Appendix A

Borehole Logs

Date Start/Finish: 11/06/95 - 11/06/95 **Drilling Company:** CTL Engineering **Driller's Name:** Irv Crabtree **Drilling Method:** Hollow Stem Auger **Rig Type:** CME-55 **Spoon Size:** 2-in **Hammer Weight:** 140-lb **Height of Fall:** 30-in.	**Borehole Depth:** 27.0 ft. **Geologist:** Chris B. Tucker	**Boring No.** BH-EFA-1 **Client:** Thomson Consumer Electronics Facility **Location:** Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
										GROUND SURFACE	
		1		1 2 4 4	6	0.5				Dark brown CLAY loam with orange mottling.	Cement grout.
		2		4 6 8 5	14	2.0				Dark brown CLAY with orange mottling.	
										Brown Clayey SAND, orange mottling.	
										Brown Sandy CLAY.	
5		3		4 6 7 8	13	1.5				Brown Silty CLAY.	
										Brown Silty CLAY with very fine Sand, orange mottling.	
		4		4 6 8 14	14	2.0				Gray brown Clayey SILT.	
										Fine to medium SAND with fine Gravel.	
		5		4 9 9 13	18	1.2				Fine to medium SAND and poorly sorted GRAVEL. Wet.	
10		6		10 15 13 19	28	1.5				Poorly sorted, rounded SAND and GRAVEL with some Cobbles.	
		7		10 21 33 23	54	1.0				Fine to coarse SAND and poorly sorted GRAVEL.	
15		8		23 13	28	1.5				Medium to coarse SAND, fine Gravel.	

Remarks:

Backfilled boring to grade with grout.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/07/95 / 11/07/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Borehole Depth: 32 ft.

Geologist: Chris B. Tucker

Well No: BH/MW-14

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		4 5 5 4	59	1.3				Brown Sandy CLAY loam.
										Brown fine to medium SAND.
		2		7 10 15 11	25	1.5				Medium SAND with Silt.
										Dark brown Clayey SILT.
										Brown Sandy SILT.
		3		4 9 13 8	22	2.0				Brown Clayey SAND.
5										Dark brown Silty CLAY.
		4		7 4 6 19	10	0.3				
										Dark Brown Sandy CLAY.
		5		7 4 5 5	9	1.5				
										Fine to medium SAND, fine Gravel.
10										Very dark brown Clayey SILT (organic).
		6		4 3 7 9	10	1.3				Dark brown Sandy CLAY, orange mottling.
										Dark brown Sandy SILT with Gravel.
		7		8 9 12 13	21	1.5				Dark brown Clayey SAND, large Pebbles.
										Medium SAND, fine Gravel, wet.
15		8		7 17	43	1.5				Medium SAND.

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

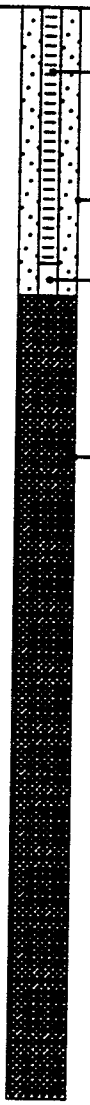
Location:
Circleville, Ohio

Log Number: BH/MW-14

Total Depth = 32 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
		8		26 22	43	1.5				Medium SAND.
										Poorly sorted GRAVEL.
		9		7 13 17 18	30	1.5				Medium to coarse SAND.
										Poorly sorted GRAVEL with rock fragments.
		10		17 18 25 25	43	1.5				Fine to medium SAND.
										Medium SAND and poorly sorted GRAVEL.
20		11		10 18 18 35	36	2.0				Medium to coarse SAND, fine Gravel.
										Medium to coarse SAND with poorly sorted Gravel.
		12		15 18 21 27	39	1.5				
25		13		10 15 28 23	43	2.0				Medium to coarse SAND.
										Fine SAND.
										Medium to coarse SAND.
		14		10 13 30 33	43	2.0				Medium SAND.
										Medium SAND and GRAVEL, dense.
		15		3 8 10 13	18	2.0				Medium SAND.
										Medium to coarse SAND, fine Gravel.
30		16		10 17 50 (0.3')	67	2.0				Very fine SAND.
										Medium SAND.
										Fine SAND.
										Medium SAND.
										Total depth of boring 32.0 ft. bgs.
35										

Construction



2-inch diameter Schedule 40 PVC well screen 9.0' ags to 19.0' bgs.

Sand pack 7.0' to 19.5' bgs.

2-inch diameter Schedule 40 PVC sump 19.0' ags to 19.5' bgs.

Bentonite grout 19.5' to 32.0' bgs.

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/02/95 / 11/06/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger

Auger Size: 8.25 in.

Spoon Size: 2 in.

Borehole Depth: 42 ft.

Geologist: Chris B. Tucker

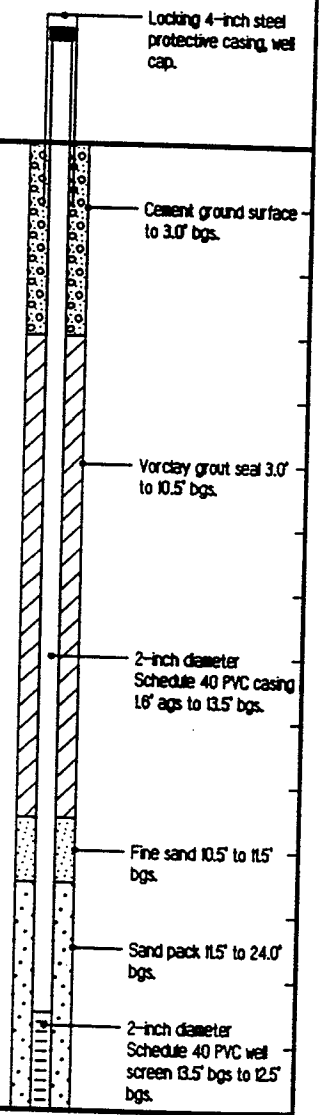
Well No: BH/MW-15

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		3 7 9 14	16	1.2				Dark brown Silty loam.
		2		8 8 8 11	16	1.0				Dark brown Sandy SILT. Hard, brittle. Silty SAND.
5		3		7 6 4 5	10	2.0				Medium SAND with poorly sorted Pebbles.
		4		4 6 8 9	14	1.5				Medium SAND with rock fragments and small Pebbles.
		5		4 5 7 12	12	1.5				Medium SAND, poorly sorted Pebbles.
10		6		10 13 15 9	28	1.0				Medium to coarse SAND. Clayey SAND with large Pebbles and Cobbles.
		7		11 50 (0.3')	50	1.0				Medium SAND with rock fragments and Gravel.
15		8		7 26	53	0.0				No Recovery

Well Construction



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

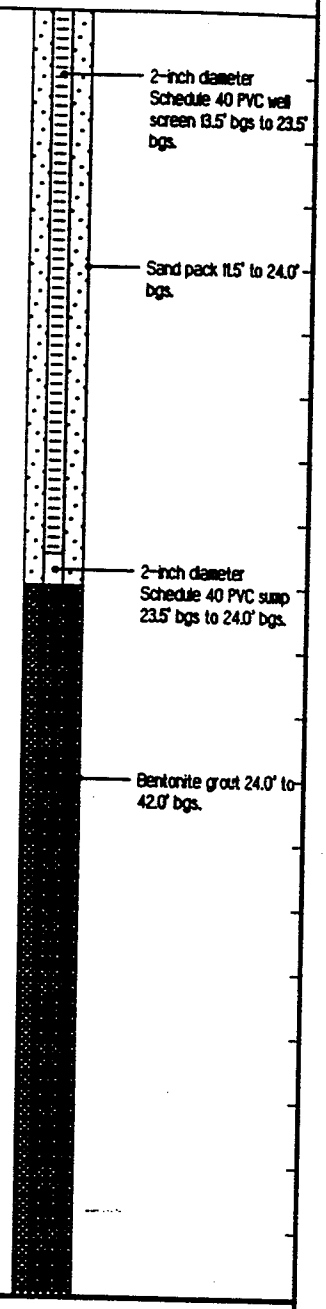
Location:
Circleville, Ohio

Well No: BH/MW-15

Total Depth = 42 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
		8		27 32	53	0.0				No Recovery
		9		20 27 36 39	63	1.5				Coarse SAND and fine GRAVEL. Gravelly Silty SAND, hard, brittle. Clayey SAND with Gravel.
		10		15 23 37 33	60					Gravelly Silty SAND, hard, dense. Fine GRAVEL and SAND, wet.
20		11		25 27 30 31	57	1.7				Medium SAND, rock fragments with Pebbles, some clay. Rock fragments.
		12		11 20 25 30	45	1.5				Fine to medium SAND, poorly sorted Gravel. Medium SAND, Cobbles. Medium SAND and fine GRAVEL.
25		13		15 20 32 32	52	1.5				
		14		17 27 30 32	57	1.5				Fine to medium SAND. Fine to medium SAND with poorly sorted Gravel.
		15		14 22 34 40	56	1.0				Fine to mediun SAND, fine Gravel.
30		16		14 20 30 32	50	1.5				Rock fragments. Mediund SAND with very fine Gravel.
		18		14 21 23 30	44	2.0				Medium SAND with fine Gravel.
35		20		17 23	58	2.0				Medium to coarse SAND.

Well Construction



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

Well No: BH/MW-15

Total Depth = 42 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		20		35 32	58	2.0				Medium to coarse SAND.	
		22		10 20 32 63	52	2.0				Medium to coarse SAND with Gravel.	Bentonite grout 24.0' to 42.0' bgs.
		24		11 17 32 53	49	1.2				Medium to coarse SAND and poorly sorted Gravel.	
40		26		30 45 50 73	95	2.0				Fine to medium SAND. Gravelly SAND. Very Dense.	
										Total depth of boring 42.0 ft. bgs.	
45											
50											
55											

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/01/95 / 11/02/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Borehole Depth: 54 ft.

Geologist: Chris B. Tucker

Well No: BH/MW-16

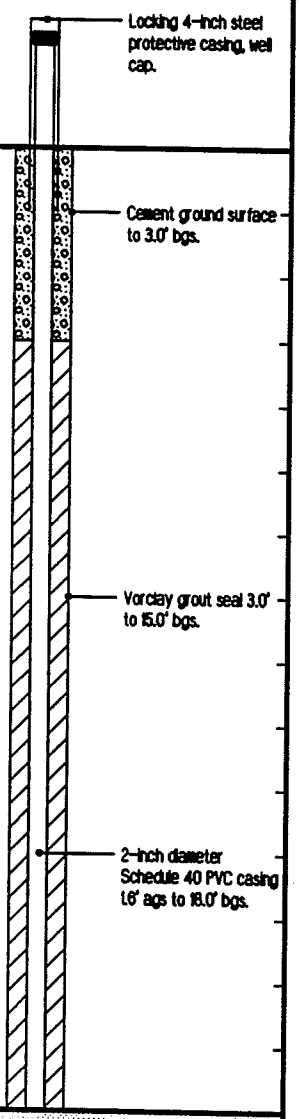
Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
		1		3 13 17 14	30	2.0				Dark brown loam.
										Brown SILT with large Pebbles.
										Weathered Siltstone.
										Silty CLAY, with small Pebbles, brittle.
		2		6 12 17 13	29	1.5				Dark Brown SILT, hard, brittle.
5		3		3 8 7 6	15	1.0				Reddish brown SILT, fine weathered rock.
		4		8 10 10 8	20	1.5				Light brown SILT.
										Fine to coarse SAND.
										SAND, weathered rock.
										Fine SAND, pebbles.
		5		7 6 6 13	12	1.5				Fine brown SAND.
10		6		7 5 5 7	10	1.5				
		7		4 5 7 12	12	2.0				
15		8		7 7	15	1.5				Medium to coarse SAND, Gravel.

