Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-05(0-1) 0 - 1 06/22/05	OU4-SS-09-05(1-6) 1 - 6 06/08/05	OU4-SS-09-05(6-12) 6 - 12 06/22/05	OU4-SS-09-06(0-1) 0 - 1 06/22/05	OU4-SS-09-06(1-6) 1 - 6 06/22/05	OU4-SS-09-06(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.6 [16.0]	54.6	7.07	10.3 U	16.1	10.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	10800	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	6.60 U	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	31.6	NA	NA	NA	NA
Barium	55000	mg/kg	NA	2490	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	1.07	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	23.0	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	11300	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	17.4	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	7.12	NA	NA	NA	NA
Copper	31000	mg/kg	NA	121 J	NA	NA	NA	NA
Iron	230000	mg/kg	NA	27800	NA	NA	NA	NA
Lead	1200	mg/kg	NA	609	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	4100	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	893	NA	NA	NA	NA
Mercury	78	mg/kg	NA	0.456	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	19.4	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	2210	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA	NA	NA
Silver	3900	mg/kg	NA	2.95	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	256 J	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	1.52	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	25.6	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	4750	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-07(0-1) 0 - 1 06/08/05	OU4-SS-09-07(1-6) 1 - 6 06/08/05	OU4-SS-09-07(6-12) 6 - 12 06/22/05	OU4-SS-09-08(0-1) 0 - 1 06/22/05	OU4-SS-09-08(1-6) 1 - 6 06/22/05	OU4-SS-09-08(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	50.5	69.2	8.59	10.5	20.2	12.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	25.8	40.7	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-09(0-1) 0 - 1 06/22/05	OU4-SS-09-09(1-6) 1 - 6 06/22/05	OU4-SS-09-09(6-12) 6 - 12 06/22/05	OU4-SS-09-10(0-1) 0 - 1 06/22/05	OU4-SS-09-10(1-6) 1 - 6 06/22/05	OU4-SS-09-10(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1 U	22.5	15.0	10.2	20.7 [11.9 U]	10.1
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-11(0-1) 0 - 1 06/22/05	OU4-SS-09-11(1-6) 1 - 6 06/22/05	OU4-SS-09-11(6-12) 6 - 12 06/22/05	OU4-SS-09-12(0-1) 0 - 1 06/22/05	OU4-SS-09-12(1-6) 1 - 6 06/22/05	OU4-SS-09-12(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.0	14.1	9.32 U	15.6 U	25.2	16.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-13(0-1) 0 - 1 06/22/05	OU4-SS-09-13(1-6) 1 - 6 06/22/05	OU4-SS-09-13(6-12) 6 - 12 06/22/05	OU4-SS-09-14(0-1) 0 - 1 06/22/05	OU4-SS-09-14(1-6) 1 - 6 06/22/05	OU4-SS-09-14(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	7.19 U	20.8	10.5	11.3	27.0	10.6
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-15(0-1) 0 - 1 06/22/05	OU4-SS-09-15(1-6) 1 - 6 06/22/05	OU4-SS-09-15(6-12) 6 - 12 06/22/05	OU4-SS-09-16(0-1) 0 - 1 06/22/05	OU4-SS-09-16(1-6) 1 - 6 06/22/05	OU4-SS-09-17(0-1) 0 - 1 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.35	22.8 [17.6]	9.89	8.07	8.02	18.8
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-17(1-6) 1 - 6 06/22/05	OU4-SS-09-18(0-1) 0 - 1 06/22/05	OU4-SS-09-18(1-6) 1 - 6 06/22/05	OU4-SS-09-19(0-1) 0 - 1 06/22/05	OU4-SS-09-19(1-6) 1 - 6 06/22/05	OU4-SS-09-20(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.16 U	9.76	18.0	18.1	13.7	23.3
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-21(1-6) 1 - 6 06/22/05	OU4-SS-09-22(1-6) 1 - 6 06/22/05	OU4-SS-09-23(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	11.2	12.0 U	31.7 [29.4]
