014100C00L	WWC4*567	04/07/92	04/07/92	18.9		04/23/92	[illegible]
SIO1014200A00L	WWC4*568	04/07/92	04/07/92	21.3		04/23/92	WHP
SIO1014200B00L	WWC4*569	04/07/92	04/07/92	15.6		04/23/92	WHP
IO1014200C00L	WWC4*570	04/07/92	04/07/92	16.2		04/23/92	WHP
IO1012100A00L	WWC4*571	04/07/92	04/07/92	19.0		04/23/92	WHP
₅IO1012100B00L	WWC4*572	04/07/92	04/07/92	18.4		04/23/92	WHP
SIO1012100C00L	WWC4*573	04/07/92	04/07/92	17.6		04/23/92	WHP
^IO1012200A00L	WWC4*574	04/07/92	04/07/92	20.0		04/23/92	WHP
IO1012200B00L	WWC4*575	04/07/92	04/07/92	20.2		04/23/92	WHP
IO1012200C00L	WWC4*576	04/07/92	04/07/92	20.2		04/23/92	WHP
SIO1011100A00L	WWC4*577	04/07/92	04/07/92	22.2		04/23/92	WHP
SIO1011100B00L	WWC4*578	04/07/92	04/07/92	17.8		04/23/92	WHP
IO1011100C00L	WWC4*579	04/07/92	04/07/92	16.8		04/23/92	WHP
IO1011200A00L	WWC4*580	04/07/92	04/07/92	21.8		04/23/92	WHP
₅IO1011200B00L	WWC4*581	04/07/92	04/07/92	19.4		04/23/92	WHP
SIO1011200C00L	WWC4*582	04/07/92	04/07/92	20.6		04/23/92	WHP
^IO1009100A00L	WWC4*583	04/07/92	04/07/92	17.6		04/23/92	WHP
IO1009100B00L	WWC4*584	04/07/92	04/07/92	19.5		04/23/92	WHP
IO1009100C00L	WWC4*585	04/07/92	04/07/92	18.7		04/23/92	WHP
SIO1009200A00L	WWC4*586	04/07/92	04/07/92	17.6		04/23/92	WHP
SIO1009200B00L	WWC4*587	04/07/92	04/07/92	17.2		04/23/92	WHP
IO1009200C00L	WWC4*588	04/07/92	04/07/92	22.5		04/23/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 06-23-92

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CH IN
IO1005100A00L	WWC4*589	04/07/92	04/07/92	20.0		04/23/92	W
IO1005100B00L	WWC4*590	04/07/92	04/07/92	20.1		04/23/92	W
IO1005100C00L	WWC4*591	04/07/92	04/07/92	19.2		04/23/92	W
SIO1005200A00L	WWC4*592	04/07/92	04/07/92	19.8		04/23/92	W
IO1005200B00L	WWC4*593	04/07/92	04/07/92	19.7		04/23/92	W
IO1005200C00L	WWC4*594	04/07/92	04/07/92	16.8		04/23/92	W
IO1004100A00L	WWC4*595	04/07/92	04/07/92	17.7		04/23/92	W
SIO1004100B00L	WWC4*596	04/07/92	04/07/92	15.6		04/23/92	W
SIO1004100C00L	WWC4*597	04/07/92	04/07/92	19.3		04/23/92	W
IO1026100A00L	WWC4*598	04/07/92	04/07/92	18.3		04/23/92	W
IO1026100B00L	WWC4*599	04/07/92	04/07/92	16.3		04/23/92	W
IO1026100C00L	WWC4*600	04/07/92	04/07/92	16.7		04/23/92	W
SIO1026200A00L	WWC4*601	04/07/92	04/07/92	17.8		04/23/92	W
SIO1026200B00L	WWC4*602	04/07/92	04/07/92	17.4		04/23/92	W
IO1026200C00L	WWC4*603	04/07/92	04/07/92	18.9		04/23/92	W
IO1030100A00L	WWC4*604	04/07/92	04/07/92	19.3		04/23/92	W
SIO1030100B00L	WWC4*605	04/07/92	04/07/92	18.6		04/23/92	W
SIO1030100C00L	WWC4*606	04/07/92	04/07/92	18.2		04/23/92	W
IO1030100A0LD	WWC4*607	04/07/92	04/07/92	20.2		04/23/92	W
IO1030100B0LD	WWC4*608	04/07/92	04/07/92	18.0		04/23/92	W
IO1030100C0LD	WWC4*609	04/07/92	04/07/92	17.2		04/23/92	W
SIO1030200A00L	WWC4*610	04/07/92	04/07/92	16.7		04/23/92	W
SIO1030200B00L	WWC4*611	04/07/92	04/07/92	17.4		04/23/92	W
IO1030200C00L	WWC4*612	04/07/92	04/07/92	17.2		04/23/92	W
IO1028100A00L	WWC4*613	04/07/92	04/07/92	18.3		04/23/92	W
IO1028100B00L	WWC4*614	04/07/92	04/07/92	17.6		04/23/92	W
IO1028100C00L	WWC4*615	04/07/92	04/07/92	19.1		04/23/92	W
WS1302100A00L	WWC4*616	04/07/92	04/07/92	19.8		04/23/92	W
WS1302100B00L	WWC4*617	04/07/92	04/07/92	19.0		04/23/92	W
WS1302100C00L	WWC4*618	04/07/92	04/07/92	18.1		04/23/92	W
SWS1302100A0LD	WWC4*619	04/07/92	04/07/92	20.6		04/23/92	W
SWS1302100B0LD	WWC4*620	04/07/92	04/07/92	18.3		04/23/92	W
WS1302100C0LD	WWC4*621	04/07/92	04/07/92	16.8		04/23/92	W
WS1302200A00L	WWC4*622	04/07/92	04/07/92	20.7		04/23/92	W
SWS1302200B00L	WWC4*623	04/07/92	04/07/92	20.8		04/23/92	W
SWS1302200C00L	WWC4*624	04/07/92	04/07/92	37.4		04/23/92	W
WS1321100A00L	WWC4*625	04/07/92	04/07/92	13.3		04/23/92	W
WS1321100B00L	WWC4*626	04/07/92	04/07/92	10.9		04/23/92	W
WS1321100C00L	WWC4*627	04/07/92	04/07/92	10.2		04/23/92	W
SWS1321200A00L	WWC4*628	04/07/92	04/07/92	14.6		04/23/92	W
SWS1321200B00L	WWC4*629	04/07/92	04/07/92	15.5		04/23/92	W
WS1321200C00L	WWC4*630	04/07/92	04/07/92	12.8		04/23/92	W

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SIO1120100A00L	WWC4*631	04/07/92	04/07/92	19.4		04/23/92	WHP
SIO1120100B00L	WWC4*632	04/07/92	04/07/92	18.3		04/23/92	WHP
SIO1120100C00L	WWC4*633	04/07/92	04/07/92	18.4		04/23/92	WHP
SIO1120200A00L	WWC4*634	04/07/92	04/07/92	18.3		04/23/92	WHP
SIO1120200B00L	WWC4*635	04/07/92	04/07/92	16.8		04/23/92	[illegible]
SIO1120200C00L	WWC4*636	04/07/92	04/07/92	15.9		04/23/92	[illegible]
SOH2026100A00L	WWC4*637	04/08/92	04/08/92	20.1		04/23/92	WHP
SOH2026100B00L	WWC4*638	04/08/92	04/08/92	16.7		04/23/92	WHP
SOH2026100C00L	WWC4*639	04/08/92	04/08/92	17.5		04/23/92	WHP
SOH2026200A00L	WWC4*640	04/08/92	04/08/92	36.7		04/23/92	WHP
SOH2026200B00L	WWC4*641	04/08/92	04/08/92	17.1		04/23/92	WHP
SOH2026200C00L	WWC4*642	04/08/92	04/08/92	16.9		04/23/92	WHP
SOH2028100A00L	WWC4*643	04/08/92	04/08/92	13.6		04/23/92	WHP
SOH2028100B00L	WWC4*644	04/08/92	04/08/92	15.3		04/23/92	WHP
SOH2028100C00L	WWC4*645	04/08/92	04/08/92	16.0		04/23/92	WHP
SOH2028200A00L	WWC4*646	04/08/92	04/08/92	17.0		04/23/92	WHP
SOH2028200B00L	WWC4*647	04/08/92	04/08/92	17.5		04/23/92	WHP
SOH2028200C00L	WWC4*648	04/08/92	04/08/92	15.7		04/23/92	WHP
SRR2009100A00L	WWC4*649	04/08/92	04/08/92	10.1		04/23/92	[illegible]
SRR2009100B00L	WWC4*650	04/08/92	04/08/92	12.2		04/23/92	[illegible]
SRR2009100C00L	WWC4*651	04/08/92	04/08/92	14.2		04/23/92	[illegible]
SRR2009200A00L	WWC4*652	04/08/92	04/08/92	18.4		04/23/92	WHP
SRR2009200B00L	WWC4*653	04/08/92	04/08/92	18.4		04/23/92	WHP
SRR2009200C00L	WWC4*654	04/08/92	04/08/92	6.7		04/23/92	WHP
SBR2025100A00L	WWC4*655	04/08/92	04/08/92	34.9		04/23/92	WHP
SBR2025100B00L	WWC4*656	04/08/92	04/08/92	12.0		04/23/92	WHP
SBR2025100C00L	WWC4*657	04/08/92	04/08/92	12.6		04/23/92	[illegible]
SBR2037100A00L	WWC4*658	04/08/92	04/08/92	15.0		04/23/92	[illegible]
SBR2037100B00L	WWC4*659	04/08/92	04/08/92	15.2		04/23/92	[illegible]
SBR2037100C00L	WWC4*660	04/08/92	04/08/92	16.4		04/23/92	WHP
SBR2037200A00L	WWC4*661	04/08/92	04/08/92	17.4		04/23/92	WHP
SBR2037200B00L	WWC4*662	04/08/92	04/08/92	17.9		04/23/92	WHP
SBR2037200C00L	WWC4*663	04/08/92	04/08/92	14.9		04/23/92	WHP
SBR2035100A00L	WWC4*664	04/08/92	04/08/92	15.2		04/23/92	WHP
SBR2035100B00L	WWC4*665	04/08/92	04/08/92	15.6		04/23/92	WHP
SBR2035100C00L	WWC4*666	04/08/92	04/08/92	15.8		04/23/92	WHP
SBR2035200A00L	WWC4*667	04/08/92	04/08/92	11.6		04/23/92	WHP
SBR2035200B00L	WWC4*668	04/08/92	04/08/92	8.5		04/23/92	WHP
SBR2035200C00L	WWC4*669	04/08/92	04/08/92	15.3		04/23/92	WHP
SWT2636100A00L	WWC4*670	04/08/92	04/08/92	13.1		04/23/92	WHP
SWT2636100B00L	WWC4*671	04/08/92	04/08/92	16.4		04/23/92	WHP
SWT2636100C00L	WWC4*672	04/08/92	04/08/92	17.6		04/23/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

Analytical Chemistry Res

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100 REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SWT2636200A00L	WWC4*673	04/08/92	04/08/92	17.9		04/23/92
SWT2636200B00L	WWC4*674	04/08/92	04/08/92	15.9		04/23/92
SWT2636200C00L	WWC4*675	04/08/92	04/08/92	17.7		04/23/92
SWT2606100A00L	WWC4*676	04/08/92	04/08/92	9.5		04/23/92
SWT2606100B00L	WWC4*677	04/08/92	04/08/92	9.2		04/23/92
SWT2606100C00L	WWC4*678	04/08/92	04/08/92	9.6		04/23/92
SWT2606200A00L	WWC4*679	04/08/92	04/08/92	13.4		04/23/92
SWT2606200B00L	WWC4*680	04/08/92	04/08/92	15.0		04/23/92
SWT2606200C00L	WWC4*681	04/08/92	04/08/92	16.4		04/23/92
SIO2221100A00L	WWC4*682	04/08/92	04/08/92	15.0		04/23/92
SIO2221100B00L	WWC4*683	04/08/92	04/08/92	15.9		04/23/92
SIO2221100C00L	WWC4*684	04/08/92	04/08/92	17.3		04/23/92
SIO2221200A00L	WWC4*685	04/08/92	04/08/92	19.7		04/23/92
SIO2221200B00L	WWC4*686	04/08/92	04/08/92	19.3		04/23/92
SIO2221200C00L	WWC4*687	04/08/92	04/08/92	18.6		04/23/92
SDV2503100A00L	WWC4*688	04/08/92	04/08/92	19.4		04/23/92
SDV2503100B00L	WWC4*689	04/08/92	04/08/92	20.9		04/23/92
SDV2503100C00L	WWC4*690	04/08/92	04/08/92	19.6		04/23/92
SDV2503200A00L	WWC4*691	04/08/92	04/08/92	19.4		04/23/92
SDV2503200B00L	WWC4*692	04/08/92	04/08/92	20.2		04/23/92
SDV2503200C00L	WWC4*693	04/08/92	04/08/92	18.7		04/23/92
SDV2507100A00L	WWC4*694	04/08/92	04/08/92	17.3		04/23/92
SDV2507100B00L	WWC4*695	04/08/92	04/08/92	14.8		04/23/92
SDV2507100C00L	WWC4*696	04/08/92	04/08/92	14.3		04/23/92
SDV2507200A00L	WWC4*697	04/08/92	04/08/92	19.8		04/23/92
SDV2507200B00L	WWC4*698	04/08/92	04/08/92	18.0		04/23/92
SDV2507200C00L	WWC4*699	04/08/92	04/08/92	18.5		04/23/92
SDV2619100A00L	WWC4*700	04/08/92	04/08/92	16.6		04/23/92
SDV2619100B00L	WWC4*701	04/08/92	04/08/92	14.9		05/11/92
SDV2619100C00L	WWC4*702	04/08/92	04/08/92	15.3		05/11/92
SDV2619200A00L	WWC4*703	04/08/92	04/08/92	15.7		05/11/92
SDV2619200B00L	WWC4*704	04/08/92	04/08/92	16.2		05/11/92
SDV2619200C00L	WWC4*705	04/08/92	04/08/92	16.6		05/11/92
SIO1018200A00L	WWC4*706	04/09/92	04/09/92	14.9		05/11/92
SIO1018200B00L	WWC4*707	04/09/92	04/09/92	14.0		05/11/92
SIO1018200C00L	WWC4*708	04/09/92	04/09/92	20.5		05/11/92
SIO1018100A00L	WWC4*709	04/09/92	04/09/92	18.6		05/11/92
SIO1018100B00L	WWC4*710	04/09/92	04/09/92	18.2		05/11/92
SIO1018100C00L	WWC4*711	04/09/92	04/09/92	19.9		05/11/92
SER1849100A00L	WWC4*712	04/09/92	04/09/92	15.4		05/11/92
SER1849100B00L	WWC4*713	04/09/92	04/09/92	14.6		05/11/92
S~~I~~R1849100C00L	WWC4*714	04/09/92	04/09/92	15.1		05/11/92

E

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SZR1849200A00L	WWC4*715	04/09/92	04/09/92	16.2		05/11/92	WHI
SZR1849200B00L	WWC4*716	04/09/92	04/09/92	34.8 31 wet		05/11/92	WHI
SZR1849200C00L	WWC4*717	04/09/92	04/09/92	13.3		05/11/92	WHI
SIO1310100A00L	WWC4*718	04/09/92	04/09/92	15.5		05/11/92	WHI
SIO1310100B00L	WWC4*719	04/09/92	04/09/92	15.4		05/11/92	
SIO1310100C00L	WWC4*720	04/09/92	04/09/92	12.8		05/11/92	
SIO1310200A00L	WWC4*721	04/09/92	04/09/92	12.0		05/11/92	WHP
SIO1310200B00L	WWC4*722	04/09/92	04/09/92	12.8		05/11/92	WHP
SIO1310200C00L	WWC4*723	04/09/92	04/09/92	15.1		05/11/92	WHP
SRE0927100A00L	WWC4*724	04/09/92	04/09/92	20.0		05/11/92	WHP
SRE0927100B00L	WWC4*725	04/09/92	04/09/92	16.3		05/11/92	WHP
SRE0927100C00L	WWC4*726	04/09/92	04/09/92	17.7		05/11/92	WHP
SRE0927200A00L	WWC4*727	04/09/92	04/09/92	20.0		05/11/92	WHP
SRE0927200B00L	WWC4*728	04/09/92	04/09/92	17.9		05/11/92	WHP
SRE0927200C00L	WWC4*729	04/09/92	04/09/92	18.0		05/11/92	WHP
SRE0935100A00L	WWC4*730	04/09/92	04/09/92	14.6		05/11/92	WHP
SRE0935100B00L	WWC4*731	04/09/92	04/09/92	14.7		05/11/92	WHP
SRE0935100C00L	WWC4*732	04/09/92	04/09/92	14.9		05/11/92	WHP
SRE0935100A0LD	WWC4*733	04/09/92	04/09/92	17.5		05/11/92	P
SRE0935100B0LD	WWC4*734	04/09/92	04/09/92	13.6		05/11/92	P
SRE0935100C0LD	WWC4*735	04/09/92	04/09/92	14.3		05/11/92	P
SRE0935200A0LD	WWC4*736	04/09/92	04/09/92	~~11.8~~ 18.5 wet		05/11/92	WHP
SRE0935200B00L	WWC4*737	04/09/92	04/09/92	13.9		05/11/92	WHP
SRE0935200C00L	WWC4*738	04/09/92	04/09/92	13.2		05/11/92	WHP
SRE1104100A00L	WWC4*739	04/09/92	04/09/92	16.9		05/11/92	WHP
SRE1104100B00L	WWC4*740	04/09/92	04/09/92	17.0		05/11/92	WHP
SRE1104100C00L	WWC4*741	04/09/92	04/09/92	13.3		05/11/92	W
SRE1104200A00L	WWC4*742	04/09/92	04/09/92	22.5		05/11/92	W
SRE1104200B00L	WWC4*743	04/09/92	04/09/92	19.6		05/11/92	WHP
SRE1104200C00L	WWC4*744	04/09/92	04/09/92	19.9		05/11/92	WHP
SRE1113100A00L	WWC4*745	04/09/92	04/09/92	20.8		05/11/92	WHP
SRE1113100B00L	WWC4*746	04/09/92	04/09/92	19.4		05/11/92	WHP
SRE1113100C00L	WWC4*747	04/09/92	04/09/92	19.5		05/11/92	WHP
SRE1113200A00L	WWC4*748	04/09/92	04/09/92	18.3		05/11/92	WHP
SRE1113200B00L	WWC4*749	04/09/92	04/09/92	16.8		05/11/92	WHP
SRE1113200C00L	WWC4*750	04/09/92	04/09/92	17.0		05/11/92	WHP
SRE1112100A00L	WWC4*751	04/09/92	04/09/92	14.1		05/11/92	WHP
SRE1112100B00L	WWC4*752	04/09/92	04/09/92	14.8		05/11/92	WHP
SRE1112100C00L	WWC4*753	04/09/92	04/09/92	18.1		05/11/92	WHP
SRE1112200A00L	WWC4*754	04/09/92	04/09/92	18.4		05/11/92	WHP
SRE1112200B00L	WWC4*755	04/09/92	04/09/92	18.4		05/11/92	WHP
SRE1112200C00L	WWC4*756	04/09/92	04/09/92	20.1		05/11/92	WHP

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

1806 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	C I
SRE1108100A00L	WWC4*757	04/09/92	04/09/92	24.5		05/11/92	
SRE1108100B00L	WWC4*758	04/09/92	04/09/92	17.5		05/11/92	
SRE1108100C00L	WWC4*759	04/09/92	04/09/92	17.9		05/11/92	
SRE1108200A00L	WWC4*760	04/09/92	04/09/92	17.9		05/11/92	
SRE1108200B00L	WWC4*761	04/09/92	04/09/92	15.2		05/11/92	
SRE1108200C00L	WWC4*762	04/09/92	04/09/92	19.1		05/11/92	
SRE1119100A00L	WWC4*763	04/09/92	04/09/92	18.3		05/11/92	
SRE1119100B00L	WWC4*764	04/09/92	04/09/92	18.5		05/11/92	
SRE1119100C00L	WWC4*765	04/09/92	04/09/92	18.5		05/11/92	
SRE1119200A00L	WWC4*766	04/09/92	04/09/92	20.8		05/11/92	
SRE1119200B00L	WWC4*767	04/09/92	04/09/92	19.1		05/11/92	
SRE1119200C00L	WWC4*768	04/09/92	04/09/92	18.9		05/11/92	
SRE1129100A00L	WWC4*769	04/09/92	04/09/92	12.7		05/11/92	
SRE1129100B00L	WWC4*770	04/09/92	04/09/92	16.5		05/11/92	
SRE1129100C00L	WWC4*771	04/09/92	04/09/92	18.5		05/11/92	
SRE1129100A0LD	WWC4*772	04/09/92	04/09/92	14.1		05/11/92	
SRE1129100B0LD	WWC4*773	04/09/92	04/09/92	16.4		05/11/92	
SRE1129100C0LD	WWC4*774	04/09/92	04/09/92	18.5		05/11/92	
SRE1129200A00L	WWC4*775	04/09/92	04/09/92	22.9		05/11/92	
SRE1129200B00L	WWC4*776	04/09/92	04/09/92	17.2		05/11/92	
SRE1129200C00L	WWC4*777	04/09/92	04/09/92	18.5		05/11/92	
SRE1130100A00L	WWC4*778	04/09/92	04/09/92	15.9		05/11/92	
SRE1130100B00L	WWC4*779	04/09/92	04/09/92	15.9		05/11/92	
SRE1130100C00L	WWC4*780	04/09/92	04/09/92	17.5		05/11/92	
SRE1130200A00L	WWC4*781	04/09/92	04/09/92	24.5		05/11/92	
SRE1130200B00L	WWC4*782	04/09/92	04/09/92	39.3		05/11/92	
SRE1130200C00L	WWC4*783	04/09/92	04/09/92	18.~~8~~ 7 WR		05/11/92	
SRE1128100A00L	WWC4*784	04/09/92	04/09/92	27.6		05/11/92	
SRE1128100B00L	WWC4*785	04/09/92	04/09/92	16.6		05/11/92	
SRE1128100C00L	WWC4*786	04/09/92	04/09/92	17.1		05/11/92	
SRE1128200A00L	WWC4*787	04/09/92	04/09/92	29.6		05/11/92	
SRE1128200B00L	WWC4*788	04/09/92	04/09/92	27.8		05/11/92	
SRE1128200C00L	WWC4*789	04/09/92	04/09/92	23.3		05/11/92	
SEL1916100A00L	WWC4*790	04/10/92	04/10/92	19.7		05/11/92	
SEL1916100B00L	WWC4*791	04/10/92	04/10/92	19.1		05/11/92	
SEL1916100C00L	WWC4*792	04/10/92	04/10/92	18.3		05/11/92	
SEL1916200A00L	WWC4*793	04/10/92	04/10/92	16.9		05/11/92	
SEL1916200B00L	WWC4*794	04/10/92	04/10/92	14.9		05/11/92	
SEL1916200C00L	WWC4*795	04/10/92	04/10/92	16.1		05/11/92	
SKE1610100A00L	WWC4*796	04/10/92	04/10/92	17.8		05/11/92	
SKE1610100B00L	WWC4*797	04/10/92	04/10/92	15.8		05/11/92	
SKE1610100C00L	WWC4*798	04/10/92	04/10/92	14.6		05/11/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE. INI
SKE1610200A00L	WWC4*799	04/10/92	04/10/92	10.5		05/11/92	WH
SKE1610200B00L	WWC4*800	04/10/92	04/10/92	11.0		05/11/92	WH
SKE1610200C00L	WWC4*801	04/10/92	04/10/92	13.1		05/11/92	WH
SKE1608100A00L	WWC4*802	04/10/92	04/10/92	12.4		05/11/92	WH
SKE1608100B00L	WWC4*803	04/10/92	04/10/92	12.5		05/11/92	[illegible]
SKE1608100C00L	WWC4*804	04/10/92	04/10/92	13.3		05/11/92	[illegible]
SKE1608200A00L	WWC4*805	04/10/92	04/10/92	14.9		05/11/92	WHI
SKE1608200B00L	WWC4*806	04/10/92	04/10/92	11.3		05/11/92	WHI
SKE1608200C00L	WWC4*807	04/10/92	04/10/92	12.3		05/11/92	WHI
SKE1607100A00L	WWC4*808	04/10/92	04/10/92	23.0		05/11/92	WHI
SKE1607100B00L	WWC4*809	04/10/92	04/10/92	16.8		05/11/92	WHI
SKE1607100C00L	WWC4*810	04/10/92	04/10/92	15.8		05/11/92	WHI
SKE1607200A00L	WWC4*811	04/10/92	04/10/92	15.4		05/11/92	WHI
SKE1607200B00L	WWC4*812	04/10/92	04/10/92	14.8		05/11/92	WHI
SKE1607200C00L	WWC4*813	04/10/92	04/10/92	15.5		05/11/92	WHI
SKE1605100A00L	WWC4*814	04/10/92	04/10/92	26.0		05/11/92	WHI
SKE1605100B00L	WWC4*815	04/10/92	04/10/92	17.7		05/11/92	WHI
SKE1605100C00L	WWC4*816	04/10/92	04/10/92	13.4		05/11/92	WHI
SKE1605200A00L	WWC4*817	04/10/92	04/10/92	12.4		05/11/92	WHI
SKE1605200B00L	WWC4*818	04/10/92	04/10/92	15.2		05/11/92	[illegible]
SKE1605200C00L	WWC4*819	04/10/92	04/10/92	13.8		05/11/92	[illegible]
SKE1604100A00L	WWC4*820	04/10/92	04/10/92	20.2		05/11/92	WHI
SKE1604100B00L	WWC4*821	04/10/92	04/10/92	16.2		05/11/92	WHI
SKE1604100C00L	WWC4*822	04/10/92	04/10/92	16.7		05/11/92	WHI
SKE1604200A00L	WWC4*823	04/10/92	04/10/92	16.3		05/11/92	WHI
SKE1604200B00L	WWC4*824	04/10/92	04/10/92	12.1		05/11/92	WHI
SKE1604200C00L	WWC4*825	04/10/92	04/10/92	15.0		05/11/92	[illegible]
SMC1019100A00L	WWC4*826	04/10/92	04/10/92	21.8		05/11/92	[illegible]
SMC1019100B00L	WWC4*827	04/10/92	04/10/92	16.2		05/11/92	[illegible]
SMC1019100C00L	WWC4*828	04/10/92	04/10/92	15.6		05/11/92	WHI
SMC1019200A00L	WWC4*829	04/10/92	04/10/92	23.9		05/11/92	WHI
SMC1019200B00L	WWC4*830	04/10/92	04/10/92	22.1		05/11/92	WHI
SMC1019200C00L	WWC4*831	04/10/92	04/10/92	18.2		05/11/92	WHI
SMC1023100A00L	WWC4*832	04/10/92	04/10/92	16.1		05/11/92	WHI
SMC1023100B00L	WWC4*833	04/10/92	04/10/92	15.2		05/11/92	WHI
SMC1023100C00L	WWC4*834	04/10/92	04/10/92	15.6		05/11/92	WHI
SMC1023200A00L	WWC4*835	04/10/92	04/10/92	24.0		05/11/92	WHI
SMC1023200B00L	WWC4*836	04/10/92	04/10/92	19.2		05/11/92	WHI
SMC1023200C00L	WWC4*837	04/10/92	04/10/92	16.8		05/11/92	WHI
SEL1601100A00L	WWC4*838	04/10/92	04/10/92	25.1		05/11/92	WHI
SEL1601100B00L	WWC4*839	04/10/92	04/10/92	21.4		05/11/92	WHI
SEL1601100C00L	WWC4*840	04/10/92	04/10/92	19.0		05/11/92	WHI

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re:

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

2,3,6

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SEL1601200A00L	WWC4*841	04/10/92	04/10/92	21.1		05/11/92
SEL1601200B00L	WWC4*842	04/10/92	04/10/92	18.4		05/11/92
SEL1601200C00L	WWC4*843	04/10/92	04/10/92	20.0		05/11/92
SEL1603100A00L	WWC4*844	04/10/92	04/10/92	19.7		05/11/92
SEL1603100B00L	WWC4*845	04/10/92	04/10/92	17.0		05/11/92
SEL1603100C00L	WWC4*846	04/10/92	04/10/92	18.0		05/11/92
SEL1603200A00L	WWC4*847	04/10/92	04/10/92	21.5		05/11/92
SEL1603200B00L	WWC4*848	04/10/92	04/10/92	19.4		05/11/92
SEL1603200C00L	WWC4*849	04/10/92	04/10/92	15.7		05/11/92
SEL1611100A00L	WWC4*850	04/10/92	04/10/92	20.2		05/11/92
SEL1611100B00L	WWC4*851	04/10/92	04/10/92	16.9		05/11/92
SEL1611100C00L	WWC4*852	04/10/92	04/10/92	18.1		05/11/92
SEL1611100A00L	WWC4*853	04/10/92	04/10/92	17.6		05/11/92
SEL1611100B00L	WWC4*854	04/10/92	04/10/92	17.1		05/11/92
SEL1611100C00L	WWC4*855	04/10/92	04/10/92	15.8		05/11/92
SEL1608100A00L	WWC4*856	04/10/92	04/10/92	19.1		05/11/92
SEL1608100B00L	WWC4*857	04/10/92	04/10/92	19.0		05/11/92
SEL1608100C00L	WWC4*858	04/10/92	04/10/92	18.5		05/11/92
SEL1608200A00L	WWC4*859	04/10/92	04/10/92	21.9		05/11/92
SEL1608200B00L	WWC4*860	04/10/92	04/10/92	19.7		05/11/92
SEL1608200C00L	WWC4*861	04/10/92	04/10/92	20.8		05/11/92
SMA0907100A00L	WWC4*862	04/13/92	04/13/92	16.9		05/11/92
SMA0907100B00L	WWC4*863	04/13/92	04/13/92	14.8		05/11/92
SMA0907100C00L	WWC4*864	04/13/92	04/13/92	14.9		05/11/92
SMA0907200A00L	WWC4*865	04/13/92	04/13/92	17.8		05/11/92
SMA0907200B00L	WWC4*866	04/13/92	04/13/92	16.8		05/11/92
SMA0907200C00L	WWC4*867	04/13/92	04/13/92	18.1		05/11/92
SME0620100A00L	WWC4*868	04/13/92	04/13/92	10.6		05/11/92
SME0620100B00L	WWC4*869	04/13/92	04/13/92	9.1		05/11/92
SME0620100C00L	WWC4*870	04/13/92	04/13/92	9.8		05/11/92
SME0620200A00L	WWC4*871	04/13/92	04/13/92	8.1		05/11/92
SME0620200B00L	WWC4*872	04/13/92	04/13/92	~~8.2~~ 9.6 WEL		05/11/92
SME0620200C00L	WWC4*873	04/13/92	04/13/92	13.4		05/11/92
SME0606100A00L	WWC4*874	04/13/92	04/13/92	16.9		05/11/92
SME0606100B00L	WWC4*875	04/13/92	04/13/92	17.9		05/11/92
SME0606100C00L	WWC4*876	04/13/92	04/13/92	17.3		05/11/92
SME0606200A00L	WWC4*877	04/13/92	04/13/92	21.5		05/11/92
SME0606200B00L	WWC4*878	04/13/92	04/13/92	20.3		05/11/92
SME0606200C00L	WWC4*879	04/13/92	04/13/92	21.0		05/11/92
SME0616100A00L	WWC4*880	04/13/92	04/13/92	33.3		05/11/92
SME0616100B00L	WWC4*881	04/13/92	04/13/92	17.3		05/11/92
SME0616100C00L	WWC4*882	04/13/92	04/13/92	15.7		05/11/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SME0616200A00L	WWC4*883	04/13/92	04/13/92	9.6		05/11/92	WH
SME0616200B00L	WWC4*884	04/13/92	04/13/92	13.7		05/11/92	WH
SME0616200C00L	WWC4*885	04/13/92	04/13/92	18.3		05/11/92	WH
SME0626100A00L	WWC4*886	04/13/92	04/13/92	13.2		05/11/92	WH
SME0626100B00L	WWC4*887	04/13/92	04/13/92	15.1		05/11/92	
SME0626100C00L	WWC4*888	04/13/92	04/13/92	17.0		05/11/92	
SME0626200A00L	WWC4*889	04/13/92	04/13/92	16.1		05/11/92	WH
SME0626200B00L	WWC4*890	04/13/92	04/13/92	17.4		05/11/92	WH
SME0626200C00L	WWC4*891	04/13/92	04/13/92	17.6		05/11/92	WH
SME0628100A00L	WWC4*892	04/13/92	04/13/92	15.9		05/11/92	WH
SME0628100B00L	WWC4*893	04/13/92	04/13/92	16.2		05/11/92	WH
SME0628100C00L	WWC4*894	04/13/92	04/13/92	17.6		05/11/92	WH
SME0628200A00L	WWC4*895	04/13/92	04/13/92	18.0		05/11/92	WH
SME0628200B00L	WWC4*896	04/13/92	04/13/92	18.6		05/11/92	WH
SME0628200C00L	WWC4*897	04/13/92	04/13/92	18.6		05/11/92	WH
SME0636100A00L	WWC4*898	04/13/92	04/13/92	19.2		05/11/92	WH
SME0636100B00L	WWC4*899	04/13/92	04/13/92	21.1		05/11/92	WH
SME0636100C00L	WWC4*900	04/13/92	04/13/92	19.5		05/11/92	WH
SME0636200A00L	WWC4*901	04/13/92	04/13/92	16.2		05/11/92	WH
SME0636200B00L	WWC4*902	04/13/92	04/13/92	17.7		05/11/9	H
SME0636200C00L	WWC4*903	04/13/92	04/13/92	18.4		05/11/9	H
SMA0917100A00L	WWC4*904	04/13/92	04/13/92	20.0		05/11/92	WH
SMA0917100B00L	WWC4*905	04/13/92	04/13/92	14.5		05/11/92	WH
SMA0917100C00L	WWC4*906	04/13/92	04/13/92	14.0		05/11/92	WH
SMA0917200A00L	WWC4*907	04/13/92	04/13/92	6.0		05/11/92	WH
SMA0917200B00L	WWC4*908	04/13/92	04/13/92	4.5		05/11/92	WH
SMA0917200C00L	WWC4*909	04/13/92	04/13/92	7.1		05/11/92	
SSA0609100A00L	WWC4*910	04/13/92	04/13/92	18.2		05/11/92	
SSA0609100B00L	WWC4*911	04/13/92	04/13/92	18.2		05/11/92	Wa
SSA0609100C00L	WWC4*912	04/13/92	04/13/92	20.1		05/11/92	WH
SSA0609200A00L	WWC4*913	04/13/92	04/13/92	17.8		05/11/92	WH
SSA0609200B00L	WWC4*914	04/13/92	04/13/92	17.0		05/11/92	WH
SSA0609200C00L	WWC4*915	04/13/92	04/13/92	18.9		05/11/92	WH
SSA0615100A00L	WWC4*916	04/13/92	04/13/92	15.6		05/11/92	WH
SSA0615100B00L	WWC4*917	04/13/92	04/13/92	16.4		05/11/92	WH
SSA0615100C00L	WWC4*918	04/13/92	04/13/92	19.0		05/11/92	WH
SSA0615200A00L	WWC4*919	04/13/92	04/13/92	21.7		05/11/92	WH
SSA0615200B00L	WWC4*920	04/13/92	04/13/92	18.8		05/11/92	WH
SSA0615200C00L	WWC4*921	04/13/92	04/13/92	17.4		05/11/92	WH
SSA0637100A00L	WWC4*922	04/13/92	04/13/92	13.9		05/11/92	WH
SSA0637100B00L	WWC4*923	04/13/92	04/13/92	11.3		05/11/92	WH
SSA0637100C00L	WWC4*924	04/13/92	04/13/92	14.4		05/11/92	WH

Environmental Science & Engineering, Inc.

