

Appendix I

Soil and Sediment Analytical Results

This page intentionally left blank

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0915

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.14		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.1		-	-
Lead	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	8.58		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	6.98		-	-
Molybdenum	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.41	B	-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.49	B	-	-
Uranium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.36		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.34		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0915

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0916

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.25		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.21		-	-
Lead	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	13.8		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	12.7		-	-
Molybdenum	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.35	U	0.35	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.35	U	0.35	-
Uranium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.48		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.49		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0916

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0917

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	7.2		-	-
	mg/kg	11/18/2000	0002	4.00 - 5.00	CB(BT-1)	GM	4.17		-	-
Lead	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	79.6		-	-
	mg/kg	11/18/2000	0002	4.00 - 5.00	CB(BT-1)	GM	42.5		-	-
Molybdenum	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.88	B	-	-
	mg/kg	11/18/2000	0002	4.00 - 5.00	CB(BT-1)	GM	2.18		-	-
Selenium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.31		-	-
	mg/kg	11/18/2000	0002	4.00 - 5.00	CB(BT-1)	GM	1.29		-	-
Uranium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	21.8		-	-
	mg/kg	11/18/2000	0002	4.00 - 5.00	CB(BT-1)	GM	10.7		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0917

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0918

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.096	B	-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	5.15		-	-
Lead	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	5.67		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	6660		-	-
Molybdenum	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.096	B	-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	10.8		-	-
Selenium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.68		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	2.0		-	-
Uranium	mg/kg	11/18/2000	0001	3.00 - 3.00	CB(BT-1)	GM	0.35		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	42.4		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0918

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0919

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.76		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.18		-	-
Lead	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	9.23		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	7.37		-	-
Molybdenum	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.087	B	-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.56		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.47	B	-	-
Uranium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	6.9		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	3.24		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0919

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0920

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.25		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.17		-	-
Lead	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	14.7		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	6.47		-	-
Molybdenum	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.35	U	0.35	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.92		-	-
Uranium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.5		-	-
	mg/kg	11/18/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.3		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0920

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0921

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.22		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.17		-	-
Lead	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	9.35		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	9.1		-	-
Molybdenum	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.091	B	-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.64		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.86		-	-
Uranium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.72		-	-
	mg/kg	11/18/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.72		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0921

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0922

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.2		-	-
	mg/kg	11/18/2000	0002	3.00 - 4.00	CB(BT-1)	GM	0.28		-	-
Lead	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	11.4		-	-
	mg/kg	11/18/2000	0002	3.00 - 4.00	CB(BT-1)	GM	11.7		-	-
Molybdenum	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/18/2000	0002	3.00 - 4.00	CB(BT-1)	GM	0.08	U	0.08	-
Selenium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.37	B	-	-
	mg/kg	11/18/2000	0002	3.00 - 4.00	CB(BT-1)	GM	0.35	U	0.35	-
Uranium	mg/kg	11/18/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.76		-	-
	mg/kg	11/18/2000	0002	3.00 - 4.00	CB(BT-1)	GM	0.75		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0922

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0930

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	1.27		-	-
Lead	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	141		-	-
Molybdenum	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.5	B	-	-
Selenium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.6		-	-
Uranium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.77		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0930

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0931

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.85		-	-
Lead	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	13.6		-	-
Molybdenum	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.66	B	-	-
Selenium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.88		-	-
Uranium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	1.22		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0931

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR01, DURANGO MILL TAILINGS

LOCATION: 0932

REPORT DATE: 12/12/2001 10:41 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.57		-	-
Lead	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	6.95		-	-
Molybdenum	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.13	B	-	-
Selenium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.72		-	-
Uranium	mg/kg	11/20/2000	0001	0.00 - 0.00	CB(BT-1)	GM	0.54		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0932

REPORT DATE: 12/12/2001 10:41 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM SILTY GRAVELS

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 DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0903