GROUND SURFACE

Construction



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

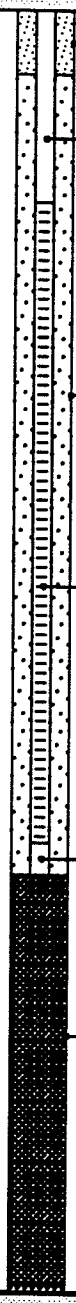
Location:
Circleville, Ohio

Log Number: BH/MW-16

Total Depth = 54 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
		8		8 11	15	1.5				Medium to coarse SAND, Gravel.
		9		4 4 6 15	10	1.5				Medium to coarse SAND.
		10		15 11 10 20	21	1.5				Brown Clayey SILT. Brown Clayey SILT with rock fragments.
20		11		18 21 18 21	39	2.0				Brown Clayey SILT. Dark brown SILT, hard, brittle.
		12		14 25 26 30	51	1.5				Brown Sandy SILT. Clayey SILT. Medium to coarse SAND, poorly sorted Gravel, moist.
25		13		15 25 40 43	65	1.5				Medium to coarse SAND, Gravel, wet. Clayey SILT. Clayey SAND, Siltstone.
		14		22 36 50 (0.4')	86	1.2				SAND, poorly sorted Gravel. Coarse SAND, fine Gravel. Coarse SAND, fine Gravel, rock fragments.
		15		27 50 50	100	1.5				Fine to medium SAND. SAND and fine Gravel, large Cobbles.
30		16		40 43 46 43	89	1.0				Fine to medkund SAND. Fine to medkund SAND, trace Silty Clay.
		18		15 17 17 24	34	1.2				Medium to coarse SAND, fine Gravel.
35		20		6 15	32	2.0				Medium to coarse SAND.

Construction



- Fine sand 15.0' to 18.0' bgs.
- 2-inch diameter Schedule 40 PVC casing 1.6' ags to 18.0' bgs.
- Sand pack 18.0' to 28.5' bgs.
- 2-inch diameter Schedule 40 PVC well screen 18.0' ags to 28.0' bgs.
- 2-inch diameter Schedule 40 PVC sump 28.0' ags to 28.5' bgs.
- Bentonite grout 24.0' to 42.0' bgs.

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

Log Number: BH/MW-16

Total Depth = 54 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Construction
		20		17 19	32	2.0				Fine to medium SAND.	Bentonite grout 24.0' to 42.0' bgs.
		22		17 29 47 50	76	2.0				Medium to coarse SAND, fine Gravel.	
		24		17 23 56 64	79	2.0				Fine SAND. Fine to medium SAND. Medium SAND, Cobbles. Medium SAND, fine Gravel.	
40		26		24 32 33 35	65	2.0				Fine to medium SAND. Medium to coarse SAND. Medium to coarse SAND, large Pebbles.	
		27		10 12 27 32	39	2.0				Fine to medium SAND. Coarse SAND, fine Gravel.	
45		28		22 33 46 54	79	2.0				Fine SAND. Medium SAND with Pebbles.	
		29		15 30 50	80	2.0				Fine to medium SAND. Coarse SAND. Fine SAND with rock fragments.	
		30		20 37 46 53	82	2.0				Medium to coarse SAND, fine Gravel. Clayey SAND, rock fragments.	
50		31		20 37 50 (0.3')	87	2.0				Medium to coarse SAND, Gravel.	
		32				0.5				Silty CLAY, hard, brittle. Silty CLAY with fine Gravel, coarse Sand.	
55										Total depth of boring 54.0 ft. bgs.	

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 06/27/96 / 06/27/96
Drilling Company: CTL Engineering
Driller's Name: Roger Gambel
Drilling Method: Hollow Stem Auger

Auger Size: 8.25 in.

Spoon Size: 2 in.

Borehole Depth: 26 ft.

Geologist: Karen A. Goldenberg

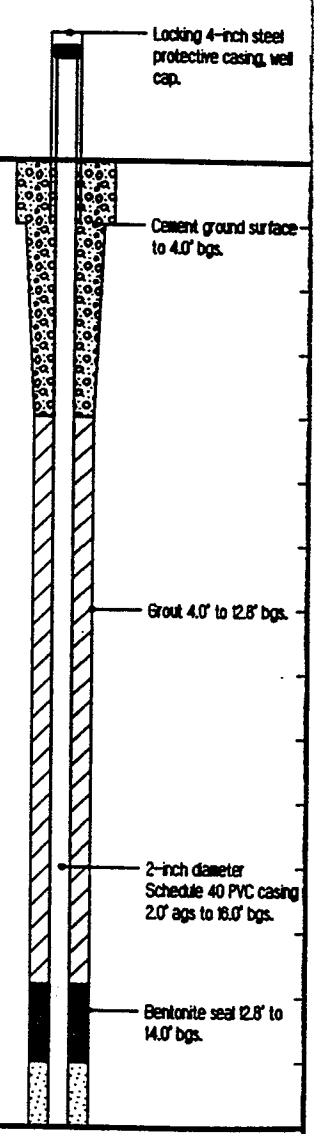
Well No: BH/MW-16R

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		6 11 16 7	17	1.0				Dark brown SILT, little Clay, trace fine Sand, some roots.
		2		5 4 6 7	10	1.5				Little to trace fine Sand, trace fine Gravel.
5		3		7 15 11 15	26	0.8				Tan fine SAND, trace fine Gravel, loose, dry. Dark brown SILT, little to some fine Sand.
		4		7 6 6 7	12	1.6				Tan fine SAND, trace fine Gravel, loose, dry. Little fine Gravel, trace medium Gravel, loose.
		5		4 4 4 5	8	1.5				Well sorted fine SAND, trace to little Silt, damp.
10		6		6 4 4 5	8	2.0				Damp to moist.
		7		5 7 8 8	15	1.2				Fine to coarse SAND, little Silt and fine Gravel.
15		8		9 11	37	1.5				Grades to tan fine to medium SAND.

Well Construction



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

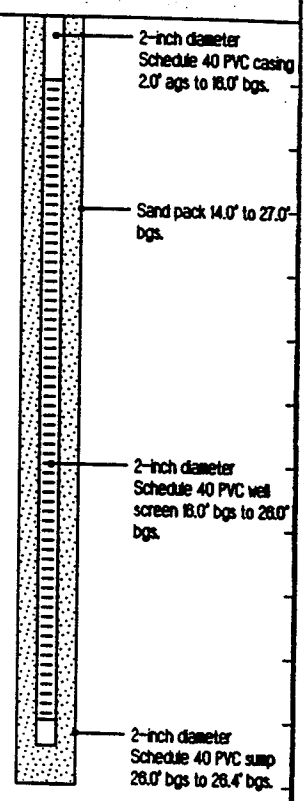
Location:
Circleville, Ohio

Well No: BH/MW-18R

Total Depth = 28 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
		8		26 17	37	1.5				At 15.8' bgs. zones of tan Silt and Clay with red iron staining, trace coarse Sand, some compact dry clay.
		9		12 12 12 7	24	1.2				Fine to coarse SAND, little Silt and fine Gravel.
		10		6 11 27 28	38	0.2				Thin, hard, compact, redish brown Clay seam, little moist Clay. Grey rock lodged in tip of sampler.
20		11		11 20 22 24	42	1.8				Brown SILT, little fine Gravel, moist to wet.
		12		8 17 20 24	37	1.2				Fine to coarse SAND, little fine Gravel, trace Silt, wet. Saturated. Some well sorted fine to medium Gravel, little Silt.
25		13		37 38 50 (0.3')	88	1.0				Silt, nearly competent. Fine to coarse SAND, little fine Gravel, saturated.
30										Total depth of boring 27.0 ft. bgs.
35										

Well Construction



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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

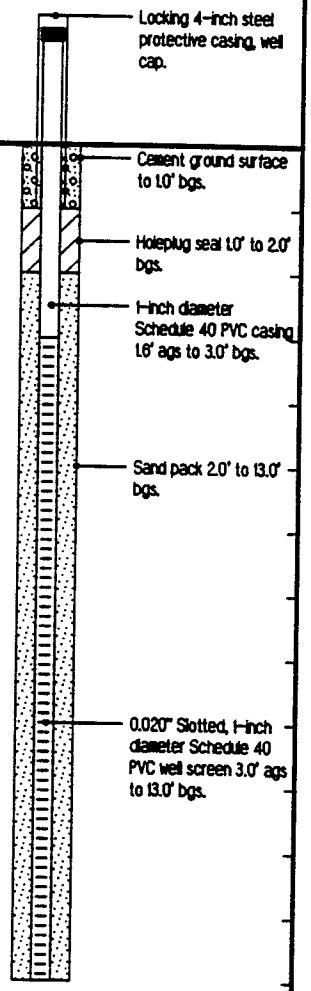
Date Start/Finish: 11/07/95 / 11/07/95
Drilling Company: CTL Engineering
Drilling Method: Hollow Stem Auger
Auger Size: 8.25 in.
Spoon Size: 2 in.

Borehole Depth: 13 ft.
Geologist: Chris B. Tucker

Well No: PZ-1
Client: Thomson Consumer Electronics Facility
Location: Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		1 3 4 5	7	1.0				Dark brown SILT loam.
										Dark brown SILT.
		2		4 5 6 7	11	0.7				Brown Clayey SILT.
5		3		4 11 11 19	22	1.0				Fine SAND.
		4		16 17 18 19	35	1.0				Poorly sorted SAND and GRAVEL. Wet. Poorly sorted SAND and GRAVEL, Cobbles, saturated.
		5		9 15 16 16	31	0.5				Medium SAND.
10		6		7 10 12 15	22	1.3				Poorly sorted GRAVEL and Rock fragments.
										Total depth of boring 13.0 ft. bgs.
15										

Construction



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Project: 100.51
Script: nbblwell
Date: 04/17/96

Date Start/Finish: 11/08/95 / 11/08/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Well Casing: ft. (amsl)

Borehole Depth: 13 ft.

Geologist: Chris B. Tucker

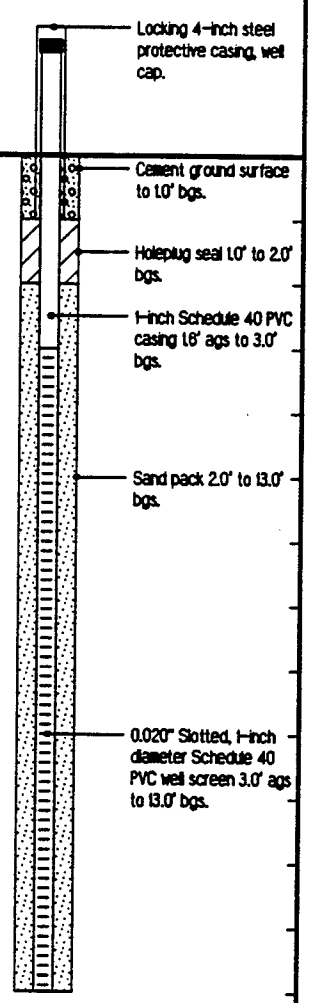
Well No: PZ-2

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		1 3 4 6	7	1.0				Dark brown SILT loam.
										Brown Gravelly SILT.
		2		8 11 13 10	24	1.0				Brown Sandy SILT.
		3		11 7 9 12	16	1.5				Rock fragments, Sandy Gravel.
5										Medium SAND, fine Gravel.
										Medium SAND, wet.
		4		7 12 13 17	25	1.0				Coarse SAND and poorly sorted GRAVEL, saturated.
		5		11 13 15 18	28	1.5				Fine to medium SAND.
										Coarse SAND and fine Gravel.
10										Coarse SAND and poorly sorted Gravel.
		6		8 12 15 25	27	1.0				
										Total depth of boring 13.0 ft. bgs.
15										

Construction



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/08/95 / 11/08/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Well Casing: ft. (amsl)

Borehole Depth: 12.5 ft.