St Louis Chemistry Laboratory

11665 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE
SSA0637200A00L	WWC4*925	04/13/92	04/13/92	13.8		05/11/92
SSA0637200B00L	WWC4*926	04/13/92	04/13/92	16.7		05/11/92
SSA0637200C00L	WWC4*927	04/13/92	04/13/92	19.0		05/11/92
SSA0633100A00L	WWC4*928	04/13/92	04/13/92	9.6		05/11/92
SSA0633100B00L	WWC4*929	04/13/92	04/13/92	10.1		05/11/92
SSA0633100C00L	WWC4*930	04/13/92	04/13/92	13.5		05/11/92
SSA0633200A00L	WWC4*931	04/13/92	04/13/92	17.0		05/11/92
SSA0633200B00L	WWC4*932	04/13/92	04/13/92	17.3		05/11/92
SSA0633200C00L	WWC4*933	04/13/92	04/13/92	18.1		05/11/92
SDE1729100A00L	WWC4*934	04/14/92	04/14/92	18.0		05/11/92
SDE1729100B00L	WWC4*935	04/14/92	04/14/92	25.6		05/11/92
SDE1729100C00L	WWC4*936	04/14/92	04/14/92	19.6		05/11/92
SDE1718100A00L	WWC4*937	04/14/92	04/14/92	15.7		05/11/92
SDE1718100B00L	WWC4*938	04/14/92	04/14/92	16.6		05/11/92
SDE1718100C00L	WWC4*939	04/14/92	04/14/92	20.5		05/11/92
SDE1718100A0LD	WWC4*940	04/14/92	04/14/92	15.9		05/11/92
SDE1718100B0LD	WWC4*941	04/14/92	04/14/92	18.1		05/11/92
SDE1718100C0LD	WWC4*942	04/14/92	04/14/92	18.7		05/11/92
SDE1718200A00L	WWC4*943	04/14/92	04/14/92	15.5		05/11/92
SDE1718200B00L	WWC4*944	04/14/92	04/14/92	21.5		05/11/92
SDE1718200C00L	WWC4*945	04/14/92	04/14/92	19.7		05/11/92
SDE2016100A00L	WWC4*946	04/14/92	04/14/92	13.7		05/11/92
SDE2016100B00L	WWC4*947	04/14/92	04/14/92	15.5		05/11/92
SDE2016100C00L	WWC4*948	04/14/92	04/14/92	14.6		05/11/92
SDE2016100A0LD	WWC4*949	04/14/92	04/14/92	13.1		05/11/92
SDE2016100B0LD	WWC4*950	04/14/92	04/14/92	14.4		05/11/92
SDE2016100C0LD	WWC4*951	04/14/92	04/14/92	14.8		05/11/92
SDE2016200A00L	WWC4*952	04/14/92	04/14/92	22.2		05/11/92
SDE2016200B00L	WWC4*953	04/14/92	04/14/92	18.2		05/11/92
SDE2016200C00L	WWC4*954	04/14/92	04/14/92	17.5		05/11/92
SDE2019100A00L	WWC4*955	04/14/92	04/14/92	20.5		05/11/92
SDE2019100B00L	WWC4*956	04/14/92	04/14/92	16.6		05/11/92
SDE2019100C00L	WWC4*957	04/14/92	04/14/92	15.7		05/11/92
SDE2019200A00L	WWC4*958	04/14/92	04/14/92	17.6		05/11/92
SDE2019200B00L	WWC4*959	04/14/92	04/14/92	17.1		05/11/92
SDE2019200C00L	WWC4*960	04/14/92	04/14/92	16.5		05/11/92
SDE2209100A00L	WWC4*961	04/14/92	04/14/92	22.6		05/11/92
SDE2209100B00L	WWC4*962	04/14/92	04/14/92	21.6		05/11/92
SDE2209100C00L	WWC4*963	04/14/92	04/14/92	21.7		05/11/92
SDE2209100A0LD	WWC4*964	04/14/92	04/14/92	22.0		05/11/92
SDE2209100B0LD	WWC4*965	04/14/92	04/14/92	22.0		05/11/92
SDE2209100C0LD	WWC4*966	04/14/92	04/14/92	22.3		05/11/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	MOISTURE, %WET WT METHOD: PB215192	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SDE2209200A00L	WWC4*967	04/14/92	04/14/92	13.2		05/11/92	WH
SDE2209200B00L	WWC4*968	04/14/92	04/14/92	13.1		05/11/92	WH
SDE2209200C00L	WWC4*969	04/14/92	04/14/92	15.5		05/11/92	WH
SDE2263100A00L	WWC4*970	04/14/92	04/14/92	15.2		05/11/92	[illegible]
SDE2263100B00L	WWC4*971	04/14/92	04/14/92	15.7		05/11/92	[illegible]
SDE2263100C00L	WWC4*972	04/14/92	04/14/92	16.9		05/11/92	[illegible]
SDE2263200A00L	WWC4*973	04/14/92	04/14/92	17.8		05/11/92	WH
SDE2263200B00L	WWC4*974	04/14/92	04/14/92	20.4		05/11/92	WH
SDE2263200C00L	WWC4*975	04/14/92	04/14/92	20.2		05/11/92	WH
SDE2257100A00L	WWC4*976	04/14/92	04/14/92	14.7		05/11/92	WH
SDE2257100B00L	WWC4*977	04/14/92	04/14/92	14.3		05/11/92	WH
SDE2257100C00L	WWC4*978	04/14/92	04/14/92	15.3		05/11/92	WH
SDE2257200A00L	WWC4*979	04/14/92	04/14/92	21.7		05/11/92	WH
SDE2257200B00L	WWC4*980	04/14/92	04/14/92	19.1		05/11/92	WH
SDE2257200C00L	WWC4*981	04/14/92	04/14/92	22.1		05/11/92	WH
SDE2256100A00L	WWC4*982	04/14/92	04/14/92	17.2		05/11/92	WH
SDE2256100B00L	WWC4*983	04/14/92	04/14/92	21.1		05/11/92	WH
SDE2256100C00L	WWC4*984	04/14/92	04/14/92	16.5		05/11/92	WH
SDE2256200A00L	WWC4*985	04/14/92	04/14/92	19.5		05/11/92	[illegible]
SDE2256200B00L	WWC4*986	04/14/92	04/14/92	15.8		05/11/9[illegible]	[illegible]
SDE2256200C00L	WWC4*987	04/14/92	04/14/92	15.1		05/11/92	[illegible]
SDE2254100A00L	WWC4*988	04/14/92	04/14/92	18.6		05/11/92	WH
SDE2254100B00L	WWC4*989	04/14/92	04/14/92	18.5		05/11/92	WH
SDE2254100C00L	WWC4*990	04/14/92	04/14/92	17.4		05/11/92	WH
STS1240100A00L	WWC4*991	04/14/92	04/14/92	16.1		05/11/92	WH
STS1240100B00L	WWC4*992	04/14/92	04/14/92	18.6		05/11/92	WH
STS1240100C00L	WWC4*993	04/14/92	04/14/92	16.3		05/11/92	[illegible]
SDE2124100A00L	WWC4*994	04/14/92	04/14/92	14.2		05/11/92	[illegible]
SDE2124100B00L	WWC4*995	04/14/92	04/14/92	14.7		05/11/92	WH
SDE2124100C00L	WWC4*996	04/14/92	04/14/92	14.6		05/11/92	WH
SDE2124100A0LD	WWC4*997	04/14/92	04/14/92	14.7		05/11/92	WH
SDE2124100B0LD	WWC4*998	04/14/92	04/14/92	14.0		05/11/92	WH
SDE2124100C0LD	WWC4*999	04/14/92	04/14/92	13.9		05/11/92	WH

WWC4 433-501

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 171
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 4-3-92 17:15

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-6-92 1300

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 4-3-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-6-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples are bottles with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

U:\WP\CHEMCOM\CRF.01

WWC4*502-564

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
502	4/6/92	8:44	S	I00915	1	00A	00L	✓	1	X			
503		8:46	S	I00915	1	00B	00L	✓	1				
504		8:48	S	I00915	1	00C	00L	✓					
505		8:52	S	I00915	2	00A	00L	✓					
506		8:54	S	I00915	2	00B	00L	✓					
507		8:56	S	I00915	2	00C	00L	✓					
508		9:05	S	I00916	1	00A	00L	✓					
509		9:07	S	I00916	1	00B	00L	✓					
510		9:09	S	I00916	1	00C	00L	✓					
511		913	S	I00916	2	00A	00L	✓					
512		9:15	S	I00916	2	00B	00L	✓					
513		9:17	S	I00916	2	00C	00L	✓					
514		9:24	S	I00900	1	00A	00L	✓					
515		9:26	S	I00900	1	00B	00L	✓					
516		9:28	S	I00900	1	00C	00L	✓					
517		9:30	S	I00900	2	00A	00L	✓					
518		9:32	S	I00900	2	00B	00L	✓					
519		9:34	S	I00900	2	00C	00L	✓					
520		9:45	S	I00906	1	00A	00L	✓					
521		9:47	S	I00906	1	00B	00L	✓					
522		9:49	S	I00906	1	00C	00L	✓					
523		9:51	S	I00906	2	00A	00L	✓					
524		9:53	S	I00906	2	00B	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/6/92 1515	[signature]	4/6 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/6 1610	[signature]	4-6-92 1610

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] / M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7	4/1	1358	S ED2235 2 00A00L ✓	1	✓			
8		1400	S ED2235 2 00B00L ✓	1	✓			
9		1402	S ED2235 2 00C00L ✓	1	✓			
300		1416	S ED2232 1 00A00L ✓	1	✓			
301		1418	S ED2232 1 00B00L ✓	1	✓			
2		1420	S ED2232 1 00C00L ✓	1	✓			
303		1422	S ED2232 2 00A00L ✓	1	✓			
4		1424	S ED2232 2 00B00L ✓	1	✓			
305		1426	S ED2232 2 00C00L ✓	1	✓			
6		1437	S ED2237 1 00A00L ✓	1	✓			
307		1439	S ED2237 1 00B00L ✓	1	✓			
8		1441	S ED2237 1 00C00L ✓	1	✓			
9		1437	S ED2237 1 00A00ED ✓	1	✓			
10		1439	S ED2237 1 00B00ED ✓	1	✓			
11		1441	S ED2237 1 00C00ED ✓	1	✓			
12		1445	S ED2237 2 00A00L ✓	1	✓			
13		1447	S ED2237 2 00B00L ✓	1	✓			
314		1449	S ED2237 2 00C00L ✓	1	✓			
15		1458	S ED2245 1 00A00L ✓	1	✓			
316		1500	S ED2245 1 00B00L ✓	1	✓			
17		1502	S ED2245 1 00C00L ✓	1	✓			
318		1505	S ED2245 2 00A00L ✓	1	✓			
19		1507	S ED2245 2 00B00L ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/1/92 1600	[illegible]	4/1 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/1 1630	Carol Cash	4/1 1630
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
320	4/1	1049	S	ED2225	2	006	024	1	✓			
321		1051	S	ED2225	2	00C	024	1	✓			
322		1103	S	ED2215	1	00A	024	1	✓			
323		1105	S	ED2215	1	00B	024	1	✓			
324		1107	S	ED2215	1	00C	024	1	✓			
325		1109	S	ED2215	2	00A	024	1	✓			
326		1111	S	ED2215	2	00B	024	1	✓			
327		1113	S	ED2215	2	00C	024	1	✓			
328		1122	S	ED2222	1	00A	024	1	✓			
329		1124	S	ED2222	1	00B	024	1	✓			
330		1126	S	ED2222	1	00C	024	1	✓			
331		1128	S	ED2222	2	00A	024	1	✓			
332		1130	S	ED2222	2	00B	024	1	✓			
333		1132	S	ED2222	2	00C	024	1	✓			
334		1330	S	ED2236	1	00A	024	1	✓			
335		1333	S	ED2236	1	00B	024	1	✓			
336		1335	S	ED2230	1	00C	024	1	✓			
337		1337	S	ED2230	2	00A	024	1	✓			
338		1339	S	ED2230	2	00B	024	1	✓			
339		1341	S	ED2230	2	00C	024	1	✓			
340		1352	S	ED2235	1	00A	024	1	✓			
341		1354	S	ED2235	1	00B	024	1	✓			
342		1356	S	ED2235	1	00C	024	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/1/92 1600	[illegible]	4/1 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/1 1630	[illegible]	4-1 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 367-432

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # 170
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 4-2-92 1700

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-6-92 1100

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 4-2-92, seal name: Sue Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc® bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-6-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Coolers with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# . . . . . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC4 - 433-501

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4.3	4/3/92	815	S	SI1725	1	00A	00L	1	✓			
434		817	S	SI1725	1	00B	00L	1	✓			
4 5		819	S	SI1725	1	00C	00L	1	✓			
436		822	S	SI1725	2	00A	00L	1	✓			
437		824	S	SI1725	2	00B	00L	1	✓			
438		826	S	SI1725	2	00C	00L	1	✓			
439		830	S	SI1710	1	00A	00L	1	✓			
4 9		833	S	SI1710	1	00B	00L	1	✓			
441		835	S	SI1710	1	00C	00L	1	✓			
4 3		830	S	SI1710	1	00A	OLD	1	✓			
443		833	S	SI1710	1	00B	OLD	1	✓			
4 4		835	S	SI1710	1	00C	OLD	1	✓			
445		838	S	SI1710	2	00A	00L	1	✓			
446		840	S	SI1710	2	00B	00L	1	✓			
4.7		842	S	SI1710	2	00C	00L	1	✓			
448		905	S	SI2256	1	00A	00L	1	✓			
4 7		907	S	SI2256	1	00B	00L	1	✓			
450		909	S	SI2256	1	00C	00L	1	✓			
4 4		916	S	SI2254	1	00A	00L	1	✓			May have glass fragm
452		918	S	SI2254	1	00B	00L	1	✓			" "
4 3		920	S	SI2254	1	00C	00L	1	✓			" "
454		922	S	SI2254	2	00A	00L	1	✓			
5		924	S	SI2254	2	00B	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/3/92 17:15	[signature]	4-3-92 17:15
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
525	4/6/92	9:55	S	I00906	2	00C	00L	✓	1	X			
526		10:28	S	I01202	1	00A	00L	✓					
527		10:27	S	I01202	1	00B	00L	✓					
528		10:29	S	I01202	1	00C	00L	✓					
529		10:40	S	I01205	1	00A	00L	✓					
530		10:42	S	I01205	1	00B	00L	✓					
531		10:44	S	I01205	1	00C	00L	✓					
532		10:52	S	I01218	1	00A	00L	✓					
533		10:54	S	I01218	1	00B	00L	✓					
534		10:56	S	I01218	1	00C	00L	✓					
535		10:58	S	I01218	2	00A	00L	✓					
536		11:00	S	I01218	2	00B	00L	✓					
537		11:02	S	I01218	2	00C	00L	✓					
538		11:13	S	I01208	1	00A	00L	✓					
539		11:15	S	I01208	1	00B	00L	✓					
540		11:17	S	I01208	1	00C	00L	✓					
541		11:19	S	I01208	2	00A	00L	✓					
542		11:21	S	I01208	2	00B	00L	✓					
543		11:23	S	I01208	2	00C	00L	✓					
544		13:00	S	I01229	1	00A	00L	✓					
545		13:02	S	I01229	1	00B	00L	✓					
546		13:04	S	I01229	1	00C	00L	✓					
547	↓	13:06	S	I01229	2	00A	00L	✓	↓	↓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/6/92 1515	[illegible]	4/6 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/6 1610	[illegible]	4-6-92 1610
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
548	4/6/92	13:06	S	I01229	2	00B	00L	✓	1	X			
549		13:10	S	I01229	2	00C	00L	✓					
550		13:30	S	W20805	1	00A	00L	✓					
551		13:32	S	W20805	1	00B	00L	✓					
552		13:34	S	W20805	1	00C	00L	✓					
553		13:37	S	W20805	2	00A	00L	✓					
554		13:39	S	W20805	2	00B	00L	✓					
555		13:41	S	W20805	2	00C	00L	✓					
556		13:50	S	W20821	1	00A	00L	✓					
557		13:52	S	W20821	1	00B	00L	✓					
558		13:54	S	W20821	1	00C	00L	✓					
559		13:56	S	W20821	2	00A	00L	✓					
560		13:58	S	W20821	2	00B	00L	✓					
561		14:00	S	W20821	2	00C	00L	✓					
562		14:15	S	W21005	1	00A	00L	✓					
563		14:20	S	W21005	1	00B	00L	✓					
564		14:22	S	W21005	1	00C	00L	✓					
			S	W21005	2	00A	00L						
			S	W21005	2	00B	00L						
			S	W21005	2	00C	00L						
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Wendy Elliott	4/6/92 1515	[illegible]	4/6 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/6 1610	[illegible] ESE	4-6-92 16:0
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC4

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S (Signatures):

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
79	4/3	1042	S	ED22255	1	00B	00D	1	✓			
80		1044	S	ED22255	1	00C	00D	1	✓			
81		1048	S	ED22255	2	00A	00L	1	✓			
82		1050	S	ED22255	2	00B	00L	1	✓			
83		1052	S	ED22255	2	00C	00L	1	✓			
84		1101	S	ED22261	1	00A	00L	1	✓			
85		1103	S	ED22261	1	00B	00L	1	✓			
86		1105	S	ED22261	1	00C	00L	1	✓			
87		1107	S	ED22261	2	00A	00L	1	✓			
88		1109	S	ED22261	2	00B	00L	1	✓			
89		1111	S	ED22261	2	00C	00L	1	✓			
90		1120	S	ED22262	1	00A	00L	1	✓			
91		1122	S	ED22262	1	00B	00L	1	✓			
92		1124	S	ED22262	1	00C	00L	1	✓			
93		1126	S	ED22262	2	00A	00L	1	✓			
94		1128	S	ED22262	2	00B	00L	1	✓			
95		1130	S	ED22262	2	00C	00L	1	✓			
96		1324	S	CL1939	1	00A	00L	1	✓			
97		1326	S	CL1939	1	00B	00L	1	✓			
98		1328	S	CL1939	1	00C	00L	1	✓			
99		1333	S	CL1939	2	00A	00L	1	✓			
100		1335	S	CL1939	2	00B	00L	1	✓			
101		1337	S	CL1939	2	00C	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Paulk	4/3/92 17:15	John Genovese	4-3-92 17:15
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
16	4/3	926	S	SI2254	2	00C	00L	1	✓			
157		932	S	SI2251	1	00A	00L	1	✓			
18		934	S	SI2251	1	00B	00L	1	✓			
409		936	S	SI2251	1	00C	00L	1	✓			
410		938	S	SI2251	2	00A	00L	1	✓			
1		940	S	SI2251	2	00B	00L	1	✓			
412		942	S	SI2251	2	00C	00L	1	✓			
13		1005	S	ED2246	1	00A	00L	1	✓			
464		1007	S	ED2246	1	00B	00L	1	✓			
15		1009	S	ED2246	1	00C	00L	1	✓			
466		1011	S	ED2246	2	00A	00L	1	✓			
17		1013	S	ED2246	2	00B	00L	1	✓			
28		1015	S	ED2246	2	00C	00L	1	✓			
19		1023	S	ED2254	1	00A	00L	1	✓			
420		1025	S	ED2254	1	00B	00L	1	✓			
471		1027	S	ED2254	1	00C	00L	1	✓			
472		1029	S	ED2254	2	00A	00L	1	✓			
473		1031	S	ED2254	2	00B	00L	1	✓			
14		1033	S	ED2254	2	00C	00L	1	✓			
475		1040	S	ED2255	1	00A	00L	1	✓			
16		1042	S	ED2255	1	00B	00L	1	✓			
477		1044	S	ED2255	1	00C	00L	1	✓			
18		1040	S	ED2255	1	00A	00D	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/3/92 17:15	[signature]	4-3-92 17:15
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Walline

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/7/92	11:42	S	I01030	2	00B	00L	✓	1	X			
602	11:44	S	I01030	2	00C	00L	✓					
603	11:56	S	I01028	1	00A	00L	✓					
604	11:58	S	I01028	1	00B	00L	✓					
605	12:00	S	I01028	1	00C	00L	✓					
606	13:19	S	W51302	1	00A	00L	✓					
607	13:21	S	W51302	1	00B	00L	✓					
608	13:23	S	W51302	1	00C	00L	✓					
609	13:24	S	W51302	1	00A	0LD	✓					
610	13:21	S	W51302	1	00B	0LD	✓					
611	13:23	S	W51302	1	00C	0LD	✓					
612	13:26	S	W51302	2	00A	00L	✓					
613	13:28	S	W51302	2	00B	00L	✓					
614	13:30	S	W51302	2	00C	00L	✓					
615	13:50	S	W51321	1	00A	00L	✓					
616	13:52	S	W51321	1	00B	00L	✓					
617	13:54	S	W51321	1	00C	00L	✓					
618	13:56	S	W51321	2	00A	00L	✓					
619	13:58	S	W51321	2	00B	00L	✓					
620	14:00	S	W51321	2	00C	00L	✓					
621	14:24	S	I01120	1	00A	00L	✓					
622	14:26	S	I01120	1	00B	00L	✓					
623	14:28	S	I01120	1	00C	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/7/92	[illegible]	4/7 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/7 1615	[illegible]	4-7 1615

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/7/92	10:03	S	IA1005	2	00C	00L	✓	1	X			
589	10:12	S	IA1005	1	00B	00L	✓					
590	10:14	S	IA1005	1	00B	00L	✓					
591	10:16	S	IA1005	1	00C	00L	✓					
592	10:19	S	IA1005	2	00A	00L	✓					
593	10:21	S	IA1005	2	00B	00L	✓					
594	10:23	S	IA1005	2	00C	00L	✓					
595	10:32	S	IA1004	1	00B	00L	✓					
596	10:34	S	IA1004	1	00B	00L	✓					
597	10:36	S	IA1004	1	00C	00L	✓					
598	11:14	S	IA1026	1	00B	00L	✓					
599	11:16	S	IA1026	1	00B	00L	✓					
600	11:18	S	IA1026	1	00C	00L	✓					
601	11:21	S	IA1026	2	00B	00L	✓					
602	11:23	S	IA1026	2	00B	00L	✓					
603	11:29	S	IA1026	2	00C	00L	✓					
604	11:33	S	IA1032	1	00A	00L	✓					
605	11:35	S	IA1032	1	00B	00L	✓					
606	11:37	S	IA1032	1	00C	00L	✓					
607	11:33	S	IA1032	1	00A	00D	✓					
608	11:35	S	IA1032	1	00B	00D	✓					
609	11:37	S	IA1032	1	00C	00D	✓					
610	11:40	S	IA1032	2	00A	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	4/7/92		4/7 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	4/7 1615		4-7 1615
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 5 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
36	4/1	1509	S	E02245	2	0-2	1	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/1/92 1600	[illegible]	4/1 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/1 1630	[illegible]	4/1 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible] / M Wallace

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
43	4/1	913	S ED2212 1 00C 00D ✓	1	✓			
44		931	S ED2218 1 00A 00L ✓	1	✓			
45		933	S ED2218 1 00B 00L ✓	1	✓			
346		935	S ED2218 1 00C 00L ✓	1	✓			
47		939	S ED2218 2 00A 00L ✓	1	✓			
48		941	S ED2218 2 00B 00L ✓	1	✓			
349		943	S ED2218 2 00C 00L ✓	1	✓			
50		953	S ED2219 1 00A 00L ✓	1	✓			
351		955	S ED2219 1 00B 00L ✓	1	✓			
52		957	S ED2219 1 00C 00L ✓	1	✓			
353		1003	S ED2219 2 00A 00L ✓	1	✓			
54		1003	S ED2219 2 00B 00L ✓	1	✓			
55		1005	S ED2219 2 00C 00L ✓	1	✓			
56		1016	S ED2211 1 00A 00L ✓	1	✓			
57		1018	S ED2211 1 00B 00L ✓	1	✓			
358		1020	S ED2211 1 00C 00L ✓	1	✓			
59		1023	S ED2211 2 00A 00L ✓	1	✓			
360		1025	S ED2211 2 00B 00L ✓	1	✓			
1		1027	S ED2211 2 00C 00L ✓	1	✓			
362		1041	S ED2225 1 00A 00L ✓	1	✓			
63		1043	S ED2225 1 00B 00L ✓	1	✓			
364		1045	S ED2225 1 00C 00L ✓	1	✓			
65		1047	S ED2225 2 00A 00L ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/1/92 1600	[illegible]	4/1 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/1 1630	[illegible]	4/6 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4-367-432

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) C. Powell

DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/2	810	S SI22500 1 00A00L ✓	1	X			
	810	S SI22500 1 00A00D ✓	1	X			
	812	S SI22500 1 00B00L ✓	1	X			
	812	S SI22500 1 00B00D ✓	1	X			
	814	S SI22500 1 00C00L ✓	1	X			
	814	S SI22500 1 00C00D ✓	1	X			
	820	S SI22500 2 00A00L ✓	1	X			
	822	S SI22500 2 00B00L ✓	1	X			
	829	S SI22500 2 00C00L ✓	1	X			
	839	S SI22400 1 00A00L ✓	1	X			
	841	S SI22400 1 00B00L ✓	1	X			
	843	S SI22400 1 00C00L ✓	1	X			
	848	S SI22400 2 00A00L ✓	1	X			
	850	S SI22400 2 00B00L ✓	1	X			
	852	S SI22400 2 00C00L ✓	1	X			
	907	S SI22444 1 00A00L ✓	1	X			
	909	S SI22444 1 00B00L ✓	1	X			
	911	S SI22444 1 00C00L ✓	1	X			
	916	S SI22444 2 00A00L ✓	1	X			
	918	S SI22444 2 00B00L ✓	1	X			
	920	S SI22444 2 00C00L ✓	1	X			
	937	S SI22222 1 00A00L ✓	1	X			
	939	S SI22222 1 00B00L ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/2/92 1630	[signature]	4/2 1630
RELINQUISHED BY: (Signature) [signature]	DATE / TIME 4/2 1700	RECEIVED AT LAB BY: (Signature) Phyllis Lapin	DATE / TIME 4/2 1700
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC4 - 274 - 366

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # 171
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 4-1-92 1630

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-2-92 830

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 4-1-92 seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziplock™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-2-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler WITH ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
*18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# . . . . . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
410	4/2	~~1105~~ 1114	S	ST2235	2	00B	00L	✓	1	X			
411		~~1105~~ 1114	S	ST2235	2	00C	00L	✓	1	X			
412		1435	S	ST2210	1	00A	00L	✓	1	X			
413		14:37	S	ST2210	1	00B	00L	✓	1	X			
414		1439	S	ST2210	1	00C	00L	✓	1	X			
415		1446	S	ST2210	2	00A	00L	✓	1	X			
416		1447	S	ST2210	2	00B	00L	✓	1	X			
417		1449	S	ST2210	2	00C	00L	✓	1	X			
418		1501	S	ST2212	1	00A	00L	✓	1	X			
419		1502	S	ST2212	1	00B	00L	✓	1	X			
420		1503	S	ST2212	1	00C	00L	✓	1	X			
421		1505	S	ST2212	2	00A	00L	✓	1	X			
422		1506	S	ST2212	2	00B	00L	✓	1	X			
423		1507	S	ST2212	2	00C	00L	✓	1	X			
424		1522	S	ST2214	1	00A	00L	✓	1	X			
425		1524	S	ST2214	1	00B	00L	✓	1	X			
426		1526	S	ST2214	1	00C	00L	✓	1	X			
427		1523	S	ST2214	1	00A	0LD	✓	1	X			
428		1525	S	ST2214	1	00B	0LD	✓	1	X			
429		1527	S	ST2214	1	00C	0LD	✓	1	X			
430		1538	S	ST2214	2	00A	00L	✓	1	X			
431		1539	S	ST2214	2	00B	00L	✓	1	X			
432		1540	S	ST2214	2	00C	00L	✓	1	X			

CONTAINER DESCRIPTION/ ANALYSES REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/2/92 1630	[illegible]	4/2 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/2 1700	Phyllis Lapsin	4/2 1700

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WW4 - 37L - 4??