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	09/25/2000	0001	4.00 - 6.00	CB(BT-1)	GP	0.041	B	-	-
	mg/kg	09/25/2000	0002	14.00 - 16.00	CB(BT-1)	SM	0.057	B	-	-
	mg/kg	09/25/2000	0003	23.00 - 26.00	CB(BT-1)	SM	2.17		-	-
	mg/kg	09/25/2000	0004	28.00 - 29.00	CB(BT-1)	GP	0.11		-	-
Lead	mg/kg	09/25/2000	0001	4.00 - 6.00	CB(BT-1)	GP	4.4		-	-
	mg/kg	09/25/2000	0002	14.00 - 16.00	CB(BT-1)	SM	4.81		-	-
	mg/kg	09/25/2000	0003	23.00 - 26.00	CB(BT-1)	SM	4.5		-	-
	mg/kg	09/25/2000	0004	28.00 - 29.00	CB(BT-1)	GP	10		-	-
Molybdenum	mg/kg	09/25/2000	0001	4.00 - 6.00	CB(BT-1)	GP	0.12	B	-	-
	mg/kg	09/25/2000	0002	14.00 - 16.00	CB(BT-1)	SM	0.11	B	-	-
	mg/kg	09/25/2000	0003	23.00 - 26.00	CB(BT-1)	SM	0.13	B	-	-
	mg/kg	09/25/2000	0004	28.00 - 29.00	CB(BT-1)	GP	0.12	B	-	-
Selenium	mg/kg	09/25/2000	0001	4.00 - 6.00	CB(BT-1)	GP	0.35	U	0.35	-
	mg/kg	09/25/2000	0002	14.00 - 16.00	CB(BT-1)	SM	0.35	U	0.35	-
	mg/kg	09/25/2000	0003	23.00 - 26.00	CB(BT-1)	SM	0.35	U	0.35	-
	mg/kg	09/25/2000	0004	28.00 - 29.00	CB(BT-1)	GP	0.35	U	0.35	-
Uranium	mg/kg	09/25/2000	0001	4.00 - 6.00	CB(BT-1)	GP	0.18		-	-
	mg/kg	09/25/2000	0002	14.00 - 16.00	CB(BT-1)	SM	0.18		-	-
	mg/kg	09/25/2000	0003	23.00 - 26.00	CB(BT-1)	SM	0.29		-	-
	mg/kg	09/25/2000	0004	28.00 - 29.00	CB(BT-1)	GP	0.21		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0903

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0911

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.19		-	-
	mg/kg	11/20/2000	0002	6.00 - 6.00	CB(BT-1)	GP	0.38		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	8.45		-	-
	mg/kg	11/20/2000	0002	6.00 - 6.00	CB(BT-1)	GP	6.62		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/20/2000	0002	6.00 - 6.00	CB(BT-1)	GP	0.08	U	0.08	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.35	U	0.35	-
	mg/kg	11/20/2000	0002	6.00 - 6.00	CB(BT-1)	GP	0.39	B	-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.41		-	-
	mg/kg	11/20/2000	0002	6.00 - 6.00	CB(BT-1)	GP	0.9		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0911

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0912

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	3.39		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	1.79		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	5.21		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	5.96		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.23	B	-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.31	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.51		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	1.5		-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	2.3		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	2.09		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0912

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0913

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.31		-	-
	mg/kg	11/20/2000	0002	3.50 - 3.50	CB(BT-1)	SS	0.081	B	-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	12.6		-	-
	mg/kg	11/20/2000	0002	3.50 - 3.50	CB(BT-1)	SS	6.14		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.093	B	-	-
	mg/kg	11/20/2000	0002	3.50 - 3.50	CB(BT-1)	SS	0.33	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.00		-	-
	mg/kg	11/20/2000	0002	3.50 - 3.50	CB(BT-1)	SS	0.53		-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	2.03		-	-
	mg/kg	11/20/2000	0002	3.50 - 3.50	CB(BT-1)	SS	0.29		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0913

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0914

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	13.4		-	-
	mg/kg	11/20/2000	0002	3.00 - 3.00	CB(BT-1)	SH	0.21		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	7.63		-	-
	mg/kg	11/20/2000	0002	3.00 - 3.00	CB(BT-1)	SH	13.6		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.08	U	0.08	-
	mg/kg	11/20/2000	0002	3.00 - 3.00	CB(BT-1)	SH	0.39	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	2.77		-	-
	mg/kg	11/20/2000	0002	3.00 - 3.00	CB(BT-1)	SH	0.89		-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	15.1		-	-
	mg/kg	11/20/2000	0002	3.00 - 3.00	CB(BT-1)	SH	0.61		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0914

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0924

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.84		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GM	2.03		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	10.7		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GM	9.34		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.096	B	-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GM	0.12	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.66		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GM	1.19		-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	2.05		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GM	6.5		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0924

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0925

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.42		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.60		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	10.6		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	9.95		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.18	B	-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.15	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.1		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	0.47	B	-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.27		-	-
	mg/kg	11/20/2000	0002	5.00 - 5.00	CB(BT-1)	GM	1.17		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0925