Geologist: Chris B. Tucker

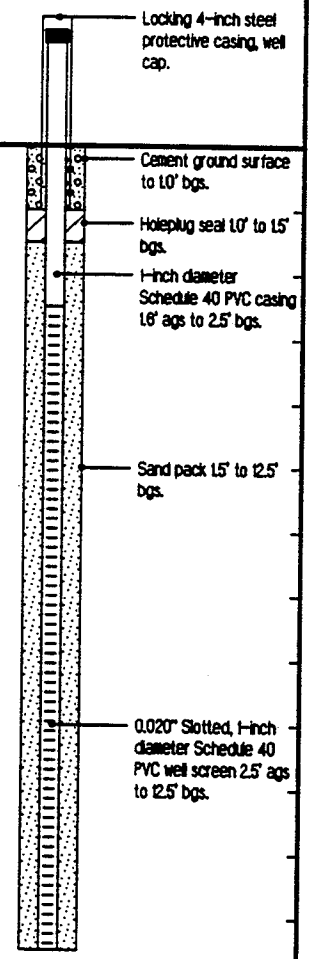
Well No: PZ-3

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		2 2 4 5	6	1.0				Black SILT loam. Brown Clayey SILT with Rock fragments.
		2		5 8 11 9	19	1.5				Brown Sandy SILT. Brown Sandy SILT, gray mottles.
5		3		6 8 9 10	17	1.5				Yellow medium SAND, moist. Wet.
		4		7 8 13 18	21	2.0				Medium to coarse SAND, fine Gravel, saturated. Medium SAND.
		5		8 19 30 32	49	2.0				Medium SAND and poorly sorted GRAVEL.
10										Medium SAND.
		6		10 15 27 32	42	1.5				Medium SAND and poorly sorted GRAVEL. Medium to coarse SAND. Fine to medium SAND.
										Total depth of boring 12.5 ft. bgs.
15										

Construction



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/08/95 / 11/08/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Borehole Depth: 12.0 ft.

Geologist: Chris B. Tucker

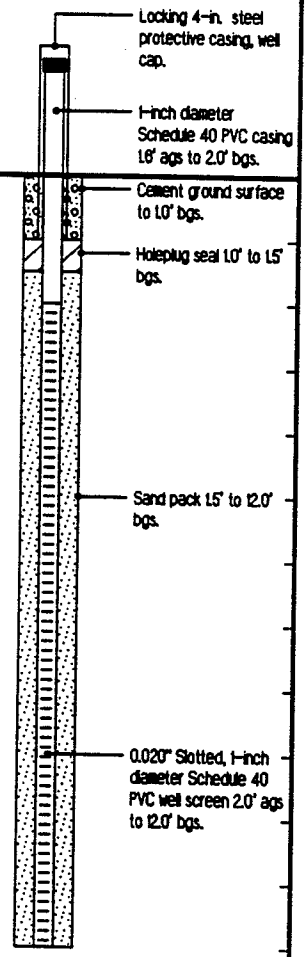
Well No: PZ-4

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		1 2 3 4	5	0.5				Darkbrown SILT loam.
		2		8 10 9 11	19	1.5				Fine SAND, Rock fragments.
5		3		7 4 4 6	8	1.5				Medium SAND, moist. Wet.
										Gray Sandy CLAY, saturated.
		4		6 6 12 16	18	1.5				Medium to coarse SAND with poorly sorted Gravel.
		5		7 15 21 28	36	1.0				Fine to Medium SAND.
										Medium SAND, fine Gravel.
10										Medium to coarse SAND, poorly sorted Gravel.
		6		8 12 19 20	31					Medium SAND.
										Fine to medium SAND with fine Gravel.
										Total depth of boring 12.0 ft. bgs.
15										

Construction



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Project: 100.51 Script: nbblwell Date: 04/17/96

Date Start/Finish: 11/08/95 / 11/08/95
Drilling Company: CTL Engineering

Drilling Method: Hollow Stem Auger
Bit Size: N/A in.
Auger Size: 8.25 in.

Spoon Size: 2 in.

Well Casing: ft. (amsl)

Borehole Depth: 17 ft.

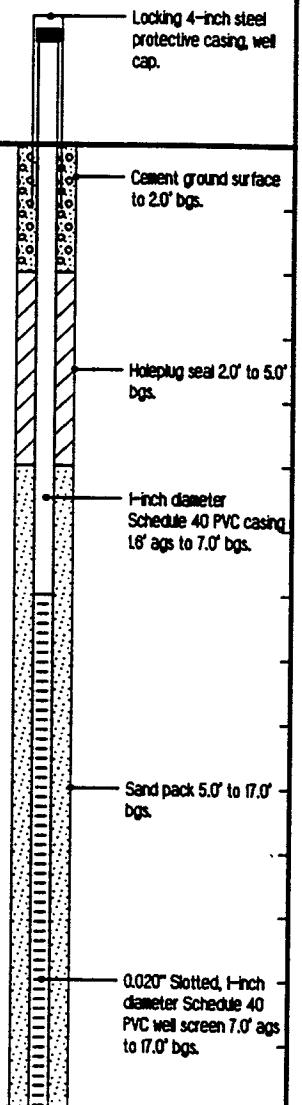
Geologist: Chris B. Tucker

Well No: PZ-5

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
										GROUND SURFACE
		1		1 2 3 4	5	0.7				Dark brown SILT loam.
										Brown Clayey SILT.
		2		4 4 5 7	9	1.0				
										Brown Silty SAND.
										Brown Clayey SILT.
5		3		9 10 11 13	21	1.5				Gray brown SILT, orange mottles.
		4		3 8 8 10	16	1.5				Gray SILT with some Sand. Moist.
		5		14 19 29 32	48	2.0				Brown SILT.
										Brown SILT with Cobbles.
10		6		20 23 24 28	52	1.7				Coarse SAND and poorly sorted GRAVEL, saturated.
				20 22 30 34	52	1.5				Medium SAND.
										Poorly sorted GRAVEL.
15				8 13	32					Coarse SAND and fine GRAVEL.



Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Client:
Thomson Consumer Electronics Facility

Location:
Circleville, Ohio

Log Number: PZ-5

Total Depth = 17 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Construction
				19 21	32					Coarse SAND and fine GRAVEL with Silt.	Sand pack 5.0' to 17.0' bgs. 0.020" Slotted, 1-inch diameter Schedule 40 PVC well screen 7.0' ags to 17.0' bgs.
										Total depth of boring 17.0 ft. bgs.	
20											
25											
30											
35											

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 11/09/95 / 11/09/95 **Drilling Company:** CTL Engineering **Drilling Method:** Hollow Stem Auger **Bit Size:** N/A in. **Auger Size:** 8.25 in. **Spoon Size:** 2 in.	**Well Casing:** ft. (amsl) **Borehole Depth:** 13 ft. **Geologist:** Chris B. Tucker	**Well No:** PZ-6 **Client:** Thomson Consumer Electronics Facility **Location:** Circleville, Ohio

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Construction
										GROUND SURFACE	Locking 4-inch steel protective casing, well cap.
		1		1 2 2 4	4	1.0				Dark brown SILT loam.	Cement ground surface to 1.0' bgs. Holeplug seal 1.0' to 2.0' bgs.
		2		6 8 5 5	13	1.0				Dark brown SILT.	1-inch diameter Schedule 40 PVC casing 1.6' ags to 3.0' bgs.
5		3		7 6 4 5	10	1.0				Sandy GRAVEL, moist. Brown Silty CLAY, plastic.	Sand pack 2.0' to 13.0' bgs.
		4		4 7 19 9	26	1.5				Clayey SILT with Gravel (Till), wet.	
10		5		5 6 7 10	13	1.0				Clayey SILT with fine Sand and Gravel.	0.020" Slotted, 1-inch diameter Schedule 40 PVC well screen 3.0' ags to 13.0' bgs.
		6		6 7 11 13	18	0.7					
										Total depth of boring 13.0 ft. bgs.	
15											

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Appendix B

Data Summary Tables

TABLE CIRSDO1. DATA SUMMARY OF ORGANIC ANALYSES IN SEDIMENT

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Sample Composite Code	Aroclor(R)-1016 ug/kg dry	Qual-	Aroclor(R)-1221 ug/kg dry	Qual-	Aroclor(R)-1232 ug/kg dry	Qual-	Aroclor(R)-1242 ug/kg dry	Qual-	Aroclor(R)-1248 ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	GSD2-0		SEDT	0	6	IN	SINGL	350	U	350	U	350	U	350	U	350	U
CIRCLE	SD0503	G-SD-3	10/24/95	GSD3-0		SEDT	0	6	IN	SINGL	540	U	540	U	540	U	540	U	540	U
CIRCLE	SD0504	G-SD-3	10/24/95	GSD3-0	A	SEDT	0	6	IN	SINGL	300	U	300	U	300	U	300	U	300	U
CIRCLE	SD1111	G-SD-13	08/19/97	GSD13-A0		SEDT	0	6	IN	SINGL										
CIRCLE	SD1112	G-SD-14	08/19/97	GSD14-A0		SEDT	0	6	IN	SINGL										
CIRCLE	SD1113	G-SD-15	08/19/97	GSD15-A0		SEDT	0	6	IN	SINGL										
CIRCLE	SD1114	G-SD-16	08/19/97	GSD16-A0		SEDT	0	6	IN	SINGL										
CIRCLE	SD2111	G-SD-13	08/19/97	GSD13-A1		SEDT	6	12	IN	SINGL										

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Sample Composite Code	Benzo[a]-pyrene ug/kg dry	Qual-	Benzo[a]-pyrene ug/kg wet	Qual-	Benzo[b]-fluoranthene ug/kg dry	Qual-	Benzo[b]-fluoranthene ug/kg wet	Qual-	Bis(2-chloro-ethoxy)-methane ug/kg dry	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95	GSD1-0		SEDT	0	6	IN	SINGL										
CIRCLE	SD0501	G-SD-1	10/24/95	GSD1-0	A	SEDT	0	6	IN	SINGL										
CIRCLE	SD0502	G-SD-2	10/24/95	GSD2-0		SEDT	0	6	IN	SINGL	5200	J			7400	J			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95	GSD3-0		SEDT	0	6	IN	SINGL	21000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95	GSD3-0	A	SEDT	0	6	IN	SINGL	7200	J			11000	J			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97	GSD13-A0		SEDT	0	6	IN	SINGL			460				680			
CIRCLE	SD1112	G-SD-14	08/19/97	GSD14-A0		SEDT	0	6	IN	SINGL			2000				3300			
CIRCLE	SD1113	G-SD-15	08/19/97	GSD15-A0		SEDT	0	6	IN	SINGL			2100				2600			
CIRCLE	SD1114	G-SD-16	08/19/97	GSD16-A0		SEDT	0	6	IN	SINGL			130				220			
CIRCLE	SD2111	G-SD-13	08/19/97	GSD13-A1		SEDT	6	12	IN	SINGL			630				850			