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] C. Powell

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
0	4/2	941	S	SI2222	1	00C	00L	✓	1	X			
91		946	S	SI2222	2	00A	00L	✓	1	X			
2		948	S	SI2222	2	00B	00L	✓	1	X			
873		950	S	SI2222	2	00C	00L	✓	1	X			
94		1008	S	SI2223	1	00A	00L	✓	1	X			
5		1010	S	SI2223	1	00B	00L	✓	1	X			
396		1012	S	SI2223	1	00C	00L	✓	1	X			
7		1017	S	SI2223	2	00A	00L	✓	1	X			
398		1019	S	SI2223	2	00B	00L	✓	1	X			
9		1021	S	SI2223	2	00C	00L	✓	1	X			
400		1033	S	SI2226	1	00A	00L	✓	1	X			
1		1035	S	SI2226	1	00B	00L	✓	1	X			
2		1037	S	SI2226	1	00C	00L	✓	1	X			
3		1041	S	SI2226	2	00A	00L	✓	1	X			
404		1043	S	SI2226	2	00B	00L	✓	1	X			
5		1045	S	SI2226	2	00C	00L	✓	1	X			
6		1103	S	SI2235	1	00A	00L	✓	1	X			
			~~S~~	~~SI2235~~	~~1~~	~~00A~~	~~01D~~		~~1~~	~~X~~		~~EP~~	
7		1105	S	SI2235	1	00B	00L	✓	1	X			
			~~S~~	~~SI2235~~	~~1~~	~~00B~~	~~01D~~		~~1~~	~~X~~		~~EP~~	
8		1107	S	SI2235	1	00C	00L	✓	1	X			
			~~S~~	~~SI2235~~	~~1~~	~~00C~~	~~01D~~		~~1~~	~~X~~		~~EP~~	
09		1112	S	SI2235	2	00A	00L	✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/2/92 16:30	[signature]	4/2 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/2 1700	Phyllis Lapin	4/2 170
METHOD OF SHIPMENT:		AIRBILL NO. (If Applicable)	

WWC4 + 56 - 636

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	4/7/92	8:45	S	I01014	1	00A	00L	✓	1	X			
66		8:47	S	I01014	1	00B	00L	✓					
7		8:49	S	I01014	1	00C	00L	✓					
68		8:52	S	I01014	2	00A	00L	✓					
69		8:54	S	I01014	2	00B	00L	✓					
0		8:56	S	I01014	2	00C	00L	✓					
71		9:05	S	I01012	1	00A	00L	✓					
2		9:07	S	I01012	1	00B	00L	✓					
73		9:09	S	I01012	1	00C	00L	✓					
4		9:11	S	I01012	2	00A	00L	✓					
75		9:13	S	I01012	2	00B	00L	✓					
6		9:15	S	I01012	2	00C	00L	✓					
17		9:25	S	I01011	1	00A	00L	✓					
8		9:27	S	I01011	1	00B	00L	✓					
9		9:29	S	I01011	1	00C	00L	✓					
80		9:31	S	I01011	2	00A	00L	✓					
1		9:33	S	I01011	2	00B	00L	✓					
82		9:35	S	I01011	2	00C	00L	✓					
3		9:52	S	I01009	1	00A	00L	✓					
84		9:54	S	I01009	1	00B	00L	✓					
5		9:56	S	I01009	1	00C	00L	✓					
06		9:59	S	I01009	2	00A	00L	✓					
7		10:01	S	I01009	2	00B	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/7/92 1530	[signature]	4/7 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/7 1615	Carol Cash	4/7 1615

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

WWL4 - 502-564

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 4-6-92 1610

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-7-92 1000

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 4-6-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-7-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

COOLER/SAMPLE RECEIPT FORM

WWC4-565-636

Rev.01 10/7/91

ESE Cooler # 171
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 4-7-92 1615

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT WE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-10-92 800

by (print) Sue Wilson (sign) Sue Wilson

1. List courier delivering samples . . . WWC employee . . . YES - NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . (YES) NO
   If YES, how many and where: 1 front - 1 back
   If YES, enter the following: seal date: 4-7-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . (YES) NO
5. Was chain-of-custody provided? . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-7-92 10 by (all those involved must sign below):

(print) Sue Wilson (sign) Sue Wilson

11. Describe packing: none
*12. If required, was enough ice used? (temperature maintained correctly)? . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . (YES) NO
*18. Were correct preservatives used when required? . . . n/a . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# n/a YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: n/a YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/7/92	14:30	S I01120 2 00R00L ✓	1	X			
14:30		S I01120 2 00R00L ✓	1	X			
14:30		S I01120 2 00C00L ✓	1	X			

RELINQUISHED BY: (Signature) — DATE / TIME: 4/7/92

RECEIVED BY: (Signature) — DATE / TIME: 4/7 1530

RELINQUISHED BY: (Signature) — DATE / TIME: 4/7 1615

RECEIVED AT LAB BY: (Signature) — DATE / TIME: 4-7 1615

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace / [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	4/8/92	10:19	S	BR-2037	1	00C	00L	✓	1	X			
661		10:22	S	BR2037	2	00A	00L	✓					
2		10:24	S	BR2037	2	00B	00L	✓					
663		10:26	S	BR2037	2	00C	00L	✓					
4		10:31	S	BR2035	1	00A	00L	✓					
5		10:33	S	BR2035	1	00B	00L	✓					
666		10:35	S	BR2035	1	00C	00L	✓					
7		10:38	S	BR2035	2	00A	00L	✓					
668		10:40	S	BR2035	2	00B	00L	✓					
9		10:42	S	BR2035	2	00C	00L	✓					
670		10:56	S	WT2636	1	00A	00L	✓					
71		11:00	S	WT2636	1	00B	00L	✓					
672		11:02	S	WT2636	1	00C	00L	✓					
3		11:05	S	WT2636	2	00A	00L	✓					
4		11:07	S	WT2636	2	00B	00L	✓					
75		11:09	S	WT2636	2	00C	00L	✓					
6		11:28	S	WT2606	1	00A	00L	✓					
677		11:30	S	WT2606	1	00B	00L	✓					
8		11:32	S	WT2606	1	00C	00L	✓					
679		11:35	S	WT2606	2	00A	00L	✓					
80		11:37	S	WT2606	2	00B	00L	✓					
681		11:39	S	WT2606	2	00C	00L	✓					
72		13:15	S	FO2221	1	00A	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/8/92 1530	[signature]	4/8 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/8 1615	Carol Cash	4/8 1615

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WW14-631-105

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace

	DATE	TIME	Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
37	4/8/92	8:40	S	0U2026	1	00A	00L	✓	1	X			
38		8:42	S	0U2026	1	00B	00L	✓					
9		8:44	S	0U2026	1	00C	00L	✓					
40		8:47	S	0U2026	2	00A	00L	✓					
41		8:49	S	0U2026	2	00B	00L	✓					
2		8:51	S	0U2026	2	00C	00L	✓					
1063		9:01	S	0U2028	1	00A	00L	✓					
4		9:03	S	0U2028	1	00B	00L	✓					
645		9:05	S	0U2028	1	00C	00L	✓					
6		9:08	S	0U2028	2	00A	00L	✓					
647		9:10	S	0U2028	2	00B	00L	✓					
18		9:12	S	0U2028	2	00C	00L	✓					
19		9:31	S	BR2009	1	00A	00L	✓					
50		9:33	S	BR2009	1	00B	00L	✓					
1		9:35	S	BR2009	1	00C	00L	✓					
652		9:38	S	BR2009	2	00A	00L	✓					
3		9:40	S	BR2009	2	00B	00L	✓					
654		9:42	S	BR2009	2	00C	00L	✓					
5		10:06	S	BR2025	1	00A	00L	✓					
656		10:08	S	BR2025	1	00B	00L	✓					
7		10:10	S	BR2025	1	00C	00L	✓					
658		10:15	S	BR2027	1	00A	00L	✓					
59		10:17	S	BR2027	1	00B	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/8/92 1530	[illegible]	4/8 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/8 1615	Carol Cash	4-8 1615

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWK 4

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
-1	3/26	1006	S	GR1242	2	00C	00L	✓	1	✓			
52		1027	S	GR1125	1	00A	00L	✓	1	✓			
-3		1029	S	GR1125	1	00B	00L	✓	1	✓			
54		1030	S	GR1125	1	00C	00L	✓	1	✓			
-5		1032	S	GR1125	2	00A	00L	✓	1	✓			
-6		1034	S	GR1125	2	00B	00L	✓	1	✓			
57		1036	S	GR1125	2	00C	00L	✓	1	✓			
8		1100	S	GR1229	1	00A	00L	✓	1	✓			
59		1103	S	GR1229	1	00B	00L	✓	1	✓			
0		1105	S	GR1229	1	00C	00L	✓	1	✓			
61		1108	S	GR1229	2	00A	00L	✓	1	✓			
2		1110	S	GR1229	2	00B	00L	✓	1	✓			
63		1112	S	GR1229	2	00C	00L	✓	1	✓			
4		1130	S	GR1231	1	00A	00L	✓	1	✓			
65		1132	S	GR1231	1	00B	00L	✓	1	✓			
6		1134	S	GR1231	1	00C	00L	✓	1	✓			
7		1138	S	GR1231	2	00A	00L	✓	1	✓			
68		1140	S	GR1231	2	00B	00L	✓	1	✓			
9		1142	S	GR1231	2	00C	00L	✓	1	✓			
70		1338	S	GR1238	1	00A	00L	✓	1	✓			
1		1340	S	GR1238	1	00B	00L	✓	1	✓			
72		1342	S	GR1238	1	00C	00L	✓	1	✓			
			S	GR1218	2	00A	00L		1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	03/26/92 1630	[signature]	3/26 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/26 1730	[signature]	3/26 1924
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWCY

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
17	3/26	1541	S	GB0919	1	00C00L		✓	1	✓			
18		1545	S	GB0919	3	00A00L		✓	1	✓			
19		1547	S	GB0919	3	00B00L		✓	1	✓			
20		1549	S	GB0919	2	00S00L		✓	1	✓			
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										
			S										

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/26 1630	[illegible]	3/26 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/26 1730	[illegible]	3/26 1724

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 - 73 - 138

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3	3/27	818	S	GR1308	1	00A	00L	1	✓			
74		820	S	GR1308	1	00B	00L	1	✓			
5		822	S	GR1308	1	00C	00L	1				
76		824	S	GR1308	1	00D	00L	1	✓			
7		826	S	GR1308	1	00B	00L	1	✓			
8		828	S	GR1308	1	00C	00L	1	✓			
79		828	S	GR1308	2	00A	00L	1	✓			
0		830	S	GR1308	2	00B	00L	1	✓			
81		832	S	GR1308	2	00C	00L	1	✓			
2		847	S	GR1310	1	00A	00L	1	✓			
83		850	S	GR1310	1	00B	00L	1	✓			
4		852	S	GR1310	1	00C	00L	1	✓			
85		855	S	GR1310	2	00A	00L	1	✓			
6		857	S	GR1310	2	00B	00L	1	✓			
7		859	S	GR1310	2	00C	00L	1	✓			
88		950	S	GR1101	1	00A	00L	1	✓			
9		953	S	GR1101	1	00B	00L	1	✓			
90		955	S	GR1101	1	00C	00L	1	✓			
1		958	S	GR1101	2	00A	00L	1	✓			
92		1000	S	GR1101	2	00B	00L	1	✓			
3		1003	S	GR1101	2	00C	00L	1	✓			
94		1028	S	GR0801	1	00A	00L	1	✓			
95		1030	S	GR0801	1	00B	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/27/92 16:00	[illegible]	3/27 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/27 1635	[illegible]	3/27 1635

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

wwc4 + 1-72

Rev.01 10/7/91

ESE Cooler # ✓ 176
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-26-92 1724

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 3-27-92 1100

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-26-92 seal name: Dogs
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 3-27-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
19	3/27	1340	S E20817 2 02B024	1	✓			
20		1342	S E20817 2 02C026	1	✓			
21		1351	S E20810 1 00A006	1	✓			
22		1353	S E20810 1 00B006	1	✓			
23		1355	S E20810 1 00C006	1	✓			
24		1358	S E20810 2 00A004	1	✓			
25		1400	S E20810 2 00B004	1	✓			
26		1402	S E20810 2 00C004	1	✓			
27		1404	S E20803 1 00A006	1	✓			
28		1406	S E20803 1 00B006	1	✓			
29		1408	S E20803 1 00C006	1	✓			
30		1410	S E20805 1 00A006	1	✓			
31		1412	S E20805 1 00B006	1	✓			
32		1414	S E20805 1 00C006	1	✓			
33		1424	S E20804 1 00A006	1	✓			
34		1426	S E20804 1 00B006	1	✓			
35		1428	S E20804 1 00C006	1	✓			
36		1431	S E20804 2 00A004	1	✓			
37		1433	S E20804 2 00B004	1	✓			
38		1435	S E20804 2 00C004	1	✓			
			S					
			S					
			S					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavlin	3/27/92 16:00	[illegible]	3/27 1600
RELINQUISHED BY: (Signature) [illegible]	DATE / TIME 3/27 1635	RECEIVED AT LAB BY: (Signature) [illegible]	DATE / TIME 3/27 1635
METHOD OF SHIPMENT:		AIRBILL NO. (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
		92										
6	3/27	1032	S	GR0801	1	00C	00L	1	✓			
77		1034	S	GR0801	2	00A	00L	1	✓			
8		1036	S	GR0801	2	00B	00L	1	✓			
9		1038	S	GR0801	2	00C	00L	1	✓			
100		1052	S	GR0805	1	00A	00L	1	✓			
1		1054	S	GR0805	1	00B	00L	1	✓			
102		1056	S	GR0805	1	00C	00L	1	✓			
3		1100	S	GR0805	2	00A	00L	1	✓			
104		1103	S	GR0805	2	00B	00L	1	✓			
5		1105	S	GR0805	2	00C	00L	1	✓			
106		1113	S	GR0825	1	00A	00L	1	✓			
7		1115	S	GR0825	1	00B	00L	1	✓			
08		1117	S	GR0825	1	00C	00L	1	✓			
9		1122	S	GR0825	2	00A	00L	1	✓			
0		1124	S	GR0825	2	00B	00L	1	✓			
11		1126	S	GR0825	2	00C	00L	1	✓			
2		1151	S	FO0823	1	00A	00L	1	✓			
113		1153	S	FO0823	1	00B	00L	1	✓			
4		1155	S	FO0823	1	00C	00L	1	✓			
115		1332	S	FO0817	1	00A	00L	1	✓			
6		1334	S	FO0817	1	00B	00L	1	✓			
117		1336	S	FO0817	1	00C	00L	1	✓			
8		1338	S	FO0817	2	00A	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pa[illegible]	3/27/92 16:00	[signature]	3/27 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/27 1635	[signature]	3/27 1635
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC 4 - 139 - 207

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
139	3/30	850	S	ED2121	1	00A	00L	✓	1	✓			
140		853	S	ED2121	1	00B	00L	✓	1	✓			
141		855	S	ED2121	1	00C	00L	✓	1	✓			
142		903	S	ED2121	2	00A	00L	✓	1	✓			
143		905	S	ED2121	2	00B	00L	✓	1	✓			
144		907	S	ED2121	2	00C	00L	✓	1	✓			
145		911	S	ED2122	1	00A	00L	✓	1	✓			
146		914	S	ED2122	1	00B	00L	✓	1	✓			
147		916	S	ED2122	1	00C	00L	✓	1	✓			
148		920	S	ED2123	1	00A	00L	✓	1	✓			
149		923	S	ED2123	1	00B	00L	✓	1	✓			
150		925	S	ED2123	1	00C	00L	✓	1	✓			
151		927	S	ED2123	2	00A	00L	✓	1	✓			
152		931	S	ED2123	2	00B	00L	✓	1	✓			
153		933	S	ED2123	2	00C	00L	✓	1	✓			
154		937	S	ED2125½	1	00A	00L	✓	1	✓			
155		939	S	ED2125½	1	00B	00L	✓	1	✓			
156		941	S	ED2125½	1	00C	00L	✓	1	✓			
157		943	S	ED2125½	2	00A	00L	✓	1	✓			
158		945	S	ED2125½	2	00B	00L	✓	1	✓			
159		947	S	ED2125½	2	00C	00L	✓	1	✓			
160		950	S	ED2128	1	00A	00L	✓	1	✓			
161		953	S	ED2128	1	00B	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	5/30/92 1600	[signature]	3/30 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/30 1630	[signature]	3-30-92/1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

On 154 to 159 don't put the ½ on ID talked to [illegible] 4-1-92 about [illegible]

WWL4 - 73 - 138

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler # _____
No Cooler _____

Project: Woodward-Clyde Date/Time Received: 3-27-92 1635

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-1-92 1000

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-27-92 , seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-1-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
85	3/30	1123	S	ST2162	1	00B	00L	1	✓			
86		1125	S	ST2162	1	00C	00L	1	✓			
87		1129	S	ST2162	2	00A	00L	1	✓			
88		1132	S	ST2162	2	00B	00L	1	✓			
89		1134	S	ST2162	2	00C	00L	1	✓			
90		1145	S	ST2159	1	00A	00L	1	✓			
91		1147	S	ST2159	1	00B	00L	1	✓			
92		1149	S	ST2159	1	00C	00L	1	✓			
93		1153	S	ST2159	2	00A	00L	1	✓			
94		1155	S	ST2159	2	00B	00L	1	✓			
95		1157	S	ST2159	2	00C	00L	1	✓			
96		1345	S	GR2139	2	00A	00L	1	✓			
97		1347	S	GR2139	2	00B	00L	1	✓			
98		1349	S	GR2139	2	00C	00L	1	✓			
			~~S~~	~~GR2139~~	~~2~~	~~00A~~	~~00L~~	~~1~~	~~✓~~			
			~~S~~	~~GR2139~~	~~2~~	~~00B~~	~~00L~~	~~1~~	~~✓~~			
			~~S~~	~~GR2139~~	~~2~~	~~00C~~	~~00L~~	~~1~~	~~✓~~			
99		1400	S	ST2148	1	00A	00L	1	✓			
00		1403	S	ST2148	2	00B	00L	1	✓			
01		1405	S	ST2148	2	00C	00L	1	✓			
02		1415	S	ST2147	1	00A	00L	1	✓			
03		1417	S	ST2147	1	00B	00L	1	✓			
04		1419	S	ST2147	1	00C	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/30/92 1600	[signature]	3/30 1600
RELINQUISHED BY: (Signature) [signature]	DATE / TIME 3/30 1630	RECEIVED AT LAB BY: (Signature) [signature] / ESE	DATE / TIME 3-30-92/1630
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. Poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2	3/30	955	S ED2128 L 00C 00L ✓	1	✓			
3		1000	S ED2128 2 00A 00L ✓	1	✓			
4		1003	S ED2128 2 00B 00L ✓	1	✓			
165		1005	S ED2128 2 00C 00L ✓	1	✓			
6		1009	S ED2141 L 00A 00L ✓	1	✓			
7		1009	S ED2141 1 00B 00L ✓	1	✓			
8		1011	S ED2141 1 00C 00L ✓	1	✓			
9		1014	S ED2141 2 00A 00L ✓	1	✓			
170		1016	S ED2141 2 00B 00L ✓	1	✓			
1		1018	S ED2141 2 00C 00L ✓	1	✓			
172		1020	S ED2149 L 00A 00L ✓	1	✓			
3		1022	S ED2149 1 00A 00L ✓	1	✓			
4		1024	S ED2149 1 00C 00L ✓	1	✓			
5		1026	S ED2149 2 00A 00L ✓	1	✓			
6		1028	S ED2149 2 00B 00L ✓	1	✓			
7		1030	S ED2149 2 00C 00L ✓	1	✓			
8		1100	S SI2150 1 00A 00L ✓	1	✓			
179		1103	S SI2150 1 00B 00L ✓	1	✓			
0		1105	S SI2150 1 00C 00L ✓	1	✓			
181		1107	S SI2150 2 00A 00L ✓	1	✓			
2		1109	S SI2150 2 00B 00L ✓	1	✓			
183		1111	S SI2150 2 00C 00L ✓	1	✓			
4		1120	S SI2159 1 00A 00L ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/30/92 1600	[illegible]	3/30 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/30 1630	[illegible]	3-30-92 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWP4 — 139 -207

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓
Client Cooler #
No Cooler

Project: Woodward-Clyde Date/Time Received: 3-30-92 1630

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-1-92 800

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples ..... Client ..... YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? ..... YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? ..... (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-30-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
5. Was chain-of-custody provided? ..... (YES) NO
6. Were custody papers sealed in a Ziplock bag and taped inside to the lid? ..... (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? ..... YES (NO)
9. Did you sign custody papers in the appropriate place? ..... (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-1-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Coolers with ice
*12. If required, was enough ice used? (temperature maintained correctly)? ..... (YES) NO
13. Were all bottles sealed in separate plastic bags? ..... YES (NO)
*14. Did all bottles arrive unbroken and in good condition? ..... (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. ..... (YES) NO
17. Were correct containers used for the tests indicated? ..... (YES) NO
*18. Were correct preservatives used when required? ..... (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# ..... (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? By whom? on (date)
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

+) 154 to 159 has a ½ in the ID.
Called Cynthia on 4-1-92 about this.
She said don't put it in the ID.

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) K Shelton, M Walker

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. Poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
5	3/30	1423	S SI21472 00A 02 ✓	1	✓			
206		1425	S SI21472 00B 02 ✓	1	✓			
7		1427	S SI21472 02C 02 ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/30/92 1600	[signature]	3/30 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/31 1630	[signature]	3-30-92 1631

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

WWC4-637-705

Rev.01 10/7/91

ESE Cooler # 47
Client Cooler #
No Cooler

Project: Woodward Clyde Date/Time Received: 4-8-92 1615

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-10-92 900

by (print) Sue Wilson (sign) Sue Wilson

1. List courier delivering samples . WWC employee . . . . . YES *NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here:
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 1 front / 1 back
   If YES, enter the following: seal date: 4-9-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-10-92 by (all those involved must sign below):

(print) Sue Wilson (sign) Sue Wilson

11. Describe packing: none
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . ~~YES~~ (NO) SN
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . N/A YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# N/A YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: N/A YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review:

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 3

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wallace / [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3	4/8/92	13:17	S	IO2221	1	00B	00L	✓	1	X			
84		13:19	S	IO2221	1	00C	00L	✓					
5		13:22	S	IO2221	2	00A	00L	✓					
6		13:24	S	IO2221	2	00B	00L	✓					
97		13:26	S	IO2221	2	00C	00L	✓					
8		13:55	S	DV2503	1	00A	00L	✓					
689		14:00	S	DV2503	1	00B	00L	✓					
90		14:02	S	DV2503	1	00C	00L	✓					
691		14:05	S	DV2503	2	00A	00L	✓					
92		14:07	S	DV2503	2	00B	00L	✓					
693		14:09	S	DV2503	2	00C	00L	✓					
4		14:12	S	DV2507	2	00A	00L	✓					
45		14:14	S	DV2507	1	00B	00L	✓					
6		14:16	S	DV2507	1	00C	00L	✓					
7		14:20	S	DV2507	2	00A	00L	✓					
98		14:22	S	DV2507	2	00B	00L	✓					
9		14:24	S	DV2507	2	00C	00L	✓					
700		14:43	S	DV2619	1	00A	00L	✓					
1		14:46	S	DV2619	1	00B	00L	✓					
702		14:47	S	DV2619	1	00C	00L	✓					
3		14:50	S	DV2619	2	00A	00L	✓					
704		14:52	S	DV2619	2	00B	00L	✓					
5		14:54	S	DV2619	2	00C	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/8/92 1530	[signature]	4/8 1530
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/8 1615	Carol Cash	4-8 1615
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M Wellman / [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7 9	4/9/92	9:44	S	RE0927	2	00C	00L		X			
730		9:55	S	RE0935	1	00A	00L					
731		9:57	S	RE0935	1	00B	00L					
732		9:59	S	RE0935	1	00C	00L					
733		9:55	S	RE0935	1	00A	0LD					
734		9:57	S	RE0935	1	00B	0LD					
735		9:59	S	RE0935	1	00C	0LD					
736		10:02	S	RE0935	2	00A	00L					
737		10:04	S	RE0935	2	00B	00L					
738		10:06	S	RE0935	2	00C	00L					
739		10:42	S	RE1104	1	00A	00L					
740		10:44	S	RE1104	1	00B	00L					
741		10:46	S	RE1104	1	00C	00L					
742		10:49	S	RE1104	2	00A	00L					
743		10:51	S	RE1104	2	00B	00L					
744		10:53	S	RE1104	2	00C	00L					
745		10:58	S	RE1113	1	00A	00L					
746		11:00	S	RE1113	1	00B	00L					
747		11:02	S	RE1113	1	00C	00L					
748		11:05	S	RE1113	2	00A	00L					
749		11:07	S	RE1113	2	00B	00L					
750		11:09	S	RE1113	2	00C	00L					
751		11:15	S	RE1112	1	00A	00L					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/9/92 1515	[signature]	4/9 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/9 1600	Carol Cash	4-9 1600

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 - 706 - 787

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
6 4/9/91	7:38	S	I01018	2	00A	00L	1	X			
7	7:40	S	I01018	2	00B	00L					
8	7:42	S	I01018	2	00C	00L					
109	7:45	S	I01018	12	00A	00L					
10	7:47	S	I01018	12	00B	00L					
11	7:49	S	I01018	12	00C	00L					
712	8:24	S	ER1849	1	00A	00L					
13	8:26	S	ER1849	1	00B	00L					
714	8:28	S	ER1849	1	00C	00L					
15	8:30	S	ER1849	2	00A	00L					
716	8:32	S	ER1849	2	00B	00L					
17	8:34	S	ER1849	2	00C	00L					
18	8:52	S	I01310	1	00A	00L					
19	8:54	S	I01310	1	00B	00L					
20	8:56	S	I01310	1	00C	00L					
721	8:59	S	I01310	2	00A	00L					
22	9:01	S	I01310	2	00B	00L					
723	9:03	S	I01310	2	00C	00L					
24	9:33	S	RE0927	1	00A	00L					
725	9:35	S	RE0927	1	00B	00L					
26	9:37	S	RE0927	1	00C	00L					
27	9:40	S	RE0927	2	00A	00L					
28	9:42	S	RE0927	2	00B	00L					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Powell	4/9 15:15	[illegible]	4/9 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/9 1600	[illegible]	4-9 1600

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/9/92	13:37	S	RE1129	2	00A	00L	1	X			
	13:40	S	RE1129	2	00B	00L					
	13:42	S	RE1129	2	00C	00L					
	13:47	S	RE1130	1	00A	00L					
	13:49	S	RE1130	1	00B	00L					
	13:51	S	RE1130	1	00C	00L					
	13:55	S	RE1130	2	00A	00L					
	13:57	S	RE1130	2	00B	00L					
	13:59	S	RE1130	2	00C	00L					
	14:05	S	RE1128	1	00A	00L					
	14:07	S	RE1128	1	00B	00L					
	14:09	S	RE1128	1	00C	00L					
	14:12	S	RE1128	2	00A	00L					
	14:14	S	RE1128	2	00B	00L					
	14:16	S	RE1128	2	00C	00L					
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	4/9/92 15:15		4/9 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	4-9 1600		4-9 1600

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/9/92	1117	S	RE1112	1	00B	00L		✓			
	1119	S	RE1112	1	00C	00L					
	11:22	S	RE1112	2	00A	00L					
	11:24	S	RE1112	2	00B	00L					
	11:26	S	RE1112	2	00C	00L					
	11:30	S	RE1108	1	00A	00L					
	11:32	S	RE1108	1	00B	00L					
	11:34	S	RE1108	1	00C	00L					
	11:37	S	RE1108	2	00A	00L					
	11:39	S	RE1108	2	00B	00L					
	11:41	S	RE1108	2	00C	00L					
	13:15	S	RE1119	1	00A	00L					
	13:17	S	RE1119	1	00B	00L					
	13:19	S	RE1119	1	00C	00L					
	13:22	S	RE1119	2	00A	00L					
	13:24	S	RE1119	2	00B	00L					
	13:26	S	RE1119	2	00C	00L					
	13:30	S	RE1129	1	00A	00L					
	13:32	S	RE1129	1	00B	00L					
	13:34	S	RE1129	1	00C	00L					
	13:30	S	RE1129	1	00A	0LD					
	13:32	S	RE1129	1	00B	0LD					
	13:34	S	RE1129	1	00C	0LD					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/9/92 15:15	[signature]	4/9 1515
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/9 1600	[signature]	4-9 1600

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 * 790-861

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
7 0	4/10/92	8:24	S	EL1916	1	00A	00L	1	X			
711		8:26	S	EL1916	1	00B	00L					
7 2		8:28	S	EL1916	1	00C	00L					
7,3		8:30	S	EL1916	2	00A	00L					
794		8:[illegible]	S	EL1916	2	00B	00L					
7 5		8:34	S	EL1916	2	00C	00L					
796		9:00	S	KE1610	1	00A	00L					
7 7		9:02	S	KE1610	1	00B	00L					
798		9:04	S	KE1610	1	00C	00L					
7 7		9:07	S	KE1610	2	00A	00L					
800		9:09	S	KE1610	2	00B	00L					
8 1		9:11	S	KE1610	2	00C	00L					
8 2		9:17	S	KE1608	1	00A	00L					
803		9:19	S	KE1608	1	00B	00L					
[illegible]		9:21	S	KE1608	1	00C	00L					
05		9:25	S	KE1608	2	00A	00L					
[illegible]		9:27	S	KE1608	2	00B	00L					
807		9:29	S	KE1608	2	00C	00L					
[illegible]		9:45	S	KE1607	1	00A	00L					
809		9:47	S	KE1607	1	00B	00L					
[illegible]		9:49	S	KE1607	1	00C	00L					
[illegible]		9:52	S	KE1607	2	00A	00L					
[illegible]		9:54	S	KE1607	2	00B	00L					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/10/92 1610	[signature]	4/10 1610
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/10 1650	Carol Cash	4-10 1649

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

COOLER/SAMPLE RECEIPT FORM

WWC4 - 706 - 789

Rev.01 10/7/91

ESE Cooler # ✓ 171
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 4-9-92 1600

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-10-92 1000

by (print) Sue Wilson (sign) Sue Wilson

1. List courier delivering samples . . WWC employee . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 1 front / 1 back
   If YES, enter the following: seal date: 4-9-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec® bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-10-92 by (all those involved must sign below):

(print) Sue Wilson (sign) Sue Wilson

11. Describe packing: none
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . N/A YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ N/A YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: _____ N/A YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC4 # 740

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/10/92	11:54	S	MC1023	2	00B	00L	1	X			
	11:56	S	MC1023	2	00C	00L					
	13:52	S	EL1601	1	00A	00L					
	13:54	S	EL1601	1	00B	00L					
	13:56	S	EL1601	1	00C	00L					
	14:01	S	EL1601	2	00A	00L					
	14:03	S	EL1601	2	00B	00L					
	14:05	S	EL1601	2	00C	00L					
	14:20	S	EL1603	1	00A	00L					
	14:22	S	EL1603	1	00B	00L					
	14:24	S	EL1603	1	00C	00L					
	14:27	S	EL1603	2	00A	00L					
	14:29	S	EL1603	2	00B	00L					
	14:31	S	EL1603	2	00C	00L					
	14:37	S	EL1611	1	00A	00L					
	14:39	S	EL1611	1	00B	00L					
	14:41	S	EL1611	1	00C	00L					
	14:44	S	EL1611	2	00A	00L					
	14:46	S	EL1611	2	00B	00L					
	14:48	S	EL1611	2	00C	00L					
	14:56	S	EL1608	1	00A	00L					
	14:58	S	EL1608	1	00B	00L					
	15:00	S	EL1608	1	00C	00L	X				

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pawlik	4/10/92 1610	[signature]	4/10 1610
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/10 1650	Carol Cash	4-10 1649