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0926

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	7.85		-	-
	mg/kg	11/20/2000	0002	4.00 - 4.00	CB(BT-1)	GM	6.98		-	-
Lead	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	5.96		-	-
	mg/kg	11/20/2000	0002	4.00 - 4.00	CB(BT-1)	GM	7.71		-	-
Molybdenum	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	0.11	B	-	-
	mg/kg	11/20/2000	0002	4.00 - 4.00	CB(BT-1)	GM	0.16	B	-	-
Selenium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	1.22		-	-
	mg/kg	11/20/2000	0002	4.00 - 4.00	CB(BT-1)	GM	1.16		-	-
Uranium	mg/kg	11/20/2000	0001	2.00 - 2.00	CB(BT-1)	GM	19.5		-	-
	mg/kg	11/20/2000	0002	4.00 - 4.00	CB(BT-1)	GM	4.6		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0926

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0927

REPORT DATE: 12/12/2001 10:43 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Cadmium	mg/kg	11/20/2000	0001	3.00 - 3.00	CB(BT-1)	SM	0.51		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GP	0.74		-	-
Lead	mg/kg	11/20/2000	0001	3.00 - 3.00	CB(BT-1)	SM	6.46		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GP	7.16		-	-
Molybdenum	mg/kg	11/20/2000	0001	3.00 - 3.00	CB(BT-1)	SM	0.08	U	0.08	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GP	0.08	U	0.08	-
Selenium	mg/kg	11/20/2000	0001	3.00 - 3.00	CB(BT-1)	SM	0.59		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GP	0.52		-	-
Uranium	mg/kg	11/20/2000	0001	3.00 - 3.00	CB(BT-1)	SM	6.07		-	-
	mg/kg	11/20/2000	0002	5.00 - 6.00	CB(BT-1)	GP	4.79		-	-

SOIL CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0927

REPORT DATE: 12/12/2001 10:43 am

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

DIGESTION CODES:

CB(BT-1) ESL Standard Batch Leaching

SAMPLE DESCRIPTORS (UNIFIED SOIL CLASSIFICATION SYSTEM):

GM	SILTY GRAVELS	GP	GRAVEL	SH	SHALE
SM	SILTY SANDS	SS	SANDSTONE		

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0506

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/30/2001	0001	0.00 - 0.00			7	#	0.15	-
Cadmium	mg/kg	01/30/2001	0001	0.00 - 0.00			0.61	#	0.03	-
Iron	mg/kg	01/30/2001	0001	0.00 - 0.00			15000	* J #	1.1	-
Lead	mg/kg	01/30/2001	0001	0.00 - 0.00			14.8	* J #	0.01	-
Manganese	mg/kg	01/30/2001	0001	0.00 - 0.00			143	* J #	0.3	-
Mercury	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	01/30/2001	0001	0.00 - 0.00			3	N J #	0.08	-
Nitrate as NO3	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Selenium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.5	#	0.35	-
Sulfate	mg/kg	01/30/2001	0001	0.00 - 0.00			130	#	0.589	-
Uranium	mg/kg	01/30/2001	0001	0.00 - 0.00			0.93	* J #	0.01	-
Zinc	mg/kg	01/30/2001	0001	0.00 - 0.00			57.2	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0506

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0515

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/30/2001	0001	0.00 - 0.00			8.7	#	0.15	-
Cadmium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.2	#	0.03	-
Iron	mg/kg	01/30/2001	0001	0.00 - 0.00			14900	* J #	1.1	-
Lead	mg/kg	01/30/2001	0001	0.00 - 0.00			368	* J #	6.25	-
Manganese	mg/kg	01/30/2001	0001	0.00 - 0.00			821	* J #	0.3	-
Mercury	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	01/30/2001	0001	0.00 - 0.00			2.9	N J #	0.08	-
Nitrate as NO3	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Selenium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.7	#	0.35	-
Sulfate	mg/kg	01/30/2001	0001	0.00 - 0.00			177	#	0.589	-
Uranium	mg/kg	01/30/2001	0001	0.00 - 0.00			0.93	* J #	0.01	-
Zinc	mg/kg	01/30/2001	0001	0.00 - 0.00			580	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0515