Survey	Sample Number	Station	Date	Aroclor(R)-1254 ug/kg dry	Qual-	Aroclor(R)-1260 ug/kg dry	Qual-	1,1-Dichloro-ethane ug/kg dry	Qual-	1,1-Dichloro-ethene ug/kg dry	Qual-	1,1,1-Trichloro-ethane ug/kg dry	Qual-	1,1,2-Trichloro-ethane ug/kg dry	Qual-	1,1,2,2-Tetrachloro-ethane ug/kg dry	Qual-	1,2-Dichloro-ethane ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	350	U	350	U	52	U	52	U	52	U	52	U	52	U	52	U
CIRCLE	SD0503	G-SD-3	10/24/95	540	U	540	U	16	U	16	U	16	U	16	U	16	U	16	U
CIRCLE	SD0504	G-SD-3	10/24/95	300	U	300	U	18	U	18	U	18	U	18	U	18	UJ	18	U
CIRCLE	SD1111	G-SD-13	08/19/97																
CIRCLE	SD1112	G-SD-14	08/19/97																
CIRCLE	SD1113	G-SD-15	08/19/97																
CIRCLE	SD1114	G-SD-16	08/19/97																
CIRCLE	SD2111	G-SD-13	08/19/97																

Survey	Sample Number	Station	Date	Bis(2-chloro-ethoxy)-methane ug/kg wet	Qual-	Benzo[ghi]-perylene ug/kg dry	Qual-	Benzo[ghi]-perylene ug/kg wet	Qual-	Benzo[k]-fluoranthene ug/kg dry	Qual-	Benzo[k]-fluoranthene ug/kg wet	Qual-	Butylbenzyl phthalate ug/kg dry	Qual-	Butylbenzyl phthalate ug/kg wet	Qual-	Carbazole ug/kg dry	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95																
CIRCLE	SD0501	G-SD-1	10/24/95																
CIRCLE	SD0502	G-SD-2	10/24/95			3200	J			14000	UJ			14000	UJ			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95			2700	J			21000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95			59000	UJ			59000	UJ			59000	UJ			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			370				350				1000	U		
CIRCLE	SD1112	G-SD-14	08/19/97	940	U			1300				1300				940	U		
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			790				1400				1100	U		
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			90				88				620	U		
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			390				460				1000	U		

Survey	Sample Number	Station	Date	1,2-Dichloro-propane ug/kg dry	Qual-	1,2-Dichloro-ethene isomers (total) ug/kg dry	Qual-	2-Butanone (methyl-ethyl ketone, MEK) ug/kg dry	Qual-	2-Hexanone ug/kg dry	Qual-	Dibromochloro-methane ug/kg dry	Qual-	Bromodichloro-methane ug/kg dry	Qual-	Trichloro-ethene ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	52	U	52	U	38	J	210	U	52	U	52	U	52	U
CIRCLE	SD0503	G-SD-3	10/24/95	16	U	16	U	42	J	65	U	16	U	16	U	16	U
CIRCLE	SD0504	G-SD-3	10/24/95	18	U	18	U	27	J	72	UJ	18	U	18	U	18	U
CIRCLE	SD1111	G-SD-13	08/19/97														
CIRCLE	SD1112	G-SD-14	08/19/97														
CIRCLE	SD1113	G-SD-15	08/19/97														
CIRCLE	SD1114	G-SD-16	08/19/97														
CIRCLE	SD2111	G-SD-13	08/19/97														

Survey	Sample Number	Station	Date	Carbazole ug/kg wet	Qual-	Chrysene ug/kg dry	Qual-	Chrysene ug/kg wet	Qual-	Diethyl phthalate ug/kg dry	Qual-	Diethyl phthalate ug/kg wet	Qual-	Dibenzofuran ug/kg dry	Qual-	Dibenzofuran ug/kg wet	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95														
CIRCLE	SD0501	G-SD-1	10/24/95														
CIRCLE	SD0502	G-SD-2	10/24/95			4900	J			14000	UJ			14000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95			3200	J			21000	UJ			21000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95			7400	J			59000	UJ			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			600				1000	U			1000	U
CIRCLE	SD1112	G-SD-14	08/19/97	300				2100				940	U			940	U
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			220				1100	U			1100	U
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			180				620	U			620	U
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			810				1000	U			1000	U

Survey	Sample Number	Station	Date	4-Methyl-2-pentanone (MIBK) ug/kg dry	Qual-	1,1,2,2-Tetrachloro-ethene ug/kg dry	Qual-	Acetone ug/kg dry	Qual-	Benzene ug/kg dry	Qual-	Bromomethane ug/kg dry	Qual-	Bromoform ug/kg dry	Qual-	cis-1,3-Dichloro-propene ug/kg dry	Qual-	Carbon tetrachloride ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	210	U	52	U	260	UJ	52	U	100	U	52	U	52	U	52	U
CIRCLE	SD0503	G-SD-3	10/24/95	65	U	16	U	160	J	16	U	33	U	16	U	16	U	16	U
CIRCLE	SD0504	G-SD-3	10/24/95	72	UJ	18	UJ	91	UJ	18	U	36	U	18	U	18	U	18	U
CIRCLE	SD1111	G-SD-13	08/19/97																
CIRCLE	SD1112	G-SD-14	08/19/97																
CIRCLE	SD1113	G-SD-15	08/19/97																
CIRCLE	SD1114	G-SD-16	08/19/97																
CIRCLE	SD2111	G-SD-13	08/19/97																

Survey	Sample Number	Station	Date	Di-n-butyl phthalate ug/kg dry	Qual-	Di-n-butyl phthalate ug/kg wet	Qual-	Dimethyl phthalate ug/kg dry	Qual-	Dimethyl phthalate ug/kg wet	Qual-	Fluoranthene ug/kg dry	Qual-	Fluoranthene ug/kg wet	Qual-	Fluorene ug/kg dry	Qual-	Fluorene ug/kg wet	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95																
CIRCLE	SD0501	G-SD-1	10/24/95																
CIRCLE	SD0502	G-SD-2	10/24/95	14000	UJ			14000	UJ			12000	J			14000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95	21000	UJ			21000	UJ			8000	J			21000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95	59000	UJ			59000	UJ			15000	J			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97			1000	U			1000	U			880				1000	U
CIRCLE	SD1112	G-SD-14	08/19/97			940	U			940	U			4100				940	U
CIRCLE	SD1113	G-SD-15	08/19/97			1100	U			1100	U			4400				1100	U
CIRCLE	SD1114	G-SD-16	08/19/97			620	U			620	U			280				620	U
CIRCLE	SD2111	G-SD-13	08/19/97			1000	U			1000	U			1100				1000	U

Survey	Sample Number	Station	Date	Chloro-form ug/kg dry	Qual-	Chloro-benzene ug/kg dry	Qual-	Chloro-ethane ug/kg dry	Qual-	Chloro-methane ug/kg dry	Qual-	Carbon disulfide ug/kg dry	Qual-	Ethyl-benzene ug/kg dry	Qual-	Methylene chloride (dichloro-methane) ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	52	U	52	U	100	U	100	U	23	J	52	U	52	U
CIRCLE	SD0503	G-SD-3	10/24/95	16	U	16	U	33	U	33	U	24	J	16	U	16	U
CIRCLE	SD0504	G-SD-3	10/24/95	18	U	18	UJ	36	U	36	U	13	J	18	UJ	18	U
CIRCLE	SD1111	G-SD-13	08/19/97														
CIRCLE	SD1112	G-SD-14	08/19/97														
CIRCLE	SD1113	G-SD-15	08/19/97														
CIRCLE	SD1114	G-SD-16	08/19/97														
CIRCLE	SD2111	G-SD-13	08/19/97														

Survey	Sample Number	Station	Date	Indeno[1,2,3-cd]-pyrene ug/kg dry	Qual-	Indeno[1,2,3-cd]-pyrene ug/kg wet	Qual-	Isophorone ug/kg dry	Qual-	Isophorone ug/kg wet	Qual-	Naphthalene ug/kg dry	Qual-	Naphthalene ug/kg wet	Qual-	Nitrobenzene ug/kg dry	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95														
CIRCLE	SD0501	G-SD-1	10/24/95														
CIRCLE	SD0502	G-SD-2	10/24/95	2500	J			14000	UJ			14000	UJ			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95	2500	J			21000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95	59000	UJ			59000	UJ			59000	UJ			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97			370				1000	U			1000	U		
CIRCLE	SD1112	G-SD-14	08/19/97			1300				940	U			940	U		
CIRCLE	SD1113	G-SD-15	08/19/97			880				1100	U			1100	U		
CIRCLE	SD1114	G-SD-16	08/19/97			620	U			620	U			620	U		
CIRCLE	SD2111	G-SD-13	08/19/97			440				1000	U			1000	U		

Survey	Sample Number	Station	Date	Styrene ug/kg dry	Qual-	trans-1,3-Dichloro-propene ug/kg dry	Qual-	Toluene ug/kg dry	Qual-	Vinyl chloride (CH2--CHCl) ug/kg dry	Qual-	Xylene isomers (total) ug/kg dry	Qual-	2,4-Dimethyl-phenol ug/kg dry	Qual-	2,4-Dimethyl-phenol ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	52	U	52	U	52	U	100	U	52	U	14000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95	16	U	16	U	16	U	33	U	16	U	21000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95	18	UJ	18	U	18	UJ	36	U	18	UJ	59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97													1000	U
CIRCLE	SD1112	G-SD-14	08/19/97													940	U
CIRCLE	SD1113	G-SD-15	08/19/97													1100	U
CIRCLE	SD1114	G-SD-16	08/19/97													620	U
CIRCLE	SD2111	G-SD-13	08/19/97													1000	U

Survey	Sample Number	Station	Date	Nitrobenzene ug/kg wet	Qual-	N-nitroso-di-n-propylamine ug/kg dry	Qual-	N-nitroso-di-n-propylamine ug/kg wet	Qual-	N-nitrosodiphenyl-amine ug/kg dry	Qual-	N-nitrosodiphenyl-amine ug/kg wet	Qual-	Phenanthrene ug/kg dry	Qual-	Phenanthrene ug/kg wet	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95														
CIRCLE	SD0501	G-SD-1	10/24/95														
CIRCLE	SD0502	G-SD-2	10/24/95			14000	UJ			14000	UJ			5100	J		
CIRCLE	SD0503	G-SD-3	10/24/95			21000	UJ			21000	UJ			2300	J		
CIRCLE	SD0504	G-SD-3	10/24/95			59000	UJ			59000	UJ			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			490	
CIRCLE	SD1112	G-SD-14	08/19/97	940	U			940	U			940	U			1700	
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			1100	U			1100	U			1300	
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			620	U			620	U			140	
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			540	

Survey	Sample Number	Station	Date	2,4-Dinitrophenol ug/kg dry	Qual-	2,4-Dinitrophenol ug/kg wet	Qual-	2,4-Dinitrotoluene ug/kg dry	Qual-	2,4-Dinitrotoluene ug/kg wet	Qual-	2,4,5-Trichloro-phenol ug/kg dry	Qual-	2,4,5-Trichloro-phenol ug/kg wet	Qual-	2,4,6-Trichloro-phenol ug/kg dry	Qual-	2,4,6-Trichloro-phenol ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	67000	UJ			14000	UJ			14000	UJ			14000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95	100000	UJ			21000	UJ			21000	UJ			21000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95	290000	UJ			59000	UJ			59000	UJ			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97			4900	U			1000	U			1000	U			1000	U
CIRCLE	SD1112	G-SD-14	08/19/97			4600	U			940	U			940	U			940	U
CIRCLE	SD1113	G-SD-15	08/19/97			5300	U			1100	U			1100	U			1100	U
CIRCLE	SD1114	G-SD-16	08/19/97			3000	U			620	U			620	U			620	U
CIRCLE	SD2111	G-SD-13	08/19/97			5000	U			1000	U			1000	U			1000	U