Metals (USEPA SW-846 6000/7000)					
Aluminum	- -	mg/kg	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detectior
[ ] = Field Duplicate

Non-responsive

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-COMP1(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP1(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP1(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP1(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.9 J	18.5 J	4.60 U	6.06
Barium	55000	mg/kg	1110 J	940 J	239 UJ	243 U
Cadmium	390	mg/kg	39.8	62.3	34.4 U	34.5 U
Chromium	3900	mg/kg	118 U	112 U	90.4 U	91.2 U
Cobalt	47000	mg/kg	122 U	113 U	81.2 U	79.6 U
Copper	31000	mg/kg	34.8 J	38.4 J	11.6 U	11.3 U
Iron	230000	mg/kg	23200 U	22600 U	11800 U	11600
Lead	1200	mg/kg	470 J	354 J	24.6 U	10.8
Manganese	18000	mg/kg	939 J	1050 J	724 UJ	475
Mercury	78	mg/kg	11.1 UJ	10.4 UJ	6.83 UJ	6.86 U
Nickel	16000	mg/kg	31.4 J	23.2 U	19.6 U	18.8 U
Selenium	3900	mg/kg	3.24 U	2.98 U	2.28 U	2.15 U
Silver	3900	mg/kg	27.2 UJ	25.1 UJ	24.0 UJ	23.9 U
Zinc	230000	mg/kg	3960	3880	376	41.0
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	6550	NA	NA	NA
Antimony	- -	mg/kg	6.61 U	NA	NA	NA
Arsenic	43	mg/kg	13.9	NA	NA	NA
Barium	55000	mg/kg	1500 J	NA	NA	NA
Beryllium	- -	mg/kg	0.522	NA	NA	NA
Cadmium	390	mg/kg	30.2	NA	NA	NA
Calcium	- -	mg/kg	3940	NA	NA	NA
Chromium	3900	mg/kg	13.1	NA	NA	NA
Cobalt	47000	mg/kg	6.20	NA	NA	NA
Copper	31000	mg/kg	43.5	NA	NA	NA
Iron	230000	mg/kg	16900	NA	NA	NA
Lead	1200	mg/kg	400	NA	NA	NA
Magnesium	- -	mg/kg	1630	NA	NA	NA
Manganese	18000	mg/kg	829	NA	NA	NA
Mercury	78	mg/kg	0.0933 J	NA	NA	NA
Nickel	16000	mg/kg	12.9	NA	NA	NA
Potassium	- -	mg/kg	970	NA	NA	NA
Selenium	3900	mg/kg	1.10 U	NA	NA	NA
Silver	3900	mg/kg	0.793 B	NA	NA	NA
Sodium	- -	mg/kg	44.0 B	NA	NA	NA
Thallium	- -	mg/kg	1.10 U	NA	NA	NA
Vanadium	- -	mg/kg	20.1	NA	NA	NA
Zinc	230000	mg/kg	2710	NA	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-COMP2(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP2(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP2(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP2(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	31.4 J	26.9 J	10.3 J	4.74 U
Barium	55000	mg/kg	918 J	1310 J	309 J	232 UJ
Cadmium	390	mg/kg	67.3	98.9	42.1	34.1 U
Chromium	3900	mg/kg	110 U	119 U	92.0 U	84.8 U
Cobalt	47000	mg/kg	106 U	112 U	91.2 U	79.7 U
Copper	31000	mg/kg	46.8 J	71.3 J	12.8 U	11.2 U
Iron	230000	mg/kg	18700 U	19700 U	15200 U	11200 U
Lead	1200	mg/kg	560 J	566 J	135 J	27.9 U
Manganese	18000	mg/kg	719 UJ	713 UJ	739 UJ	434 UJ
Mercury	78	mg/kg	10.5 UJ	11.7 UJ	8.26 UJ	7.06 UJ
Nickel	16000	mg/kg	22.8 U	24.8 U	19.9 U	18.4 U
Selenium	3900	mg/kg	3.13 U	3.30 U	2.46 U	2.29 U
Silver	3900	mg/kg	25.1 UJ	27.3 UJ	24.0 UJ	23.7 UJ
Zinc	230000	mg/kg	3740	3920	1830	577
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	7270	NA	NA
Antimony	- -	mg/kg	NA	6.59 U	NA	NA
Arsenic	43	mg/kg	NA	14.8	NA	NA
Barium	55000	mg/kg	NA	1950 J	NA	NA
Beryllium	- -	mg/kg	NA	0.733	NA	NA
Cadmium	390	mg/kg	NA	61.5	NA	NA
Calcium	- -	mg/kg	NA	6070	NA	NA
Chromium	3900	mg/kg	NA	12.5	NA	NA
Cobalt	47000	mg/kg	NA	6.53	NA	NA
Copper	31000	mg/kg	NA	66.7	NA	NA
Iron	230000	mg/kg	NA	16800	NA	NA
Lead	1200	mg/kg	NA	609	NA	NA
Magnesium	- -	mg/kg	NA	2060	NA	NA
Manganese	18000	mg/kg	NA	738	NA	NA
Mercury	78	mg/kg	NA	0.379 J	NA	NA
Nickel	16000	mg/kg	NA	13.2	NA	NA
Potassium	- -	mg/kg	NA	1060	NA	NA
Selenium	3900	mg/kg	NA	1.35	NA	NA
Silver	3900	mg/kg	NA	1.25 B	NA	NA
Sodium	- -	mg/kg	NA	110 U	NA	NA
Thallium	- -	mg/kg	NA	1.10 U	NA	NA
Vanadium	- -	mg/kg	NA	20.9	NA	NA
Zinc	230000	mg/kg	NA	3230	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-COMP3(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP3(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP3(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP3(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.2 J	13.6 U	8.85 U	4.09 U