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0583

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/31/2001	0001	0.00 - 0.00			7.4	#	0.15	-
Cadmium	mg/kg	01/31/2001	0001	0.00 - 0.00			2	#	0.03	-
Iron	mg/kg	01/31/2001	0001	0.00 - 0.00			14700	* J #	1.1	-
Lead	mg/kg	01/31/2001	0001	0.00 - 0.00			155	* J #	0.25	-
Manganese	mg/kg	01/31/2001	0001	0.00 - 0.00			802	* J #	0.3	-
Mercury	mg/kg	01/31/2001	0001	0.00 - 0.00			0.039	B #	0.02	-
Molybdenum	mg/kg	01/31/2001	0001	0.00 - 0.00			1.9	N J #	0.08	-
Nitrate as NO3	mg/kg	01/31/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Selenium	mg/kg	01/31/2001	0001	0.00 - 0.00			1.6	#	0.35	-
Sulfate	mg/kg	01/31/2001	0001	0.00 - 0.00			18.6	#	0.589	-
Uranium	mg/kg	01/31/2001	0001	0.00 - 0.00			3	* J #	0.01	-
Zinc	mg/kg	01/31/2001	0001	0.00 - 0.00			451	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0583

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0584

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/31/2001	0001	0.00 - 0.00			9.7	#	0.15	-
Cadmium	mg/kg	01/31/2001	0001	0.00 - 0.00			2.9	#	0.03	-
Iron	mg/kg	01/31/2001	0001	0.00 - 0.00			16000	* J #	1.1	-
Lead	mg/kg	01/31/2001	0001	0.00 - 0.00			307	* J #	0.25	-
Manganese	mg/kg	01/31/2001	0001	0.00 - 0.00			1460	* J #	0.3	-
Mercury	mg/kg	01/31/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	01/31/2001	0001	0.00 - 0.00			3.4	N J #	0.08	-
Nitrate as NO3	mg/kg	01/31/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Selenium	mg/kg	01/31/2001	0001	0.00 - 0.00			1.3	#	0.35	-
Sulfate	mg/kg	01/31/2001	0001	0.00 - 0.00			57.5	#	0.589	-
Uranium	mg/kg	01/31/2001	0001	0.00 - 0.00			1.6	* J #	0.01	-
Zinc	mg/kg	01/31/2001	0001	0.00 - 0.00			1340	#	25.5	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0584

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0586

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/31/2001	0001	0.00 - 0.00			6.5	#	0.15	-
Cadmium	mg/kg	01/31/2001	0001	0.00 - 0.00			2.3	#	0.03	-
Iron	mg/kg	01/31/2001	0001	0.00 - 0.00			13200	* J #	1.1	-
Lead	mg/kg	01/31/2001	0001	0.00 - 0.00			177	* J #	0.25	-
Manganese	mg/kg	01/31/2001	0001	0.00 - 0.00			1740	* J #	0.3	-
Mercury	mg/kg	01/31/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	01/31/2001	0001	0.00 - 0.00			3	N J #	0.08	-
Nitrate as NO3	mg/kg	01/31/2001	0001	0.00 - 0.00			8	B #	0.687	-
Selenium	mg/kg	01/31/2001	0001	0.00 - 0.00			1.6	#	0.35	-
Sulfate	mg/kg	01/31/2001	0001	0.00 - 0.00			84	#	0.589	-
Uranium	mg/kg	01/31/2001	0001	0.00 - 0.00			0.81	* J #	0.01	-
Zinc	mg/kg	01/31/2001	0001	0.00 - 0.00			530	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0586

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0650 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY	
Arsenic	mg/kg	11/09/1993	0002	0.00 - 0.00			9.5	S	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			6.1		#	0.15	-
Cadmium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.4	S*	#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.64		#	0.03	-
Iron	mg/kg	11/09/1993	0002	0.00 - 0.00			22100	N	#	3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			13900	* J	#	1.1	-
Lead	mg/kg	11/09/1993	0002	0.00 - 0.00			23.8	*	#	0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			15.4	* J	#	0.01	-
Manganese	mg/kg	11/09/1993	0002	0.00 - 0.00			215		#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			163	* J	#	0.3	-
Mercury	mg/kg	11/09/1993	0002	0.00 - 0.00			0.10	U	#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U	#	0.02	-
Molybdenum	mg/kg	11/09/1993	0002	0.00 - 0.00			3		#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.8	N J	#	0.08	-
Nitrate as NO3	mg/kg	11/09/1993	0002	0.00 - 0.00			1.0	U J	#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U	#	0.687	-
Percent Solids	%	11/09/1993	0002	0.00 - 0.00			64.3		#	0.1	-
Selenium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.6		#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.2		#	0.35	-
Sulfate	mg/kg	11/09/1993	0002	0.00 - 0.00			61.3		#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			160		#	0.589	-
Uranium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.5		#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.92	* J	#	0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0650 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Zinc	mg/kg	11/09/1993	0002	0.00 - 0.00			134	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			59.7	#	1.02	-