Survey	Sample Number	Station	Date	Phenol ug/kg dry	Qual-	Phenol ug/kg wet	Qual-	Pyrene ug/kg dry	Qual-	Pyrene ug/kg wet	Qual-	Petroleum hydrocarbons mg/kg dry	Qual-
CIRCLE	SD0500	G-SD-1	10/24/95									23	U
CIRCLE	SD0501	G-SD-1	10/24/95									17	U
CIRCLE	SD0502	G-SD-2	10/24/95	14000	UJ			7800	J			140000	
CIRCLE	SD0503	G-SD-3	10/24/95	21000	UJ			9000	J			45000	
CIRCLE	SD0504	G-SD-3	10/24/95	59000	UJ			13000	J			40000	
CIRCLE	SD1111	G-SD-13	08/19/97			1000	U			990			
CIRCLE	SD1112	G-SD-14	08/19/97			940	U			3800			
CIRCLE	SD1113	G-SD-15	08/19/97			1100	U			2600			
CIRCLE	SD1114	G-SD-16	08/19/97			620	U			250			
CIRCLE	SD2111	G-SD-13	08/19/97			1000	U			1300			

Survey	Sample Number	Station	Date	2,6-Dinitrotoluene ug/kg dry	Qual-	2,6-Dinitrotoluene ug/kg wet	Qual-	Dibenz[a,h]-anthracene ug/kg dry	Qual-	Dibenz[a,h]-anthracene ug/kg wet	Qual-	Di-n-octyl phthalate ug/kg dry	Qual-	Di-n-octyl phthalate ug/kg wet	Qual-	3-Nitroaniline ug/kg dry	Qual-	3-Nitroaniline ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	14000	UJ			14000	UJ			14000	UJ			67000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95	21000	UJ			21000	UJ			21000	UJ			100000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95	59000	UJ			59000	UJ			59000	UJ			290000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97			1000	U			1000	U			1000	U			4900	U
CIRCLE	SD1112	G-SD-14	08/19/97			940	U			260				940	U			4600	U
CIRCLE	SD1113	G-SD-15	08/19/97			1100	U			200				1100	U			5300	U
CIRCLE	SD1114	G-SD-16	08/19/97			620	U			620	U			620	U			3000	U
CIRCLE	SD2111	G-SD-13	08/19/97			1000	U			110				1000	U			5000	U

Survey	Sample Number	Station	Date	3,3'-Dichloro-benzidine ug/kg dry	Qual-	3,3'-Dichloro-benzidine ug/kg wet	Qual-	4-Bromophenyl-phenyl ether ug/kg dry	Qual-	4-Bromophenyl-phenyl ether ug/kg wet	Qual-	4-Chloro-3-methyl-phenol (PCMC) ug/kg dry	Qual-	4-Chloro-3-methyl-phenol (PCMC) ug/kg wet	Qual-	4-Chloro-aniline ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	67000	UJ			14000	UJ			14000	UJ			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95	100000	UJ			21000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95	290000	UJ			59000	UJ			59000	UJ			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97			4900	U			1000	U			1000	U		
CIRCLE	SD1112	G-SD-14	08/19/97			4600	U			940	U			940	U		
CIRCLE	SD1113	G-SD-15	08/19/97			5300	U			1100	U			1100	U		
CIRCLE	SD1114	G-SD-16	08/19/97			3000	U			620	U			620	U		
CIRCLE	SD2111	G-SD-13	08/19/97			5000	U			1000	U			1000	U		

Survey	Sample Number	Station	Date	4-Chloro-aniline ug/kg wet	Qual-	4-Chlorophenyl-phenyl ether ug/kg dry	Qual-	4-Chlorophenyl-phenyl ether ug/kg wet	Qual-	4-Methyl-phenol ug/kg dry	Qual-	4-Methyl-phenol ug/kg wet	Qual-	4-Nitroaniline ug/kg dry	Qual-	4-Nitroaniline ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95			14000	UJ			14000	UJ			67000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95			21000	UJ			21000	UJ			100000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95			59000	UJ			59000	UJ			290000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			4900	U
CIRCLE	SD1112	G-SD-14	08/19/97	940	U			940	U			940	U			4600	U
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			1100	U			1100	U			5300	U
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			620	U			620	U			3000	U
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			5000	U

Survey	Sample Number	Station	Date	4-Nitrophenol ug/kg dry	Qual-	4-Nitrophenol ug/kg wet	Qual-	4,6-Dinitro-2-methyl-phenol ug/kg dry	Qual-	4,6-Dinitro-2-methyl-phenol ug/kg wet	Qual-	Penta-chloro-phenol ug/kg dry	Qual-	Penta-chloro-phenol ug/kg wet	Qual-	Hexachloro-benzene ug/kg dry	Qual-	Hexachloro-benzene ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	67000	UJ			67000	UJ			67000	UJ			14000	UJ		
CIRCLE	SD0503	G-SD-3	10/24/95	100000	UJ			100000	UJ			1E+05	UJ			21000	UJ		
CIRCLE	SD0504	G-SD-3	10/24/95	290000	UJ			290000	UJ			3E+05	UJ			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97			4900	U			4900	U			4900	U			1000	U
CIRCLE	SD1112	G-SD-14	08/19/97			4600	U			4600	U			4600	U			940	U
CIRCLE	SD1113	G-SD-15	08/19/97			5300	U			5300	U			5300	U			1100	U
CIRCLE	SD1114	G-SD-16	08/19/97			3000	U			3000	U			3000	U			620	U
CIRCLE	SD2111	G-SD-13	08/19/97			5000	U			5000	U			5000	U			1000	U

Survey	Sample Number	Station	Date	Hexachloro-butadiene ug/kg dry	Qual-	Hexachloro-butadiene ug/kg wet	Qual-	Hexachloro-cyclopenta-diene ug/kg dry	Qual-	Hexachloro-cyclopenta-diene ug/kg wet	Qual-	Hexachloro-ethane (perchloro-ethane) ug/kg dry	Qual-	Hexachloro-ethane (perchloro-ethane) ug/kg wet	Qual-	Acenaphthene ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95	14000	UJ			67000	UJ			14000	UJ			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95	21000	UJ			100000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95	59000	UJ			290000	UJ			59000	UJ			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97			1000	U			4900	U			1000	U		
CIRCLE	SD1112	G-SD-14	08/19/97			940	U			4600	U			940	U		
CIRCLE	SD1113	G-SD-15	08/19/97			1100	U			5300	U			1100	U		
CIRCLE	SD1114	G-SD-16	08/19/97			620	U			3000	U			620	U		
CIRCLE	SD2111	G-SD-13	08/19/97			1000	U			5000	U			1000	U		

Survey	Sample Number	Station	Date	Acenaphthene ug/kg wet	Qual-	Acenaphthylene ug/kg dry	Qual-	Acenaphthylene ug/kg wet	Qual-	Anthracene ug/kg dry	Qual-	Anthracene ug/kg wet	Qual-	Bis[2-chloro-ethyl-]ether ug/kg dry	Qual-	Bis[2-chloro-ethyl-]ether ug/kg wet	Qual-	2,2'-Oxybis(1-chloro-propane) ug/kg dry	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95			14000	UJ			14000	UJ			14000	UJ			14000	UJ
CIRCLE	SD0503	G-SD-3	10/24/95			21000	UJ			21000	UJ			21000	UJ			21000	UJ
CIRCLE	SD0504	G-SD-3	10/24/95			59000	UJ			59000	UJ			59000	UJ			59000	UJ
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			1000	U		
CIRCLE	SD1112	G-SD-14	08/19/97	940	U			940	U			250				940	U		
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			1100	U			130				1100	U		
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			620	U			620	U			620	U		
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			1000	U			1000	U			1000	U		

Survey	Sample Number	Station	Date	2,2'-Oxybis(1-chloro-propane) ug/kg wet	Qual-	Bis[2-ethyl-hexyl]-phthalate ug/kg dry	Qual-	Bis[2-ethyl-hexyl]-phthalate ug/kg wet	Qual-	Benzo[a]-anthracene ug/kg dry	Qual-	Benzo[a]-anthracene ug/kg wet	Qual-
CIRCLE	SD0502	G-SD-2	10/24/95			2600	J			3900	J		
CIRCLE	SD0503	G-SD-3	10/24/95			8300	J			2500	J		
CIRCLE	SD0504	G-SD-3	10/24/95			9300	J			59000	UJ		
CIRCLE	SD1111	G-SD-13	08/19/97	1000	U			120				290	
CIRCLE	SD1112	G-SD-14	08/19/97	940	U			940	U			2300	
CIRCLE	SD1113	G-SD-15	08/19/97	1100	U			390				2000	
CIRCLE	SD1114	G-SD-16	08/19/97	620	U			620	U			180	
CIRCLE	SD2111	G-SD-13	08/19/97	1000	U			1000	U			460	

TABLE CIRSDC1. DATA SUMMARY OF CONVENTIONAL ANALYSES IN SEDIMENT

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Cation exchange capacity mg Na/kg dry	Qual-	Fluoride mg/kg dry	Qual-	Percent clay % dry	Qual-	Percent gravel % dry	Qual-	Percent sand % dry	Qual-	Percent silt % dry	Qual-	pH pH dry	Qual-
CIRCLE	SD0001	T-ES-1	10/26/95	TES1-A0		SEDT	0	6	IN			8100	J										
CIRCLE	SD0002	T-ES-1	10/26/95	TES1-B0		SEDT	0	6	IN			440	J										
CIRCLE	SD0003	T-ES-1	10/26/95	TES1-B0	A	SEDT	0	6	IN			220	J										
CIRCLE	SD0004	T-ES-1	10/26/95	TES1-B6		SEDT	6	12	IN			330	J										
CIRCLE	SD0005	T-ES-1	10/26/95	TES1-B12		SEDT	12	18	IN			150	J										
CIRCLE	SD0006	T-ES-1	10/26/95	TES1-B18		SEDT	18	24	IN			600	J										
CIRCLE	SD0007	T-ES-1	10/26/95	TES1-B24		SEDT	24	30	IN			270	J										
CIRCLE	SD0008	T-ES-1	10/26/95	TES1-C1R0		SEDT	0	6	IN			1000	J										
CIRCLE	SD0009	T-ES-1	10/26/95	TES1-C1R6		SEDT	6	12	IN			980	J										
CIRCLE	SD0010	T-ES-1	10/26/95	TES1-C1R12		SEDT	12	18	IN			110	J										
CIRCLE	SD0011	T-ES-1	10/26/95	TES1-C2R0		SEDT	0	6	IN			980	J										
CIRCLE	SD0012	T-ES-1	10/26/95	TES1-C2R6		SEDT	6	12	IN			130	J										
CIRCLE	SD0013	T-ES-1	10/26/95	TES1-C2R12		SEDT	12	18	IN			130	J										
CIRCLE	SD0014	T-ES-1	10/26/95	TES1-C1L0		SEDT	0	6	IN			78	J										
CIRCLE	SD0015	T-ES-1	10/26/95	TES1-C1L6		SEDT	6	12	IN			150	J										
CIRCLE	SD0016	T-ES-1	10/26/95	TES1-C1L12		SEDT	12	18	IN			140	J										
CIRCLE	SD0017	T-ES-1	10/26/95	TES1-C1L12	A	SEDT	12	18	IN			180	J										
CIRCLE	SD0018	T-ES-1	10/26/95	TES1-C2L0		SEDT	0	6	IN			190	J										
CIRCLE	SD0019	T-ES-1	10/26/95	TES1-C2L6		SEDT	6	12	IN			160	J										
CIRCLE	SD0020	T-ES-1	10/26/95	TES1-C2L12		SEDT	12	18	IN			240	J										
CIRCLE	SD0021	T-ES-2	10/30/95	TES2-A0		SEDT	0	6	IN														
CIRCLE	SD0022	T-ES-2	10/30/95	TES2-B0		SEDT	0	6	IN														
CIRCLE	SD0023	T-ES-2	10/30/95	TES2-B0	A	SEDT	0	6	IN														
CIRCLE	SD0024	T-ES-2	10/30/95	TES2-B6		SEDT	6	12	IN														
CIRCLE	SD0025	T-ES-2	10/30/95	TES2-B12		SEDT	12	18	IN														
CIRCLE	SD0026	T-ES-2	10/30/95	TES2-B18		SEDT	18	24	IN														
CIRCLE	SD0027	T-ES-2	10/30/95	TES2-B24		SEDT	24	30	IN														
CIRCLE	SD0028	T-ES-2	10/30/95	TES2-C1R0		SEDT	0	6	IN														
CIRCLE	SD0029	T-ES-2	10/30/95	TES2-C1R6		SEDT	6	12	IN														
CIRCLE	SD0030	T-ES-2	10/30/95	TES2-C1R12		SEDT	12	18	IN														
CIRCLE	SD0031	T-ES-2	10/30/95	TES2-C2R0		SEDT	0	6	IN														
CIRCLE	SD0032	T-ES-2	10/30/95	TES2-C2R6		SEDT	6	12	IN														
CIRCLE	SD0033	T-ES-2	10/30/95	TES2-C2R12		SEDT	12	18	IN														
CIRCLE	SD0034	T-ES-2	10/30/95	TES2-C1L0		SEDT	0	6	IN														
CIRCLE	SD0035	T-ES-2	10/30/95	TES2-C1L6		SEDT	6	12	IN														
CIRCLE	SD0036	T-ES-2	10/30/95	TES2-C1L12		SEDT	12	18	IN														
CIRCLE	SD0037	T-ES-2	10/30/95	TES2-C2L0		SEDT	0	6	IN														
CIRCLE	SD0038	T-ES-2	10/30/95	TES2-C2L6		SEDT	6	12	IN														