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3	4/10/92	9:56	S	KE1607	2	00C	00L	1	X			
4		10:05	S	KE1605	1	00A	00L					
5		10:07	S	KE1605	1	00B	00L					
816		10:09	S	KE1605	1	00C	00L					
7		10:12	S	KE1605	2	00A	00L					
810		10:14	S	KE1605	2	00B	00L					
819		10:16	S	KE1605	2	00C	00L					
0		10:42	S	KE1604	1	00A	00L					
821		10:44	S	KE1604	1	00B	00L					
2		10:46	S	KE1604	1	00C	00L					
823		10:50	S	KE1604	2	00A	00L					
4		10:52	S	KE1604	2	00B	00L					
5		10:54	S	KE1604	2	00C	00L					
6		11:25	S	MC1019	1	00A	00L					
7		11:27	S	MC1019	1	00B	00L					
828		11:29	S	MC1019	1	00C	00L					
7		1132	S	MC1019	2	00A	00L					
830		1134	S	MC1019	2	00B	00L					
1		1136	S	MC1019	2	00C	00L					
832		11:45	S	MC1023	1	00A	00L					
3		11:47	S	MC1023	1	00B	00L					
834		11:49	S	MC1023	1	00C	00L					
5	V	11:52	S	DC1023	2	00A	00L	V	V			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parell	4/10/92 16:10		4/10 1610
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
	4/10 1650		4/10 1645
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC4 + 790 861

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 167
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 4-10-92 1649

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-11-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 1 on front 1 on Back
   If YES, enter the following: seal date: 4-10-92 seal name: Eric Sage
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc® bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-11-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) M. Walker

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
9	4/10/92	15:03	S	EL16C5	2	20A	00L	1	X			
20		15:05	S	EL16C5	2	20B	00L	1	X			
1		15:07	S	EL16C5	2	20C	00L	1	X			
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									
			S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Pavelka	4/10/92 1610	[illegible]	4/10 1610
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/10 1650	Carol Cash	4-10 164[illegible]
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
885	4/13	958	SMED6L6 2 00C 00L ✓	1	X			
886		1039	SMED626 1 00A 00L ✓					
887		1041	SMED626 1 00B 00L ✓					
888		1043	SMED626 1 00C 00L ✓					
889		1046	SMED626 2 00A 00L ✓					
890		1048	SMED626 2 00B 00L ✓					
891		1050	SMED626 2 00C 00L ✓					
892		1057	SMED626 1 00A 00L ✓					
893		1059	SMED626 1 00B 00L ✓					
894		1101	SMED628 1 00C 00L ✓					
895		1104	SMED628 2 00A 00L ✓					
896		1106	SMED628 2 00B 00L ✓					
897		1108	SMED626 2 00C 00L ✓					
898		1115	SMED636 1 00A 00L ✓					
899		1117	SMED626 1 00B 00L ✓					
900		1119	SMED636 1 00C 00L ✓					
901		1122	SMED636 2 00A 00L ✓					
902		1124	SMED636 2 00B 00L ✓					
903		1126	SMED636 2 00C 00L ✓					
904		1152	SMA01L7 1 00A 00L ✓					
905		1154	SMA01L7 1 00B 00L ✓					
906		1156	SMA01L7 1 00C 00L ✓					
907		1159	SMA01L7 2 00A 00L ✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/13/92 1600	[signature]	4/13 1600
RELINQUISHED BY: (Signature)	**DATE / TIME**	**RECEIVED AT LAB BY: (Signature)**	**DATE / TIME**
[signature]	4/13 1195	[signature]	4-13 4pm

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 - 862 - 933

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/13	823	S	MA0907	1	00A	00L	✓	1	X			
	825	S	MA0907	1	00B	00L	✓					
	827	S	MA0907	1	00C	00L	✓					
	830	S	MA0907	2	00A	00L	✓					
	832	S	MA0907	2	00B	00L	✓					
	834	S	MA0907	2	00C	00L	✓					
	911	S	ME0620	1	00A	00L	✓					
	913	S	ME0620	1	00B	00L	✓					
	915	S	ME0620	1	00C	00L	✓					
	918	S	ME0620	2	00A	00L	✓					
	920	S	ME0620	2	00B	00L	✓					
	922	S	ME0620	2	00C	00L	✓					
	930	S	ME0606	1	00A	00L	✓					
	932	S	ME0606	1	00B	00L	✓					
	934	S	ME0606	1	00C	00L	✓					
	938	S	ME0606	2	00A	00L	✓					
	940	S	ME0606	2	00B	00L	✓					
	942	S	ME0606	2	00C	00L	✓					
	947	S	ME0616	1	00A	00L	✓					
	949	S	ME0616	1	00B	00L	✓					
	951	S	ME0616	1	00C	00L	✓					
	954	S	ME0616	2	00A	00L	✓					
	956	S	ME0616	2	00B	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/13/92 1600	[signature]	4/13 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/13 1695	[signature]	4-13 4PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN/FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
31	4/13	1511	S SA0633 2 0004 0042 ✓	1	X			
932	↓	1513	S SA0633 2 0008 0042 ✓	1	X			
933	↓	1515	S SA0633 2 0006 0042 ✓	1	X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/13/92 1600	[signature]	4/13 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/13 1645	[signature]	4-13 4pm
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
908	4/13	1201	S	MA0917	2	00B	00L	✓		X			
09		1203	S	MA0917	2	00C	00L	✓					
910		1416	S	SA0609	1	00A	00L	✓					
911		1418	S	SA0609	1	00B	00L	✓					
912		1420	S	SA0609	1	00C	00L	✓					
913		1423	S	SA0609	2	00A	00L	✓					
914		1425	S	SA0609	2	00B	00L	✓					
915		1427	S	SA0609	2	00C	00L	✓					
916		1434	S	SA0615	1	00A	00L	✓					
917		1436	S	SA0615	1	00B	00L	✓					
918		1438	S	SA0615	1	00C	00L	✓					
919		1441	S	SA0615	2	00A	00L	✓					
920		1443	S	SA0615	2	00B	00L	✓					
921		1445	S	SA0615	2	00C	00L	✓					
922		1448	S	SA0637	1	00A	00L	✓					
923		1450	S	SA0637	1	00B	00L	✓					
924		1454	S	SA0637	1	00C	00L	✓					
925		1455	S	SA0637	2	00A	00L	✓					
926		1457	S	SA0637	2	00B	00L	✓					
927		1459	S	SA0637	2	00C	00L	✓					
928		1504	S	SA0633	1	00A	00L	✓					
929		1506	S	SA0633	1	00B	00L	✓					
930		1508	S	SA0633	1	00C	00L	✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/13/92 1600	[signature]	4/13 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/13 1645	[signature]	4-13 4PM
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

Environmental Science & Engineering, Inc.

Letter of Transmitta

✓ 11665 Lilburn Park Rd
St. Louis, MO 63146
(314) 567-4600
FAX 314-567-5030

8230 Marshall Dr
Lenexa, KS 66214
(913) 492-6554
FAX 913-492-9256

701 E. 2nd St
Des Moines, IA 50309
(515) 282-9607
FAX 515-282-9610

DATE 8-17-92 JOB NO 5912031 0100

ATTENTION CYNTHIA PAVELKA

RE NL / TARACORP

WE ARE SENDING YOU ✓ Attached ☐ Under separate cover via _____ the following items

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	LATEST DATE	NO	DESCRIPTION
1			RAW DATA FOR MOISTURE ANALYSIS
1			C-O-C for samples WWC4 *934-999

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No exception taken ☐ Revise and submit ___ copies

☐ For your use ☐ Make corrections noted ☐ Submit ___ copies for distribution

☐ As requested ☐ Rejected ☐ Return ___ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19___ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Cynthia –

There should be sufficient data to cover 10% for each of the files (field groups: WWC, WWC3, WWC4). Other QC results will be available soon.

SEE DATA VALIDATION FILES FOR DATA - WEC, 8/25/92

COPY TO FILE

Signed John Gemoules

* enclosures are not as noted, please notify us at once

white copy - client yellow copy - correspondence pink copy - rec...

WWC4-862-933

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ #1. ✓
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 4-13-92 1600

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-14-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 1 on front 1 on Back
   If YES, enter the following: seal date: 4-13-92 seal name: Mirellee E Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-14-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

U:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD–CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314–429–0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP – Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
57	4/14	925	S DE2019 1 00C 00L ✓	1	X			
58		926	S DE2019 2 00A 00L ✓					
59		930	S DE2019 2 00B 00L ✓					
60		932	S DE2019 2 00C 00L ✓					
61		950	S DE2209 1 00A 00L ✓					
62		952	S DE2209 1 00B 00L ✓					
63		954	S DE2209 1 00C 00L ✓					
64		950	S DE2209 1 00A 00L ✓					
65		952	S DE2209 1 00B 00L ✓					
66		954	S DE2209 1 00C 00L ✓					
67		956	S DE2209 2 00A 00L ✓					
68		1000	S DE2209 2 00B 00L ✓					
69		1002	S DE2209 2 00C 00L ✓					
70		1021	S DE2263 1 00A 00L ✓					
71		1023	S DE2263 1 00B 00L ✓					
72		1025	S DE2263 1 00C 00L ✓					
73		1028	S DE2263 2 00A 00L ✓					
74		1030	S DE2263 2 00B 00L ✓					
75		1032	S DE2263 2 00C 00L ✓					
76		1044	S DE2257 1 00A 00L ✓					
77		1046	S DE2257 1 00B 00L ✓					
78		1048	S DE2257 1 00C 00L ✓					
79		1051	S DE2257 2 00A 00L ✓	✓	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/14/92 1430	[signature]	4/14 1430
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/14 1515	[signature]	4/14 1515
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC4 # 934-999 WWC5 #1-12

CHAIN OF CUSTODY RECORD

WWC5 #1-12

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
34	4/14	810	S DEL729 1 00A 00L ✓	1	K			
35		812	S DEL729 1 00B 00L ✓					
36		814	S DEL729 1 00C 00L ✓					
937		821	S DEL718 1 00A 00L ✓					
38		823	S DEL718 1 00B 00L ✓					
39		825	S DEL718 1 00C 00L ✓					
940		821	S DEL718 1 00A 00LD ✓					
41		823	S DEL718 1 00B 00LD ✓					
942		825	S DEL718 1 00C 00LD ✓					
43		828	S DEL718 2 00A 00L ✓					
944		830	S DEL718 2 00B 00L ✓					
45		832	S DEL718 2 00C 00L ✓					
46		901	S DE2016 1 00A 00L ✓					
47		903	S DE2016 1 00B 00L ✓					
948		905	S DE2016 1 00C 00L ✓					
949		901	S DE2016 1 00A 00LD ✓					
50		903	S DE2016 1 00B 00LD ✓					
951		905	S DE2016 1 00C 00LD ✓					
52		909	S DE2016 2 00A 00L ✓					
953		911	S DE2016 2 00B 00L ✓					
54		913	S DE2016 2 00C 00L ✓					
955		921	S DE2019 1 00A 00L ✓					
56		923	S DE2019 1 00B 00L ✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/14/92 1430	[signature]	4/14 1430
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	4/14 1515	[signature]	4/14 15[illegible]
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC4*934 - 999 WWC 5X 1-12

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

ESE Cooler # ✓ 168
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 4-14-92 1515

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-15-92 900

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES NO
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . YES NO
   If YES, how many and where: 1 on front 1 on Back
   If YES, enter the following: seal date: 4-15-92 seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
5. Was chain-of-custody provided? . . . . . YES NO
6. Were custody papers sealed in a Ziploc™ bag and taped inside to the lid? . . . . . YES NO
7. Were entries on custody papers completed? YES NO . If no, give details on back
8. Turnaround time included? . . . . . YES NO
9. Did you sign custody papers in the appropriate place? . . . . . YES NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. YES NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-15-92 by (all those involved must sign below):
(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples on Cooler with ice
12. If required, was enough ice used? (temperature maintained correctly)? . . . . . YES NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES NO
*14. Did all bottles arrive unbroken and in good condition? . . . . . YES NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . YES NO
17. Were correct containers used for the tests indicated? . . . . . YES NO
18. Were correct preservatives used when required? . . . . . YES NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . YES NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

U:\WP\CHEMCOM\CRF.01

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
90	4/14	1053	S DE2257 2 00B 00L ✓	1	X			
91		1055	S DE2257 2 00C 00L ✓					
182		1104	S DE2256 1 00A 00L ✓					
183		1106	S DE2256 1 00B 00L ✓					
184		1108	S DE2256 1 00C 00L ✓					
185		1111	S DE2256 2 00A 00L ✓					
986		1113	S DE2256 2 00B 00L ✓					
87		1115	S DE2256 2 00C 00L ✓					
988		1121	S DE2254 1 00A 00L ✓					
89		1123	S DE2254 1 00B 00L ✓					
990		1125	S DE2254 1 00C 00L ✓					
			~~S DE2254 2 00A 00L~~					
			~~S DE2254 2 00B 00L~~					
			~~S DE2254 2 00C 00L~~					
991		1140	S TS1240 1 00A 00L ✓					
992		1142	S TS1240 1 00B 00L ✓					
93		1144	S TS1240 1 00C 00L ✓					
994		1306	S DE2124 1 00A 00L ✓					
95		1308	S DE2124 1 00B 00L ✓					
996		1310	S DE2124 1 00C 00L ✓					
97		1306	S DE2124 1 00A 00LD ✓					
998		1308	S DE2124 1 00B 00LD ✓					
99		1310	S DE2124 1 00C 00LD ✓					

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/14/92 1430	[illegible]	4/14 1430
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/14 1515	[illegible]	4-14 1515

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC 7

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature] [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type		NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
24	3/26	1416	S	GR0906	1	00A	00L	✓	1	✓			
25		1418	S	GR0906	1	00B	00L	✓	1	✓			
6		1420	S	GR0906	1	00C	00L	✓	1	✓			
27		1425	S	GR0906	2	00A	00L	✓	1	✓			
28		1427	S	GR0906	2	00B	00L	✓	1	✓			
9		1429	S	GR0906	2	00C	00L	✓	1	✓			
30		1439	S	GR0901	1	00A	00L	✓	1	✓			
1		1442	S	GR0901	1	00B	00L	✓	1	✓			
32		1444	S	GR0901	1	00C	00L	✓	1	✓			
3		1446	S	GR0901	2	00A	00L	✓	1	✓			
34		1448	S	GR0901	2	00B	00L	✓	1	✓			
5		1450	S	GR0901	2	00C	00L	✓	1	✓			
36		1501	S	GR0900	1	00A	00L	✓	1	✓			
37		1504	S	GR0900	1	00B	00L	✓	1	✓			
38		1506	S	GR0900	1	00C	00L	✓	1	✓			
29		1501	S	GR0900	1	00A	0LD	✓	1	✓			
40		1504	S	GR0900	1	00B	0LD	✓	1	✓			
41		1506	S	GR0900	1	00C	0LD	✓	1	✓			
2		1510	S	GR0900	2	00A	00L	✓	1	✓			
43		1512	S	GR0900	2	00B	00L	✓	1	✓			
4		1514	S	GR0900	2	00C	00L	✓	1	✓			
45		1537	S	GR0919	1	00A	00L	✓	1	✓			
6		1539	S	GR0919	1	00B	00L	✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/26/92 1640	[signature]	3/26 1630
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/26 1730	Carol Cash	3-26 1724

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WWC4 # 1-10

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 1

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

	DATE	TIME	SAMPLE I.D. NUMBER (Matrix / Location / Boring / Depth / Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
1	3/26	835	S GR1216 1 02A 02L ✓	1	✓			
2		837	S GR1216 1 02B 02L ✓	1	✓			
3		839	S GR1216 1 02C 02L ✓	1	✓			
4		841	S GR1216 2 02A 02L ✓	1	✓			
5		843	S GR1216 2 02B 02L ✓	1	✓			
6		845	S GR1216 2 02C 02L ✓	1	✓			
7		858	S GR[illegible] 1 02A 02L ✓	1	✓			
8		900	S GR1225 1 02B 02L ✓	1	✓			
9		903	S GR1225 1 02C 02L ✓	1	✓			
10		905	S GR1225 2 02A 02L ✓	1	✓			
11		907	S GR1225 2 02B 02L ✓	1	✓			
12		909	S GR1225 2 02C 02L ✓	1	✓			
13		925	S GR1221 1 02A 02L ✓	1	✓			
14		927	S GR1221 1 02B 02L ✓	1	✓			
15		929	S GR1221 1 02C 02L ✓	1	✓			
16		934	S GR1221 2 02A 02L ✓	1	✓			
17		936	S GR1221 2 02B 02L ✓	1	✓			
18		938	S GR1221 2 02C 02L ✓	1	✓			
19		954	S GR1242 1 02A 02L ✓	1	✓			
20		956	S GR1242 1 02B 02L ✓	1	✓			
21		958	S GR1242 1 02C 02L ✓	1	✓			
22		1000	S GR1242 2 02A 02L ✓	1	✓			
23		1004	S GR1242 2 02B 02L ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	3/26/92 1640	[illegible]	3/26 163[illegible]
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/26 1730	Carol Cash	3-26 172[illegible]
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

LEAD ANALYSIS

Pages 25 - 48

Environmental Science & Engineering, Inc.

St Louis Chemistry Laboratory

11665 Lilburn Park Road
St Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SGR1216100A00L	WWC4*1	03/26/92	03/26/92	460	6.3	03/31/92	04/13/92	PW
SGR1216100B00L	WWC4*2	03/26/92	03/26/92	464	5.9	03/31/92	04/13/92	PW
SGR1216100C00L	WWC4*3	03/26/92	03/26/92	304	6.1	03/31/92	04/13/92	PW
SGR1216200A00L	WWC4*4	03/26/92	03/26/92	301	6.0	03/31/92	04/13/92	PW
SGR1216200B00L	WWC4*5	03/26/92	03/26/92	154	5.8	03/31/92	04/13/92	[illegible]
SGR1216200C00L	WWC4*6	03/26/92	03/26/92	79.7	5.5	03/31/92	04/13/92	[illegible]
SGR1225100A00L	WWC4*7	03/26/92	03/26/92	724	6.4	03/31/92	04/13/92	PW
SGR1225100B00L	WWC4*8	03/26/92	03/26/92	587	6.2	03/31/92	04/13/92	PW
SGR1225100C00L	WWC4*9	03/26/92	03/26/92	389	5.8	03/31/92	04/13/92	PW
SGR1225200A00L	WWC4*10	03/26/92	03/26/92	838	6.2	03/31/92	04/13/92	PW
SGR1225200B00L	WWC4*11	03/26/92	03/26/92	766	5.9	03/31/92	04/13/92	PW
SGR1225200C00L	WWC4*12	03/26/92	03/26/92	483	6.0	03/31/92	04/13/92	PW
SGR1201100A00L	WWC4*13	03/26/92	03/26/92	710	6.3	03/31/92	04/13/92	PW
SGR1201100B00L	WWC4*14	03/26/92	03/26/92	300	5.9	03/31/92	04/13/92	PW
SGR1201100C00L	WWC4*15	03/26/92	03/26/92	168	5.8	03/31/92	04/13/92	PW
SGR1201200A00L	WWC4*16	03/26/92	03/26/92	509	6.7	03/31/92	04/13/92	PW
SGR1201200B00L	WWC4*17	03/26/92	03/26/92	368	6.0	03/31/92	04/13/92	PW
SGR1201200C00L	WWC4*18	03/26/92	03/26/92	276	6.0	03/31/92	04/13/92	PW
SGR1242100A00L	WWC4*19	03/26/92	03/26/92	193	6.5	03/31/92	04/13/92	[illegible]
SGR1242100B00L	WWC4*20	03/26/92	03/26/92	187	6.0	03/31/92	04/13/92	
SGR1242100C00L	WWC4*21	03/26/92	03/26/92	173	6.0	04/02/92	04/13/92	
SGR1242200A00L	WWC4*22	03/26/92	03/26/92	126	6.5	04/02/92	04/13/92	PW
SGR1242200B00L	WWC4*23	03/26/92	03/26/92	465	5.9	04/02/92	04/13/92	PW
SGR0906100A00L	WWC4*24	03/26/92	03/26/92	283	6.0	04/02/92	04/13/92	PW
SGR0906100B00L	WWC4*25	03/26/92	03/26/92	2350	6.1	04/02/92	04/13/92	PW
SGR0906100C00L	WWC4*26	03/26/92	03/26/92	394	5.7	04/02/92	04/13/92	PW
SGR0906200A00L	WWC4*27	03/26/92	03/26/92	382	6.1	04/02/92	04/13/92	P
SGR0906200B00L	WWC4*28	03/26/92	03/26/92	277	6.2	04/02/92	04/13/92	[illegible]
SGR0906200C00L	WWC4*29	03/26/92	03/26/92	537	6.3	04/02/92	04/13/92	PW
SGR0901100A00L	WWC4*30	03/26/92	03/26/92	1140	6.1	04/02/92	04/13/92	PW
SGR0901100B00L	WWC4*31	03/26/92	03/26/92	643	6.3	04/02/92	04/13/92	PW
SGR0901100C00L	WWC4*32	03/26/92	03/26/92	278	5.8	04/02/92	04/13/92	PW
SGR0901200A00L	WWC4*33	03/26/92	03/26/92	238	6.0	04/02/92	04/13/92	PW
SGR0901200B00L	WWC4*34	03/26/92	03/26/92	225	6.0	04/02/92	04/13/92	PW
SGR0901200C00L	WWC4*35	03/26/92	03/26/92	282	6.0	04/02/92	04/13/92	PW
SGR0900100A00L	WWC4*36	03/26/92	03/26/92	323	6.2	04/02/92	06/19/92	PW
SGR0900100B00L	WWC4*37	03/26/92	03/26/92	237	5.9	04/02/92	06/19/92	PW
SGR0900100C00L	WWC4*38	03/26/92	03/26/92	236	6.1	04/02/92	06/19/92	PW
SGR0900100A0LD	WWC4*39	03/26/92	03/26/92	297	6.0	04/02/92	06/19/92	PW
SGR0900100B0LD	WWC4*40	03/26/92	03/26/92	210	6.1	04/02/92	04/13/92	PW
SGR0900100C0LD	WWC4*41	03/26/92	03/26/92	277	5.8	04/03/92	04/13/92	PW
SGR0900200A00L	WWC4*42	03/26/92	03/26/92	254	5.9	04/03/92	04/13/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE
SGR0900200B00L	WWC4*43	03/26/92	03/26/92	259	5.8	04/03/92	04/13/92
SGR0900200C00L	WWC4*44	03/26/92	03/26/92	104	5.8	04/03/92	04/13/92
SGR0919100A00L	WWC4*45	03/26/92	03/26/92	455	6.4	04/03/92	04/13/92
SGR0919100B00L	WWC4*46	03/26/92	03/26/92	318	6.0	04/03/92	04/13/92
SGR0919100C00L	WWC4*47	03/26/92	03/26/92	336	5.8	04/03/92	04/13/92
SGR0919200A00L	WWC4*48	03/26/92	03/26/92	358	6.0	04/03/92	04/13/92
SGR0919200B00L	WWC4*49	03/26/92	03/26/92	363	5.9	04/03/92	04/13/92
SGR0919200C00L	WWC4*50	03/26/92	03/26/92	227	5.9	04/03/92	04/13/92
SGR1242200C00L	WWC4*51	03/26/92	03/26/92	428	6.1	04/03/92	04/13/92
SGR1125100A00L	WWC4*52	03/26/92	03/26/92	1360	5.7	04/03/92	04/13/92
SGR1125100B00L	WWC4*53	03/26/92	03/26/92	735	6.0	04/03/92	04/13/92
SGR1125100C00L	WWC4*54	03/26/92	03/26/92	549	6.1	04/03/92	04/13/92
SGR1125200A00L	WWC4*55	03/26/92	03/26/92	1280	6.9	04/03/92	04/13/92
SGR1125200B00L	WWC4*56	03/26/92	03/26/92	117	6.2	04/03/92	04/13/92
SGR1125200C00L	WWC4*57	03/26/92	03/26/92	827	6.3	04/03/92	04/13/92
SGR1229100A00L	WWC4*58	03/26/92	03/26/92	569	6.3	04/03/92	04/13/92
SGR1229100B00L	WWC4*59	03/26/92	03/26/92	593	6.2	04/03/92	04/13/92
SGR1229100C00L	WWC4*60	03/26/92	03/26/92	246	5.9	04/03/92	04/13/92
SGR1229200A00L	WWC4*61	03/26/92	03/26/92	739	6.0	04/03/92	04/13/92
SGR1229200B00L	WWC4*62	03/26/92	03/26/92	603	6.1	04/03/92	04/13/92
SGR1229200C00L	WWC4*63	03/26/92	03/26/92	515	6.0	04/03/92	04/13/92
SGR1231100A00L	WWC4*64	03/26/92	03/26/92	803	6.6	04/03/92	04/13/92
SGR1231100B00L	WWC4*65	03/26/92	03/26/92	495	6.0	04/03/92	04/13/92
SGR1231100C00L	WWC4*66	03/26/92	03/26/92	599	6.0	04/03/92	04/13/92
SGR1231200A00L	WWC4*67	03/26/92	03/26/92	454	6.1	04/03/92	04/13/92
SGR1231200B00L	WWC4*68	03/26/92	03/26/92	465	6.1	04/03/92	04/13/92
SGR1231200C00L	WWC4*69	03/26/92	03/26/92	180	5.9	04/03/92	04/13/92
SGR1238100A00L	WWC4*70	03/26/92	03/26/92	918	6.1	04/03/92	04/13/92
SGR1238100B00L	WWC4*71	03/26/92	03/26/92	799	5.8	04/03/92	04/13/92
SGR1238100C00L	WWC4*72	03/26/92	03/26/92	396	5.7	04/03/92	04/13/92
SGR1308100A00L	WWC4*73	03/27/92	03/27/92	725	6.7	04/03/92	04/13/92
SGR1308100B00L	WWC4*74	03/27/92	03/27/92	516	6.3	04/03/92	04/13/92
SGR1308100C00L	WWC4*75	03/27/92	03/27/92	340	5.8	04/03/92	04/13/92
SGR1308100A0LD	WWC4*76	03/27/92	03/27/92	738	6.2	04/03/92	04/13/92
SGR1308100B0LD	WWC4*77	03/27/92	03/27/92	443	6.0	04/03/92	04/13/92
SGR1308100C0LD	WWC4*78	03/27/92	03/27/92	329	6.2	04/03/92	04/13/92
SGR1308200A00L	WWC4*79	03/27/92	03/27/92	173	5.9	04/03/92	04/13/92
SGR1308200B00L	WWC4*80 J	03/27/92	03/27/92	608 J	6.1	04/03/92	04/13/92
SGR1308200C00L	WWC4*81	03/27/92	03/27/92	910	5.9	04/06/92	04/13/92
SGR1310100A00L	WWC4*82	03/27/92	03/27/92	626	6.0	04/06/92	04/13/92
SGR1310100B00L	WWC4*83	03/27/92	03/27/92	507	5.9	04/06/92	04/13/92
SGR1310100C00L	WWC4*84	03/27/92	03/27/92	291	5.8	04/06/92	04/13/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SGR1310200A00L	WWC4*85	03/27/92	03/27/92	801		5.9	04/06/92	04/13/92	PW
SGR1310200B00L	WWC4*86	03/27/92	03/27/92	883		6.7	04/06/92	04/13/92	PW
SGR1310200C00L	WWC4*87	03/27/92	03/27/92	446		6.8	04/06/92	04/13/92	PW
SGR1101100A00L	WWC4*88	03/27/92	03/27/92	1540		6.2	04/06/92	04/13/92	PW
SGR1101100B00L	WWC4*89	03/27/92	03/27/92	653		5.9	04/06/92	04/13/92	(
SGR1101100C00L	WWC4*90	03/27/92	03/27/92	416		5.8	04/06/92	04/13/92	(
SGR1101200A00L	WWC4*91	03/27/92	03/27/92	473		6.1	04/06/92	04/13/92	PW
SGR1101200B00L	WWC4*92	03/27/92	03/27/92	291		6.1	04/06/92	04/13/92	PW
SGR1101200C00L	WWC4*93	03/27/92	03/27/92	1060		6.2	04/06/92	04/13/92	PW
SGR0801100A00L	WWC4*94	03/27/92	03/27/92	187		6.2	04/06/92	04/13/92	PW
SGR0801100B00L	WWC4*95	03/27/92	03/27/92	170		5.6	04/06/92	04/13/92	PW
SGR0801100C00L	WWC4*96	03/27/92	03/27/92	192		6.1	04/06/92	04/13/92	PW
SGR0801200A00L	WWC4*97	03/27/92	03/27/92	646		5.9	04/06/92	04/13/92	PW
SGR0801200B00L	WWC4*98	03/27/92	03/27/92	631		5.6	04/06/92	04/13/92	PW
SGR0801200C00L	WWC4*99	03/27/92	03/27/92	412		5.8	04/06/92	04/13/92	PW
SGR0805100A00L	WWC4*100 J	03/27/92	03/27/92	850	J	6.1	04/06/92	04/13/92	PW
SGR0805100B00L	WWC4*101	03/27/92	03/27/92	947		5.8	04/06/92	04/14/92	PW
SGR0805100C00L	WWC4*102	03/27/92	03/27/92	812		6.0	04/06/92	04/14/92	PW
SGR0805200A00L	WWC4*103	03/27/92	03/27/92	816		6.2	04/06/92	04/14/92	PW
SGR0805200B00L	WWC4*104	03/27/92	03/27/92	2050		6.0	04/06/92	04/14/9[illegible]	[illegible]
SGR0805200C00L	WWC4*105	03/27/92	03/27/92	986		6.2	04/06/92	04/14/9[illegible]	[illegible]
SGR0825100A00L	WWC4*106	03/27/92	03/27/92	4990	D	62.8	04/06/92	05/11/92	PW
SGR0825100B00L	WWC4*107	03/27/92	03/27/92	393		6.0	04/06/92	04/14/92	PW
SGR0825100C00L	WWC4*108	03/27/92	03/27/92	865		5.7	04/06/92	04/14/92	PW
SGR0825200A00L	WWC4*109	03/27/92	03/27/92	339		6.0	04/06/92	04/14/92	PW
SGR0825200B00L	WWC4*110	03/27/92	03/27/92	346		5.7	04/06/92	04/14/92	PW
SGR0825200C00L	WWC4*111	03/27/92	03/27/92	256		5.7	04/06/92	04/14/92	P
SIO0823100A00L	WWC4*112	03/27/92	03/27/92	391		6.0	04/06/92	04/14/92	[illegible]
SIO0823100B00L	WWC4*113	03/27/92	03/27/92	493		5.8	04/06/92	04/14/92	Pw
SIO0823100C00L	WWC4*114	03/27/92	03/27/92	332		5.6	04/06/92	04/14/92	PW
SIO0817100A00L	WWC4*115	03/27/92	03/27/92	613		5.6	04/06/92	04/14/92	PW
SIO0817100B00L	WWC4*116	03/27/92	03/27/92	353		5.8	04/06/92	04/14/92	PW
SIO0817100C00L	WWC4*117	03/27/92	03/27/92	238		5.7	04/06/92	04/14/92	PW
SIO0817200A00L	WWC4*118	03/27/92	03/27/92	433		5.6	04/06/92	04/14/92	PW
SIO0817200B00L	WWC4*119	03/27/92	03/27/92	184		5.5	04/06/92	04/14/92	PW
SIO0817200C00L	WWC4*120	03/27/92	03/27/92	352		5.8	04/06/92	04/14/92	PW
SIO0810100A00L	WWC4*121	03/27/92	03/27/92	134		6.4	04/06/92	04/14/92	PW
SIO0810100B00L	WWC4*122	03/27/92	03/27/92	172		5.5	04/06/92	04/14/92	PW
SIO0810100C00L	WWC4*123	03/27/92	03/27/92	93.4		5.8	04/06/92	04/14/92	PW
SIO0810200A00L	WWC4*124	03/27/92	03/27/92	311		5.7	04/06/92	04/14/92	PW
SIO0810200B00L	WWC4*125	03/27/92	03/27/92	361		5.6	04/06/92	04/14/92	PW
SIO0810200C00L	WWC4*126	03/27/92	03/27/92	143		5.4	04/06/92	04/14/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resu

