

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0562

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Aluminum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1673		2.8	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		1157		2.8	-
Arsenic	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.52		0.02	-
Barium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		134		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		224		0.4	-
Boron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		2.10		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		11.72		0.4	-
Cadmium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		0.40	U	0.4	-
Calcium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		15331		2	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		32583		2	-
Chloride	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		175		50	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		770		50	-
Chromium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.54		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		2.40		0.4	-
Cobalt	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		0.40	U	0.4	-
Copper	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3.6		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		5.89		0.4	-
Iron	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		410		0.32	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		310		0.32	-
Lead	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		7		2	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		2.00	U	2	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0562

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Lithium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		4.24		0.28	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		1.38		0.28	-
Magnesium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1333		1.6	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		1285		1.6	-
Manganese	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		224		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		285		0.4	-
Molybdenum	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1.21		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		16.41		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		6.86		0.4	-
Phosphorus	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		316		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		155		0.4	-
Potassium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		882		2	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		530		2	-
Selenium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.20		0.04	-
Silicon	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		1852		2	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		1198		2	-
Sodium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		207		1.2	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		214		1.2	-
Strontium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		98		2.8	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		146		2.8	-
Sulfate	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		267		200	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		970		200	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0562

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Uranium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		3.30		0.25	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		0.34		0.25	-
Vanadium	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		9.74		0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		1.76		0.4	-
Zinc	mg/kg	11/27/2000	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
	mg/kg	03/07/2001	00S1	1.00 - 2.00	USGSHNO3		4.26		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0562

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0563

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1300		2.8	-
Barium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		190		0.4	-
Boron	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		6.58		0.4	-
Cadmium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.44		0.4	-
Calcium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		11334		2	-
Chloride	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		430		50	-
Chromium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		2.19		0.4	-
Cobalt	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.49		0.4	-
Copper	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		14.67		0.4	-
Iron	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1415		0.32	-
Lead	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		21.61		2	-
Lithium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1.05		0.28	-
Magnesium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1213		1.6	-
Manganese	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		195		0.4	-
Molybdenum	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		10.16		0.4	-
Phosphorus	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		289		0.4	-
Potassium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		238		2	-
Silicon	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1713		2	-
Sodium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		100		1.2	-
Strontium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		43		2.8	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0563
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sulfate	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		840		200	-
Uranium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1.00		0.25	-
Vanadium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		6.05		0.4	-
Zinc	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		84		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0563

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0564

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Aluminum	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1295		2.8	-
Barium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		179		0.4	-
Boron	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		6.55		0.4	-
Cadmium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.40	U	0.4	-
Calcium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		10301		2	-
Chloride	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		400		50	-
Chromium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.40	U	0.4	-
Cobalt	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.40	U	0.4	-
Copper	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		7.02		0.4	-
Iron	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1198		0.32	-
Lead	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		2.00	U	2	-
Lithium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1.86		0.28	-
Magnesium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1112		1.6	-
Manganese	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		361		0.4	-
Molybdenum	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		9.76		0.4	-
Phosphorus	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		244		0.4	-
Potassium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		349		2	-
Silicon	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1647		2	-
Sodium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		214		1.2	-
Strontium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		77		2.8	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0564
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sulfate	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1540		200	-
Uranium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		1.28		0.25	-
Vanadium	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		8.37		0.4	-
Zinc	mg/kg	03/07/2001	00S1	5.00 - 6.00	USGSHNO3		18		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0564

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0566

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1302		2.8	-
Arsenic	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		3.19		0.02	-
Barium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		116		0.4	-
Boron	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		6.62		0.4	-
Cadmium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1.66		0.4	-
Calcium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		24131		2	-
Chloride	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		246		50	-
Chromium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1.08		0.4	-
Cobalt	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Copper	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		30.1		0.4	-
Iron	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1535		0.32	-
Lead	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		78		2	-
Lithium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		2005		1.6	-
Manganese	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		427		0.4	-
Molybdenum	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		0.49		0.4	-
Nickel	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1.45		0.4	-
Phosphorus	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		357		0.4	-
Potassium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		813		2	-
Selenium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		0.21		0.04	-
Silicon	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		1636		2	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0566
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sodium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		40		1.2	-
Strontium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		87		2.8	-
Sulfate	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		298		200	-
Uranium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		3.23		0.25	-
Vanadium	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		9.28		0.4	-
Zinc	mg/kg	01/11/2001	00S1	0.00 - 0.00	USGSHNO3		239		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0566