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0651 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	11/09/1993	0002	0.00 - 0.00			8.8		# 0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			6		# 0.15	-
Cadmium	mg/kg	11/09/1993	0002	0.00 - 0.00			0.7	*	# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1.2		# 0.03	-
Iron	mg/kg	11/09/1993	0002	0.00 - 0.00			19800	N	# 3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			14700	* J	# 1.1	-
Lead	mg/kg	11/09/1993	0002	0.00 - 0.00			14.7	*	# 0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			83.7	* J	# 0.01	-
Manganese	mg/kg	11/09/1993	0002	0.00 - 0.00			229		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			488	* J	# 0.3	-
Mercury	mg/kg	11/09/1993	0002	0.00 - 0.00			0.10	U	# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U	# 0.02	-
Molybdenum	mg/kg	11/09/1993	0002	0.00 - 0.00			2		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.2	N J	# 0.08	-
Nitrate as NO3	mg/kg	11/09/1993	0002	0.00 - 0.00			1.0	U J	# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.78	B	# 0.687	-
Percent Solids	%	11/09/1993	0002	0.00 - 0.00			60.8		# 0.1	-
Selenium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.6		# 0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.97		# 0.35	-
Sulfate	mg/kg	11/09/1993	0002	0.00 - 0.00			69.6		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			68.7		# 0.589	-
Uranium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.4		# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.88	* J	# 0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0651 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE:		DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS:			
		DATE	ID					LAB	DATA	QA	DETECTION LIMIT
Zinc	mg/kg	11/09/1993	0002	0.00 - 0.00			82.5	J	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			281		#	1.02	-

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0652 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY	
Arsenic	mg/kg	11/10/1993	0002	0.00 - 0.00			12.0	+	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			8.9		#	0.15	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			7.7		#	0.15	-
Cadmium	mg/kg	11/10/1993	0002	0.00 - 0.00			9.0	S*	#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.1		#	0.03	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			2.1		#	0.03	-
Iron	mg/kg	11/10/1993	0002	0.00 - 0.00			16300	N	#	3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			15700	* J	#	1.1	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			14300	* J	#	1.1	-
Lead	mg/kg	11/10/1993	0002	0.00 - 0.00			152	S*	#	0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			222	* J	#	0.25	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			215	* J	#	0.25	-
Manganese	mg/kg	11/10/1993	0002	0.00 - 0.00			1520		#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1700	* J	#	0.3	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			1590	* J	#	0.3	-
Mercury	mg/kg	11/10/1993	0002	0.00 - 0.00			0.10	U	#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U	#	0.02	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			0.02	U	#	0.02	-
Molybdenum	mg/kg	11/10/1993	0002	0.00 - 0.00			7		#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			3.4	N J	#	0.08	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			2.8	N J	#	0.08	-
Nitrate as NO3	mg/kg	11/10/1993	0002	0.00 - 0.00			1.0	U J	#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			41.5		#	0.687	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			41.2		#	0.687	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS
 LOCATION: 0652 SURFACE WATER AND SED.
 REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Percent Solids	%	11/10/1993	0002	0.00 - 0.00			54.3	#	0.1	-
Selenium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.2	S #	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.95	#	0.35	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			1.6	#	0.35	-
Sulfate	mg/kg	11/10/1993	0002	0.00 - 0.00			204	#	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			629	#	0.589	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			600	#	0.589	-
Uranium	mg/kg	11/10/1993	0002	0.00 - 0.00			3.2	#	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.93	* J #	0.01	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			0.87	* J #	0.01	-
Zinc	mg/kg	11/10/1993	0002	0.00 - 0.00			443	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			658	#	1.02	-
	mg/kg	01/30/2001	0002	0.00 - 0.00			642	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0652 SURFACE WATER AND SED.