Barium	55000	mg/kg	362 J	754 J	313 J	225 UJ
Cadmium	390	mg/kg	45.2	48.6	35.5 U	34.5 U
Chromium	3900	mg/kg	96.2 U	104 U	98.0 U	88.7 U
Cobalt	47000	mg/kg	100 U	104 U	89.7 U	77.7 U
Copper	31000	mg/kg	36.9 J	38.1 J	12.2 U	11.1 U
Iron	230000	mg/kg	18500 U	19200 U	13200 U	10600 U
Lead	1200	mg/kg	233	428	156	13.6 U
Manganese	18000	mg/kg	505 UJ	810 J	745 UJ	458 UJ
Mercury	78	mg/kg	7.99 J	10.3 UJ	8.04 UJ	7.03 UJ
Nickel	16000	mg/kg	22.7 JQ	22.3 U	21.3 U	18.5 U
Selenium	3900	mg/kg	2.46 U	2.91 U	2.59 U	2.19 U
Silver	3900	mg/kg	23.6 UJ	24.5 UJ	24.9 UJ	23.9 UJ
Zinc	230000	mg/kg	1450	3620	1450	227
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-01(0-1) 0 - 1 06/22/05	OU4-SS-10-01(1-6) 1 - 6 06/22/05	OU4-SS-10-02(0-1) 0 - 1 06/22/05	OU4-SS-10-02(1-6) 1 - 6 06/22/05	OU4-SS-10-03(0-1) 0 - 1 06/22/05	OU4-SS-10-03(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.0 U	14.5	17.5	21.4	19.7	24.1
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-04(0-1) 0 - 1 06/22/05	OU4-SS-10-04(1-6) 1 - 6 06/22/05	OU4-SS-10-05(0-1) 0 - 1 06/22/05	OU4-SS-10-05(1-6) 1 - 6 06/22/05	OU4-SS-10-06(0-1) 0 - 1 06/22/05	OU4-SS-10-06(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.1	15.8	14.1	16.6	33.0	19.9
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-07(0-1) 0 - 1 06/22/05	OU4-SS-10-07(1-6) 1 - 6 06/22/05	OU4-SS-10-08(0-1) 0 - 1 06/22/05	OU4-SS-10-08(1-6) 1 - 6 06/22/05	OU4-SS-10-09(0-1) 0 - 1 06/14/05	OU4-SS-10-09(1-6) 1 - 6 06/14/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.7	28.7	40.2	13.8 U	6.76 U	7.79 U
Barium	55000	mg/kg	NA	NA	NA	NA	284 UJ	371 J
Cadmium	390	mg/kg	NA	NA	NA	NA	38.0 U	34.1 U
Chromium	3900	mg/kg	NA	NA	NA	NA	113 U	93.7 U
Cobalt	47000	mg/kg	NA	NA	NA	NA	119 U	86.6 U
Copper	31000	mg/kg	NA	NA	NA	NA	33.6 J	16.8 J
Iron	230000	mg/kg	NA	NA	NA	NA	20400 U	13700 U
Lead	1200	mg/kg	NA	NA	NA	NA	62.8	128
Manganese	18000	mg/kg	NA	NA	NA	NA	336 UJ	506 UJ
Mercury	78	mg/kg	NA	NA	NA	NA	8.33 UJ	8.40 UJ
Nickel	16000	mg/kg	NA	NA	NA	NA	25.5 U	20.1 U
Selenium	3900	mg/kg	NA	NA	NA	NA	2.65 U	2.43 U
Silver	3900	mg/kg	NA	NA	NA	NA	26.5 UJ	23.7 UJ
Zinc	230000	mg/kg	NA	NA	NA	NA	302	1280
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-09(6-12) 6 - 12 06/14/05	OU4-SS-10-09(12-18) 12 - 18 06/14/05	OU4-SS-10-10(0-1) 0 - 1 06/14/05	OU4-SS-10-10(1-6) 1 - 6 06/09/05	OU4-SS-10-10(6-12) 6 - 12 06/14/05	OU4-SS-10-10(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.4 U	4.77 J	8.70 J	12.1 U	9.65 J	4.03 U
Barium	55000	mg/kg	617 J	233 UJ	264 UJ	278 UJ	329 J	221 UJ
Cadmium	390	mg/kg	37.0	44.8	35.5 U	39.0 U	47.8	33.3 U
Chromium	3900	mg/kg	99.6 U	85.2 U	107 U	107 U	94.7 U	87.6 U
Cobalt	47000	mg/kg	96.7 U	79.8 U	114 U	105 U	80.4 U	74.2 U
Copper	31000	mg/kg	16.1 J	11.6 U	23.7 J	48.1 J	12.0 U	10.5 U
Iron	230000	mg/kg	16200 U	11400 U	21700 U	17200 U	12200 U	10300 U
Lead	1200	mg/kg	286	26.1 U	44.2	292	97.7	14.3 U
Manganese	18000	mg/kg	784 J	720 UJ	431 UJ	533 UJ	497 UJ	681 UJ
Mercury	78	mg/kg	9.18 UJ	7.37 UJ	8.19 UJ	9.06 UJ	7.18 UJ	7.31 UJ
Nickel	16000	mg/kg	21.6 U	18.8 U	35.7 J	22.9 U	19.2 U	17.8 U
Selenium	3900	mg/kg	2.65 U	2.20 U	2.46 U	3.02 U	2.31 U	2.16 U
Silver	3900	mg/kg	24.7 UJ	23.4 UJ	24.9 UJ	27.2 UJ	23.8 UJ	23.1 UJ
Zinc	230000	mg/kg	2470	782	194	954	605	557
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	10500	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	6.79 U	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	7.81	NA	NA