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100 REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
SIO0803100A00L	WWC4*127	03/27/92	03/27/92	495	6.0	04/06/92	04/14/92	
SIO0803100B00L	WWC4*128	03/27/92	03/27/92	436	5.7	04/06/92	04/14/92	
SIO0803100C00L	WWC4*129	03/27/92	03/27/92	319	5.9	04/06/92	04/14/92	
SIO0805100A00L	WWC4*130	03/27/92	03/27/92	290	6.0	04/06/92	04/14/92	
SIO0805100B00L	WWC4*131	03/27/92	03/27/92	364	6.2	04/06/92	04/14/92	
SIO0805100C00L	WWC4*132	03/27/92	03/27/92	310	5.9	04/06/92	04/14/92	
SIO0804100A00L	WWC4*133	03/27/92	03/27/92	393	5.9	04/06/92	04/14/92	
SIO0804100B00L	WWC4*134	03/27/92	03/27/92	279	5.6	04/06/92	04/14/92	
SIO0804100C00L	WWC4*135	03/27/92	03/27/92	196	5.5	04/06/92	04/14/92	
SIO0804200A00L	WWC4*136	03/27/92	03/27/92	523	5.6	04/06/92	04/14/92	
SIO0804200B00L	WWC4*137	03/27/92	03/27/92	397	5.5	04/06/92	04/14/92	
SIO0804200C00L	WWC4*138	03/27/92	03/27/92	45.4	5.2	04/06/92	04/14/92	
SED2121100A00L	WWC4*139	03/30/92	03/30/92	708	5.9	04/06/92	04/14/92	
SED2121100B00L	WWC4*140	03/30/92	03/30/92	669	5.8	04/06/92	04/14/92	
SED2121100C00L	WWC4*141	03/30/92	03/30/92	239	5.8	04/07/92	04/14/92	
SED2121200A00L	WWC4*142	03/30/92	03/30/92	477	6.0	04/07/92	04/14/92	
SED2121200B00L	WWC4*143	03/30/92	03/30/92	491	5.8	04/07/92	04/14/92	
SED2121200C00L	WWC4*144	03/30/92	03/30/92	396	6.0	04/07/92	04/14/92	
SED2122100A00L	WWC4*145	03/30/92	03/30/92	1080	6.5	04/07/92	04/14/92	
SED2122100B00L	WWC4*146	03/30/92	03/30/92	199	6.1	04/07/92	04/14/92	I
SED2122100C00L	WWC4*147	03/30/92	03/30/92	177	5.9	04/07/92	04/14/92	I
SED2123100A00L	WWC4*148	03/30/92	03/30/92	335	6.0	04/07/92	04/14/92	I
SED2123100B00L	WWC4*149	03/30/92	03/30/92	305	5.9	04/07/92	04/14/92	I
SED2123100C00L	WWC4*150	03/30/92	03/30/92	140	5.6	04/07/92	04/14/92	I
SED2123200A00L	WWC4*151	03/30/92	03/30/92	609	6.4	04/07/92	04/14/92	I
SED2123200B00L	WWC4*152	03/30/92	03/30/92	441	5.7	04/07/92	04/14/92	I
SED2123200C00L	WWC4*153	03/30/92	03/30/92	80.1	5.9	04/07/92	04/14/92	I
SED2125100A00L	WWC4*154	03/30/92	03/30/92	339	6.7	04/07/92	04/14/92	I
SED2125100B00L	WWC4*155	03/30/92	03/30/92	396	5.9	04/07/92	04/14/92	I
SED2125100C00L	WWC4*156	03/30/92	03/30/92	374	5.8	04/07/92	04/14/92	I
SED2125200A00L	WWC4*157	03/30/92	03/30/92	622	6.1	04/07/92	04/14/92	F
SED2125200B00L	WWC4*158	03/30/92	03/30/92	246	5.7	04/07/92	04/14/92	F
SED2125200C00L	WWC4*159	03/30/92	03/30/92	96.3	5.7	04/07/92	04/14/92	P
SED2128100A00L	WWC4*160	03/30/92	03/30/92	756	6.2	04/07/92	04/14/92	P
SED2128100B00L	WWC4*161	03/30/92	03/30/92	543	5.9	04/07/92	04/14/92	P
SED2128100C00L	WWC4*162	03/30/92	03/30/92	392	5.8	04/07/92	04/14/92	P
SED2128200A00L	WWC4*163	03/30/92	03/30/92	369	5.9	04/07/92	04/14/92	P
SED2128200B00L	WWC4*164	03/30/92	03/30/92	320	5.8	04/07/92	04/14/92	P
SED2128200C00L	WWC4*165	03/30/92	03/30/92	216	6.1	04/07/92	04/14/92	F
SED2141100A00L	WWC4*166	03/30/92	03/30/92	346	6.0	04/07/92	04/14/92	F
SED2141100B00L	WWC4*167	03/30/92	03/30/92	275	5.9	04/07/92	04/14/92	F
SED2141100C00L	WWC4*168	03/30/92	03/30/92	147	5.9	04/07/92	04/14/92	F

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SED2141200A00L	WWC4*169	03/30/92	03/30/92	707	5.7	04/07/92	04/14/92	PW
SED2141200B00L	WWC4*170	03/30/92	03/30/92	268	5.4	04/07/92	04/14/92	PW
SED2141200C00L	WWC4*171	03/30/92	03/30/92	46.7	5.6	04/07/92	04/14/92	PW
SED2149100A00L	WWC4*172	03/30/92	03/30/92	7650 D	60.6	04/06/92	05/11/92	PW
SED2149100B00L	WWC4*173	03/30/92	03/30/92	1150	5.7	04/07/92	04/14/92	
SED2149100C00L	WWC4*174	03/30/92	03/30/92	534	5.9	04/07/92	04/14/92	
SED2149200A00L	WWC4*175	03/30/92	03/30/92	576	6.2	04/07/92	04/14/92	PW
SED2149200B00L	WWC4*176	03/30/92	03/30/92	723	6.2	04/07/92	04/14/92	PW
SED2149200C00L	WWC4*177	03/30/92	03/30/92	396	5.9	04/07/92	04/14/92	PW
SST2150100A00L	WWC4*178	03/30/92	03/30/92	326	6.0	04/07/92	04/14/92	PW
SST2150100B00L	WWC4*179	03/30/92	03/30/92	327	6.1	04/07/92	04/14/92	PW
SST2150100C00L	WWC4*180	03/30/92	03/30/92	148	6.1	04/07/92	04/14/92	PW
SST2150200A00L	WWC4*181	03/30/92	03/30/92	658	6.0	04/08/92	04/14/92	PW
SST2150200B00L	WWC4*182	03/30/92	03/30/92	512	6.3	04/08/92	04/14/92	PW
SST2150200C00L	WWC4*183	03/30/92	03/30/92	103	6.5	04/08/92	04/14/92	PW
SST2162100A00L	WWC4*184	03/30/92	03/30/92	448	6.4	04/08/92	04/14/92	PW
SST2162100B00L	WWC4*185	03/30/92	03/30/92	324	6.4	04/08/92	04/14/92	PW
SST2162100C00L	WWC4*186	03/30/92	03/30/92	213	6.4	04/08/92	04/14/92	PW
SST2162200A00L	WWC4*187	03/30/92	03/30/92	5630 D	63.4	04/06/92	05/11/92	PW
SST2162200B00L	WWC4*188	03/30/92	03/30/92	709	6.6	04/08/92	04/14/92	
SST2162200C00L	WWC4*189	03/30/92	03/30/92	227	6.4	04/08/92	04/14/92	
SST2159100A00L	WWC4*190	03/30/92	03/30/92	499	6.4	04/08/92	04/14/92	PW
SST2159100B00L	WWC4*191	03/30/92	03/30/92	441	6.0	04/08/92	04/14/92	PW
SST2159100C00L	WWC4*192	03/30/92	03/30/92	241	5.9	04/08/92	04/14/92	PW
SST2159200A00L	WWC4*193	03/30/92	03/30/92	223	6.2	04/08/92	04/14/92	PW
SST2159200B00L	WWC4*194	03/30/92	03/30/92	223	5.8	04/08/92	04/14/92	PW
SST2159200C00L	WWC4*195	03/30/92	03/30/92	124	5.7	04/08/92	04/14/92	
SGR2139200A00L	WWC4*196	03/30/92	03/30/92	1310	6.2	04/08/92	04/14/92	
SGR2139200B00L	WWC4*197	03/30/92	03/30/92	1150	5.9	04/08/92	04/14/92	Pw
SGR2139200C00L	WWC4*198	03/30/92	03/30/92	613	5.8	04/08/92	04/14/92	PW
SST2148200A00L	WWC4*199	03/30/92	03/30/92	733	6.1	04/08/92	04/14/92	PW
SST2148200B00L	WWC4*200 J	03/30/92	03/30/92	491 J	6.3	04/08/92	04/14/92	PW
SST2148200C00L	WWC4*201	03/30/92	03/30/92	267	6.2	04/09/92	04/14/92	PW
SST2147100A00L	WWC4*202	03/30/92	03/30/92	504	6.3	04/09/92	04/14/92	PW
SST2147100B00L	WWC4*203	03/30/92	03/30/92	588	6.0	04/09/92	04/14/92	PW
SST2147100C00L	WWC4*204	03/30/92	03/30/92	391	5.7	04/09/92	04/14/92	PW
SST2147200A00L	WWC4*205	03/30/92	03/30/92	1350	6.3	04/09/92	04/14/92	PW
SST2147200B00L	WWC4*206	03/30/92	03/30/92	701	5.5	04/09/92	04/14/92	PW
SST2147200C00L	WWC4*207	03/30/92	03/30/92	180	5.9	04/09/92	04/14/92	PW
SMC1115100A00L	WWC4*208	03/31/92	03/31/92	182	6.1	04/09/92	04/14/92	PW
SMC1115100B00L	WWC4*209	03/31/92	03/31/92	123	6.0	04/09/92	04/14/92	PW
SMC1115100C00L	WWC4*210	03/31/92	03/31/92	125	5.6	04/09/92	04/14/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE
SMC1115200A00L	WWC4*211	03/31/92	03/31/92	252		6.2	04/09/92	04/14/92
SMC1115200B00L	WWC4*212	03/31/92	03/31/92	201		5.7	04/09/92	04/14/92
SMC1115200C00L	WWC4*213	03/31/92	03/31/92	335		6.4	04/09/92	04/14/92
SMC1111100A00L	WWC4*214	03/31/92	03/31/92	292		5.8	04/09/92	04/14/92
SMC1111100B00L	WWC4*215	03/31/92	03/31/92	207		5.7	04/09/92	04/14/92
SMC1111100C00L	WWC4*216	03/31/92	03/31/92	287		5.8	04/09/92	04/14/92
SMC1111200A00L	WWC4*217	03/31/92	03/31/92	316		6.5	04/09/92	04/14/92
SMC1111200B00L	WWC4*218	03/31/92	03/31/92	322		6.1	04/09/92	04/14/92
SMC1111200C00L	WWC4*219	03/31/92	03/31/92	237		5.9	04/09/92	04/14/92
SMC1105100A00L	WWC4*220	03/31/92	03/31/92	393		6.4	04/09/92	04/14/92
SMC1105100B00L	WWC4*221	03/31/92	03/31/92	257		6.3	04/09/92	04/14/92
SMC1105100C00L	WWC4*222	03/31/92	03/31/92	163		6.0	04/09/92	04/14/92
SMC1105200A00L	WWC4*223	03/31/92	03/31/92	780		7.4	04/09/92	04/14/92
SMC1105200B00L	WWC4*224	03/31/92	03/31/92	449		6.2	04/09/92	04/14/92
SMC1105200C00L	WWC4*225	03/31/92	03/31/92	221		6.1	04/09/92	04/14/92
SMC1103100A00L	WWC4*226	03/31/92	03/31/92	165		6.3	04/09/92	04/14/92
SMC1103100B00L	WWC4*227	03/31/92	03/31/92	165		5.8	04/09/92	04/14/92
SMC1103100C00L	WWC4*228	03/31/92	03/31/92	141		5.8	04/09/92	04/14/92
SMC1103200A00L	WWC4*229	03/31/92	03/31/92	247		6.0	04/09/92	04/14/92
SMC1103200B00L	WWC4*230	03/31/92	03/31/92	490		5.8	04/09/92	04/14/92
SMC1103200C00L	WWC4*231	03/31/92	03/31/92	335		5.7	04/09/92	04/14/92
SGW0916100A00L	WWC4*232	03/31/92	03/31/92	143		6.3	04/09/92	04/14/92
SGW0916100B00L	WWC4*233	03/31/92	03/31/92	51.0		5.9	04/09/92	04/14/92
SGW0916100C00L	WWC4*234	03/31/92	03/31/92	35.4		5.9	04/09/92	04/14/92
SGW0916200A00L	WWC4*235	03/31/92	03/31/92	216		5.8	04/09/92	04/14/92
SGW0916200B00L	WWC4*236	03/31/92	03/31/92	116		5.7	04/09/92	04/14/92
SGW0916200C00L	WWC4*237	03/31/92	03/31/92	116		6.3	04/09/92	04/14/92
SGW1028100A00L	WWC4*238	03/31/92	03/31/92	426		5.7	04/09/92	04/14/92
SGW1028100B00L	WWC4*239	03/31/92	03/31/92	318		5.7	04/09/92	04/14/92
SGW1028100C00L	WWC4*240	03/31/92	03/31/92	139		5.5	04/09/92	04/14/92
SGW1028200A00L	WWC4*241	03/31/92	03/31/92	498		6.3	04/10/92	04/14/92
SGW1028200B00L	WWC4*242	03/31/92	03/31/92	1030		6.2	04/10/92	04/14/92
SGW1028200C00L	WWC4*243	03/31/92	03/31/92	397		6.0	04/10/92	04/14/92
SGW1012100A00L	WWC4*244	03/31/92	03/31/92	422		6.2	04/10/92	04/14/92
SGW1012100B00L	WWC4*245	03/31/92	03/31/92	305		5.9	04/10/92	04/14/92
SGW1012100C00L	WWC4*246	03/31/92	03/31/92	183		6.3	04/10/92	04/14/92
SGW1015100A00L	WWC4*247	03/31/92	03/31/92	4320	D	69.2	04/06/92	05/11/92
SGW1015100B00L	WWC4*248	03/31/92	03/31/92	12800	D	58.3	04/06/92	05/11/92
SGW1015100C00L	WWC4*249	03/31/92	03/31/92	14500	D	58.1	04/06/92	05/11/92
SGW1015200A00L	WWC4*250	03/31/92	03/31/92	1120		6.6	04/10/92	04/14/92
SGW1015200B00L	WWC4*251	03/31/92	03/31/92	774		6.0	04/10/92	04/14/92
SGW1015200C00L	WWC4*252	03/31/92	03/31/92	409		5.9	04/10/92	04/14/92

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SGW1020100A00L	WWC4*253	03/31/92	03/31/92	413	5.9	04/10/92	04/14/92	PW
SGW1020100B00L	WWC4*254	03/31/92	03/31/92	343	6.1	04/10/92	04/14/92	PW
SGW1020100C00L	WWC4*255	03/31/92	03/31/92	260	6.2	04/10/92	04/14/92	PW
SGW1020200A00L	WWC4*256	03/31/92	03/31/92	468	6.4	04/10/92	04/14/92	PW
SGW1020200B00L	WWC4*257	03/31/92	03/31/92	406	6.1	04/10/92	04/14/92	[illegible]
SGW1020200C00L	WWC4*258	03/31/92	03/31/92	323	6.1	04/10/92	04/14/92	[illegible]
SGW1012200A00L	WWC4*259	03/31/92	03/31/92	450	6.2	04/10/92	04/14/92	PW
SGW1012200B00L	WWC4*260	03/31/92	03/31/92	709	6.0	04/10/92	04/14/92	PW
SGW1012200C00L	WWC4*261	03/31/92	03/31/92	827	6.0	04/13/92	04/14/92	PW
SGW1034100A00L	WWC4*262	03/31/92	03/31/92	375	6.2	04/13/92	04/14/92	PW
SGW1034100B00L	WWC4*263	03/31/92	03/31/92	135	5.8	04/13/92	04/14/92	PW
SGW1034100C00L	WWC4*264	03/31/92	03/31/92	67.8	5.8	04/13/92	04/14/92	PW
SGW1026100A00L	WWC4*265	03/31/92	03/31/92	1240	6.8	04/13/92	04/14/92	PW
SGW1026100B00L	WWC4*266	03/31/92	03/31/92	336	6.3	04/13/92	04/14/92	PW
SGW1026100C00L	WWC4*267	03/31/92	03/31/92	282	6.0	04/13/92	04/14/92	PW
SGW1026200A00L	WWC4*268	03/31/92	03/31/92	343	6.7	04/13/92	04/14/92	PW
SGW1026200B00L	WWC4*269	03/31/92	03/31/92	260	6.0	04/13/92	04/14/92	PW
SGW1026200C00L	WWC4*270	03/31/92	03/31/92	161	6.1	04/13/92	04/14/92	PW
SIO0823200A00L	WWC4*271	03/31/92	03/31/92	396	5.9	04/13/92	04/14/92	PW
SIO0823200B00L	WWC4*272	03/31/92	03/31/92	390	5.9	04/13/92	04/14/92	[illegible]
SIO0823200C00L	WWC4*273	03/31/92	03/31/92	325	6.0	04/13/92	04/14/92	[illegible]
SED2223100A00L	WWC4*274	04/01/92	04/01/92	536	5.9	04/13/92	04/14/92	PW
SED2223100B00L	WWC4*275	04/01/92	04/01/92	170	5.6	04/13/92	04/14/92	PW
SED2223100C00L	WWC4*276	04/01/92	04/01/92	58.7	5.8	04/13/92	04/14/92	PW
SED2223200A00L	WWC4*277	04/01/92	04/01/92	560	5.8	04/13/92	04/14/92	PW
SED2223200B00L	WWC4*278	04/01/92	04/01/92	586	5.5	04/13/92	04/14/92	PW
SED2223200C00L	WWC4*279	04/01/92	04/01/92	304	5.7	04/13/92	04/14/92	PW
SED2223100A0LD	WWC4*280	04/01/92	04/01/92	401	5.7	04/13/92	04/14/92	PW
SED2223100B0LD	WWC4*281	04/01/92	04/01/92	92.7	5.5	04/13/92	04/15/92	PW
SED2223100C0LD	WWC4*282	04/01/92	04/01/92	55.8	5.4	04/13/92	04/15/92	PW
SED2207100A00L	WWC4*283	04/01/92	04/01/92	715	6.0	04/13/92	04/15/92	PW
SED2207100B00L	WWC4*284	04/01/92	04/01/92	505	6.0	04/13/92	04/15/92	PW
SED2207100C00L	WWC4*285	04/01/92	04/01/92	158	5.9	04/13/92	04/15/92	PW
SED2207200A00L	WWC4*286	04/01/92	04/01/92	977	6.0	04/13/92	04/15/92	PW
SED2207200B00L	WWC4*287	04/01/92	04/01/92	934	5.9	04/13/92	04/15/92	PW
SED2207200C00L	WWC4*288	04/01/92	04/01/92	347	6.0	04/13/92	04/15/92	PW
SED2212100A00L	WWC4*289	04/01/92	04/01/92	545	6.0	04/13/92	04/15/92	PW
SED2212100B00L	WWC4*290	04/01/92	04/01/92	151	5.8	04/13/92	04/15/92	PW
SED2212100C00L	WWC4*291	04/01/92	04/01/92	60.9	5.3	04/13/92	04/15/92	PW
SED2212200A00L	WWC4*292	04/01/92	04/01/92	672	5.9	04/13/92	04/15/92	PW
SED2212200B00L	WWC4*293	04/01/92	04/01/92	650	5.9	04/13/92	04/15/92	PW
SED2212200C00L	WWC4*294	04/01/92	04/01/92	393	5.5	04/13/92	04/15/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
ED2212100A0LD	WWC4*295	04/01/92	04/01/92	561	6.2	04/13/92	04/15/92	
ED2212100B0LD	WWC4*296	04/01/92	04/01/92	136	5.8	04/13/92	04/15/92	
ED2235200A00L	WWC4*297	04/01/92	04/01/92	609	6.3	04/13/92	04/15/92	
SED2235200B00L	WWC4*298	04/01/92	04/01/92	563	6.0	04/13/92	04/15/92	
ED2235200C00L	WWC4*299	04/01/92	04/01/92	423	5.9	04/13/92	04/15/92	
ED2232100A00L	WWC4*300	04/01/92	04/01/92	220	5.7	04/13/92	04/15/92	
ED2232100B00L	WWC4*301	04/01/92	04/01/92	190	5.6	04/13/92	04/15/92	
SED2232100C00L	WWC4*302	04/01/92	04/01/92	175	6.0	04/13/92	04/15/92	
SED2232200A00L	WWC4*303	04/01/92	04/01/92	373	5.6	04/13/92	04/15/92	
ED2232200B00L	WWC4*304	04/01/92	04/01/92	174	5.5	04/13/92	04/15/92	
ED2232200C00L	WWC4*305	04/01/92	04/01/92	318	5.9	04/13/92	04/15/92	
ED2237100A00L	WWC4*306	04/01/92	04/01/92	914	6.2	04/13/92	04/15/92	
SED2237100B00L	WWC4*307	04/01/92	04/01/92	819	5.7	04/13/92	04/15/92	
SED2237100C00L	WWC4*308	04/01/92	04/01/92	284	5.6	04/13/92	04/15/92	
ED2237100A0LD	WWC4*309	04/01/92	04/01/92	1870	5.9	04/13/92	04/15/92	
ED2237100B0LD	WWC4*310	04/01/92	04/01/92	817	5.9	04/13/92	04/15/92	
SED2237100C0LD	WWC4*311	04/01/92	04/01/92	272	5.7	04/13/92	04/15/92	
SED2237200A00L	WWC4*312	04/01/92	04/01/92	272	5.9	04/13/92	04/15/92	
ED2237200B00L	WWC4*313	04/01/92	04/01/92	275	5.7	04/13/92	04/15/92	
ED2237200C00L	WWC4*314	04/01/92	04/01/92	266	6.1	04/13/92	04/15/92	
ED2245100A00L	WWC4*315	04/01/92	04/01/92	385	6.0	04/13/92	04/15/92	
SED2245100B00L	WWC4*316	04/01/92	04/01/92	305	6.3	04/13/92	04/15/92	
SED2245100C00L	WWC4*317	04/01/92	04/01/92	168	6.2	04/13/92	04/15/92	
ED2245200A00L	WWC4*318	04/01/92	04/01/92	443	6.2	04/13/92	04/15/92	
ED2245200B00L	WWC4*319	04/01/92	04/01/92	456	6.1	04/13/92	04/15/92	
SED2225200B00L	WWC4*320	04/01/92	04/01/92	314	5.9	04/13/92	04/15/92	
ED2225200C00L	WWC4*321	04/01/92	04/01/92	139	5.9	04/14/92	04/15/92	
ED2215100A00L	WWC4*322	04/01/92	04/01/92	662	6.2	04/14/92	04/15/92	
ED2215100B00L	WWC4*323	04/01/92	04/01/92	349	5.8	04/14/92	04/15/92	
ED2215100C00L	WWC4*324	04/01/92	04/01/92	131	5.8	04/14/92	04/15/92	
SED2215200A00L	WWC4*325	04/01/92	04/01/92	550	6.2	04/14/92	04/15/92	
SED2215200B00L	WWC4*326	04/01/92	04/01/92	625	5.8	04/14/92	04/15/92	
ED2215200C00L	WWC4*327	04/01/92	04/01/92	360	5.5	04/14/92	04/15/92	
ED2222100A00L	WWC4*328	04/01/92	04/01/92	608	6.0	04/14/92	04/15/92	
SED2222100B00L	WWC4*329	04/01/92	04/01/92	267	5.7	04/14/92	04/15/92	
SED2222100C00L	WWC4*330	04/01/92	04/01/92	150	5.6	04/14/92	04/15/92	
ED2222200A00L	WWC4*331	04/01/92	04/01/92	934	5.7	04/14/92	04/15/92	
ED2222200B00L	WWC4*332	04/01/92	04/01/92	264	5.6	04/14/92	04/15/92	
ED2222200C00L	WWC4*333	04/01/92	04/01/92	87.1	5.3	04/14/92	04/15/92	
SED2230100A00L	WWC4*334	04/01/92	04/01/92	659	5.8	04/14/92	04/15/92	
ED2230100B00L	WWC4*335	04/01/92	04/01/92	508	5.6	04/14/92	04/15/92	
ED2230100C00L	WWC4*336	04/01/92	04/01/92	129	5.7	04/14/92	04/15/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SED2230200A00L	WWC4*337	04/01/92	04/01/92	219	5.8	04/14/92	04/15/92	PW
SED2230200B00L	WWC4*338	04/01/92	04/01/92	189	5.7	04/14/92	04/15/92	PW
SED2230200C00L	WWC4*339	04/01/92	04/01/92	429	5.5	04/14/92	04/15/92	PW
SED2235100A00L	WWC4*340 J	04/01/92	04/01/92	635 J	6.2	04/14/92	04/15/92	PW
SED2235100B00L	WWC4*341	04/01/92	04/01/92	441	6.0	04/14/92	04/15/92	[illegible]
SED2235100C00L	WWC4*342	04/01/92	04/01/92	154	5.8	04/14/92	04/15/92	[illegible]
SED2212100C0LD	WWC4*343	04/01/92	04/01/92	89.3	5.7	04/14/92	04/15/92	PW
SED2218100A00L	WWC4*344	04/01/92	04/01/92	393	5.6	04/14/92	04/15/92	PW
SED2218100B00L	WWC4*345	04/01/92	04/01/92	223	5.7	04/14/92	04/15/92	PW
SED2218100C00L	WWC4*346	04/01/92	04/01/92	107	5.8	04/14/92	04/15/92	PW
SED2218200A00L	WWC4*347	04/01/92	04/01/92	415	5.8	04/14/92	04/15/92	PW
SED2218200B00L	WWC4*348	04/01/92	04/01/92	287	5.5	04/14/92	04/15/92	PW
SED2218200C00L	WWC4*349	04/01/92	04/01/92	272	5.2	04/14/92	04/15/92	PW
SED2219100A00L	WWC4*350	04/01/92	04/01/92	421	6.1	04/14/92	04/15/92	PW
SED2219100B00L	WWC4*351	04/01/92	04/01/92	323	5.9	04/14/92	04/15/92	PW
SED2219100C00L	WWC4*352	04/01/92	04/01/92	178	5.7	04/14/92	04/15/92	PW
SED2219200A00L	WWC4*353	04/01/92	04/01/92	514	5.6	04/14/92	04/15/92	PW
SED2219200B00L	WWC4*354	04/01/92	04/01/92	447	5.7	04/14/92	04/15/92	PW
SED2219200C00L	WWC4*355	04/01/92	04/01/92	160	5.6	04/14/92	04/15/92	[illegible]
SED2211100A00L	WWC4*356	04/01/92	04/01/92	14800 D	58.0	04/06/92	05/11/92	[illegible]
SED2211100B00L	WWC4*357	04/01/92	04/01/92	554	5.9	04/14/92	04/15/92	[illegible]
SED2211100C00L	WWC4*358	04/01/92	04/01/92	102	5.6	04/14/92	04/15/92	PW
SED2211200A00L	WWC4*359	04/01/92	04/01/92	315	6.2	04/14/92	04/15/92	PW
SED2211200B00L	WWC4*360	04/01/92	04/01/92	352	6.0	04/14/92	04/15/92	PW
SED2211200C00L	WWC4*361	04/01/92	04/01/92	256	5.7	04/14/92	04/15/92	PW
SED2225100A00L	WWC4*362	04/01/92	04/01/92	388	6.0	04/14/92	04/15/92	PW
SED2225100B00L	WWC4*363	04/01/92	04/01/92	194	5.7	04/14/92	04/15/92	[illegible]
SED2225100C00L	WWC4*364	04/01/92	04/01/92	72.5	5.8	04/14/92	04/15/92	[illegible]
SED2225200A00L	WWC4*365	04/01/92	04/01/92	421	6.3	04/14/92	04/15/92	PW
SED2245200C00L	WWC4*366	04/01/92	04/01/92	283	5.7	04/14/92	04/15/92	PW
SST2250100A00L	WWC4*367	04/02/92	04/02/92	160	5.4	04/14/92	04/15/92	PW
SST2250100A0LD	WWC4*368	04/02/92	04/02/92	137	5.5	04/14/92	04/15/92	PW
SST2250100B00L	WWC4*369	04/02/92	04/02/92	141	5.4	04/14/92	04/15/92	PW
SST2250100B0LD	WWC4*370	04/02/92	04/02/92	135	5.9	04/14/92	04/15/92	PW
SST2250100C00L	WWC4*371	04/02/92	04/02/92	57.6	5.9	04/14/92	04/15/92	PW
SST2250100C0LD	WWC4*372	04/02/92	04/02/92	61.2	5.5	04/14/92	04/15/92	PW
SST2250200A00L	WWC4*373	04/02/92	04/02/92	627	6.1	04/14/92	04/15/92	PW
SST2250200B00L	WWC4*374	04/02/92	04/02/92	861	6.2	04/14/92	04/15/92	PW
SST2250200C00L	WWC4*375	04/02/92	04/02/92	485	5.5	04/24/92	05/14/92	PW
SST2248100A00L	WWC4*376	04/02/92	04/02/92	387	6.0	04/24/92	05/14/92	PW
SST2248100B00L	WWC4*377	04/02/92	04/02/92	342	5.8	04/24/92	05/14/92	PW
SST2248100C00L	WWC4*378	04/02/92	04/02/92	255	5.8	04/24/92	05/14/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE
SST2248200A00L	WWC4*379	04/02/92	04/02/92	1010	6.6	04/24/92	05/14/92
SST2248200B00L	WWC4*380	04/02/92	04/02/92	1550	6.2	04/24/92	05/14/92
SST2248200C00L	WWC4*381	04/02/92	04/02/92	899	6.1	04/24/92	05/14/92
SST2244100A00L	WWC4*382	04/02/92	04/02/92	427	6.1	04/24/92	05/14/92
SST2244100B00L	WWC4*383	04/02/92	04/02/92	292	6.0	04/24/92	05/14/92
SST2244100C00L	WWC4*384	04/02/92	04/02/92	138	5.8	04/24/92	05/14/92
SST2244200A00L	WWC4*385	04/02/92	04/02/92	329	5.3	04/24/92	05/14/92
SST2244200B00L	WWC4*386	04/02/92	04/02/92	569	5.6	04/24/92	05/14/92
SST2244200C00L	WWC4*387	04/02/92	04/02/92	459	5.5	04/24/92	05/14/92
SST2222100A00L	WWC4*388	04/02/92	04/02/92	283	6.1	04/24/92	05/14/92
SST2222100B00L	WWC4*389	04/02/92	04/02/92	277	5.9	04/24/92	05/14/92
SST2222100C00L	WWC4*390	04/02/92	04/02/92	149	5.9	04/24/92	05/14/92
SST2222200A00L	WWC4*391	04/02/92	04/02/92	324	5.9	04/24/92	05/14/92
SST2222200B00L	WWC4*392	04/02/92	04/02/92	360	5.4	04/24/92	05/14/92
SST2222200C00L	WWC4*393	04/02/92	04/02/92	255	5.2	04/24/92	05/14/92
SST2223100A00L	WWC4*394	04/02/92	04/02/92	604	6.1	04/24/92	05/14/92
SST2223100B00L	WWC4*395	04/02/92	04/02/92	655	5.7	04/27/92	05/14/92
SST2223100C00L	WWC4*396	04/02/92	04/02/92	332	5.8	04/27/92	05/14/92
SST2223200A00L	WWC4*397	04/02/92	04/02/92	285	6.0	04/27/92	05/14/92
SST2223200B00L	WWC4*398	04/02/92	04/02/92	211	5.8	04/27/92	05/14/92
SST2223200C00L	WWC4*399	04/02/92	04/02/92	126	5.6	04/27/92	05/14/92
SST2226100A00L	WWC4*400	04/02/92	04/02/92	461	6.1	04/27/92	05/14/92
SST2226100B00L	WWC4*401	04/02/92	04/02/92	288	5.8	04/27/92	05/14/92
SST2226100C00L	WWC4*402	04/02/92	04/02/92	155	5.9	04/27/92	05/14/92
SST2226200A00L	WWC4*403	04/02/92	04/02/92	259	6.2	04/27/92	05/14/92
SST2226200B00L	WWC4*404	04/02/92	04/02/92	197	6.0	04/27/92	05/14/92
SST2226200C00L	WWC4*405	04/02/92	04/02/92	178	5.9	04/27/92	05/14/92
SST2235100A00L	WWC4*406	04/02/92	04/02/92	466	6.0	04/27/92	05/14/92
SST2235100B00L	WWC4*407	04/02/92	04/02/92	507	6.2	04/27/92	05/14/92
SST2235100C00L	WWC4*408	04/02/92	04/02/92	236	5.9	04/27/92	05/14/92
SST2235200A00L	WWC4*409	04/02/92	04/02/92	854	6.2	04/27/92	05/14/92
SST2235200B00L	WWC4*410	04/02/92	04/02/92	463	5.8	04/27/92	05/14/92
SST2235200C00L	WWC4*411	04/02/92	04/02/92	194	6.0	04/27/92	05/14/92
SST2210100A00L	WWC4*412	04/02/92	04/02/92	471	5.9	04/27/92	05/14/92
SST2210100B00L	WWC4*413	04/02/92	04/02/92	287	6.0	04/27/92	05/14/92
SST2210100C00L	WWC4*414	04/02/92	04/02/92	97.1	5.9	04/27/92	05/14/92
SST2210200A00L	WWC4*415	04/02/92	04/02/92	272	5.8	04/27/92	05/14/92
SST2210200B00L	WWC4*416	04/02/92	04/02/92	845	6.4	04/27/92	05/14/92
SST2210200C00L	WWC4*417	04/02/92	04/02/92	382	6.5	04/27/92	05/14/92
SST2212100A00L	WWC4*418	04/02/92	04/02/92	313	6.1	04/27/92	05/14/92
SST2212100B00L	WWC4*419	04/02/92	04/02/92	283	5.8	04/27/92	05/14/92
SST2212100C00L	WWC4*420	04/02/92	04/02/92	107	6.1	04/27/92	05/14/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SST2212200A00L	WWC4*421	04/02/92	04/02/92	836	6.6	04/27/92	05/14/92	PW
SST2212200B00L	WWC4*422	04/02/92	04/02/92	465	6.0	04/27/92	05/14/92	PW
SST2212200C00L	WWC4*423	04/02/92	04/02/92	101	5.7	04/27/92	05/14/92	PW
SST2214100A00L	WWC4*424	04/02/92	04/02/92	566	6.4	04/27/92	05/14/92	PW
SST2214100B00L	WWC4*425	04/02/92	04/02/92	343	6.1	04/27/92	05/14/92	[illegible]
SST2214100C00L	WWC4*426	04/02/92	04/02/92	233	5.9	04/27/92	05/14/92	[illegible]
SST2214100A0LD	WWC4*427	04/02/92	04/02/92	567	6.2	04/27/92	05/14/92	PW
SST2214100B0LD	WWC4*428	04/02/92	04/02/92	370	5.9	04/27/92	05/14/92	PW
SST2214100C0LD	WWC4*429	04/02/92	04/02/92	245	6.1	04/27/92	05/14/92	PW
SST2214200A00L	WWC4*430	04/02/92	04/02/92	410	6.4	04/27/92	05/14/92	PW
SST2214200B00L	WWC4*431	04/02/92	04/02/92	388	6.4	04/27/92	05/14/92	PW
SST2214200C00L	WWC4*432	04/02/92	04/02/92	265	5.9	04/27/92	05/14/92	PW
SST1725100A00L	WWC4*433	04/03/92	04/03/92	1330	6.3	04/27/92	05/14/92	PW
SST1725100B00L	WWC4*434	04/03/92	04/03/92	730	6.2	04/27/92	05/14/92	PW
SST1725100C00L	WWC4*435	04/03/92	04/03/92	244	6.0	05/01/92	05/14/92	PW
SST1725200A00L	WWC4*436	04/03/92	04/03/92	729	6.6	05/01/92	05/14/92	PW
SST1725200B00L	WWC4*437	04/03/92	04/03/92	640	6.2	05/01/92	05/14/92	PW
SST1725200C00L	WWC4*438	04/03/92	04/03/92	445	5.9	05/01/92	05/14/92	PW
SST1710100A00L	WWC4*439	04/03/92	04/03/92	1370	6.4	05/01/92	05/14/92	[illegible]
SST1710100B00L	WWC4*440	04/03/92	04/03/92	943	5.5	05/01/92	05/14/92	[illegible]
SST1710100C00L	WWC4*441	04/03/92	04/03/92	421	5.7	05/01/92	05/14/92	PW
SST1710100A0LD	WWC4*442	04/03/92	04/03/92	1450	6.0	05/01/92	05/14/92	PW
SST1710100B0LD	WWC4*443	04/03/92	04/03/92	860	5.6	05/01/92	05/14/92	PW
SST1710100C0LD	WWC4*444	04/03/92	04/03/92	370	6.1	05/01/92	05/14/92	PW
SST1710200A00L	WWC4*445	04/03/92	04/03/92	1530	6.3	05/01/92	05/14/92	PW
SST1710200B00L	WWC4*446	04/03/92	04/03/92	321	6.2	05/01/92	05/14/92	PW
SST1710200C00L	WWC4*447	04/03/92	04/03/92	1540	6.2	05/01/92	05/14/92	[illegible]
SST2256100A00L	WWC4*448	04/03/92	04/03/92	531	6.0	05/01/92	05/14/92	[illegible]
SST2256100B00L	WWC4*449	04/03/92	04/03/92	507	6.1	05/01/92	05/14/92	Pw
SST2256100C00L	WWC4*450	04/03/92	04/03/92	346	5.6	05/01/92	05/14/92	PW
SST2254100A00L	WWC4*451	04/03/92	04/03/92	375	6.1	05/01/92	05/14/92	PW
SST2254100B00L	WWC4*452	04/03/92	04/03/92	228	5.6	05/01/92	05/14/92	PW
SST2254100C00L	WWC4*453	04/03/92	04/03/92	188	6.0	05/01/92	05/14/92	PW
SST2254200A00L	WWC4*454	04/03/92	04/03/92	485	5.9	05/01/92	05/14/92	PW
SST2254200B00L	WWC4*455	04/03/92	04/03/92	461	5.7	05/01/92	05/14/92	PW
SST2254200C00L	WWC4*456	04/03/92	04/03/92	331	6.0	05/01/92	05/14/92	PW
SST2251100A00L	WWC4*457	04/03/92	04/03/92	502	6.1	05/01/92	05/14/92	PW
SST2251100B00L	WWC4*458	04/03/92	04/03/92	269	6.1	05/01/92	05/14/92	PW
SST2251100C00L	WWC4*459	04/03/92	04/03/92	99.7	5.7	05/01/92	05/14/92	PW
SST2251200A00L	WWC4*460	04/03/92	04/03/92	356	6.0	05/01/92	05/14/92	PW
SST2251200B00L	WWC4*461	04/03/92	04/03/92	394	6.2	05/01/92	05/14/92	PW
SST2251200C00L	WWC4*462	04/03/92	04/03/92	306	6.0	05/01/92	05/14/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
SED2246100A00L	WWC4*463	04/03/92	04/03/92	768	6.2	05/01/92	05/14/92	
SED2246100B00L	WWC4*464	04/03/92	04/03/92	502	5.9	05/01/92	05/14/92	
SED2246100C00L	WWC4*465	04/03/92	04/03/92	251	5.8	05/01/92	05/14/92	
SED2246200A00L	WWC4*466	04/03/92	04/03/92	647	6.3	05/01/92	05/14/92	
SED2246200B00L	WWC4*467	04/03/92	04/03/92	478	6.2	05/01/92	05/14/92	
SED2246200C00L	WWC4*468	04/03/92	04/03/92	351	5.9	05/01/92	05/14/92	
SED2254100A00L	WWC4*469	04/03/92	04/03/92	384	6.2	05/01/92	05/14/92	
SED2254100B00L	WWC4*470	04/03/92	04/03/92	320	5.9	05/01/92	05/14/92	
SED2254100C00L	WWC4*471	04/03/92	04/03/92	202	6.0	05/01/92	05/14/92	
SED2254200A00L	WWC4*472	04/03/92	04/03/92	289	6.0	05/01/92	05/14/92	
SED2254200B00L	WWC4*473	04/03/92	04/03/92	254	6.0	05/01/92	05/14/92	
SED2254200C00L	WWC4*474	04/03/92	04/03/92	271	5.7	05/01/92	05/14/92	
SED2255100A00L	WWC4*475	04/03/92	04/03/92	312	6.0	05/04/92	05/14/92	
SED2255100B00L	WWC4*476	04/03/92	04/03/92	246	5.9	05/04/92	05/14/92	
SED2255100C00L	WWC4*477	04/03/92	04/03/92	81.7	5.9	05/04/92	05/14/92	
SED2255100A0LD	WWC4*478	04/03/92	04/03/92	326	5.8	05/04/92	05/14/92	
SED2255100B0LD	WWC4*479	04/03/92	04/03/92	242	6.0	05/04/92	05/14/92	
SED2255100C0LD	WWC4*480	04/03/92	04/03/92	144	5.7	05/04/92	05/14/92	
SED2255200A00L	WWC4*481	04/03/92	04/03/92	380	6.1	05/04/92	05/14/92	
SED2255200B00L	WWC4*482	04/03/92	04/03/92	325	7.3	05/04/92	05/14/92	
SED2255200C00L	WWC4*483	04/03/92	04/03/92	74.0	6.0	05/04/92	05/14/92	
SED2261100A00L	WWC4*484	04/03/92	04/03/92	343	6.2	05/04/92	05/14/92	
SED2261100B00L	WWC4*485	04/03/92	04/03/92	161	5.9	05/04/92	05/14/92	
SED2261100C00L	WWC4*486	04/03/92	04/03/92	42.0	5.8	05/04/92	05/14/92	
SED2261200A00L	WWC4*487	04/03/92	04/03/92	156	6.2	05/04/92	05/14/92	
SED2261200B00L	WWC4*488	04/03/92	04/03/92	81.9	5.9	05/04/92	05/14/92	
SED2261200C00L	WWC4*489	04/03/92	04/03/92	63.0	5.9	05/04/92	05/14/92	
SED2262100A00L	WWC4*490	04/03/92	04/03/92	479	5.9	05/04/92	05/14/92	
SED2262100B00L	WWC4*491	04/03/92	04/03/92	126	5.7	05/04/92	05/14/92	
SED2262100C00L	WWC4*492	04/03/92	04/03/92	48.5	5.8	05/04/92	05/14/92	
SED2262200A00L	WWC4*493	04/03/92	04/03/92	556	5.8	05/04/92	05/14/92	
SED2262200B00L	WWC4*494	04/03/92	04/03/92	327	6.0	05/04/92	05/14/92	
SED2262200C00L	WWC4*495	04/03/92	04/03/92	132	5.6	05/04/92	05/14/92	
SCL1939100A00L	WWC4*496	04/03/92	04/03/92	1070	7.1	05/04/92	05/14/92	
SCL1939100B00L	WWC4*497	04/03/92	04/03/92	369	5.2	05/04/92	05/14/92	
SCL1939100C00L	WWC4*498	04/03/92	04/03/92	58.1	5.7	05/04/92	05/14/92	
SCL1939200A00L	WWC4*499	04/03/92	04/03/92	1050	5.9	05/04/92	05/14/92	
SCL1939200B00L	WWC4*500	04/03/92	04/03/92	940	6.0	05/04/92	05/14/92	
SCL1939200C00L	WWC4*501	04/03/92	04/03/92	646	5.6	05/04/92	05/14/92	
SIO0915100A00L	WWC4*502	04/06/92	04/06/92	371	5.9	05/04/92	05/14/92	
SIO0915100B00L	WWC4*503	04/06/92	04/06/92	242	5.8	05/04/92	05/14/92	
SIO0915100C00L	WWC4*504	04/06/92	04/06/92	148	6.0	05/04/92	05/14/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SI00915200A00L	WWC4*505	04/06/92	04/06/92	73.2	5.5	05/04/92	05/14/92	PW
SI00915200B00L	WWC4*506	04/06/92	04/06/92	656	5.4	05/04/92	05/14/92	PW
SI00915200C00L	WWC4*507	04/06/92	04/06/92	78.1	5.4	05/04/92	05/14/92	PW
SI00916100A00L	WWC4*508	04/06/92	04/06/92	596	5.9	05/04/92	05/14/92	PW
SI00916100B00L	WWC4*509	04/06/92	04/06/92	456	5.8	05/04/92	05/14/92	[illegible]
SI00916100C00L	WWC4*510	04/06/92	04/06/92	59.6	5.8	05/04/92	05/14/92	[illegible]
SI00916200A00L	WWC4*511	04/06/92	04/06/92	371	6.1	05/04/92	05/14/92	PW
SI00916200B00L	WWC4*512	04/06/92	04/06/92	923	5.8	05/04/92	05/14/92	PW
SI00916200C00L	WWC4*513	04/06/92	04/06/92	99.7	5.9	05/04/92	05/14/92	PW
SI00900100A00L	WWC4*514	04/06/92	04/06/92	365	5.8	05/04/92	05/14/92	PW
SI00900100B00L	WWC4*515	04/06/92	04/06/92	155	5.8	05/05/92	05/14/92	PW
SI00900100C00L	WWC4*516	04/06/92	04/06/92	223	5.7	05/05/92	05/14/92	PW
SI00900200A00L	WWC4*517	04/06/92	04/06/92	311	5.9	05/05/92	05/14/92	PW
SI00900200B00L	WWC4*518	04/06/92	04/06/92	345	5.6	05/05/92	05/14/92	PW
SI00900200C00L	WWC4*519	04/06/92	04/06/92	789	5.8	05/05/92	05/14/92	PW
SI00906100A00L	WWC4*520	04/06/92	04/06/92	448	6.2	05/05/92	05/14/92	PW
SI00906100B00L	WWC4*521	04/06/92	04/06/92	240	5.7	05/05/92	05/14/92	PW
SI00906100C00L	WWC4*522	04/06/92	04/06/92	152	5.6	05/05/92	05/14/92	PW
SI00906200A00L	WWC4*523	04/06/92	04/06/92	345	6.2	05/05/92	05/14/92	PW
SI00906200B00L	WWC4*524	04/06/92	04/06/92	273	5.9	05/05/92	05/14/9[illegible]	W
SI00906200C00L	WWC4*525	04/06/92	04/06/92	192	5.7	05/05/92	05/14/9[illegible]	W
SI01202100A00L	WWC4*526	04/06/92	04/06/92	273	5.9	05/05/92	05/14/92	PW
SI01202100B00L	WWC4*527	04/06/92	04/06/92	161	5.7	05/05/92	05/14/92	PW
SI01202100C00L	WWC4*528	04/06/92	04/06/92	142	5.6	05/05/92	05/14/92	PW
SI01205100A00L	WWC4*529	04/06/92	04/06/92	283	5.8	05/05/92	05/14/92	PW
SI01205100B00L	WWC4*530	04/06/92	04/06/92	252	5.8	05/05/92	05/14/92	PW
SI01205100C00L	WWC4*531	04/06/92	04/06/92	319	5.6	05/05/92	05/14/92	[illegible]
SI01218100A00L	WWC4*532	04/06/92	04/06/92	315	5.6	05/05/92	05/14/92	
SI01218100B00L	WWC4*533	04/06/92	04/06/92	491	5.8	05/05/92	05/14/92	[illegible]
SI01218100C00L	WWC4*534	04/06/92	04/06/92	160	5.6	05/05/92	05/14/92	PW
SI01218200A00L	WWC4*535	04/06/92	04/06/92	610	6.1	05/05/92	05/14/92	PW
SI01218200B00L	WWC4*536	04/06/92	04/06/92	397	6.0	05/05/92	05/14/92	PW
SI01218200C00L	WWC4*537	04/06/92	04/06/92	383	5.7	05/05/92	05/14/92	PW
SI01208100A00L	WWC4*538	04/06/92	04/06/92	328	5.8	05/05/92	05/14/92	PW
SI01208100B00L	WWC4*539	04/06/92	04/06/92	192	6.0	05/05/92	05/14/92	PW
SI01208100C00L	WWC4*540	04/06/92	04/06/92	293	5.9	05/05/92	05/14/92	PW
SI01208200A00L	WWC4*541	04/06/92	04/06/92	327	5.7	05/05/92	05/14/92	PW
SI01208200B00L	WWC4*542	04/06/92	04/06/92	192	5.5	05/05/92	05/14/92	PW
SI01208200C00L	WWC4*543	04/06/92	04/06/92	62.7	5.4	05/05/92	05/14/92	PW
SI01229100A00L	WWC4*544	04/06/92	04/06/92	526	6.1	05/05/92	05/14/92	PW
SI01229100B00L	WWC4*545	04/06/92	04/06/92	420	5.9	05/05/92	05/14/92	PW
SI01229100C00L	WWC4*546	04/06/92	04/06/92	224	5.8	05/05/92	05/14/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Re