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Cation exchange capacity mg Na/kg dry	Qual-	Fluoride mg/kg dry	Qual-	Percent clay % dry	Qual-	Percent gravel % dry	Qual-	Percent sand % dry	Qual-	Percent silt % dry	Qual-	pH pH dry	Qual-
CIRCLE	SD0039	T-ES-2	10/30/95	TES2-C2L6	A	SEDT	6	12	IN														
CIRCLE	SD0040	T-ES-2	10/30/95	TES2-C2L12		SEDT	12	18	IN														
CIRCLE	SD0041	T-ES-3	10/31/95	TES3-A0		SEDT	0	6	IN														
CIRCLE	SD0042	T-ES-3	10/31/95	TES3-B0		SEDT	0	6	IN														
CIRCLE	SD0043	T-ES-3	10/31/95	TES3-B0	A	SEDT	0	6	IN														
CIRCLE	SD0044	T-ES-3	10/31/95	TES3-B6		SEDT	6	12	IN														
CIRCLE	SD0045	T-ES-3	10/31/95	TES3-B12		SEDT	12	18	IN														
CIRCLE	SD0046	T-ES-3	10/31/95	TES3-B18		SEDT	18	24	IN														
CIRCLE	SD0047	T-ES-3	10/31/95	TES3-B24		SEDT	24	30	IN														
CIRCLE	SD0048	T-ES-3	10/30/95	TES3-C1R0		SEDT	0	6	IN														
CIRCLE	SD0049	T-ES-3	10/30/95	TES3-C1R6		SEDT	6	12	IN														
CIRCLE	SD0050	T-ES-3	10/30/95	TES3-C1R12		SEDT	12	18	IN														
CIRCLE	SD0051	T-ES-3	10/30/95	TES3-C2R0		SEDT	0	6	IN														
CIRCLE	SD0052	T-ES-3	10/30/95	TES3-C2R6		SEDT	6	12	IN														
CIRCLE	SD0053	T-ES-3	10/30/95	TES3-C2R12		SEDT	12	18	IN														
CIRCLE	SD0054	T-ES-3	10/30/95	TES3-C1L0		SEDT	0	6	IN														
CIRCLE	SD0055	T-ES-3	10/30/95	TES3-C1L6		SEDT	6	12	IN														
CIRCLE	SD0056	T-ES-3	10/30/95	TES3-C1L6	A	SEDT	6	12	IN														
CIRCLE	SD0057	T-ES-3	10/30/95	TES3-C1L12		SEDT	12	18	IN														
CIRCLE	SD0058	T-ES-3	10/30/95	TES3-C2L0		SEDT	0	6	IN														
CIRCLE	SD0059	T-ES-3	10/30/95	TES3-C2L6		SEDT	6	12	IN														
CIRCLE	SD0060	T-ES-3	10/30/95	TES3-C2L12		SEDT	12	18	IN														
CIRCLE	SD0061	T-ES-4	10/31/95	TES4-A0		SEDT	0	6	IN														
CIRCLE	SD0062	T-ES-4	10/31/95	TES4-B0		SEDT	0	6	IN														
CIRCLE	SD0063	T-ES-4	10/31/95	TES4-B0	A	SEDT	0	6	IN														
CIRCLE	SD0064	T-ES-4	10/31/95	TES4-B6		SEDT	6	12	IN														
CIRCLE	SD0065	T-ES-4	10/31/95	TES4-B12		SEDT	12	18	IN														
CIRCLE	SD0066	T-ES-4	10/31/95	TES4-B18		SEDT	18	24	IN														
CIRCLE	SD0067	T-ES-4	10/31/95	TES4-B24		SEDT	24	30	IN														
CIRCLE	SD0068	T-ES-4	10/31/95	TES4-C1R0		SEDT	0	6	IN														
CIRCLE	SD0069	T-ES-4	10/31/95	TES4-C1R6		SEDT	6	12	IN														
CIRCLE	SD0070	T-ES-4	10/31/95	TES4-C1R12		SEDT	12	18	IN														
CIRCLE	SD0071	T-ES-4	10/31/95	TES4-C2R0		SEDT	0	6	IN														
CIRCLE	SD0072	T-ES-4	10/31/95	TES4-C2R6		SEDT	6	12	IN														
CIRCLE	SD0073	T-ES-4	10/31/95	TES4-C2R12		SEDT	12	18	IN														
CIRCLE	SD0074	T-ES-4	10/31/95	TES4-C2R12	A	SEDT	12	18	IN														
CIRCLE	SD0075	T-ES-4	10/31/95	TES4-C1L0		SEDT	0	6	IN														
CIRCLE	SD0076	T-ES-4	10/31/95	TES4-C1L6		SEDT	6	12	IN														
CIRCLE	SD0077	T-ES-4	10/31/95	TES4-C1L12		SEDT	12	18	IN														

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Cation exchange capacity mg Na/kg dry	Qual-	Fluoride mg/kg dry	Qual-	Percent clay % dry	Qual-	Percent gravel % dry	Qual-	Percent sand % dry	Qual-	Percent silt % dry	Qual-	pH pH dry	Qual-
CIRCLE	SD0078	T-ES-4	10/31/95	TES4-C2L0		SEDT	0	6	IN														
CIRCLE	SD0079	T-ES-4	10/31/95	TES4-C2L6		SEDT	6	12	IN														
CIRCLE	SD0080	T-ES-4	10/31/95	TES4-C2L12		SEDT	12	18	IN														
CIRCLE	SD0081	T-OCA-1	11/22/95	TOCA1-A0		SEDT	0	6	IN														
CIRCLE	SD0082	T-OCA-1	11/22/95	TOCA1-B0		SEDT	0	6	IN														
CIRCLE	SD0083	T-OCA-1	11/22/95	TOCA1-B0	A	SEDT	0	6	IN														
CIRCLE	SD0084	T-OCA-1	11/22/95	TOCA1-B6		SEDT	6	12	IN														
CIRCLE	SD0085	T-OCA-1	11/22/95	TOCA1-B12		SEDT	12	18	IN														
CIRCLE	SD0086	T-OCA-1	11/22/95	TOCA1-B18		SEDT	18	24	IN														
CIRCLE	SD0087	T-OCA-1	11/22/95	TOCA1-B24		SEDT	24	30	IN														
CIRCLE	SD0088	T-OCA-1	11/22/95	TOCA1-C1R0		SEDT	0	6	IN														
CIRCLE	SD0089	T-OCA-1	11/22/95	TOCA1-C1R6		SEDT	6	12	IN														
CIRCLE	SD0090	T-OCA-1	11/22/95	TOCA1-C1R12		SEDT	12	18	IN														
CIRCLE	SD0091	T-OCA-1	11/22/95	TOCA1-C2R0		SEDT	0	6	IN														
CIRCLE	SD0092	T-OCA-1	11/22/95	TOCA1-C2R6		SEDT	6	12	IN														
CIRCLE	SD0093	T-OCA-1	11/22/95	TOCA1-C2R12		SEDT	12	18	IN														
CIRCLE	SD0094	T-OCA-1	11/22/95	TOCA1-C1L0		SEDT	0	6	IN														
CIRCLE	SD0095	T-OCA-1	11/22/95	TOCA1-C1L6		SEDT	6	12	IN														
CIRCLE	SD0096	T-OCA-1	11/22/95	TOCA1-C1L12		SEDT	12	18	IN														
CIRCLE	SD0097	T-OCA-1	11/22/95	TOCA1-C2L0		SEDT	0	6	IN														
CIRCLE	SD0098	T-OCA-1	11/22/95	TOCA1-C2L6		SEDT	6	12	IN														
CIRCLE	SD0099	T-OCA-1	11/22/95	TOCA1-C2L12		SEDT	12	18	IN														
CIRCLE	SD0100	T-OCA-2	11/22/95	TOCA2-A0		SEDT	0	6	IN														
CIRCLE	SD0101	T-OCA-2	11/22/95	TOCA2-B0		SEDT	0	6	IN														
CIRCLE	SD0102	T-OCA-2	11/22/95	TOCA2-B0	A	SEDT	0	6	IN														
CIRCLE	SD0103	T-OCA-2	11/22/95	TOCA2-B6		SEDT	6	12	IN														
CIRCLE	SD0107	T-OCA-2	11/28/95	TOCA2-C1R0		SEDT	0	6	IN														
CIRCLE	SD0108	T-OCA-2	11/28/95	TOCA2-C1R6		SEDT	6	12	IN														
CIRCLE	SD0109	T-OCA-2	11/28/95	TOCA2-C1R12		SEDT	12	18	IN														
CIRCLE	SD0110	T-OCA-2	11/28/95	TOCA2-C2R0		SEDT	0	6	IN														
CIRCLE	SD0111	T-OCA-2	11/28/95	TOCA2-C2R6		SEDT	6	12	IN														
CIRCLE	SD0112	T-OCA-2	11/28/95	TOCA2-C2R12		SEDT	12	18	IN														
CIRCLE	SD0113	T-OCA-2	11/28/95	TOCA2-C1L0		SEDT	0	6	IN														
CIRCLE	SD0114	T-OCA-2	11/28/95	TOCA2-C1L6		SEDT	6	12	IN														
CIRCLE	SD0115	T-OCA-2	11/28/95	TOCA2-C1L12		SEDT	12	18	IN														
CIRCLE	SD0116	T-OCA-2	11/28/95	TOCA2-C1L12	A	SEDT	12	18	IN														
CIRCLE	SD0117	T-OCA-2	11/28/95	TOCA2-C2L0		SEDT	0	6	IN														
CIRCLE	SD0118	T-OCA-2	11/28/95	TOCA2-C2L6		SEDT	6	12	IN														
CIRCLE	SD0119	T-OCA-2	11/28/95	TOCA2-C2L12		SEDT	12	18	IN														