Barium	55000	mg/kg	NA	NA	NA	589 J	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	0.613	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	8.26	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	14700	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	27.1	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	7.25	NA	NA
Copper	31000	mg/kg	NA	NA	NA	53.4	NA	NA
Iron	230000	mg/kg	NA	NA	NA	18100	NA	NA
Lead	1200	mg/kg	NA	NA	NA	254	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	6640	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	569	NA	NA
Mercury	78	mg/kg	NA	NA	NA	0.177 J	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	19.9	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	1880	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	1.13 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	0.603 B	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	103 B	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	1.13 U	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	25.8	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	671	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-11(1-6) 1 - 6 06/22/05	OU4-SS-10-12(1-6) 1 - 6 06/22/05	OU4-SS-10-13(1-6) 1 - 6 06/22/05	OU4-SS-10-14(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.5 U	15.2 U	22.7	18.2 U [18.3 U]
Barium	55000	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Ilinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-COMP1(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP1(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP1(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP1(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	20.7 J	23.8 J	17.5 J	17.2 J
Barium	55000	mg/kg	1120 J	2140 J	1390 J	561 J
Cadmium	390	mg/kg	63.8	115	38.1	36.3 U
Chromium	3900	mg/kg	113 U	141 U	118 U	113 U
Cobalt	47000	mg/kg	121 U	142 U	123 U	131 U
Copper	31000	mg/kg	54.0 J	70.5 J	39.1 J	47.6 J
Iron	230000	mg/kg	24600	28200	24600	28400
Lead	1200	mg/kg	342 J	499 J	238 J	483 J
Manganese	18000	mg/kg	665 J	980 J	766 J	373 J
Mercury	78	mg/kg	10.6 UJ	12.6 UJ	10.2 UJ	10.3 UJ
Nickel	16000	mg/kg	24.3 UJ	29.1 UJ	28.6 J	25.8 UJ
Selenium	3900	mg/kg	2.94 U	3.68 U	2.80 U	2.95 U
Silver	3900	mg/kg	24.6 UJ	29.1 UJ	25.6 UJ	25.4 UJ
Zinc	230000	mg/kg	4940	6910	3100	2290
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	12700	NA	NA
Antimony	- -	mg/kg	NA	6.55 U	NA	NA
Arsenic	43	mg/kg	NA	21.2	NA	NA
Barium	55000	mg/kg	NA	3760 J	NA	NA
Beryllium	- -	mg/kg	NA	0.873	NA	NA
Cadmium	390	mg/kg	NA	88.7	NA	NA
Calcium	- -	mg/kg	NA	12200	NA	NA
Chromium	3900	mg/kg	NA	20.3	NA	NA
Cobalt	47000	mg/kg	NA	9.86	NA	NA
Copper	31000	mg/kg	NA	108	NA	NA
Iron	230000	mg/kg	NA	24800	NA	NA
Lead	1200	mg/kg	NA	464	NA	NA
Magnesium	- -	mg/kg	NA	5290	NA	NA
Manganese	18000	mg/kg	NA	893	NA	NA
Mercury	78	mg/kg	NA	0.102 J	NA	NA
Nickel	16000	mg/kg	NA	18.9	NA	NA
Potassium	- -	mg/kg	NA	2280	NA	NA
Selenium	3900	mg/kg	NA	1.50	NA	NA
Silver	3900	mg/kg	NA	2.11 B	NA	NA
Sodium	- -	mg/kg	NA	52.0 B	NA	NA
Thallium	- -	mg/kg	NA	1.14	NA	NA
Vanadium	- -	mg/kg	NA	31.2	NA	NA
Zinc	230000	mg/kg	NA	6330	NA	NA

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Ilinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-COMP2(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP2(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP2(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP2(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.6 U	19.2 J	14.5 J	14.7 J [15.4 J]
Barium	55000	mg/kg	1200 J	1070 J	1450 J	693 J [706 J]
Cadmium	390	mg/kg	81.5	69.2	44.5	36.7 U [36.6 U]
Chromium	3900	mg/kg	124 U	111 U	117 U	108 U [112 U]
Cobalt	47000	mg/kg	138 JQ	117 U	120 U	126 JQ [116 U]
Copper	31000	mg/kg	62.7 J	48.9 J	38.5 J	29.9 J [25.4 J]
Iron	230000	mg/kg	24900	22700	22300	21900 [21800]
Lead	1200	mg/kg	365 J	270 J	228 J	187 J [193 J]
Manganese	18000	mg/kg	508 J	624 J	505 J	450 J [420 J]