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE
SIO1229200A00L	WWC4*547	04/06/92	04/06/92	1100	6.2	05/05/92	05/14/92
SIO1229200B00L	WWC4*548	04/06/92	04/06/92	573	6.2	05/05/92	05/14/92
SIO1229200C00L	WWC4*549	04/06/92	04/06/92	386	6.3	05/05/92	05/14/92
SWS0805100A00L	WWC4*550	04/06/92	04/06/92	106	5.4	05/05/92	05/14/92
SWS0805100B00L	WWC4*551	04/06/92	04/06/92	100.0	5.5	05/05/92	05/14/92
SWS0805100C00L	WWC4*552	04/06/92	04/06/92	152	5.8	05/05/92	05/14/92
SWS0805200A00L	WWC4*553	04/06/92	04/06/92	787	5.5	05/05/92	05/14/92
SWS0805200B00L	WWC4*554	04/06/92	04/06/92	282	5.7	06/09/92	05/14/92
SWS0805200C00L	WWC4*555	04/06/92	04/06/92	68.0	7.2	05/05/92	05/14/92
SWS0821100A00L	WWC4*556	04/06/92	04/06/92	438	5.4	05/05/92	05/14/92
SWS0821100B00L	WWC4*557	04/06/92	04/06/92	388	5.6	05/05/92	05/14/92
SWS0821100C00L	WWC4*558	04/06/92	04/06/92	372	5.5	05/05/92	05/14/92
SWS0821200A00L	WWC4*559	04/06/92	04/06/92	1980	5.5	05/05/92	05/14/92
SWS0821200B00L	WWC4*560	04/06/92	04/06/92	450	5.6	05/05/92	05/14/92
SWS0821200C00L	WWC4*561	04/06/92	04/06/92	186	5.4	05/05/92	05/14/92
SWS1005100A00L	WWC4*562	04/06/92	04/06/92	175	5.3	05/05/92	05/14/92
SWS1005100B00L	WWC4*563	04/06/92	04/06/92	88.2	5.6	05/05/92	05/14/92
SWS1005100C00L	WWC4*564	04/06/92	04/06/92	226	6.1	05/05/92	05/14/92
SIO1014100A00L	WWC4*565	04/07/92	04/07/92	311	5.8	05/05/92	05/14/92
SIO1014100B00L	WWC4*566	04/07/92	04/07/92	285	5.9	05/05/92	05/14/92
SIO1014100C00L	WWC4*567	04/07/92	04/07/92	289	5.7	05/05/92	05/14/92
SIO1014200A00L	WWC4*568	04/07/92	04/07/92	652	6.1	05/05/92	05/14/92
SIO1014200B00L	WWC4*569	04/07/92	04/07/92	216	5.6	05/05/92	05/14/92
SIO1014200C00L	WWC4*570	04/07/92	04/07/92	87.7	5.8	05/05/92	05/14/92
SIO1012100A00L	WWC4*571	04/07/92	04/07/92	360	5.6	05/05/92	05/14/92
SIO1012100B00L	WWC4*572	04/07/92	04/07/92	289	5.6	05/05/92	05/14/92
SIO1012100C00L	WWC4*573	04/07/92	04/07/92	229	5.6	05/05/92	05/14/92
SIO1012200A00L	WWC4*574	04/07/92	04/07/92	304	6.0	05/05/92	05/14/92
SIO1012200B00L	WWC4*575	04/07/92	04/07/92	174	5.7	05/05/92	05/14/92
SIO1012200C00L	WWC4*576	04/07/92	04/07/92	305	6.1	05/05/92	05/14/92
SIO1011100A00L	WWC4*577	04/07/92	04/07/92	267	6.3	05/05/92	05/14/92
SIO1011100B00L	WWC4*578	04/07/92	04/07/92	123	5.7	05/05/92	05/14/92
SIO1011100C00L	WWC4*579	04/07/92	04/07/92	434	6.0	05/05/92	05/14/92
SIO1011200A00L	WWC4*580	04/07/92	04/07/92	438	6.1	05/05/92	05/14/92
SIO1011200B00L	WWC4*581	04/07/92	04/07/92	334	5.7	05/05/92	05/14/92
SIO1011200C00L	WWC4*582	04/07/92	04/07/92	214	6.0	05/05/92	05/14/92
SIO1009100A00L	WWC4*583	04/07/92	04/07/92	557	6.0	05/05/92	05/14/92
SIO1009100B00L	WWC4*584	04/07/92	04/07/92	508	6.2	05/05/92	05/14/92
SIO1009100C00L	WWC4*585	04/07/92	04/07/92	128	5.9	05/05/92	05/14/92
SIO1009200A00L	WWC4*586	04/07/92	04/07/92	153	5.9	05/05/92	05/14/92
SIO1009200B00L	WWC4*587	04/07/92	04/07/92	155	6.0	05/05/92	05/14/92
SIO1009200C00L	WWC4*588	04/07/92	04/07/92	694	6.4	05/05/92	05/14/92

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SIO1005100A00L	WWC4*589	04/07/92	04/07/92	457		6.2	05/05/92	05/14/92	PW
SIO1005100B00L	WWC4*590	04/07/92	04/07/92	510		6.0	05/05/92	05/14/92	PW
SIO1005100C00L	WWC4*591	04/07/92	04/07/92	386		6.2	05/05/92	05/14/92	PW
SIO1005200A00L	WWC4*592	04/07/92	04/07/92	413		6.0	05/05/92	05/14/92	PW
SIO1005200B00L	WWC4*593	04/07/92	04/07/92	383		6.2	05/05/92	05/14/92	[illegible]
SIO1005200C00L	WWC4*594	04/07/92	04/07/92	281		5.8	05/05/92	05/14/92	[illegible]
SIO1004100A00L	WWC4*595	04/07/92	04/07/92	549		6.0	05/05/92	05/14/92	PW
SIO1004100B00L	WWC4*596	04/07/92	04/07/92	376		5.9	05/05/92	05/14/92	PW
SIO1004100C00L	WWC4*597	04/07/92	04/07/92	699		6.0	05/05/92	05/14/92	PW
SIO1026100A00L	WWC4*598	04/07/92	04/07/92	231		5.9	05/05/92	05/14/92	PW
SIO1026100B00L	WWC4*599	04/07/92	04/07/92	185		5.9	05/05/92	05/14/92	PW
SIO1026100C00L	WWC4*600	04/07/92	04/07/92	110		5.7	05/05/92	05/14/92	PW
SIO1026200A00L	WWC4*601	04/07/92	04/07/92	386		6.0	05/05/92	05/14/92	PW
SIO1026200B00L	WWC4*602	04/07/92	04/07/92	318		5.8	05/05/92	05/14/92	PW
SIO1026200C00L	WWC4*603	04/07/92	04/07/92	5430	D	61.0	05/05/92	05/15/92	PW
SIO1030100A00L	WWC4*604	04/07/92	04/07/92	496		6.1	05/05/92	05/14/92	PW
SIO1030100B00L	WWC4*605	04/07/92	04/07/92	398		6.1	05/05/92	05/14/92	PW
SIO1030100C00L	WWC4*606	04/07/92	04/07/92	213		6.0	05/05/92	05/14/92	PW
SIO1030100A0LD	WWC4*607	04/07/92	04/07/92	492		6.2	05/05/92	05/14/92	[illegible]
SIO1030100B0LD	WWC4*608	04/07/92	04/07/92	447		5.9	05/05/92	05/14/92	[illegible]
SIO1030100C0LD	WWC4*609	04/07/92	04/07/92	155		6.0	05/05/92	05/14/92	PW
SIO1030200A00L	WWC4*610	04/07/92	04/07/92	233		5.9	05/05/92	05/14/92	PW
SIO1030200B00L	WWC4*611	04/07/92	04/07/92	301		5.9	05/05/92	05/14/92	PW
SIO1030200C00L	WWC4*612	04/07/92	04/07/92	211		6.0	05/05/92	05/14/92	PW
SIO1028100A00L	WWC4*613	04/07/92	04/07/92	338		5.9	05/05/92	05/14/92	PW
SIO1028100B00L	WWC4*614	04/07/92	04/07/92	271		5.9	05/05/92	05/14/92	PW
SIO1028100C00L	WWC4*615	04/07/92	04/07/92	5390	D	60.6	05/05/92	05/15/92	[illegible]
SWS1302100A00L	WWC4*616	04/07/92	04/07/92	351		6.2	05/05/92	05/15/92	[illegible]
SWS1302100B00L	WWC4*617	04/07/92	04/07/92	173		6.1	05/05/92	05/15/92	PW
SWS1302100C00L	WWC4*618	04/07/92	04/07/92	82.2		5.9	05/05/92	05/15/92	PW
SWS1302100A0LD	WWC4*619	04/07/92	04/07/92	300		6.1	05/05/92	05/15/92	PW
SWS1302100B0LD	WWC4*620	04/07/92	04/07/92	133		6.0	05/05/92	05/15/92	PW
SWS1302100C0LD	WWC4*621	04/07/92	04/07/92	122		5.8	05/05/92	05/15/92	PW
SWS1302200A00L	WWC4*622	04/07/92	04/07/92	405		6.3	05/05/92	05/15/92	PW
SWS1302200B00L	WWC4*623	04/07/92	04/07/92	628		6.3	05/05/92	05/15/92	PW
SWS1302200C00L	WWC4*624	04/07/92	04/07/92	689		7.5	05/05/92	05/15/92	PW
SWS1321100A00L	WWC4*625	04/07/92	04/07/92	743		5.8	05/05/92	05/15/92	PW
SWS1321100B00L	WWC4*626	04/07/92	04/07/92	273		5.5	05/05/92	05/15/92	PW
SWS1321100C00L	WWC4*627	04/07/92	04/07/92	198		5.3	05/05/92	05/15/92	PW
SWS1321200A00L	WWC4*628	04/07/92	04/07/92	398		5.9	05/05/92	05/15/92	PW
SWS1321200B00L	WWC4*629	04/07/92	04/07/92	437		5.7	05/05/92	05/15/92	PW
SWS1321200C00L	WWC4*630	04/07/92	04/07/92	212		5.7	05/05/92	05/15/92	PW

D - Sample was diluted for this parameter

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
SIO1120100A00L	WWC4*631	04/07/92	04/07/92	371	5.9	05/05/92	05/15/92	
SIO1120100B00L	WWC4*632	04/07/92	04/07/92	329	5.9	05/05/92	05/15/92	
SIO1120100C00L	WWC4*633	04/07/92	04/07/92	136	6.1	05/05/92	05/15/92	
SIO1120200A00L	WWC4*634	04/07/92	04/07/92	297	6.1	05/05/92	05/15/92	
SIO1120200B00L	WWC4*635	04/07/92	04/07/92	227	6.0	05/06/92	05/15/92	
SIO1120200C00L	WWC4*636	04/07/92	04/07/92	99.7	5.8	05/06/92	05/15/92	
SOH2026100A00L	WWC4*637	04/08/92	04/08/92	697	6.2	05/06/92	05/15/92	
SOH2026100B00L	WWC4*638	04/08/92	04/08/92	564	5.8	05/06/92	05/15/92	
SOH2026100C00L	WWC4*639	04/08/92	04/08/92	359	5.8	05/06/92	05/15/92	
SOH2026200A00L	WWC4*640	04/08/92	04/08/92	1110	7.7	05/06/92	05/15/92	
SOH2026200B00L	WWC4*641	04/08/92	04/08/92	743	5.9	05/06/92	05/15/92	
SOH2026200C00L	WWC4*642	04/08/92	04/08/92	146	5.7	05/06/92	05/15/92	
SOH2028100A00L	WWC4*643	04/08/92	04/08/92	481	5.5	05/06/92	05/15/92	
SOH2028100B00L	WWC4*644	04/08/92	04/08/92	200	5.6	05/06/92	05/15/92	
SOH2028100C00L	WWC4*645	04/08/92	04/08/92	85.5	5.9	05/06/92	05/15/92	
SOH2028200A00L	WWC4*646	04/08/92	04/08/92	442	5.8	05/06/92	05/15/92	
SOH2028200B00L	WWC4*647	04/08/92	04/08/92	305	5.9	05/06/92	05/15/92	
SOH2028200C00L	WWC4*648	04/08/92	04/08/92	379	5.6	05/06/92	05/15/92	
SRR2009100A00L	WWC4*649	04/08/92	04/08/92	288	5.3	05/06/92	05/15/92	
SRR2009100B00L	WWC4*650	04/08/92	04/08/92	203	5.3	05/06/92	05/15/92	
SRR2009100C00L	WWC4*651	04/08/92	04/08/92	355	5.7	05/06/92	05/15/92	
SRR2009200A00L	WWC4*652	04/08/92	04/08/92	571	6.1	05/06/92	05/15/92	
SRR2009200B00L	WWC4*653	04/08/92	04/08/92	319	5.8	05/06/92	05/15/92	
SRR2009200C00L	WWC4*654	04/08/92	04/08/92	173	5.2	05/06/92	05/15/92	
SBR2025100A00L	WWC4*655	04/08/92	04/08/92	410	7.6	05/06/92	05/15/92	
SBR2025100B00L	WWC4*656	04/08/92	04/08/92	248	5.5	05/06/92	05/15/92	
SBR2025100C00L	WWC4*657	04/08/92	04/08/92	297	5.6	05/06/92	05/15/92	
SBR2037100A00L	WWC4*658	04/08/92	04/08/92	475	5.8	05/06/92	05/15/92	
SBR2037100B00L	WWC4*659	04/08/92	04/08/92	564	5.5	05/06/92	05/15/92	
SBR2037100C00L	WWC4*660	04/08/92	04/08/92	587	5.4	05/06/92	05/15/92	
SBR2037200A00L	WWC4*661	04/08/92	04/08/92	559	5.7	05/06/92	05/15/92	
SBR2037200B00L	WWC4*662	04/08/92	04/08/92	589	6.0	05/06/92	05/15/92	
SBR2037200C00L	WWC4*663	04/08/92	04/08/92	318	5.7	05/06/92	05/15/92	
SBR2035100A00L	WWC4*664	04/08/92	04/08/92	143	5.6	05/06/92	05/15/92	
SBR2035100B00L	WWC4*665	04/08/92	04/08/92	107	5.9	05/06/92	05/15/92	
SBR2035100C00L	WWC4*666	04/08/92	04/08/92	105	5.9	05/06/92	05/15/92	
SBR2035200A00L	WWC4*667	04/08/92	04/08/92	250	5.6	05/06/92	05/15/92	
SBR2035200B00L	WWC4*668	04/08/92	04/08/92	214	5.1	05/06/92	05/15/92	
SBR2035200C00L	WWC4*669	04/08/92	04/08/92	170	5.6	05/06/92	05/15/92	
SWT2636100A00L	WWC4*670	04/08/92	04/08/92	310	5.7	05/06/92	05/15/92	
SWT2636100B00L	WWC4*671 J	04/08/92	04/08/92	304 J	5.9	05/06/92	05/15/92	
SWT2636100C00L	WWC4*672	04/08/92	04/08/92	278	6.0	05/06/92	05/15/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Result