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0690

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Arsenic	mg/kg	11/10/1993	0002	0.00 - 0.00			9.7	S	# 0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			6.5		# 0.15	-
Cadmium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.2	*	# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.57		# 0.03	-
Iron	mg/kg	11/10/1993	0002	0.00 - 0.00			17000	N	# 3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			14600	* J	# 1.1	-
Lead	mg/kg	11/10/1993	0002	0.00 - 0.00			26.3	*	# 0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			16.3	* J	# 0.01	-
Manganese	mg/kg	11/10/1993	0002	0.00 - 0.00			231		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			153	* J	# 0.3	-
Mercury	mg/kg	11/10/1993	0002	0.00 - 0.00			0.10	U	# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U	# 0.02	-
Molybdenum	mg/kg	11/10/1993	0002	0.00 - 0.00			3		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.7	N J	# 0.08	-
Nitrate as NO3	mg/kg	11/10/1993	0002	0.00 - 0.00			1.0	U J	# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U	# 0.687	-
Percent Solids	%	11/10/1993	0002	0.00 - 0.00			56.4		# 0.1	-
Selenium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.6		# 0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.2		# 0.35	-
Sulfate	mg/kg	11/10/1993	0002	0.00 - 0.00			69.5		# 1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			88.5		# 0.589	-
Uranium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.5		# 0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.89	* J	# 0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0690

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE:		DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS:			
		DATE	ID					LAB	DATA	QA	DETECTION LIMIT
Zinc	mg/kg	11/10/1993	0002	0.00 - 0.00			99.9	J	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			62.3		#	1.02	-

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0691

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Arsenic	mg/kg	11/10/1993	0003	0.00 - 0.00			14.1	S #	0.5	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			8.6	#	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			16.9	#	0.15	-
Cadmium	mg/kg	11/10/1993	0003	0.00 - 0.00			1.8	* #	0.1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			1.8	* #	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			209	#	0.75	-
Iron	mg/kg	11/10/1993	0003	0.00 - 0.00			17300	N #	3	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			16600	N #	3	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			44700	* J #	1.1	-
Lead	mg/kg	11/10/1993	0003	0.00 - 0.00			39.6	* #	0.3	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			63.9	* #	0.3	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			2650	* J #	100	-
Manganese	mg/kg	11/10/1993	0003	0.00 - 0.00			569	#	1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			601	#	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			4950	* J #	7.5	-
Mercury	mg/kg	11/10/1993	0003	0.00 - 0.00			0.10	U #	0.1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			0.10	U #	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			0.053	#	0.02	-
Molybdenum	mg/kg	11/10/1993	0003	0.00 - 0.00			2	#	1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			3	#	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			33.6	N J #	0.08	-
Nitrate as NO3	mg/kg	11/10/1993	0003	0.00 - 0.00			1.0	U J #	1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			1.0	U J #	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			3.3	B #	0.687	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0691

REPORT DATE: 12/12/2001 8:22 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Percent Solids	%	11/10/1993	0003	0.00 - 0.00			62.5	#	0.1	-
	%	11/10/1993	0004	0.00 - 0.00			60.8	#	0.1	-
Selenium	mg/kg	11/10/1993	0003	0.00 - 0.00			1.9	#	0.5	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			1.3	#	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			4.2	#	0.35	-
Sulfate	mg/kg	11/10/1993	0003	0.00 - 0.00			57.6	#	1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			60.4	#	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			26.1	#	0.589	-
Uranium	mg/kg	11/10/1993	0003	0.00 - 0.00			1.6	#	0.1	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			1.2	#	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			9	* J #	0.01	-
Zinc	mg/kg	11/10/1993	0003	0.00 - 0.00			241	#	0.5	-
	mg/kg	11/10/1993	0004	0.00 - 0.00			267	#	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			22000	#	2550	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR01, DURANGO MILL TAILINGS

LOCATION: 0691

REPORT DATE: 12/12/2001 8:22 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0587

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/30/2001	0001	0.00 - 0.00			8	#	0.15	-
Cadmium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.2	#	0.03	-
Iron	mg/kg	01/30/2001	0001	0.00 - 0.00			10200	* J #	1.1	-
Lead	mg/kg	01/30/2001	0001	0.00 - 0.00			51.4	* J #	0.01	-
Manganese	mg/kg	01/30/2001	0001	0.00 - 0.00			303	* J #	0.3	-
Mercury	mg/kg	01/30/2001	0001	0.00 - 0.00			0.063	#	0.02	-
Molybdenum	mg/kg	01/30/2001	0001	0.00 - 0.00			0.47	BN UJ #	0.08	-
Nitrate as NO3	mg/kg	01/30/2001	0001	0.00 - 0.00			11.9	#	0.687	-
Selenium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.1	#	0.35	-
Sulfate	mg/kg	01/30/2001	0001	0.00 - 0.00			645	#	0.589	-
Uranium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.3	* J #	0.01	-
Zinc	mg/kg	01/30/2001	0001	0.00 - 0.00			67.8	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0587