Mercury	78	mg/kg	11.5 UJ	10.3 UJ	10.4 UJ	9.46 UJ [9.01 UJ]
Nickel	16000	mg/kg	26.9 UJ	23.9 UJ	25.6 UJ	22.7 UJ [24.2 UJ]
Selenium	3900	mg/kg	3.22 U	2.72 U	2.82 U	2.77 U [2.77 U]
Silver	3900	mg/kg	28.2 UJ	25.4 UJ	26.1 UJ	25.6 UJ [25.6 UJ]
Zinc	230000	mg/kg	4270	4150	2930	1850 J [1800 J]
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	12100	NA	NA	NA
Antimony	- -	mg/kg	6.97 U	NA	NA	NA
Arsenic	43	mg/kg	14.2	NA	NA	NA
Barium	55000	mg/kg	2260 J	NA	NA	NA
Beryllium	- -	mg/kg	0.805	NA	NA	NA
Cadmium	390	mg/kg	52.6	NA	NA	NA
Calcium	- -	mg/kg	10500	NA	NA	NA
Chromium	3900	mg/kg	20.4	NA	NA	NA
Cobalt	47000	mg/kg	8.39	NA	NA	NA
Copper	31000	mg/kg	70.2	NA	NA	NA
Iron	230000	mg/kg	22100	NA	NA	NA
Lead	1200	mg/kg	346	NA	NA	NA
Magnesium	- -	mg/kg	5100	NA	NA	NA
Manganese	18000	mg/kg	695	NA	NA	NA
Mercury	78	mg/kg	0.115 J	NA	NA	NA
Nickel	16000	mg/kg	18.4	NA	NA	NA
Potassium	- -	mg/kg	2190	NA	NA	NA
Selenium	3900	mg/kg	1.12 B	NA	NA	NA
Silver	3900	mg/kg	1.21 B	NA	NA	NA
Sodium	- -	mg/kg	161	NA	NA	NA
Thallium	- -	mg/kg	1.16 U	NA	NA	NA
Vanadium	- -	mg/kg	30.8	NA	NA	NA
Zinc	230000	mg/kg	3530	NA	NA	NA

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Ilinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-COMP3(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP3(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP3(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP3(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.0 U	14.2 J	12.7 J	25.5 J
Barium	55000	mg/kg	1110	1140	772	482
Cadmium	390	mg/kg	71.9 J	63.5 J	36.2 U	44.3 U
Chromium	3900	mg/kg	113 U	111 U	108 U	143 U
Cobalt	47000	mg/kg	135 J	111 U	116 U	186 U
Copper	31000	mg/kg	53.9 J	40.5 J	20.3 J	59.9 J
Iron	230000	mg/kg	25700	20100	22100	46600
Lead	1200	mg/kg	314 J	243 J	183 J	671 J
Manganese	18000	mg/kg	517 J	469 J	421 UJ	589 J
Mercury	78	mg/kg	10.2 UJ	10.4 UJ	9.22 UJ	21.9 JQ
Nickel	16000	mg/kg	25.2 U	23.6 U	24.0 U	34.0 U
Selenium	3900	mg/kg	2.90 U	2.79 U	2.73 U	3.98 U
Silver	3900	mg/kg	24.7 UJ	25.3 UJ	25.3 UJ	31.1 UJ
Zinc	230000	mg/kg	4120	3010	1600	3970
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	NA	NA	14700
Antimony	- -	mg/kg	NA	NA	NA	7.35 U
Arsenic	43	mg/kg	NA	NA	NA	21.6
Barium	55000	mg/kg	NA	NA	NA	688 J
Beryllium	- -	mg/kg	NA	NA	NA	1.92
Cadmium	390	mg/kg	NA	NA	NA	15.6
Calcium	- -	mg/kg	NA	NA	NA	9680
Chromium	3900	mg/kg	NA	NA	NA	24.3
Cobalt	47000	mg/kg	NA	NA	NA	8.78
Copper	31000	mg/kg	NA	NA	NA	66.3
Iron	230000	mg/kg	NA	NA	NA	28400
Lead	1200	mg/kg	NA	NA	NA	567
Magnesium	- -	mg/kg	NA	NA	NA	3260
Manganese	18000	mg/kg	NA	NA	NA	676
Mercury	78	mg/kg	NA	NA	NA	0.312 J
Nickel	16000	mg/kg	NA	NA	NA	25.4
Potassium	- -	mg/kg	NA	NA	NA	2450
Selenium	3900	mg/kg	NA	NA	NA	1.31
Silver	3900	mg/kg	NA	NA	NA	1.49 B
Sodium	- -	mg/kg	NA	NA	NA	301
Thallium	- -	mg/kg	NA	NA	NA	1.91
Vanadium	- -	mg/kg	NA	NA	NA	34.5
Zinc	230000	mg/kg	NA	NA	NA	2790

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Ilinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-01(0-1) 0 - 1 06/22/05	OU4-SS-11-01(1-6) 1 - 6 06/23/05	OU4-SS-11-01(6-12) 6 - 12 06/22/05	OU4-SS-11-01(12-18) 12 - 18 06/09/05	OU4-SS-11-02(0-1) 0 - 1 06/22/05	OU4-SS-11-02(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.8	12.6 J	21.9	75.3	19.2	14.4 U
Cadmium	390	mg/kg	NA	89.2	NA	NA	NA	113
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	17.0	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-02(6-12) 6 - 12 06/22/05	OU4-SS-11-02(12-18) 12 - 18 06/09/05	OU4-SS-11-03(0-1) 0 - 1 06/22/05	OU4-SS-11-03(1-6) 1 - 6 06/23/05	OU4-SS-11-03(6-12) 6 - 12 06/22/05	OU4-SS-11-03(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.1	96.5	13.7	32.7 J	14.4	6.35 U