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CIRCLE	SD0120	T-OCA-3	11/28/95	TOCA3-A0		SEDT	0	6	IN														
CIRCLE	SD0121	T-OCA-3	11/28/95	TOCA3-B0		SEDT	0	6	IN														
CIRCLE	SD0122	T-OCA-3	11/28/95	TOCA3-B0	A	SEDT	0	6	IN														
CIRCLE	SD0123	T-OCA-3	11/28/95	TOCA3-B6		SEDT	6	12	IN														
CIRCLE	SD0124	T-OCA-3	11/28/95	TOCA3-B12		SEDT	12	18	IN														
CIRCLE	SD0127	T-OCA-3	11/28/95	TOCA3-C1R0		SEDT	0	6	IN														
CIRCLE	SD0128	T-OCA-3	11/28/95	TOCA3-C1R6		SEDT	6	12	IN														
CIRCLE	SD0129	T-OCA-3	11/28/95	TOCA3-C1R12		SEDT	12	18	IN														
CIRCLE	SD0130	T-OCA-3	11/28/95	TOCA3-C2R0		SEDT	0	6	IN														
CIRCLE	SD0131	T-OCA-3	11/28/95	TOCA3-C2R6		SEDT	6	12	IN														
CIRCLE	SD0132	T-OCA-3	11/28/95	TOCA3-C2R12		SEDT	12	18	IN														
CIRCLE	SD0133	T-OCA-3	11/28/95	TOCA3-C2R12	A	SEDT	12	18	IN														
CIRCLE	SD0134	T-OCA-3	11/28/95	TOCA3-C1L0		SEDT	0	6	IN														
CIRCLE	SD0135	T-OCA-3	11/28/95	TOCA3-C1L6		SEDT	6	12	IN														
CIRCLE	SD0136	T-OCA-3	11/28/95	TOCA3-C1L12		SEDT	12	18	IN														
CIRCLE	SD0137	T-OCA-3	11/28/95	TOCA3-C2L0		SEDT	0	6	IN														
CIRCLE	SD0138	T-OCA-3	11/28/95	TOCA3-C2L6		SEDT	6	12	IN														
CIRCLE	SD0139	T-OCA-3	11/28/95	TOCA3-C2L12		SEDT	12	18	IN														
CIRCLE	SD0140	T-OCA-4	11/28/95	TOCA4-A0		SEDT	0	6	IN														
CIRCLE	SD0141	T-OCA-4	11/28/95	TOCA4-B0		SEDT	0	6	IN														
CIRCLE	SD0142	T-OCA-4	11/28/95	TOCA4-B0	A	SEDT	0	6	IN														
CIRCLE	SD0143	T-OCA-4	11/28/95	TOCA4-B6		SEDT	6	12	IN														
CIRCLE	SD0144	T-OCA-4	11/28/95	TOCA4-B12		SEDT	12	18	IN														
CIRCLE	SD0145	T-OCA-4	11/28/95	TOCA4-B18		SEDT	18	24	IN														
CIRCLE	SD0146	T-OCA-4	11/28/95	TOCA4-B24		SEDT	24	30	IN														
CIRCLE	SD0147	T-OCA-4	11/28/95	TOCA4-C1R0		SEDT	0	6	IN														
CIRCLE	SD0148	T-OCA-4	11/28/95	TOCA4-C1R6		SEDT	6	12	IN														
CIRCLE	SD0149	T-OCA-4	11/28/95	TOCA4-C1R12		SEDT	12	18	IN														
CIRCLE	SD0150	T-OCA-4	11/28/95	TOCA4-C2R0		SEDT	0	6	IN														
CIRCLE	SD0151	T-OCA-4	11/28/95	TOCA4-C2R6		SEDT	6	12	IN														
CIRCLE	SD0152	T-OCA-4	11/28/95	TOCA4-C2R12		SEDT	12	18	IN														
CIRCLE	SD0153	T-OCA-4	11/28/95	TOCA4-C1L0		SEDT	0	6	IN														
CIRCLE	SD0154	T-OCA-4	11/28/95	TOCA4-C1L6		SEDT	6	12	IN														
CIRCLE	SD0155	T-OCA-4	11/28/95	TOCA4-C1L12		SEDT	12	18	IN														
CIRCLE	SD0156	T-OCA-4	11/28/95	TOCA4-C1L12	A	SEDT	12	18	IN														
CIRCLE	SD0157	T-OCA-4	11/28/95	TOCA4-C2L0		SEDT	0	6	IN														
CIRCLE	SD0158	T-OCA-4	11/28/95	TOCA4-C2L6		SEDT	6	12	IN														
CIRCLE	SD0159	T-OCA-4	11/28/95	TOCA4-C2L12		SEDT	12	18	IN														
CIRCLE	SD0160	T-SD0+2	10/25/95	TSD025-B0		SEDT	0	6	IN														

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CIRCLE	SD0161	T-SD0+2	10/25/95	TSD025-C1L0		SEDT	0	6	IN														
CIRCLE	SD0162	T-SD0+2	10/25/95	TSD025-C1L0	A	SEDT	0	6	IN														
CIRCLE	SD0163	T-SD0+2	10/25/95	TSD025-C1L6		SEDT	6	12	IN														
CIRCLE	SD0164	T-SD0+2	10/25/95	TSD025-C1L12		SEDT	12	18	IN														
CIRCLE	SD0165	T-SD0+2	10/25/95	TSD025-C1L18		SEDT	18	24	IN														
CIRCLE	SD0166	T-SD0+2	10/25/95	TSD025-C1L24		SEDT	24	30	IN														
CIRCLE	SD0167	TSD13+6	10/25/95	TSD1360-B0		SEDT	0	6	IN														
CIRCLE	SD0168	TSD19+3	11/17/95	TSD1930-B0		SEDT	0	6	IN														
CIRCLE	SD0169	TSD19+3	11/17/95	TSD1930-B0	A	SEDT	0	6	IN														
CIRCLE	SD0170	TSD19+3	11/17/95	TSD1930-B6		SEDT	6	12	IN														
CIRCLE	SD0172	TSD19+3	11/17/95	TSD1930-B12		SEDT	12	18	IN														
CIRCLE	SD0173	TSD19+3	11/17/95	TSD1930-B18		SEDT	18	24	IN														
CIRCLE	SD0174	TSD19+3	11/17/95	TSD1930-B24		SEDT	24	30	IN														
CIRCLE	SD0175	TSD21+0	10/25/95	TSD2105-B0		SEDT	0	6	IN														
CIRCLE	SD0176	T-OCA-5	07/31/96	TOCA5-A0		SEDT	0	6	IN														
CIRCLE	SD0177	T-OCA-5	07/31/96	TOCA5-B0		SEDT	0	6	IN														
CIRCLE	SD0178	T-OCA-5	07/31/96	TOCA5-B0	A	SEDT	0	6	IN														
CIRCLE	SD0179	T-OCA-5	07/31/96	TOCA5-B6		SEDT	6	12	IN														
CIRCLE	SD0180	T-OCA-5	07/31/96	TOCA5-B12		SEDT	12	18	IN														
CIRCLE	SD0181	T-OCA-5	07/31/96	TOCA5-B18		SEDT	18	24	IN														
CIRCLE	SD0182	T-OCA-5	07/31/96	TOCA5-B24		SEDT	24	30	IN														
CIRCLE	SD0183	T-OCA-5	07/31/96	TOCA5-C1R0		SEDT	0	6	IN														
CIRCLE	SD0184	T-OCA-5	07/31/96	TOCA5-C1R6		SEDT	6	12	IN														
CIRCLE	SD0185	T-OCA-5	07/31/96	TOCA5-C1R12		SEDT	12	18	IN														
CIRCLE	SD0186	T-OCA-5	07/31/96	TOCA5-C2R0		SEDT	0	6	IN														
CIRCLE	SD0187	T-OCA-5	07/31/96	TOCA5-C2R6		SEDT	6	12	IN														
CIRCLE	SD0188	T-OCA-5	07/31/96	TOCA5-C2R12		SEDT	12	18	IN														
CIRCLE	SD0189	T-OCA-5	07/31/96	TOCA5-C1L0		SEDT	0	6	IN														
CIRCLE	SD0190	T-OCA-5	07/31/96	TOCA5-C1L6		SEDT	6	12	IN														
CIRCLE	SD0191	T-OCA-5	07/31/96	TOCA5-C1L12		SEDT	12	18	IN														
CIRCLE	SD0192	T-OCA-5	07/31/96	TOCA5-C1L12	B	SEDT	12	18	IN														
CIRCLE	SD0193	T-OCA-5	07/31/96	TOCA5-C2L0		SEDT	0	6	IN														
CIRCLE	SD0194	T-OCA-5	07/31/96	TOCA5-C2L6		SEDT	6	12	IN														
CIRCLE	SD0195	T-OCA-5	07/31/96	TOCA5-C2L12		SEDT	12	18	IN														
CIRCLE	SD0196	T-OCA-6	07/31/96	TOCA6-A0		SEDT	0	6	IN														
CIRCLE	SD0197	T-OCA-6	07/31/96	TOCA6-B0		SEDT	0	6	IN														
CIRCLE	SD0198	T-OCA-6	07/31/96	TOCA6-B0	A	SEDT	0	6	IN														
CIRCLE	SD0199	T-OCA-6	07/31/96	TOCA6-B6		SEDT	6	12	IN														
CIRCLE	SD0200	T-OCA-6	07/31/96	TOCA6-B12		SEDT	12	18	IN														