REPORT DATE: 12/12/2001 8:20 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0588

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	01/30/2001	0001	0.00 - 0.00			12.2	#	0.15	-
Cadmium	mg/kg	01/30/2001	0001	0.00 - 0.00			1.4	#	0.03	-
Iron	mg/kg	01/30/2001	0001	0.00 - 0.00			9830	* J #	1.1	-
Lead	mg/kg	01/30/2001	0001	0.00 - 0.00			53.1	* J #	0.01	-
Manganese	mg/kg	01/30/2001	0001	0.00 - 0.00			151	* J #	0.3	-
Mercury	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	01/30/2001	0001	0.00 - 0.00			0.48	BN UJ #	0.08	-
Nitrate as NO3	mg/kg	01/30/2001	0001	0.00 - 0.00			2.7	B #	0.687	-
Selenium	mg/kg	01/30/2001	0001	0.00 - 0.00			0.41	B #	0.35	-
Sulfate	mg/kg	01/30/2001	0001	0.00 - 0.00			13400	#	2.356	-
Uranium	mg/kg	01/30/2001	0001	0.00 - 0.00			4.5	* J #	0.01	-
Zinc	mg/kg	01/30/2001	0001	0.00 - 0.00			56.6	#	1.02	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0588

REPORT DATE: 12/12/2001 8:20 am

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

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0654 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	11/09/1993	0002	0.00 - 0.00			31.2	RX #	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			7.7	#	0.15	-
Cadmium	mg/kg	11/09/1993	0002	0.00 - 0.00			3.2	* RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1.4	#	0.03	-
Iron	mg/kg	11/09/1993	0002	0.00 - 0.00			32800	N RX #	3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			14100	* J #	1.1	-
Lead	mg/kg	11/09/1993	0002	0.00 - 0.00			106	* RX #	0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			171	* J #	0.25	-
Manganese	mg/kg	11/09/1993	0002	0.00 - 0.00			736	RX #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			895	* J #	0.3	-
Mercury	mg/kg	11/09/1993	0002	0.00 - 0.00			0.10	U RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	11/09/1993	0002	0.00 - 0.00			1	U RX #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2	N J #	0.08	-
Nitrate as NO3	mg/kg	11/09/1993	0002	0.00 - 0.00			2.3	RXJ #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Percent Solids	%	11/09/1993	0002	0.00 - 0.00			63.3	RX #	0.1	-
Selenium	mg/kg	11/09/1993	0002	0.00 - 0.00			0.6	W RX #	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1.2	#	0.35	-
Sulfate	mg/kg	11/09/1993	0002	0.00 - 0.00			196	RX #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			127	#	0.589	-
Uranium	mg/kg	11/09/1993	0002	0.00 - 0.00			1.8	RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.9	* J #	0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0654 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE:		DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS:			UN- CERTAINTY
		DATE	ID					LAB	DATA	QA	
Zinc	mg/kg	11/09/1993	0002	0.00 - 0.00			210	RX	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			489		#	1.02	-

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS
 LOCATION: 0655 RESERVED FOR CDAY
 REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	11/10/1993	0002	0.00 - 0.00			8.1	RX #	0.5	-
Cadmium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.1	S* RX #	0.1	-
Iron	mg/kg	11/10/1993	0002	0.00 - 0.00			13500	N RX #	3	-
Lead	mg/kg	11/10/1993	0002	0.00 - 0.00			25.8	S* RX #	0.3	-
Manganese	mg/kg	11/10/1993	0002	0.00 - 0.00			486	RX #	1	-
Mercury	mg/kg	11/10/1993	0002	0.00 - 0.00			0.10	U RX #	0.1	-
Molybdenum	mg/kg	11/10/1993	0002	0.00 - 0.00			8	RX #	1	-
Nitrate as NO3	mg/kg	11/10/1993	0002	0.00 - 0.00			1.5	RXJ #	1	-
Percent Solids	%	11/10/1993	0002	0.00 - 0.00			65.9	RX #	0.1	-
Selenium	mg/kg	11/10/1993	0002	0.00 - 0.00			0.5	US RX #	0.5	-
Sulfate	mg/kg	11/10/1993	0002	0.00 - 0.00			6920	I RX #	38	-
Uranium	mg/kg	11/10/1993	0002	0.00 - 0.00			2.4	RX #	0.1	-
Zinc	mg/kg	11/10/1993	0002	0.00 - 0.00			54.7	RXJ #	0.5	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0655 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