Cadmium	390	mg/kg	NA	NA	NA	136	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	23.3	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-04(0-1) 0 - 1 06/22/05	OU4-SS-11-04(1-6) 1 - 6 06/23/05	OU4-SS-11-04(6-12) 6 - 12 06/22/05	OU4-SS-11-04(12-18) 12 - 18 06/22/05	OU4-SS-11-05(0-1) 0 - 1 06/22/05	OU4-SS-11-05(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.8 U	35.0 J [29.1 J]	25.2	16.3	13.2	15.3
Cadmium	390	mg/kg	NA	81.8 [92.3]	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-05(6-12) 6 - 12 06/22/05	OU4-SS-11-05(12-18) 12 - 18 06/22/05	OU4-SS-11-06(0-1) 0 - 1 06/22/05	OU4-SS-11-06(1-6) 1 - 6 06/22/05	OU4-SS-11-06(6-12) 6 - 12 06/22/05	OU4-SS-11-06(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.1	11.7	13.2	12.8 U	18.9	17.4
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-07(0-1) 0 - 1 06/22/05	OU4-SS-11-07(1-6) 1 - 6 06/22/05	OU4-SS-11-07(6-12) 6 - 12 06/22/05	OU4-SS-11-07(12-18) 12 - 18 06/22/05	OU4-SS-11-08(0-1) 0 - 1 06/22/05	OU4-SS-11-08(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.8	17.3	18.1	12.3	17.1	12.2 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-08(6-12) 6 - 12 06/22/05	OU4-SS-11-08(12-18) 12 - 18 06/22/05	OU4-SS-11-09(0-1) 0 - 1 06/22/05	OU4-SS-11-09(1-6) 1 - 6 06/22/05	OU4-SS-11-09(6-12) 6 - 12 06/22/05	OU4-SS-11-09(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.1	22.0	13.5 [11.9 U]	19.8	11.3 U	9.67 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-10(0-1) 0 - 1 06/22/05	OU4-SS-11-10(1-6) 1 - 6 06/22/05	OU4-SS-11-10(6-12) 6 - 12 06/22/05	OU4-SS-11-10(12-18) 12 - 18 06/22/05	OU4-SS-11-11(0-1) 0 - 1 06/22/05	OU4-SS-11-11(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.2	12.1 U	9.30 U	15.1	12.0 U	17.5
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-11(6-12) 6 - 12 06/22/05	OU4-SS-11-11(12-18) 12 - 18 06/22/05	OU4-SS-11-12(0-1) 0 - 1 06/22/05	OU4-SS-11-12(1-6) 1 - 6 06/22/05	OU4-SS-11-12(6-12) 6 - 12 06/22/05	OU4-SS-11-12(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.8	38.7	15.7	11.7	20.0	75.8
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	43.7

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-13(0-1) 0 - 1 06/22/05	OU4-SS-11-13(1-6) 1 - 6 06/22/05	OU4-SS-11-13(6-12) 6 - 12 06/22/05	OU4-SS-11-13(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	14.7 [11.1 U]	11.4 U	8.27 U	16.2 U
Cadmium	390	mg/kg	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)						
Arsenic	43	mg/kg	NA	NA	NA	NA

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP1(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP1(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP1(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP1(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.6 J	15.7 J	7.55 J	3.86 U
Barium	55000	mg/kg	452	833	295	281
Cadmium	390	mg/kg	38.6 U	46.3	34.6 U	34.0 U
Chromium	3900	mg/kg	110 U	110 U	96.9 U	88.6 U
Cobalt	47000	mg/kg	108 JQ	108 U	88.9 U	77.3 U
Copper	31000	mg/kg	22.8 J	43.0	12.5 U	10.8 U
Iron	230000	mg/kg	17300 U	19600	14300 U	11100 U
Lead	1200	mg/kg	164 J	282 J	90.0 J	10.8 U
Manganese	18000	mg/kg	537 J	701 J	712 J	677 J
Mercury	78	mg/kg	9.23 UJ	10.3 UJ	8.17 UJ	7.34 UJ
Nickel	16000	mg/kg	22.6 U	23.4 U	20.4 U	18.1 U
Selenium	3900	mg/kg	2.75 U	2.73 U	2.37 U	2.07 U
Silver	3900	mg/kg	26.9 UJ	25.0 UJ	24.0 UJ	23.6 UJ
Zinc	230000	mg/kg	2020	4190	1400	54.4
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	11800	NA	NA	NA
Antimony	- -	mg/kg	6.94 UJ	NA	NA	NA
Arsenic	43	mg/kg	7.45	NA	NA	NA
Barium	55000	mg/kg	632	NA	NA	NA
Beryllium	- -	mg/kg	0.840	NA	NA	NA
Cadmium	390	mg/kg	17.0	NA	NA	NA
Calcium	- -	mg/kg	7880	NA	NA	NA
Chromium	3900	mg/kg	19.8 J	NA	NA	NA
Cobalt	47000	mg/kg	6.90	NA	NA	NA
Copper	31000	mg/kg	27.9 J	NA	NA	NA
Iron	230000	mg/kg	19100	NA	NA	NA