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHE INI
SWT2636200A00L	WWC4*673	04/08/92	04/08/92	209	5.9	05/06/92	05/15/92	PW
SWT2636200B00L	WWC4*674	04/08/92	04/08/92	167	5.9	05/06/92	05/15/92	PW
SWT2636200C00L	WWC4*675	04/08/92	04/08/92	137	6.1	05/06/92	05/15/92	PW
SWT2606100A00L	WWC4*676	04/08/92	04/08/92	302	5.0	05/06/92	05/15/92	PW
SWT2606100B00L	WWC4*677	04/08/92	04/08/92	117	5.5	05/06/92	05/15/92	
SWT2606100C00L	WWC4*678	04/08/92	04/08/92	60.6	5.2	05/06/92	05/15/92	
SWT2606200A00L	WWC4*679	04/08/92	04/08/92	284	5.5	05/06/92	05/15/92	Pw
SWT2606200B00L	WWC4*680	04/08/92	04/08/92	137	5.7	05/06/92	05/15/92	PW
SWT2606200C00L	WWC4*681	04/08/92	04/08/92	101	5.5	05/06/92	05/15/92	PW
SIO2221100A00L	WWC4*682	04/08/92	04/08/92	514	5.7	05/06/92	05/15/92	PW
SIO2221100B00L	WWC4*683	04/08/92	04/08/92	373	5.8	05/06/92	05/15/92	PW
SIO2221100C00L	WWC4*684	04/08/92	04/08/92	144	6.0	05/06/92	05/15/92	PW
SIO2221200A00L	WWC4*685	04/08/92	04/08/92	558	5.8	05/06/92	05/15/92	PW
SIO2221200B00L	WWC4*686	04/08/92	04/08/92	457	6.1	05/06/92	05/15/92	PW
SIO2221200C00L	WWC4*687	04/08/92	04/08/92	180	6.1	05/06/92	05/15/92	PW
SDV2503100A00L	WWC4*688	04/08/92	04/08/92	349	6.1	05/06/92	05/15/92	PW
SDV2503100B00L	WWC4*689	04/08/92	04/08/92	442	6.2	05/06/92	05/15/92	PW
SDV2503100C00L	WWC4*690	04/08/92	04/08/92	623	5.7	05/06/92	05/15/92	PW
SDV2503200A00L	WWC4*691 J	04/08/92	04/08/92	250 J	5.7	05/06/92	05/15/92	PW
SDV2503200B00L	WWC4*692	04/08/92	04/08/92	679	6.1	05/06/92	05/15/9	W
SDV2503200C00L	WWC4*693	04/08/92	04/08/92	485	5.9	05/06/92	05/15/9	W
SDV2507100A00L	WWC4*694	04/08/92	04/08/92	317	6.0	05/06/92	05/15/92	PW
SDV2507100B00L	WWC4*695	04/08/92	04/08/92	161	5.6	05/06/92	05/15/92	PW
SDV2507100C00L	WWC4*696	04/08/92	04/08/92	71.6	5.7	05/06/92	05/15/92	PW
SDV2507200A00L	WWC4*697	04/08/92	04/08/92	536	6.1	05/06/92	05/15/92	PW
SDV2507200B00L	WWC4*698	04/08/92	04/08/92	705	5.5	05/06/92	05/15/92	PW
SDV2507200C00L	WWC4*699	04/08/92	04/08/92	481	5.8	05/06/92	05/15/92	
SDV2619100A00L	WWC4*700	04/08/92	04/08/92	400	6.0	05/06/92	05/15/92	
SDV2619100B00L	WWC4*701	04/08/92	04/08/92	494	5.5	05/06/92	05/15/92	P
SDV2619100C00L	WWC4*702	04/08/92	04/08/92	118	5.9	05/06/92	05/15/92	PW
SDV2619200A00L	WWC4*703	04/08/92	04/08/92	229	5.8	05/06/92	05/15/92	PW
SDV2619200B00L	WWC4*704	04/08/92	04/08/92	241	5.9	05/06/92	05/15/92	PW
SDV2619200C00L	WWC4*705	04/08/92	04/08/92	143	5.8	05/06/92	05/15/92	PW
SIO1018200A00L	WWC4*706	04/09/92	04/09/92	379	5.4	05/06/92	05/15/92	PW
SIO1018200B00L	WWC4*707	04/09/92	04/09/92	164	5.6	05/06/92	05/15/92	PW
SIO1018200C00L	WWC4*708	04/09/92	04/09/92	18.7	5.8	05/06/92	05/15/92	PW
SIO1018100A00L	WWC4*709	04/09/92	04/09/92	236	6.1	05/06/92	05/15/92	PW
SIO1018100B00L	WWC4*710	04/09/92	04/09/92	271	5.7	05/06/92	05/15/92	PW
SIO1018100C00L	WWC4*711	04/09/92	04/09/92	49.0	5.8	05/07/92	05/15/92	PW
SER1849100A00L	WWC4*712	04/09/92	04/09/92	192	5.8	05/07/92	05/15/92	PW
SER1849100B00L	WWC4*713	04/09/92	04/09/92	125	5.7	05/07/92	05/15/92	PW
SER1849100C00L	WWC4*714	04/09/92	04/09/92	71.3	5.5	05/07/92	05/15/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
SIR1849200A00L	WWC4*715	04/09/92	04/09/92	427	5.6	05/07/92	05/15/92	
SIR1849200B00L	WWC4*716	04/09/92	04/09/92	229	7.0	05/07/92	05/15/92	
SIR1849200C00L	WWC4*717	04/09/92	04/09/92	84.4	5.6	05/07/92	05/15/92	
SIO1310100A00L	WWC4*718	04/09/92	04/09/92	417	5.4	05/07/92	05/15/92	
SIO1310100B00L	WWC4*719	04/09/92	04/09/92	203	5.5	05/07/92	05/15/92	
SIO1310100C00L	WWC4*720	04/09/92	04/09/92	81.9	5.6	05/07/92	05/15/92	
SIO1310200A00L	WWC4*721	04/09/92	04/09/92	430	5.2	05/07/92	05/15/92	
SIO1310200B00L	WWC4*722	04/09/92	04/09/92	393	5.4	05/07/92	05/15/92	
SIO1310200C00L	WWC4*723	04/09/92	04/09/92	292	5.6	05/07/92	05/15/92	
SRE0927100A00L	WWC4*724	04/09/92	04/09/92	417	6.0	05/07/92	05/15/92	
SRE0927100B00L	WWC4*725	04/09/92	04/09/92	54.1	5.8	05/07/92	05/15/92	
SRE0927100C00L	WWC4*726	04/09/92	04/09/92	73.0	5.9	05/07/92	05/15/92	
SRE0927200A00L	WWC4*727	04/09/92	04/09/92	78.8	5.7	05/07/92	05/15/92	
SRE0927200B00L	WWC4*728	04/09/92	04/09/92	40.1	5.7	05/07/92	05/15/92	
SRE0927200C00L	WWC4*729	04/09/92	04/09/92	17.2	5.7	05/07/92	05/15/92	
SRE0935100A00L	WWC4*730	04/09/92	04/09/92	366	5.7	05/07/92	05/15/92	
SRE0935100B00L	WWC4*731	04/09/92	04/09/92	245	5.6	05/07/92	05/15/92	
SRE0935100C00L	WWC4*732	04/09/92	04/09/92	445	5.6	05/07/92	05/15/92	
SRE0935100A0LD	WWC4*733	04/09/92	04/09/92	369	5.9	05/07/92	05/15/92	
SRE0935100B0LD	WWC4*734	04/09/92	04/09/92	217	5.3	05/07/92	05/15/92	
SRE0935100C0LD	WWC4*735	04/09/92	04/09/92	468	5.5	05/07/92	05/15/92	
SRE0935200A00L	WWC4*736	04/09/92	04/09/92	229	5.5	05/07/92	05/15/92	
SRE0935200B00L	WWC4*737	04/09/92	04/09/92	205	5.5	05/07/92	05/15/92	
SRE0935200C00L	WWC4*738	04/09/92	04/09/92	178	5.3	05/07/92	05/15/92	
SRE1104100A00L	WWC4*739	04/09/92	04/09/92	192	5.7	05/07/92	05/15/92	
SRE1104100B00L	WWC4*740	04/09/92	04/09/92	112	5.8	05/07/92	05/15/92	
SRE1104100C00L	WWC4*741	04/09/92	04/09/92	73.4	5.7	05/07/92	05/15/92	
SRE1104200A00L	WWC4*742	04/09/92	04/09/92	148	6.3	05/07/92	05/15/92	
SRE1104200B00L	WWC4*743	04/09/92	04/09/92	147	5.7	05/07/92	05/15/92	
SRE1104200C00L	WWC4*744	04/09/92	04/09/92	79.4	5.9	05/07/92	05/15/92	
SRE1113100A00L	WWC4*745	04/09/92	04/09/92	309	6.2	05/07/92	05/15/92	
SRE1113100B00L	WWC4*746	04/09/92	04/09/92	186	5.9	05/07/92	05/15/92	
SRE1113100C00L	WWC4*747	04/09/92	04/09/92	223	5.8	05/07/92	05/15/92	
SRE1113200A00L	WWC4*748	04/09/92	04/09/92	273	5.7	05/07/92	05/15/92	
SRE1113200B00L	WWC4*749	04/09/92	04/09/92	256	5.5	05/07/92	05/15/92	
SRE1113200C00L	WWC4*750	04/09/92	04/09/92	205	5.8	05/07/92	05/15/92	
SRE1112100A00L	WWC4*751	04/09/92	04/09/92	404	5.3	05/07/92	05/15/92	
SRE1112100B00L	WWC4*752	04/09/92	04/09/92	213	5.5	05/07/92	05/15/92	
SRE1112100C00L	WWC4*753	04/09/92	04/09/92	246	5.8	05/07/92	05/15/92	
SRE1112200A00L	WWC4*754	04/09/92	04/09/92	123	6.0	05/07/92	05/15/92	
SRE1112200B00L	WWC4*755	04/09/92	04/09/92	188	5.8	05/07/92	05/15/92	
SRE1112200C00L	WWC4*756	04/09/92	04/09/92	584	5.7	05/07/92	05/15/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM INIT
SRE1108100A00L	WWC4*757	04/09/92	04/09/92	161	6.4	05/07/92	05/15/92	PW
SRE1108100B00L	WWC4*758	04/09/92	04/09/92	83.4	5.8	05/07/92	05/15/92	PW
SRE1108100C00L	WWC4*759	04/09/92	04/09/92	91.2	5.9	05/07/92	05/15/92	PW
SRE1108200A00L	WWC4*760	04/09/92	04/09/92	214	5.9	05/07/92	05/15/92	PW
SRE1108200B00L	WWC4*761	04/09/92	04/09/92	41.1	5.7	05/07/92	05/15/92	[illegible]
SRE1108200C00L	WWC4*762	04/09/92	04/09/92	65.7	6.0	05/07/92	05/15/92	[illegible]
SRE1119100A00L	WWC4*763	04/09/92	04/09/92	510	6.1	05/07/92	05/15/92	PW
SRE1119100B00L	WWC4*764	04/09/92	04/09/92	223	6.0	05/07/92	05/15/92	PW
SRE1119100C00L	WWC4*765	04/09/92	04/09/92	46.8	5.6	05/07/92	05/15/92	PW
SRE1119200A00L	WWC4*766	04/09/92	04/09/92	446	6.2	05/07/92	05/15/92	PW
SRE1119200B00L	WWC4*767	04/09/92	04/09/92	384	6.1	05/07/92	05/15/92	PW
SRE1119200C00L	WWC4*768	04/09/92	04/09/92	296	5.6	05/07/92	05/15/92	PW
SRE1129100A00L	WWC4*769	04/09/92	04/09/92	84.6	5.4	05/07/92	05/15/92	PW
SRE1129100B00L	WWC4*770	04/09/92	04/09/92	46.1	5.6	05/07/92	05/15/92	PW
SRE1129100C00L	WWC4*771	04/09/92	04/09/92	55.4	5.6	05/08/92	05/15/92	PW
SRE1129100A0LD	WWC4*772	04/09/92	04/09/92	84.5	5.3	05/08/92	05/15/92	PW
SRE1129100B0LD	WWC4*773	04/09/92	04/09/92	36.5	5.7	05/08/92	05/15/92	PW
SRE1129100C0LD	WWC4*774	04/09/92	04/09/92	68.2	6.0	05/08/92	05/15/92	PW
SRE1129200A00L	WWC4*775	04/09/92	04/09/92	183	6.0	05/08/92	05/15/92	[illegible]
SRE1129200B00L	WWC4*776	04/09/92	04/09/92	84.0	5.7	05/08/92	05/15/92	
SRE1129200C00L	WWC4*777	04/09/92	04/09/92	50.6	5.6	05/08/92	05/15/92	
SRE1130100A00L	WWC4*778	04/09/92	04/09/92	1430	5.5	05/08/92	05/15/92	PW
SRE1130100B00L	WWC4*779	04/09/92	04/09/92	698	5.7	05/08/92	05/15/92	PW
SRE1130100C00L	WWC4*780	04/09/92	04/09/92	341	5.6	05/08/92	05/15/92	PW
SRE1130200A00L	WWC4*781	04/09/92	04/09/92	1070	6.1	05/08/92	05/15/92	PW
SRE1130200B00L	WWC4*782	04/09/92	04/09/92	1430	7.8	05/08/92	05/15/92	PW
SRE1130200C00L	WWC4*783	04/09/92	04/09/92	544	5.8	05/08/92	05/15/92	P
SRE1128100A00L	WWC4*784	04/09/92	04/09/92	470	6.4	05/08/92	05/15/92	P
SRE1128100B00L	WWC4*785	04/09/92	04/09/92	408	5.6	05/08/92	05/15/92	PW
SRE1128100C00L	WWC4*786	04/09/92	04/09/92	227	5.8	05/08/92	05/15/92	PW
SRE1128200A00L	WWC4*787	04/09/92	04/09/92	609	6.9	05/08/92	05/15/92	PW
SRE1128200B00L	WWC4*788	04/09/92	04/09/92	566	6.5	05/08/92	05/15/92	PW
SRE1128200C00L	WWC4*789	04/09/92	04/09/92	473	6.2	05/08/92	05/15/92	PW
SEL1916100A00L	WWC4*790	04/10/92	04/10/92	541	5.9	05/08/92	05/15/92	PW
SEL1916100B00L	WWC4*791	04/10/92	04/10/92	160	5.9	05/08/92	05/15/92	PW
SEL1916100C00L	WWC4*792	04/10/92	04/10/92	91.6	5.9	05/08/92	05/15/92	PW
SEL1916200A00L	WWC4*793	04/10/92	04/10/92	438	5.8	05/08/92	05/15/92	PW
SEL1916200B00L	WWC4*794	04/10/92	04/10/92	802	5.3	05/08/92	05/15/92	PW
SEL1916200C00L	WWC4*795	04/10/92	04/10/92	193	5.5	05/08/92	05/15/92	PW
SKE1610100A00L	WWC4*796	04/10/92	04/10/92	133	5.9	05/08/92	05/15/92	PW
SKE1610100B00L	WWC4*797	04/10/92	04/10/92	284	5.8	05/08/92	05/15/92	PW
SKE1610100C00L	WWC4*798	04/10/92	04/10/92	346	5.7	05/08/92	05/15/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

ROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V

PROJECT NUMBER: 5912031 0100

REPORT DATE: 06-23-92

AMPLE MATRIX: SOIL

LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA

ROJECT MANAGER: JOHN F. GEMOULES

REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	C I
KE1610200A00L	WWC4*799	04/10/92	04/10/92	149	5.1	05/08/92	05/15/92	
KE1610200B00L	WWC4*800	04/10/92	04/10/92	197	5.5	05/08/92	05/15/92	
KE1610200C00L	WWC4*801	04/10/92	04/10/92	288	5.4	05/08/92	05/15/92	
KE1608100A00L	WWC4*802	04/10/92	04/10/92	381	5.4	05/08/92	05/15/92	
KE1608100B00L	WWC4*803	04/10/92	04/10/92	685	5.7	05/08/92	05/15/92	
KE1608100C00L	WWC4*804	04/10/92	04/10/92	434	5.4	05/08/92	05/15/92	
KE1608200A00L	WWC4*805	04/10/92	04/10/92	440	5.6	05/08/92	05/15/92	
SKE1608200B00L	WWC4*806	04/10/92	04/10/92	493	5.5	05/08/92	05/15/92	
SKE1608200C00L	WWC4*807	04/10/92	04/10/92	642	5.5	05/08/92	05/15/92	
KE1607100A00L	WWC4*808	04/10/92	04/10/92	331	6.1	05/08/92	05/15/92	
KE1607100B00L	WWC4*809	04/10/92	04/10/92	170	5.9	05/08/92	05/15/92	
KE1607100C00L	WWC4*810	04/10/92	04/10/92	85.0	5.7	05/08/92	05/18/92	
SKE1607200A00L	WWC4*811	04/10/92	04/10/92	288	5.4	05/08/92	05/18/92	
SKE1607200B00L	WWC4*812	04/10/92	04/10/92	159	5.8	05/08/92	05/18/92	
KE1607200C00L	WWC4*813	04/10/92	04/10/92	98.8	5.7	05/08/92	05/18/92	
KE1605100A00L	WWC4*814	04/10/92	04/10/92	306	6.3	05/08/92	05/18/92	
SKE1605100B00L	WWC4*815	04/10/92	04/10/92	211	5.9	05/08/92	05/18/92	
SKE1605100C00L	WWC4*816	04/10/92	04/10/92	136	5.6	05/08/92	05/18/92	
KE1605200A00L	WWC4*817	04/10/92	04/10/92	279	5.4	05/08/92	05/18/92	
KE1605200B00L	WWC4*818	04/10/92	04/10/92	259	5.6	05/08/92	05/18/92	
KE1605200C00L	WWC4*819	04/10/92	04/10/92	448	5.6	05/08/92	05/18/92	
SKE1604100A00L	WWC4*820	04/10/92	04/10/92	117	6.0	05/08/92	05/18/92	
SKE1604100B00L	WWC4*821	04/10/92	04/10/92	458	5.9	05/08/92	05/18/92	
KE1604100C00L	WWC4*822	04/10/92	04/10/92	314	5.9	05/08/92	05/18/92	
KE1604200A00L	WWC4*823	04/10/92	04/10/92	358	5.7	05/08/92	05/18/92	
KE1604200B00L	WWC4*824	04/10/92	04/10/92	1760	5.5	05/08/92	05/18/92	
KE1604200C00L	WWC4*825	04/10/92	04/10/92	1310	5.8	05/08/92	05/18/92	
MC1019100A00L	WWC4*826	04/10/92	04/10/92	308	6.4	05/08/92	05/18/92	
MC1019100B00L	WWC4*827	04/10/92	04/10/92	195	5.7	05/08/92	05/18/92	
MC1019100C00L	WWC4*828	04/10/92	04/10/92	98.4	5.7	05/08/92	05/18/92	
SMC1019200A00L	WWC4*829	04/10/92	04/10/92	130	6.2	05/08/92	05/18/92	
SMC1019200B00L	WWC4*830	04/10/92	04/10/92	144	6.0	05/08/92	05/18/92	
MC1019200C00L	WWC4*831	04/10/92	04/10/92	124	5.9	05/08/92	05/18/92	
MC1023100A00L	WWC4*832	04/10/92	04/10/92	470	5.6	05/08/92	05/18/92	
SMC1023100B00L	WWC4*833	04/10/92	04/10/92	216	5.7	05/08/92	05/18/92	
SMC1023100C00L	WWC4*834	04/10/92	04/10/92	139	5.9	05/08/92	05/18/92	
MC1023200A00L	WWC4*835	04/10/92	04/10/92	142	6.3	05/08/92	05/18/92	
MC1023200B00L	WWC4*836	04/10/92	04/10/92	95.0	6.1	05/08/92	05/18/92	
MC1023200C00L	WWC4*837	04/10/92	04/10/92	149	5.8	05/08/92	05/18/92	
SEL1601100A00L	WWC4*838	04/10/92	04/10/92	328	6.5	05/08/92	05/18/92	
SEL1601100B00L	WWC4*839	04/10/92	04/10/92	227	6.2	05/08/92	05/18/92	
EL1601100C00L	WWC4*840	04/10/92	04/10/92	94.7	5.8	05/08/92	05/18/92	

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resul

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CHE. INI
SEL1601200A00L	WWC4*841	04/10/92	04/10/92	342	6.2	05/08/92	05/18/92	PW
SEL1601200B00L	WWC4*842	04/10/92	04/10/92	200	5.8	05/08/92	05/18/92	PW
SEL1601200C00L	WWC4*843	04/10/92	04/10/92	226	6.2	05/08/92	05/18/92	PW
SEL1603100A00L	WWC4*844	04/10/92	04/10/92	371	6.2	05/08/92	05/18/92	PW
SEL1603100B00L	WWC4*845	04/10/92	04/10/92	210	5.9	05/08/92	05/18/92	[illegible]
SEL1603100C00L	WWC4*846	04/10/92	04/10/92	664	6.0	05/08/92	05/18/92	[illegible]
SEL1603200A00L	WWC4*847	04/10/92	04/10/92	331	6.3	05/08/92	05/18/92	PW
SEL1603200B00L	WWC4*848	04/10/92	04/10/92	222	6.1	05/08/92	05/18/92	PW
SEL1603200C00L	WWC4*849	04/10/92	04/10/92	64.9	5.8	05/08/92	05/18/92	PW
SEL1611100A00L	WWC4*850	04/10/92	04/10/92	341	6.2	05/08/92	05/18/92	PW
SEL1611100B00L	WWC4*851	04/10/92	04/10/92	185	5.9	05/08/92	05/18/92	PW
SEL1611100C00L	WWC4*852	04/10/92	04/10/92	275	6.0	05/08/92	05/18/92	PW
SEL1611100A00L	WWC4*853	04/10/92	04/10/92	863	6.0	05/08/92	05/18/92	PW
SEL1611100B00L	WWC4*854	04/10/92	04/10/92	477	5.9	05/08/92	05/18/92	PW
SEL1611100C00L	WWC4*855	04/10/92	04/10/92	613	5.7	05/08/92	05/18/92	PW
SEL1608100A00L	WWC4*856	04/10/92	04/10/92	282	6.1	05/08/92	05/18/92	PW
SEL1608100B00L	WWC4*857	04/10/92	04/10/92	90.2	6.0	05/08/92	05/18/92	PW
SEL1608100C00L	WWC4*858	04/10/92	04/10/92	72.8	5.8	05/08/92	05/18/92	PW
SEL1608200A00L	WWC4*859	04/10/92	04/10/92	265	6.3	05/08/92	05/18/92	PW
SEL1608200B00L	WWC4*860	04/10/92	04/10/92	215	6.2	05/08/92	05/18/9[illegible]	[illegible]
SEL1608200C00L	WWC4*861	04/10/92	04/10/92	182	6.0	05/08/92	05/18/92	PW
SMA0907100A00L	WWC4*862	04/13/92	04/13/92	845	5.7	05/08/92	05/18/92	PW
SMA0907100B00L	WWC4*863	04/13/92	04/13/92	750	5.6	05/08/92	05/18/92	PW
SMA0907100C00L	WWC4*864	04/13/92	04/13/92	374	5.7	05/08/92	05/18/92	PW
SMA0907200A00L	WWC4*865	04/13/92	04/13/92	573	6.0	05/08/92	05/18/92	PW
SMA0907200B00L	WWC4*866	04/13/92	04/13/92	548	6.0	05/08/92	05/18/92	PW
SMA0907200C00L	WWC4*867	04/13/92	04/13/92	480	5.8	05/08/92	05/18/92	PW
SME0620100A00L	WWC4*868	04/13/92	04/13/92	116	5.5	05/08/92	05/18/92	[illegible]
SME0620100B00L	WWC4*869	04/13/92	04/13/92	93.5	5.4	05/08/92	05/18/92	PW
SME0620100C00L	WWC4*870	04/13/92	04/13/92	99.4	5.2	05/11/92	05/18/92	PW
SME0620200A00L	WWC4*871	04/13/92	04/13/92	417	5.1	05/11/92	05/18/92	PW
SME0620200B00L	WWC4*872	04/13/92	04/13/92	511	4.8	05/11/92	05/18/92	PW
SME0620200C00L	WWC4*873	04/13/92	04/13/92	161	5.4	05/11/92	05/18/92	PW
SME0606100A00L	WWC4*874	04/13/92	04/13/92	229	5.8	05/11/92	05/18/92	PW
SME0606100B00L	WWC4*875	04/13/92	04/13/92	240	6.0	05/11/92	05/18/92	PW
SME0606100C00L	WWC4*876	04/13/92	04/13/92	326	6.0	05/11/92	05/18/92	PW
SME0606200A00L	WWC4*877	04/13/92	04/13/92	246	5.8	05/11/92	05/18/92	PW
SME0606200B00L	WWC4*878	04/13/92	04/13/92	272	5.9	05/11/92	05/18/92	PW
SME0606200C00L	WWC4*879	04/13/92	04/13/92	280	6.1	05/11/92	05/18/92	PW
SME0616100A00L	WWC4*880	04/13/92	04/13/92	559	7.3	05/11/92	05/18/92	PW
SME0616100B00L	WWC4*881	04/13/92	04/13/92	415	5.6	05/11/92	05/18/92	PW
SME0616100C00L	WWC4*882	04/13/92	04/13/92	339	5.5	05/11/92	05/18/92	PW

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Resi

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE	CI II
SME0616200A00L	WWC4*883	04/13/92	04/13/92	637	5.0	05/11/92	05/18/92	I
SME0616200B00L	WWC4*884	04/13/92	04/13/92	578	5.5	05/11/92	05/18/92	I
SME0616200C00L	WWC4*885	04/13/92	04/13/92	619	5.9	05/11/92	05/18/92	I
SME0626100A00L	WWC4*886	04/13/92	04/13/92	165	5.5	05/11/92	05/18/92	I
SME0626100B00L	WWC4*887	04/13/92	04/13/92	258	5.7	05/11/92	05/18/92	I
SME0626100C00L	WWC4*888	04/13/92	04/13/92	235	5.6	05/11/92	05/18/92	I
SME0626200A00L	WWC4*889	04/13/92	04/13/92	536	5.5	05/11/92	05/18/92	I
SME0626200B00L	WWC4*890	04/13/92	04/13/92	375	5.6	05/11/92	05/18/92	I
SME0626200C00L	WWC4*891	04/13/92	04/13/92	262	5.5	05/11/92	05/18/92	I
SME0628100A00L	WWC4*892	04/13/92	04/13/92	232	5.7	05/11/92	05/18/92	I
SME0628100B00L	WWC4*893	04/13/92	04/13/92	218	5.8	05/11/92	05/18/92	I
SME0628100C00L	WWC4*894	04/13/92	04/13/92	251	5.6	05/11/92	05/18/92	I
SME0628200A00L	WWC4*895	04/13/92	04/13/92	312	5.7	05/11/92	05/18/92	I
SME0628200B00L	WWC4*896	04/13/92	04/13/92	284	5.6	05/11/92	05/18/92	I
SME0628200C00L	WWC4*897	04/13/92	04/13/92	211	6.1	05/11/92	05/18/92	I
SME0636100A00L	WWC4*898	04/13/92	04/13/92	232	5.6	05/11/92	05/18/92	I
SME0636100B00L	WWC4*899	04/13/92	04/13/92	179	5.8	05/11/92	05/18/92	I
SME0636100C00L	WWC4*900	04/13/92	04/13/92	189	6.1	05/11/92	05/18/92	I
SME0636200A00L	WWC4*901	04/13/92	04/13/92	125	5.6	05/11/92	05/18/92	I
SME0636200A00L	WWC4*902	04/13/92	04/13/92	296	5.7	05/11/92	05/18/92	I
SME0636200C00L	WWC4*903	04/13/92	04/13/92	273	5.8	05/11/92	05/18/92	I
SMA0917100A00L	WWC4*904	04/13/92	04/13/92	349	6.2	05/11/92	05/18/92	I
SMA0917100B00L	WWC4*905	04/13/92	04/13/92	204	5.6	05/11/92	05/18/92	I
SMA0917100C00L	WWC4*906	04/13/92	04/13/92	146	5.7	05/11/92	05/18/92	I
SMA0917200A00L	WWC4*907	04/13/92	04/13/92	527	5.0	05/11/92	05/18/92	I
SMA0917200B00L	WWC4*908	04/13/92	04/13/92	438	4.9	05/11/92	05/18/92	I
SMA0917200C00L	WWC4*909	04/13/92	04/13/92	231	5.2	05/11/92	05/18/92	I
SSA0609100A00L	WWC4*910	04/13/92	04/13/92	337	5.6	05/11/92	05/18/92	I
SSA0609100B00L	WWC4*911	04/13/92	04/13/92	387	5.6	05/11/92	05/18/92	I
SSA0609100C00L	WWC4*912	04/13/92	04/13/92	355	5.8	05/11/92	05/18/92	I
SSA0609200A00L	WWC4*913	04/13/92	04/13/92	313	5.8	05/11/92	05/18/92	I
SSA0609200B00L	WWC4*914	04/13/92	04/13/92	313	5.9	05/11/92	05/18/92	I
SSA0609200C00L	WWC4*915	04/13/92	04/13/92	384	5.8	05/11/92	05/18/92	I
SSA0615100A00L	WWC4*916	04/13/92	04/13/92	250	5.8	05/11/92	05/18/92	I
SSA0615100B00L	WWC4*917	04/13/92	04/13/92	243	5.6	05/11/92	05/18/92	I
SSA0615100C00L	WWC4*918	04/13/92	04/13/92	183	6.0	05/11/92	05/18/92	I
SSA0615200A00L	WWC4*919	04/13/92	04/13/92	1880	6.3	05/11/92	05/18/92	I
SSA0615200B00L	WWC4*920	04/13/92	04/13/92	1660	5.9	05/11/92	05/18/92	I
SSA0615200C00L	WWC4*921	04/13/92	04/13/92	2290	6.0	05/11/92	05/18/92	I
SSA0637100A00L	WWC4*922	04/13/92	04/13/92	237	5.5	05/11/92	05/18/92	I
SSA0637100B00L	WWC4*923	04/13/92	04/13/92	228	5.6	05/11/92	05/18/92	I
SSA0637100C00L	WWC4*924	04/13/92	04/13/92	256	5.7	05/11/92	05/18/92	I

Environmental Science & Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Results

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420		MDL	EXTRACT. DATE	ANALYSIS DATE	CHEM. INIT.
SA0637200A00L	WWC4*925	04/13/92	04/13/92	409		5.4	05/11/92	05/18/92	PW
SA0637200B00L	WWC4*926	04/13/92	04/13/92	386		5.8	05/11/92	05/18/92	PW
SA0637200C00L	WWC4*927	04/13/92	04/13/92	418		6.0	05/11/92	05/18/92	PW
SSA0633100A00L	WWC4*928	04/13/92	04/13/92	436		5.2	05/11/92	05/18/92	PW
SSA0633100B00L	WWC4*929	04/13/92	04/13/92	424		5.3	05/11/92	05/18/92	P
SA0633100C00L	WWC4*930	04/13/92	04/13/92	925		5.7	05/11/92	05/18/92	P
SA0633200A00L	WWC4*931	04/13/92	04/13/92	214		5.6	05/11/92	05/18/92	PW
SSA0633200B00L	WWC4*932	04/13/92	04/13/92	202		5.6	05/11/92	05/18/92	PW
SSA0633200C00L	WWC4*933	04/13/92	04/13/92	201		5.7	05/11/92	05/18/92	PW
DE1729100A00L	WWC4*934	04/14/92	04/14/92	739		5.7	05/11/92	05/18/92	PW
DE1729100B00L	WWC4*935	04/14/92	04/14/92	583		6.5	05/11/92	05/18/92	PW
DE1729100C00L	WWC4*936	04/14/92	04/14/92	256		5.7	05/11/92	05/18/92	PW
SDE1718100A00L	WWC4*937	04/14/92	04/14/92	1190		5.9	05/11/92	05/18/92	PW
SDE1718100B00L	WWC4*938	04/14/92	04/14/92	616		5.5	05/11/92	05/18/92	PW
DE1718100C00L	WWC4*939	04/14/92	04/14/92	254		6.1	05/11/92	05/18/92	PW
DE1718100A0LD	WWC4*940	04/14/92	04/14/92	5760	D	55.7	05/11/92	05/19/92	PW
SDE1718100B0LD	WWC4*941	04/14/92	04/14/92	787		5.6	05/11/92	05/18/92	PW
SDE1718100C0LD	WWC4*942	04/14/92	04/14/92	281		5.8	05/11/92	05/18/92	PW
DE1718200A00L	WWC4*943	04/14/92	04/14/92	1390		5.8	05/11/92	05/18/92	
DE1718200B00L	WWC4*944	04/14/92	04/14/92	1140		6.1	05/11/92	05/18/92	
DE1718200C00L	WWC4*945	04/14/92	04/14/92	902		6.0	05/11/92	05/18/92	
SDE2016100A00L	WWC4*946	04/14/92	04/14/92	321		5.7	05/11/92	05/18/92	PW
SDE2016100B00L	WWC4*947	04/14/92	04/14/92	196		5.8	05/11/92	05/18/92	PW
DE2016100C00L	WWC4*948	04/14/92	04/14/92	148		5.5	05/11/92	05/18/92	PW
DE2016100A0LD	WWC4*949	04/14/92	04/14/92	313		5.3	05/11/92	05/18/92	PW
SDE2016100B0LD	WWC4*950	04/14/92	04/14/92	254		5.5	05/11/92	05/18/92	PW
SDE2016100C0LD	WWC4*951	04/14/92	04/14/92	124		5.5	05/11/92	05/18/92	P
DE2016200A00L	WWC4*952	04/14/92	04/14/92	705		6.4	05/11/92	05/18/92	P
DE2016200B00L	WWC4*953	04/14/92	04/14/92	352		5.9	05/11/92	05/18/92	PW
DE2016200C00L	WWC4*954	04/14/92	04/14/92	102		6.0	05/11/92	05/18/92	PW
SDE2019100A00L	WWC4*955	04/14/92	04/14/92	616		6.0	05/11/92	05/18/92	PW
SDE2019100B00L	WWC4*956	04/14/92	04/14/92	283		5.5	05/11/92	05/18/92	PW
DE2019100C00L	WWC4*957	04/14/92	04/14/92	153		5.8	05/11/92	05/18/92	PW
DE2019200A00L	WWC4*958	04/14/92	04/14/92	503		5.9	05/11/92	05/18/92	PW
SDE2019200B00L	WWC4*959	04/14/92	04/14/92	345		6.0	05/11/92	05/18/92	PW
SDE2019200C00L	WWC4*960	04/14/92	04/14/92	185		5.5	05/11/92	05/18/92	PW
DE2209100A00L	WWC4*961	04/14/92	04/14/92	1300		6.1	05/11/92	05/18/92	PW
DE2209100B00L	WWC4*962	04/14/92	04/14/92	775		5.8	05/11/92	05/18/92	PW
DE2209100C00L	WWC4*963	04/14/92	04/14/92	209		6.2	05/11/92	05/18/92	PW
SDE2209100A0LD	WWC4*964	04/14/92	04/14/92	1100		5.9	05/11/92	05/18/92	PW
SDE2209100B0LD	WWC4*965	04/14/92	04/14/92	943		6.3	05/11/92	05/18/92	PW
DE2209100C0LD	WWC4*966	04/14/92	04/14/92	577		6.3	05/11/92	05/18/92	PW

D - Sample was diluted for this parameter

Environmental
Science &
Engineering, Inc.