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

DIGESTION CODES:

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

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

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0656 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	11/10/1993	0002	0.00 - 0.00			12.1	RX #	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			7.5	#	0.15	-
Cadmium	mg/kg	11/10/1993	0002	0.00 - 0.00			3.6	* RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1.9	#	0.03	-
Iron	mg/kg	11/10/1993	0002	0.00 - 0.00			25300	N RX #	3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			13200	* J #	1.1	-
Lead	mg/kg	11/10/1993	0002	0.00 - 0.00			159	* RX #	0.3	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			198	* J #	0.25	-
Manganese	mg/kg	11/10/1993	0002	0.00 - 0.00			1200	RX #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			1440	* J #	0.3	-
Mercury	mg/kg	11/10/1993	0002	0.00 - 0.00			0.10	U RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	11/10/1993	0002	0.00 - 0.00			4	RX #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			2.4	N J #	0.08	-
Nitrate as NO3	mg/kg	11/10/1993	0002	0.00 - 0.00			1.0	U RXJ #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.69	U #	0.687	-
Percent Solids	%	11/10/1993	0002	0.00 - 0.00			49.9	RX #	0.1	-
Selenium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.0	RX #	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.73	#	0.35	-
Sulfate	mg/kg	11/10/1993	0002	0.00 - 0.00			14.2	RXJ #	1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			81.5	#	0.589	-
Uranium	mg/kg	11/10/1993	0002	0.00 - 0.00			2.3	RX #	0.1	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			0.85	* J #	0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0656 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE:		DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS:			UN- CERTAINTY
		DATE	ID					LAB	DATA	QA	
Zinc	mg/kg	11/10/1993	0002	0.00 - 0.00			702	RX	#	0.5	-
	mg/kg	01/30/2001	0001	0.00 - 0.00			552		#	1.02	-

DIGESTION CODES:

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.

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0657 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN- CERTAINTY
Arsenic	mg/kg	11/10/1993	0002	0.00 - 0.00			11.9	RX #	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			8.3	#	0.15	-
Cadmium	mg/kg	11/10/1993	0002	0.00 - 0.00			4.0	S* RX #	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			1.7	#	0.03	-
Iron	mg/kg	11/10/1993	0002	0.00 - 0.00			16500	N RX #	3	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			14500	* J #	1.1	-
Lead	mg/kg	11/10/1993	0002	0.00 - 0.00			75.6	* RX #	0.3	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			157	* J #	0.25	-
Manganese	mg/kg	11/10/1993	0002	0.00 - 0.00			825	RX #	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			1070	* J #	0.3	-
Mercury	mg/kg	11/10/1993	0002	0.00 - 0.00			0.10	U RX #	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			0.02	U #	0.02	-
Molybdenum	mg/kg	11/10/1993	0002	0.00 - 0.00			1	U RX #	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			1.6	N J #	0.08	-
Nitrate as NO3	mg/kg	11/10/1993	0002	0.00 - 0.00			1.0	U RXJ #	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			1.7	B #	0.687	-
Percent Solids	%	11/10/1993	0002	0.00 - 0.00			60.7	RX #	0.1	-
Selenium	mg/kg	11/10/1993	0002	0.00 - 0.00			0.7	W RX #	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			1	#	0.35	-
Sulfate	mg/kg	11/10/1993	0002	0.00 - 0.00			53.7	RX #	1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			68	#	0.589	-
Uranium	mg/kg	11/10/1993	0002	0.00 - 0.00			1.7	RX #	0.1	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			0.98	* J #	0.01	-

SEDIMENT CHEMISTRY DATA BY LOCATION FOR SITE DUR02, DURANGO RAFFINATE PONDS

LOCATION: 0657 RESERVED FOR CDAY

REPORT DATE: 12/12/2001 8:20 am

PARAMETER	UNITS	SAMPLE:		DEPTH RANGE (FT BLS)	DIGEST. CODE	SAMP DESC.	RESULT	QUALIFIERS:			UN- CERTAINTY
		DATE	ID					LAB	DATA	QA	
Zinc	mg/kg	11/10/1993	0002	0.00 - 0.00			254	RX	#	0.5	-
	mg/kg	01/31/2001	0001	0.00 - 0.00			435		#	1.02	-

DIGESTION CODES:

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.