Lead	1200	mg/kg	147	NA	NA	NA
Magnesium	- -	mg/kg	2280	NA	NA	NA
Manganese	18000	mg/kg	690	NA	NA	NA
Mercury	78	mg/kg	0.0267 B	NA	NA	NA
Nickel	16000	mg/kg	14.4	NA	NA	NA
Potassium	- -	mg/kg	1780	NA	NA	NA
Selenium	3900	mg/kg	1.16 U	NA	NA	NA
Silver	3900	mg/kg	0.711 B	NA	NA	NA
Sodium	- -	mg/kg	279	NA	NA	NA
Thallium	- -	mg/kg	1.16 U	NA	NA	NA
Vanadium	- -	mg/kg	29.0	NA	NA	NA
Zinc	230000	mg/kg	1650	NA	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP2(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP2(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP2(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP2(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	8.83 U	18.7 J	7.57 U	4.09 U
Barium	55000	mg/kg	536	1650	253	237 U
Cadmium	390	mg/kg	36.8	87.0	34.8 U	34.6
Chromium	3900	mg/kg	100 U	124 U	94.0 U	92.7 U
Cobalt	47000	mg/kg	96.8 U	126 U	92.8 U	85.3 U
Copper	31000	mg/kg	25.9	62.2 J	12.4 U	10.9 U
Iron	230000	mg/kg	17000	25700	15500 U	13300 U
Lead	1200	mg/kg	164	306 J	113 J	18.6 U
Manganese	18000	mg/kg	420	576 J	532 J	360 UJ
Mercury	78	mg/kg	8.26 U	10.8 UJ	8.31 UJ	6.96 UJ
Nickel	16000	mg/kg	20.6 U	27.9	20.5 U	18.8 U
Selenium	3900	mg/kg	2.46 U	2.90 U	2.33 U	2.26 U
Silver	3900	mg/kg	23.8 U	26.7 UJ	24.2 UJ	23.7 UJ
Zinc	230000	mg/kg	1840	4430	1380	161
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	6800	NA	NA
Antimony	- -	mg/kg	NA	2.63 J	NA	NA
Arsenic	43	mg/kg	NA	15.1	NA	NA
Barium	55000	mg/kg	NA	2000	NA	NA
Beryllium	- -	mg/kg	NA	0.735	NA	NA
Cadmium	390	mg/kg	NA	47.6	NA	NA
Calcium	- -	mg/kg	NA	5760	NA	NA
Chromium	3900	mg/kg	NA	14.1 J	NA	NA
Cobalt	47000	mg/kg	NA	5.10 B	NA	NA
Copper	31000	mg/kg	NA	57.9 J	NA	NA
Iron	230000	mg/kg	NA	18100	NA	NA
Lead	1200	mg/kg	NA	297	NA	NA
Magnesium	- -	mg/kg	NA	2060	NA	NA
Manganese	18000	mg/kg	NA	576	NA	NA
Mercury	78	mg/kg	NA	0.0763 B	NA	NA
Nickel	16000	mg/kg	NA	14.2	NA	NA
Potassium	- -	mg/kg	NA	1020	NA	NA
Selenium	3900	mg/kg	NA	1.05 U	NA	NA
Silver	3900	mg/kg	NA	1.31 B	NA	NA
Sodium	- -	mg/kg	NA	163	NA	NA
Thallium	- -	mg/kg	NA	1.05 U	NA	NA
Vanadium	- -	mg/kg	NA	22.0	NA	NA
Zinc	230000	mg/kg	NA	3370	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP3(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP3(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP3(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP3(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.1 J	12.8 U	6.09 U	4.36 U [4.20 U]
Barium	55000	mg/kg	561	834	239 U	225 U [214 U]
Cadmium	390	mg/kg	34.9 U	62.6	36.0	33.9 U [33.8 U]
Chromium	3900	mg/kg	99.4 U	117 U	90.1 U	90.7 U [87.2 U]
Cobalt	47000	mg/kg	95.1 U	112 U	81.1 U	73.4 U [73.8 U]
Copper	31000	mg/kg	35.1 J	48.0 J	11.6 U	10.9 U [10.4 U]
Iron	230000	mg/kg	15900 U	19800 U	11400 U	9870 U [9760 U]
Lead	1200	mg/kg	358 J	332 J	65.3 J	20.4 U [19.8 U]
Manganese	18000	mg/kg	492 J	661 J	500 J	393 UJ [368 UJ]
Mercury	78	mg/kg	9.94 UJ	10.7 UJ	7.82 UJ	6.62 U [6.85 U]
Nickel	16000	mg/kg	21.0 U	24.1 U	19.1 U	17.4 U [18.1 U]
Selenium	3900	mg/kg	2.70 U	3.06 U	2.25 U	2.13 U [2.15 U]
Silver	3900	mg/kg	24.3 UJ	27.2 UJ	24.5 UJ	23.6 UJ [23.6 UJ]
Zinc	230000	mg/kg	3020	3420	794	301 [309]
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	6010	NA	NA
Antimony	- -	mg/kg	NA	6.70 UJ	NA	NA
Arsenic	43	mg/kg	NA	10.9	NA	NA
Barium	55000	mg/kg	NA	1230	NA	NA
Beryllium	- -	mg/kg	NA	0.551	NA	NA
Cadmium	390	mg/kg	NA	42.6	NA	NA
Calcium	- -	mg/kg	NA	3020	NA	NA
Chromium	3900	mg/kg	NA	12.2 J	NA	NA
Cobalt	47000	mg/kg	NA	5.01 B	NA	NA
Copper	31000	mg/kg	NA	44.2 J	NA	NA
Iron	230000	mg/kg	NA	17800	NA	NA
Lead	1200	mg/kg	NA	313	NA	NA
Magnesium	- -	mg/kg	NA	1600	NA	NA
Manganese	18000	mg/kg	NA	693	NA	NA
Mercury	78	mg/kg	NA	0.0639 B	NA	NA
Nickel	16000	mg/kg	NA	12.6	NA	NA
Potassium	- -	mg/kg	NA	799	NA	NA