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0999 WQD KNOWNS

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.8	U	2.8	-
Barium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.40	U	0.4	-
Boron	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		6.08		0.4	-
Cadmium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.40	U	0.4	-
Calcium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.00	U	2	-
Chloride	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		320.00		50	-
Chromium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		1.42		0.4	-
Cobalt	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.40	U	0.4	-
Copper	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		4.89		0.4	-
Iron	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		3.19		0.32	-
Lead	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.00	U	2	-
Lithium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.28	U	0.28	-
Magnesium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		1.6	U	1.6	-
Manganese	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Molybdenum	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Phosphorus	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Potassium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.00	U	2	-
Silicon	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		13		2	-
Sodium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.33		1.2	-
Strontium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		2.8	U	2.8	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: 0999 WQD KNOWN
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sulfate	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		430		200	-
Uranium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.25	U	0.25	-
Vanadium	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-
Zinc	mg/kg	04/27/2001	00S1	0.00 - 0.00	USGSHNO3		0.4	U	0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: 0999 WQD KNOWNS

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: NAT01-1

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		1977		2.8	-
Barium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		297		0.4	-
Boron	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		7.08		0.4	-
Cadmium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		0.40	U	0.4	-
Calcium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		19184		2	-
Chloride	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		440		50	-
Chromium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		10.87		0.4	-
Cobalt	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		1.02		0.4	-
Copper	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		12.29		0.4	-
Iron	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		1874		0.32	-
Lead	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		20.23		2	-
Lithium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		2.35		0.28	-
Magnesium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		1273		1.6	-
Manganese	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		259		0.4	-
Molybdenum	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		13.49		0.4	-
Phosphorus	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		416		0.4	-
Potassium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		411		2	-
Silicon	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		2080		2	-
Sodium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		332		1.2	-
Strontium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		161		2.8	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: NAT01-1
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sulfate	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		4600		200	-
Uranium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		6.03		0.25	-
Vanadium	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		5.35		0.4	-
Zinc	mg/kg	10/15/1998	00S1	5.00 - 6.00	USGSHNO3		65		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: NAT01-1

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: NAT06-1

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Aluminum	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		1836		2.8	-
Barium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		133		0.4	-
Boron	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		8.72		0.4	-
Cadmium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		0.40	U	0.4	-
Calcium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		11047		2	-
Chloride	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		480		50	-
Chromium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		1.00		0.4	-
Cobalt	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		0.79		0.4	-
Copper	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		8.67		0.4	-
Iron	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		2071		0.32	-
Lead	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		2.00	U	2	-
Lithium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		1.95		0.28	-
Magnesium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		1885		1.6	-
Manganese	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		117		0.4	-
Molybdenum	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		0.4	U	0.4	-
Nickel	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		14.32		0.4	-
Phosphorus	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		332		0.4	-
Potassium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		760		2	-
Silicon	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		1901		2	-
Sodium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		869		1.2	-
Strontium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		108		2.8	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA
 LOCATION: NAT06-1
 REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Sulfate	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		7400		200	-
Uranium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		6.50		0.25	-
Vanadium	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		412		0.4	-
Zinc	mg/kg	10/19/1998	00S1	5.00 - 6.00	USGSHNO3		11		0.4	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE NAT01, NATURITA

LOCATION: NAT06-1

REPORT DATE: 8/14/2001 4:57 pm

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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DIGESTION CODES:

USGSHNO3 USGS Extractions By Extracting 2g Solid with 0.2L of 5% HNO3

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.