St. Louis Chemistry Laboratory

11665 Lilburn Park Road
St. Louis, Missouri 63146-3535

Phone (314) 567-4600
Fax (314) 567-5030

Analytical Chemistry Res

STATUS: FINAL

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION, WWC89MC114V
PROJECT NUMBER: 5912031 0100
REPORT DATE: 06-23-92
SAMPLE MATRIX: SOIL
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
PROJECT MANAGER: JOHN F. GEMOULES
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	LABORATORY I.D.	COLLECTION DATE	RECEIVED DATE	LEAD(FAA), MG/KG-DRY METHOD: 3051/7420	MDL	EXTRACT. DATE	ANALYSIS DATE
SDE2209200A00L	WWC4*967	04/14/92	04/14/92	369	5.3	05/11/92	05/18/92
SDE2209200B00L	WWC4*968	04/14/92	04/14/92	290	5.3	05/11/92	05/18/92
SDE2209200C00L	WWC4*969	04/14/92	04/14/92	222	5.8	05/11/92	05/18/92
SDE2263100A00L	WWC4*970	04/14/92	04/14/92	636	5.5	05/12/92	05/18/92
SDE2263100B00L	WWC4*971	04/14/92	04/14/92	813	5.9	05/12/92	05/18/92
SDE2263100C00L	WWC4*972	04/14/92	04/14/92	470	5.9	05/12/92	05/18/92
SDE2263200A00L	WWC4*973	04/14/92	04/14/92	1130	5.9	05/12/92	05/18/92
SDE2263200B00L	WWC4*974	04/14/92	04/14/92	1350	6.1	05/12/92	05/18/92
SDE2263200C00L	WWC4*975	04/14/92	04/14/92	527	5.9	05/12/92	05/18/92
SDE2257100A00L	WWC4*976	04/14/92	04/14/92	449	5.6	05/12/92	05/18/92
SDE2257100B00L	WWC4*977	04/14/92	04/14/92	318	5.3	05/12/92	05/18/92
SDE2257100C00L	WWC4*978	04/14/92	04/14/92	193	5.6	05/12/92	05/18/92
SDE2257200A00L	WWC4*979	04/14/92	04/14/92	273	6.1	05/12/92	05/18/92
SDE2257200B00L	WWC4*980	04/14/92	04/14/92	246	5.7	05/12/92	05/18/92
SDE2257200C00L	WWC4*981	04/14/92	04/14/92	323	5.8	05/12/92	05/18/92
SDE2256100A00L	WWC4*982	04/14/92	04/14/92	895	5.7	05/12/92	05/18/92
SDE2256100B00L	WWC4*983	04/14/92	04/14/92	404	6.1	05/12/92	05/18/92
SDE2256100C00L	WWC4*984	04/14/92	04/14/92	263	5.8	05/12/92	05/18/92
SDE2256200A00L	WWC4*985	04/14/92	04/14/92	449	6.0	05/12/92	05/18/92
SDE2256200B00L	WWC4*986	04/14/92	04/14/92	159	5.5	05/12/92	05/18/92
SDE2256200C00L	WWC4*987	04/14/92	04/14/92	47.1	5.4	05/12/92	05/18/92
SDE2254100A00L	WWC4*988	04/14/92	04/14/92	196	5.9	05/12/92	05/18/92
SDE2254100B00L	WWC4*989	04/14/92	04/14/92	69.4	5.6	05/12/92	05/18/92
SDE2254100C00L	WWC4*990	04/14/92	04/14/92	508	5.5	05/12/92	05/18/92
STS1240100A00L	WWC4*991	04/14/92	04/14/92	285	5.7	05/12/92	05/18/92
STS1240100B00L	WWC4*992	04/14/92	04/14/92	319	5.8	05/12/92	05/18/92
STS1240100C00L	WWC4*993	04/14/92	04/14/92	144	5.6	05/12/92	05/18/92
SDE2124100A00L	WWC4*994	04/14/92	04/14/92	335	5.4	05/12/92	05/18/92
SDE2124100B00L	WWC4*995	04/14/92	04/14/92	273	5.5	05/12/92	05/18/92
SDE2124100C00L	WWC4*996	04/14/92	04/14/92	158	5.5	05/12/92	05/18/92
SDE2124100A0LD	WWC4*997	04/14/92	04/14/92	329	5.6	05/12/92	05/18/92
SDE2124100B0LD	WWC4*998	04/14/92	04/14/92	258	5.6	05/12/92	05/18/92
SDE2124100C0LD	WWC4*999	04/14/92	04/14/92	157	5.6	05/12/92	05/18/92

QC SUMMARY

LEGEND

STOR*METH - storet*method code. Used as a unique identification of the analytical parameter.

BATCH - analytical data batch identification.

DATE - analysis date.

FOUND (method blank) - quantitated concentration determined to be in the method blank.

FOUND (continuing calibration verification) - quantitated concentration determined to be in the CCV sample.

FOUND (standard matrix spike) - quantitated concentration determined to be in the standard matrix spike.

FOUND (sample matrix spike) - the difference in the quantitated concentration in the sample matrix spike and the UNSPIKED sample.

UNSPIKED (sample matrix spike) - quantitated concentration determined to be in the sample prior to spike fortification.

R.P.D. - replicate percent difference.

R.P.D. CRITERIA - R.P.D. not to be exceeded.

TARGET - the calculated concentration of the analyte in the spike or QC sample. The TARGET may vary from sample to sample based on sample weight, and moisture content. This concentration is the benchmark to which the FOUND concentrations are compared.

R.P.D.*1 - default reference when RPD cannot be calculated due to the spike sample I.D. used in the data batch.

JFG/pl/REPORT/WWC.LEG

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7339	MB*NONE*5	04/13/92	0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*1		0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.02	
LEAD(FAA)	MG/KG-DRY		S7340	MB*NONE*1	04/14/92	0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.06	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*7		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*8		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*9		0.02	
LEAD(FAA)	MG/KG-DRY		S7367	MB*NONE*1	04/15/92	0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.4	
LEAD(FAA)	MG/KG-DRY		S7522	MB*NONE*1	05/14/92	0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.08	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.02	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.07	
LEAD(FAA)	MG/KG-DRY		S7523	MB*NONE*1		0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.05	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.05	
LEAD(FAA)	MG/KG-DRY		S7524	MB*NONE*1	05/15/92	0.08	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.04	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.03	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.05	
LEAD(FAA)	MG/KG-DRY		S7526	MB*NONE*1		0.03	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.1	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.1	
LEAD(FAA)	MG/KG-DRY		S7531	MB*NONE*1	05/18/92	0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.2	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.5	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.5	
LEAD(FAA)	MG/KG-DRY			MB*NONE*5		0.4	
LEAD(FAA)	MG/KG-DRY			MB*NONE*6		0.3	
LEAD(FAA)	MG/KG-DRY		S7532	MB*NONE*1		0.3	
LEAD(FAA)	MG/KG-DRY			MB*NONE*2		0.03	
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.0	
LEAD(FAA)	MG/KG-DRY			MB*NONE*4		0.0	
L [illegible]AA)	MG/KG-DRY		S7534	MB*NONE*1	5/19/92	0.2	
L [illegible]AA)	MG/KG-DRY			MB*[illegible]NE*2		0.2	

Method Blank Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND	FOOTNOTE
LEAD(FAA)	MG/KG-DRY			MB*NONE*3		0.2	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7339	CCV*NONE*11	04/13/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*1		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7340	CCV*NONE*1	04/14/92	5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*18		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*19		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*20		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*21		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*22		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*23		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*24		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*25		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*26		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY		S7367	CCV*NONE*1	04/15/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.3	106	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7522	CCV*NONE*1	05/14/92	5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY		S7523	CCV*NONE*1		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE* 3		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.5	110	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE* 10		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE* 15		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7524	CCV*NONE*1	05/15/92	5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
[illegible] FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.1	102	75-125	
[illegible] AA)	MG/KG-DRY			CCV*NONE*12		5.0	5.1	102	75-125	
[illegible](FAA)	MG/KG-DRY			[illegible]NE*13		5.0	5.1	[illegible]2	75-125	

Continuing Calibration Verification Sample Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	FOOTNOTE
LEAD(FAA)	MG/KG-DRY		S7524	CCV*NONE*14	05/15/92	5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY		S7526	CCV*NONE*1		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.3	106	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7526	CCV*NONE*9	05/15/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7531	CCV*NONE*1	05/18/92	5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*11		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*12		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*13		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*14		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*15		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*16		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*17		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY		S7532	CCV*NONE*1		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	4.9	98.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*10		5.0	4.8	96.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7534	CCV*NONE*1	05/19/92	5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*2		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*3		5.0	5.4	108	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*4		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*5		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*6		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*7		5.0	5.1	102	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.0	100.0	75-125	
LEAD(FAA)	MG/KG-DRY		S7863	CCV*NONE*1	06/19/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY		S7870	CCV*NONE*7	05/11/92	5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*8		5.0	5.2	104	75-125	
LEAD(FAA)	MG/KG-DRY			CCV*NONE*9		5.0	5.2	104	75-125	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7339	SP*NONE*5	04/13/92	5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.4	108	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*1		5.0	5.3	105	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.0	100.0	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7340	SP*NONE*1	04/14/92	5.0	4.7	94.8	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.1	103	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.1	102	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.3	105	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*7		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*8		5.0	5.5	112	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*9		5.0	5.4	108	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7367	SP*NONE*1	04/15/92	5.0	4.7	93.4	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.2	103	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.3	105	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.2	105	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7522	SP*NONE*1	05/14/92	5.0	5.1	101	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.4	108	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.5	111	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.3	106	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.3	106	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.3	107	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7523	SP*NONE*1		5.0	5.3	105	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.5	109	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.2	104	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.3	107	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.2	103	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7524	SP*NONE*1	05/15/92	5.0	5.5	110	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	4.9	97.2	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.1	103	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.4	107	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	2.6	53.2	75-125	RPD*1	20	(1)
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.4	107	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7526	SP*NONE*1		5.0	5.4	107	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.3	105	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.3	106	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.4	108	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7531	SP*NONE*1	05/18/92	5.0	5.2	104	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.3	106	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	4.9	97.2	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.1	101	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*5		5.0	5.1	102	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*6		5.0	5.2	103	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY		S7532	SP*NONE*1		5.0	5.1	103	75-125		20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*2		5.0	5.5	109	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.4	110	75-125	RPD*1	20	
LEAD(FAA)	MG/KG-DRY			SP*NONE*4		5.0	5.2	106	75-125	RPD*1	20	
L[illegible] AA)	MG/KG-DRY		S7534	SP*NONE*1	[illegible]/19/92	5.0	5.2	104	75-125		20	
L[illegible] AA)	MG/KG-DRY			SP*[illegible]NE*2		5.0	5.5	[illegible]0	75-125	RPD*1	20	

Standard Matrix Spike Recovery and Replicate Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY			SP*NONE*3		5.0	5.2	104	75-125	RPD*1	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7339	SPM1*WAC4*80	04/13/92	654	862	132	75-125	608		20	(2)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*80		617	972	158	75-125	608	17.9	20	(2)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*100		619	2020	326	75-125	850		20	(2)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*100		594	610	103	75-125	850	104	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC3*978		597	615	103	75-125	665		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC3*978		631	615	97.4	75-125	665	5.6	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*20		592	559	94.5	75-125	187		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*20		593	568	95.8	75-125	187	1.5	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*40		590	650	110	75-125	210		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*40		581	723	124	75-125	210	12.0	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*60		573	654	114	75-125	246		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*60		573	684	119	75-125	246	4.3	20	
LEAD(FAA)	MG/KG-DRY		S7340	SPM1*WAC4*120	04/14/92	596	627	105	75-125	352		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*120		565	533	94.4	75-125	352	10.6	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*140		568	501	88.2	75-125	669		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*140		592	471	79.6	75-125	669	10.3	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*160		589	594	101	75-125	756		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*160		597	584	97.9	75-125	756	3.1	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*180		617	649	105	75-125	148		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*180		620	634	102	75-125	148	2.9	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*200		606	579	95.5	75-125	491		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*200		589	59.0	10.0	75-125	491	162	20	(2)
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*220		632	657	104	75-125	393		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*220		654	687	105	75-125	393	1.0	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*240		550	496	90.1	75-125	139		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*240		594	678	114	75-125	139	23.3	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*260		588	561	95.4	75-125	709		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*260		580	551	95.1	75-125	709	0.3	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*280		579	879	152	75-125	401		20	(2)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*280		591	709	120	75-125	401	23.5	20	
LEAD(FAA)	MG/KG-DRY		S7367	SPM1*WAC4*300	04/15/92	554	607	109	75-125	220		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*300		573	613	107	75-125	220	2.8	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*320		581	591	102	75-125	314		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*320		618	631	102	75-125	314	0.0	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*340		585	785	134	75-125	635		20	(2)
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*340		608	625	103	75-125	635	26.2	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*360		592	648	109	75-125	352		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*360		611	621	102	75-125	352	6.6	20	
LEAD(FAA)	MG/KG-DRY			SPM1*WAC4*374		631	509	80.6	75-125	861		20	
LEAD(FAA)	MG/KG-DRY			SPM2*WAC4*374		599	499	83.3	75-125	861	3.2	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY		S7522	SPN1*WAC4*394	05/14/92	589	726	123	75-125	604		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*394		576	726	126	75-125	604	2.4	20	(3)
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*414		617	702	114	75-125	97.1		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*414		595	657	110	75-125	97.1	3.6	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*434		605	690	114	75-125	730		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*434		618	700	113	75-125	730	0.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*454		577	635	110	75-125	485		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*454		601	615	102	75-125	485	7.5	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*474		584	507	86.8	75-125	271		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*474		585	592	101	75-125	271	15.1	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*494		559	502	89.9	75-125	327		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*494		581	637	110	75-125	327	20.2	20	
LEAD(FAA)	MG/KG-DRY		S7523	SPN1*WAC4*514		581	645	111	75-125	365		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*514		561	655	117	75-125	365	5.3	20	
LEAD(FAA)	MG/KG-DRY	1051*SFAAS	S7523	SPN1*WAC4*574	05/14/92	616	662	107	75-125	304		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*574		612	676	111	75-125	304	3.7	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*534		567	607	107	75-125	160		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*534		545	595	105	75-125	160	1.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*594		585	729	125	75-125	281		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*594		590	638	108	75-125	281	14.6	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*614		589	692	117	75-125	271		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*614		606	739	122	75-125	271	4.2	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*554		567	616	109	75-125	282		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*554		567	694	122	75-125	282	11.3	20	
LEAD(FAA)	MG/KG-DRY		S7524	SPN1*WAC4*634	05/15/92	575	634	110	75-125	297		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*634		600	652	109	75-125	297	0.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*654		533	627	118	75-125	173		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*654		531	606	114	75-125	173	3.4	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*671		567	726	128	75-125	304		20	(3)
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*671		593	796	134	75-125	304	4.6	20	(3)
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*691		582	1030	177	75-125	250		20	(3)
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*691		614	1080	176	75-125	250	0.6	20	(3)
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*710		558	580	104	75-125	271		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*710		597	606	102	75-125	271	1.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*730		549	531	96.7	75-125	366		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*730		568	561	98.7	75-125	366	2.0	20	
LEAD(FAA)	MG/KG-DRY		S7526	SPN1*WAC4*750		555	592	107	75-125	205		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*750		572	636	111	75-125	205	3.7	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*770		564	632	112	75-125	46.1		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*770		544	607	111	75-125	46.1	0.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*790		568	639	112	75-125	541		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*790		606	599	98.9	75-125	541	13.3	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WAC4*809		595	808	136	75-125	170		20	(3)
LEAD(FAA)	MG/KG-DRY			SPN2*WAC4*809		564	645	114	75-125	170	17.6	20	

Sample Matrix Spike Recovery Summary

NAME	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.	FOOTNOTE
LEAD(FAA)	MG/KG-DRY		S7531	SPN1*WC4*829	05/18/92	642	709	110	75-125	130		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*829		644	711	110	75-125	130	0.0	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*849		584	631	108	75-125	64.9		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*849		574	642	112	75-125	64.9	3.6	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*869		531	577	109	75-125	93.5		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*869		548	591	108	75-125	93.5	0.9	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*889		557	474	85.1	75-125	536		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*889		592	464	78.3	75-125	536	8.3	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*909		517	600	116	75-125	231		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*909		534	605	113	75-125	231	2.6	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*929		518	541	104	75-125	424		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*929		529	572	108	75-125	424	3.8	20	
LEAD(FAA)	MG/KG-DRY		S7532	SPN1*WC4*949		555	22.0	4.0	75-125	313		20	(1)
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*949		527	577	110	75-125	313	186	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*969		560	642	115	75-125	222		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*969		538	549	102	75-125	222	12.0	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC4*989		588	700	119	75-125	69.4		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC4*989		569	614	108	75-125	69.4	9.7	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC5*10		538	583	108	75-125	537		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC5*10		512	493	96.3	75-125	537	11.5	20	
LEAD(FAA)	MG/KG-DRY		S7534	SPN1*WC5*30	05/19/92	593	647	109	75-125	199		20	
LEAD(FAA)	MG/KG-DRY			SPN2*WC5*30		574	593	103	75-125	199	5.7	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC5*50		568	780	137	75-125	1400		20	(2)
LEAD(FAA)	MG/KG-DRY			SPN2*WC5*50		593	630	106	75-125	1400	25.5	20	
LEAD(FAA)	MG/KG-DRY			SPN1*WC5*70		495	881	178	75-125	189		20	(3)
LEAD(FAA)	MG/KG-DRY			SPN2*WC5*70		536	981	183	75-125	189	2.8	20	(3)

(1)- Spiking error suspected; no impact on sample data.
(2)- No action necessary; sample inhomogeneity.
(3)- No action necessary; sample matrix interference

CHAIN OF CUSTODY

WWC14 - 200 - 273

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 7

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/31/92	832	S	MCLLLS	1	00A	00L	1	✓			
	834	S	MCLLLS	1	00B	00L	1	✓			
	836	S	MCLLLS	1	00C	00L	1	✓			
	839	S	MCLLLS	2	00A	00L	1	✓			
	841	S	MCLLLS	2	00B	00L	1	✓			
	843	S	MCLLLS	2	00C	00L	1	✓			
	853	S	MCLLLL	1	00A	00L	1	✓			
	855	S	MCLLLL	1	00B	00L	1	✓			
	857	S	MCLLLL	1	00C	00L	1	✓			
	900	S	MCLLLL	2	00A	00L	1	✓			
	903	S	MCLLLL	2	00B	00L	1	✓			
	905	S	MCLLLL	2	00C	00L	1	✓			
	915	S	MCLLOS	1	00A	00L	1	✓			
	917	S	MCLLOS	1	00B	00L	1	✓			
	919	S	MCLLOS	1	00C	00L	1	✓			
	921	S	MCLLOS	2	00A	00L	1	✓			
	925	S	MCLLOS	2	00B	00L	1	✓			
	927	S	MCLLOS	2	00C	00L	1	✓			
	942	S	MCLLO3	1	00A	00L	1	✓			
	944	S	MCLLO3	1	00B	00L	1	✓			
	946	S	MCLLO3	1	00C	00L	1	✓			
	948	S	MCLLO3	2	00A	00L	1	✓			
	950	S	MCLLO3	2	00B	00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Parker	3/31/92 16:15	[illegible]	3/31 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/31 1650	[illegible] 3-31-92	1650

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WW-7

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 2 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

	DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
2.1	3/31/92	952	S	MC1103	2	00C	00L	1	✓			
232		1028	S	GW0916	1	00A	00L	1	✓			
2.3		1030	S	GW0916	1	00B	00L	1	✓			
234		1032	S	GW0916	1	00C	00L	1	✓			
235		1035	S	GW0916	2	00A	00L	1	✓			
[illegible]		1037	S	GW0916	2	00B	00L	1	✓			
237		1039	S	GW0916	2	00C	00L	1	✓			
[illegible]		1101	S	GW1028	1	00A	00L	1	✓			
234		1103	S	GW1028	1	00B	00L	1	✓			
[illegible]		1105	S	GW1028	1	00C	00L	1	✓			
241		1111	S	GW1028	2	00A	00L	1	✓			
242		1113	S	GW1028	2	00B	00L	1	✓			
243		1115	S	GW1028	2	00C	00L	1	✓			
244		1125	S	GW1012	1	00A	00L	1	✓			
245		1127	S	GW1012	1	00B	00L	1	✓			
246		1129	S	GW1012	1	00C	00L	1	✓			
			~~S~~	~~GW1012~~	~~2~~	~~00A~~	~~00L~~	~~1~~	~~✓~~			~~XR~~
			~~S~~	~~GW1012~~	~~2~~	~~00B~~	~~00L~~	~~1~~	~~✓~~			~~XR~~
			~~S~~	~~GW1012~~	~~2~~	~~00C~~	~~00L~~	~~1~~	~~✓~~			~~XR~~
247		1137	S	GW1015	1	00A	00L	1	✓			
248		1139	S	GW1015	1	00B	00L	1	✓			
249		1141	S	GW1015	1	00C	00L	1	✓			
			~~S~~									~~XR~~

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	3/31/92 16:15	[signature]	3/31 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/31 1650	[signature] /892 / ESE	3-31-92 1650
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

WWC 4

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 3 of 4

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [illegible]

DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
3/30	1143	S GW1015 2 00A00L	1	✓			
251 92	1145	S GW1015 2 00B00L	1	✓			
252	1147	S GW1015 2 00C00L	1	✓			
253	1152	S GW1020 1 00A00L	1	✓			
254	1154	S GW1020 1 00B00L	1	✓			
255	1156	S GW1020 1 00C00L	1	✓			
256	1159	S GW1020 2 00A00L	1	✓			
257	1200	S GW1020 2 00B00L	1	✓			
258	1203	S GW1020 2 00C00L	1	✓			
259	1404	S GW1012 2 00A00L	1	✓			
260	1406	S GW1012 2 00B00L	1	✓			
261	1408	S GW1012 2 00C00L	1	✓			
262	1420	S GW1034 1 00A00L	1	✓			
263	1422	S GW1034 1 00B00L	1	✓			
264	1424	S GW1034 1 00C00L	1	✓			
265	1435	S GW1026 1 00A00L	1	✓			
266	1437	S GW1026 1 00B00L	1	✓			
267	1439	S GW1026 1 00C00L	1	✓			
268	1442	S GW1026 2 00A00L	1	✓			
269	1444	S GW1026 2 00B00L	1	✓			
270	1446	S GW1026 2 00C00L	1	✓			
271	1502	S FD0823 2 00A00L	1	✓			
272	1504	S FD0823 2 00B00L	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Porella	3/31/92 16:15	[illegible]	3/31 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	3/31 1650	[illegible]	3/31/92 16

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)

WU #4

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 4 of 4

PROJECT NO.:	PROJECT NAME:
89MC114V	NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures) [signature]

DATE	TIME	SAMPLE I.D. NUMBER: Matrix	Location	Boring	Depth	Sample Type	NO. OF CONTAINERS	CONTAINER DESCRIPTION/ ANALYSES REQUESTED: Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
273 3/31/92	1500	S	I00823	2	00C	00L	1	✓			
		S	I00823	2	00A	00L	1	✓			KA
		S	I00825	2	00A	00L	1	✓			KA
		S	I00825	2	00C	00L	1	✓			KA
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									
		S									

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Cynthia Rosella	3/31/92 16:15	[signature]	3/31 1615
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[signature]	3/31 1650	[signature] / ESE	3-31-92 1650
METHOD OF SHIPMENT:		AIRBILL NO: (If Applicable)	

COOLER/SAMPLE RECEIPT FORM

Rev.01 10/7/91

WWC4-208-273

ESE Cooler # ✓ 176
Client Cooler # _____
No Cooler _____

Project: Woodward Clyde Date/Time Received: 3-31-92 1650

USE OTHER SIDE OF THIS FORM TO NOTE FURTHER DETAILS CONCERNING CHECK-IN PROBLEMS AND TO SPECIFY AND DESCRIBE ANY ACTION(S) REGARDING THE RESOLUTION(S) OF PROBLEMS. IF SHIPMENT WAS ACCEPTED AND IF REQUESTED, NOTE ON BACK THE ADDRESS WHERE THE EMPTY COOLER WAS RETURNED AND LIKEWISE IF THE SHIPMENT WAS REJECTED.

IF INFORMATION IS MISSING OR THERE ARE PROBLEMS NOTIFY LABORATORY PROJECT MANAGER SO THAT HE CAN NOTIFY THE PROJECT MANAGER IMMEDIATELY.

A. PRELIMINARY EXAMINATION PHASE: Date/Time cooler/sample was opened and checked: 4-2-92 730

by (print) Carol Cash (sign) Carol Cash

1. List courier delivering samples . . . . . Client . . . . . YES NO
2. Did cooler come with a shipping slip (air bill, etc.)? . . . . . YES (NO)
   If YES, attach and enter carrier and air bill number here: _____
3. Were custody seals on outside of cooler? . . . . . (YES) NO
   If YES, how many and where: 2 on front
   If YES, enter the following: seal date: 3-31-92, seal name: Eric Page
4. Were custody seals unbroken and intact at the date and time of arrival? . . . . . (YES) NO
5. Was chain-of-custody provided? . . . . . (YES) NO
6. Were custody papers sealed in a Ziplec™ bag and taped inside to the lid? . . . . . (YES) NO
7. Were entries on custody papers completed? (YES) NO . If no, give details on back
8. Turnaround time included? . . . . . YES (NO)
9. Did you sign custody papers in the appropriate place? . . . . . (YES) NO
10. Was project identifiable from custody papers? If YES, enter project name at the top of this form. . (YES) NO

B. SAMPLE CHECK-IN PHASE: Date samples were checked-in: 4-2-92 by (all those involved must sign below):

(print) Carol Cash (sign) Carol Cash

11. Describe packing: Samples in Cooler with ice
*12. If required, was enough ice used? (temperature maintained correctly)? . . . . . (YES) NO
13. Were all bottles sealed in separate plastic bags? . . . . . YES (NO)
*14. Did all bottles arrive unbroken and in good condition? . . . . . (YES) NO
15. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . (YES) NO
16. Did all bottle labels agree with custody papers? If NO, indicate discrepancies on back. . . . . (YES) NO
17. Were correct containers used for the tests indicated? . . . . . (YES) NO
*18. Were correct preservatives used when required? . . . . . (YES) NO
*19. pH of samples maintained correctly as required? If NO, list by ID# _____ . (YES) NO
20. Was a sufficient amount of sample sent for tests indicated? . . . . . (YES) NO
*21. Bubbles present in VOA vials? If YES, list by ID#: NA . YES NO
22. Was lab. project manager called and status discussed? If YES, give details on the back of this form. YES NO
23. Who was called? _____ By whom? _____ on (date) _____
24. Second Party Review: _____

* Sample rejection criteria

W:\WP\CHEMCOM\CRF.01

WWC4 - 274 - 560

CHAIN OF CUSTODY RECORD

WOODWARD-CLYDE CONSULTANTS
2318 MILLPARK DR.
MARYLAND HEIGHTS, MISSOURI 63043
314-429-0100

SHEET 1 of 5

PROJECT NO.: 89MC114V

PROJECT NAME: NL/TARACORP SUPERFUND SITE PREDESIGN FIELD INVESTIGATION

SAMPLER'S: (Signatures)

DATE	TIME	SAMPLE I.D. NUMBER (Matrix, Location, Boring, Depth, Sample Type)	NO. OF CONTAINERS	Total Lead 4oz. poly jar Cool to 4°C	TCLP - Lead 4oz. poly jar Cool to 4°C	Geotechnical glass or poly jar	REMARKS
4/1	822	S ED2223 1 02A 02L ✓	1	✓			
	824	S ED2223 1 02B 02L ✓	1	✓			
	826	S ED2223 1 02C 02L ✓	1	✓			
	831	S ED2223 2 02A 02L ✓	1	✓			
	833	S ED2223 2 02B 02L ✓	1	✓			
	835	S ED2223 2 02C 02L ✓	1	✓			
	822	S ED2223 1 02A 02LD ✓	1	✓			
	824	S ED2223 1 02B 02LD ✓	1	✓			
	826	S ED2223 1 02C 02LD ✓	1	✓			
	850	S ED2227 1 02A 02L ✓	1	✓			
	852	S ED2227 1 02B 02L ✓	1	✓			
	854	S ED2227 1 02C 02L ✓	1	✓			
	857	S ED2227 2 02A 02L ✓	1	✓			
	859	S ED2227 2 02B 02L ✓	1	✓			
	901	S ED2227 2 02C 02L ✓	1	✓			
	909	S ED2212 1 02A 02L ✓	1	✓			
	911	S ED2212 1 02B 02L ✓	1	✓			
	913	S ED2212 1 02C 02L ✓	1	✓			
	915	S ED2212 2 02A 02L ✓	1	✓			
	917	S ED2212 2 02B 02L ✓	1	✓			
	919	S ED2212 2 02C 02L ✓	1	✓			
	907	S ED2212 1 02A 02LD ✓	1	✓			
	911	S ED2212 1 02B 02LD ✓	1	✓			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[illegible]	4/1/92 1600	[illegible]	4/1 1600
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED AT LAB BY: (Signature)	DATE / TIME
[illegible]	4/1 1630	Carol Cash	4/1 1630

METHOD OF SHIPMENT:

AIRBILL NO: (If Applicable)