Selenium	3900	mg/kg	NA	1.12 U	NA	NA
Silver	3900	mg/kg	NA	0.995 B	NA	NA
Sodium	- -	mg/kg	NA	142 U	NA	NA
Thallium	- -	mg/kg	NA	1.12 U	NA	NA
Vanadium	- -	mg/kg	NA	19.5	NA	NA
Zinc	230000	mg/kg	NA	3190	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 12B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-01(0-1) 0 - 1 06/22/05	OU4-SS-12-01(1-6) 1 - 6 06/22/05	OU4-SS-12-02(0-1) 0 - 1 06/22/05	OU4-SS-12-02(1-6) 1 - 6 06/22/05	OU4-SS-12-03(0-1) 0 - 1 06/22/05	OU4-SS-12-03(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.8	11.0 U	7.90 U	15.6	7.41 U	12.1 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-04(0-1) 0 - 1 06/22/05	OU4-SS-12-04(1-6) 1 - 6 06/22/05	OU4-SS-12-05(0-1) 0 - 1 06/22/05	OU4-SS-12-05(1-6) 1 - 6 06/22/05	OU4-SS-12-06(0-1) 0 - 1 06/22/05	OU4-SS-12-06(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1	20.4	14.3 [13.2]	17.1	9.82 U	29.6 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	73.7

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-07(0-1) 0 - 1 06/22/05	OU4-SS-12-07(1-6) 1 - 6 06/23/05	OU4-SS-12-08(0-1) 0 - 1 06/22/05	OU4-SS-12-08(1-6) 1 - 6 06/23/05	OU4-SS-12-09(0-1) 0 - 1 06/22/05	OU4-SS-12-09(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.73	25.8 J	12.4	16.9 J	16.4	24.5 J
Cadmium	390	mg/kg	NA	88.3	NA	61.3	NA	46.7

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-10(0-1) 0 - 1 06/22/05	OU4-SS-12-10(1-6) 1 - 6 06/23/05	OU4-SS-12-11(0-1) 0 - 1 06/22/05	OU4-SS-12-11(1-6) 1 - 6 06/22/05	OU4-SS-12-12(0-1) 0 - 1 06/22/05	OU4-SS-12-12(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	7.94 U	25.8 J	14.1	24.3	16.8 U	15.6
Cadmium	390	mg/kg	NA	61.3	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-13(0-1) 0 - 1 06/22/05	OU4-SS-12-13(1-6) 1 - 6 06/22/05	OU4-SS-12-14(0-1) 0 - 1 06/22/05	OU4-SS-12-14(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.5 U	7.90 U	12.4	9.77 U [10.0 U]
Cadmium	390	mg/kg	NA	NA	NA	NA

Table 12B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
ıg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 13A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDPH Location S02) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-COMP1(0-1) 0 - 1 06/13/05	OU4-SS-13-COMP1(1-6) 1 - 6 06/13/05	OU4-SS-13-COMP1(6-12) 6 - 12 06/13/05	OU4-SS-13-COMP1(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.0 U	15.9 J	26.7 J	12.2 J
Barium	55000	mg/kg	1160	1180	683	659
Cadmium	390	mg/kg	41.3	36.4 U	44.7	35.5 U
Chromium	3900	mg/kg	107 U	110 U	125 U	104 U
Cobalt	47000	mg/kg	105 U	110 U	156 U	108 U
Copper	31000	mg/kg	35.5	28.3	34.9	24.8
Iron	230000	mg/kg	18600 U	19700	36500	20300
Lead	1200	mg/kg	258	192	244	202
Manganese	18000	mg/kg	405 UJ	448 UJ	584 UJ	518 UJ
Mercury	78	mg/kg	9.50 UJ	9.66 UJ	24.4 J	14.1 JQ
Nickel	16000	mg/kg	24.6 JQ	23.5 U	29.8 U	22.4 U
Selenium	3900	mg/kg	2.72 U	2.79 U	3.11 U	2.62 U
Silver	3900	mg/kg	24.8 UJ	25.5 UJ	28.0 UJ	24.7 UJ
Zinc	230000	mg/kg	2460	1780	1200	1070
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	NA	11500	NA
Antimony	- -	mg/kg	NA	NA	6.47 UJ	NA
Arsenic	43	mg/kg	NA	NA	14.4	NA
Barium	55000	mg/kg	NA	NA	693	NA
Beryllium	- -	mg/kg	NA	NA	1.75	NA
Cadmium	390	mg/kg	NA	NA	6.86	NA
Calcium	- -	mg/kg	NA	NA	14500	NA
Chromium	3900	mg/kg	NA	NA	20.4 J	NA
Cobalt	47000	mg/kg	NA	NA	8.10	NA
Copper	31000	mg/kg	NA	NA	30.2 J	NA
Iron	230000	mg/kg	NA	NA	27600	NA
Lead	1200	mg/kg	NA	NA	181	NA
Magnesium	- -	mg/kg	NA	NA	7190	NA
Manganese	18000	mg/kg	NA	NA	632	NA
Mercury	78	mg/kg	NA	NA	0.173	NA
Nickel	16000	mg/kg	NA	NA	23.1	NA
Potassium	- -	mg/kg	NA	NA	1980	NA
Selenium	3900	mg/kg	NA	NA	1.08 U	NA
Silver	3900	mg/kg	NA	NA	0.572 B	NA
Sodium	- -	mg/kg	NA	NA	296	NA
Thallium	- -	mg/kg	NA	NA	1.08 U	NA
Vanadium	- -	mg/kg	NA	NA	30.7	NA
Zinc	230000	mg/kg	NA	NA	821	NA