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CIRCLE	SD0201	T-OCA-6	07/31/96	TOCA6-B18		SEDT	18	24	IN														
CIRCLE	SD0202	T-OCA-6	07/31/96	TOCA6-B24		SEDT	24	30	IN														
CIRCLE	SD0203	T-OCA-6	07/31/96	TOCA6-C1R0		SEDT	0	6	IN														
CIRCLE	SD0204	T-OCA-6	07/31/96	TOCA6-C1R6		SEDT	6	12	IN														
CIRCLE	SD0205	T-OCA-6	07/31/96	TOCA6-C1R12		SEDT	12	18	IN														
CIRCLE	SD0206	T-OCA-6	07/31/96	TOCA6-C2R0		SEDT	0	6	IN														
CIRCLE	SD0207	T-OCA-6	07/31/96	TOCA6-C2R6		SEDT	6	12	IN														
CIRCLE	SD0208	T-OCA-6	07/31/96	TOCA6-C2R12		SEDT	12	18	IN														
CIRCLE	SD0209	T-OCA-6	07/31/96	TOCA6-C2R12	B	SEDT	12	18	IN														
CIRCLE	SD0210	T-OCA-6	07/31/96	TOCA6-C1L0		SEDT	0	6	IN														
CIRCLE	SD0211	T-OCA-6	07/31/96	TOCA6-C1L6		SEDT	6	12	IN														
CIRCLE	SD0212	T-OCA-6	07/31/96	TOCA6-C1L12		SEDT	12	18	IN														
CIRCLE	SD0213	T-OCA-6	07/31/96	TOCA6-C2L0		SEDT	0	6	IN														
CIRCLE	SD0214	T-OCA-6	07/31/96	TOCA6-C2L6		SEDT	6	12	IN														
CIRCLE	SD0215	T-OCA-6	07/31/96	TOCA6-C2L12		SEDT	12	18	IN														
CIRCLE	SD0216	T-OCA-4	07/31/96	TOCA4-BO		SEDT	0	6	IN	8400												7	
CIRCLE	SD0217	T-OCA-4	07/31/96	TOCA4-BO		SEDT	0	6	IN	13000												7	
CIRCLE	SD0300	C-OCA-1	11/29/95	COCA1-0		SEDT	0	6	IN														
CIRCLE	SD0301	C-OCA-1	11/29/95	COCA1-6		SEDT	6	12	IN														
CIRCLE	SD0302	C-OCA-1	11/29/95	COCA1-12		SEDT	12	18	IN														
CIRCLE	SD0303	C-OCA-1	11/29/95	COCA1-18		SEDT	18	24	IN														
CIRCLE	SD0304	C-OCA-1	11/29/95	COCA1-24		SEDT	24	30	IN														
CIRCLE	SD0305	C-OCA-2	11/29/95	COCA2-0		SEDT	0	6	IN														
CIRCLE	SD0306	C-OCA-2	11/29/95	COCA2-6		SEDT	6	12	IN														
CIRCLE	SD0307	C-OCA-2	11/29/95	COCA2-6	A	SEDT	6	12	IN														
CIRCLE	SD0308	C-OCA-2	11/29/95	COCA2-12		SEDT	12	18	IN														
CIRCLE	SD0309	C-OCA-2	11/29/95	COCA2-18		SEDT	18	24	IN														
CIRCLE	SD0310	C-OCA-2	11/29/95	COCA2-24		SEDT	24	30	IN														
CIRCLE	SD0311	C-OCA-3	11/29/95	COCA3-0		SEDT	0	6	IN														
CIRCLE	SD0312	C-OCA-3	11/29/95	COCA3-6		SEDT	6	12	IN														
CIRCLE	SD0313	C-OCA-3	11/29/95	COCA3-6	A	SEDT	6	12	IN														
CIRCLE	SD0314	C-OCA-3	11/29/95	COCA3-12		SEDT	12	18	IN														
CIRCLE	SD0315	C-OCA-3	11/29/95	COCA3-18		SEDT	18	24	IN														
CIRCLE	SD0317	C-OCA-4	11/29/95	COCA4-0		SEDT	0	6	IN														
CIRCLE	SD0318	C-OCA-4	11/29/95	COCA4-6		SEDT	6	12	IN														
CIRCLE	SD0319	C-OCA-4	11/29/95	COCA4-12		SEDT	12	18	IN														
CIRCLE	SD0320	C-OCA-4	11/29/95	COCA4-18		SEDT	18	24	IN														
CIRCLE	SD0322	C-OCA-5	11/29/95	COCA5-0		SEDT	0	6	IN														
CIRCLE	SD0323	C-OCA-5	11/29/95	COCA5-6		SEDT	6	12	IN														

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CIRCLE	SD0324	C-OCA-5	11/29/95	COCA5-12		SEDT	12	18	IN														
CIRCLE	SD0325	C-OCA-5	11/29/95	COCA5-18		SEDT	18	24	IN														
CIRCLE	SD0326	C-OCA-5	11/29/95	COCA5-24		SEDT	24	30	IN														
CIRCLE	SD0327	C-OCA-6	11/29/95	COCA6-0		SEDT	0	6	IN														
CIRCLE	SD0328	C-OCA-6	11/29/95	COCA6-6		SEDT	6	12	IN														
CIRCLE	SD0329	C-OCA-6	11/29/95	COCA6-12		SEDT	12	18	IN														
CIRCLE	SD0330	C-OCA-6	11/29/95	COCA6-12	A	SEDT	12	18	IN														
CIRCLE	SD0331	C-OCA-6	11/29/95	COCA6-18		SEDT	18	24	IN														
CIRCLE	SD0332	C-OCA-6	11/29/95	COCA6-24		SEDT	24	30	IN														
CIRCLE	SD0333	C-OCA-7	11/29/95	COCA7-0		SEDT	0	6	IN														
CIRCLE	SD0334	C-OCA-7	11/29/95	COCA7-6		SEDT	6	12	IN														
CIRCLE	SD0335	C-OCA-7	11/29/95	COCA7-6	A	SEDT	6	12	IN														
CIRCLE	SD0336	C-OCA-7	11/29/95	COCA7-12		SEDT	12	18	IN														
CIRCLE	SD0337	C-OCA-7	11/29/95	COCA7-18		SEDT	18	24	IN														
CIRCLE	SD0339	C-OCA-8	11/29/95	COCA8-0		SEDT	0	6	IN														
CIRCLE	SD0340	C-OCA-8	11/29/95	COCA8-6		SEDT	6	12	IN														
CIRCLE	SD0341	C-OCA-8	11/29/95	COCA8-12		SEDT	12	18	IN														
CIRCLE	SD0342	C-OCA-8	11/29/95	COCA8-18		SEDT	18	24	IN														
CIRCLE	SD0343	C-OCA-8	11/29/95	COCA8-24		SEDT	24	30	IN														
CIRCLE	SD0344	C-OCA-9	11/29/95	COCA9-0		SEDT	0	6	IN														
CIRCLE	SD0345	C-OCA-9	11/29/95	COCA9-6		SEDT	6	12	IN														
CIRCLE	SD0346	C-OCA-9	11/29/95	COCA9-12		SEDT	12	18	IN														
CIRCLE	SD0347	C-OCA-9	11/29/95	COCA9-12	A	SEDT	12	18	IN														
CIRCLE	SD0348	C-OCA-9	11/29/95	COCA9-18		SEDT	18	24	IN														
CIRCLE	SD0349	C-OCA-9	11/29/95	COCA9-24		SEDT	24	30	IN														
CIRCLE	SD0350	C-OCA-10	11/29/95	COCA10-0		SEDT	0	6	IN														
CIRCLE	SD0351	C-OCA-10	11/29/95	COCA10-6		SEDT	6	12	IN														
CIRCLE	SD0352	C-OCA-10	11/29/95	COCA10-6	A	SEDT	6	12	IN														
CIRCLE	SD0353	C-OCA-10	11/29/95	COCA10-12		SEDT	12	18	IN														
CIRCLE	SD0354	C-OCA-10	11/29/95	COCA10-18		SEDT	18	24	IN														
CIRCLE	SD0355	C-OCA-10	11/29/95	COCA10-24		SEDT	24	30	IN														
CIRCLE	SD0356	C-OCA-11	11/30/95	COCA11-0		SEDT	0	6	IN														
CIRCLE	SD0357	C-OCA-11	11/30/95	COCA11-6		SEDT	6	12	IN														
CIRCLE	SD0358	C-OCA-11	11/30/95	COCA11-12		SEDT	12	18	IN														
CIRCLE	SD0359	C-OCA-11	11/30/95	COCA11-18		SEDT	18	24	IN														
CIRCLE	SD0360	C-OCA-11	11/30/95	COCA11-24		SEDT	24	30	IN														
CIRCLE	SD0361	C-OCA-12	11/30/95	COCA12-0		SEDT	0	6	IN														
CIRCLE	SD0362	C-OCA-12	11/30/95	COCA12-6		SEDT	6	12	IN														
CIRCLE	SD0363	C-OCA-12	11/30/95	COCA12-6	A	SEDT	6	12	IN														

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Cation exchange capacity mg Na/kg dry	Qual-	Fluoride mg/kg dry	Qual-	Percent clay % dry	Qual-	Percent gravel % dry	Qual-	Percent sand % dry	Qual-	Percent silt % dry	Qual-	pH pH dry	Qual-
CIRCLE	SD0364	C-OCA-12	11/30/95	COCA12-12		SEDT	12	18	IN														
CIRCLE	SD0365	C-OCA-12	11/30/95	COCA12-18		SEDT	18	24	IN														
CIRCLE	SD0366	C-OCA-12	11/30/95	COCA12-24		SEDT	24	30	IN														
CIRCLE	SD0367	C-AF-1	11/01/95	CAF1-0		SEDT	0	6	IN			180	J										
CIRCLE	SD0368	C-AF-1	11/01/95	CAF1-6		SEDT	6	12	IN			48	J										
CIRCLE	SD0369	C-AF-2	11/01/95	CAF2-0		SEDT	0	6	IN			470	J										
CIRCLE	SD0370	C-AF-2	11/01/95	CAF2-0	A	SEDT	0	6	IN			345	J										
CIRCLE	SD0371	C-AF-2	11/01/95	CAF2-6		SEDT	6	12	IN			650	J										
CIRCLE	SD0372	C-AF-3	11/01/95	CAF3-0		SEDT	0	6	IN			330	J										
CIRCLE	SD0373	C-AF-3	11/01/95	CAF3-6		SEDT	6	12	IN			230	J										
CIRCLE	SD0374	C-AF-4	11/01/95	CAF4-0		SEDT	0	6	IN			430	J										
CIRCLE	SD0375	C-AF-4	11/01/95	CAF4-6		SEDT	6	12	IN			78	J										
CIRCLE	SD0376	C-25D-1	11/01/95	C25D1-0		SEDT	0	6	IN														
CIRCLE	SD0377	C-25D-1	11/01/95	C25D1-6		SEDT	6	12	IN														
CIRCLE	SD0378	C-25D-1	11/01/95	C25D1-12		SEDT	12	18	IN														
CIRCLE	SD0379	C-25D-2	11/01/95	C25D2-0		SEDT	0	6	IN														
CIRCLE	SD0380	C-25D-3	11/01/95	C25D3-0		SEDT	0	6	IN														
CIRCLE	SD0381	C-25D-4	11/01/95	C25D4-0		SEDT	0	6	IN														
CIRCLE	SD0382	C-25D-4	11/01/95	C25D4-0	A	SEDT	0	6	IN														
CIRCLE	SD0383	C-25D-5	11/01/95	C25D5-0		SEDT	0	6	IN														
CIRCLE	SD0500	G-SD-1	10/24/95	GSD1-0		SEDT	0	6	IN			210	J										
CIRCLE	SD0501	G-SD-1	10/24/95	GSD1-0	A	SEDT	0	6	IN			3000	J										
CIRCLE	SD0502	G-SD-2	10/24/95	GSD2-0		SEDT	0	6	IN														
CIRCLE	SD0503	G-SD-3	10/24/95	GSD3-0		SEDT	0	6	IN														
CIRCLE	SD0504	G-SD-3	10/24/95	GSD3-0	A	SEDT	0	6	IN														
CIRCLE	SD1001	T-ES-1	08/19/97	TES1-A0		SEDT	0	6	IN	7600													
CIRCLE	SD1002	T-ES-2	08/19/97	TES2-A0		SEDT	0	6	IN	7400													
CIRCLE	SD1003	T-ES-3	08/19/97	TES3-A0		SEDT	0	6	IN	6100													
CIRCLE	SD1004	T-ES-4	08/19/97	TES4-A0		SEDT	0	6	IN	9000													
CIRCLE	SD1101	G-SD-10	08/19/97	GSD10-A0		SEDT	0	6	IN					11.9		0		24.5		63.6			
CIRCLE	SD1102	CSD0+25	08/19/97	CSD025-B0		SEDT	0	6	IN	21000													
CIRCLE	SD1103	G-SD-11	08/19/97	GSD12-A0		SEDT	0	6	IN					4		37.8		48.9		9.3			
CIRCLE	SD1104	CSD13+6	08/19/97	CSD1360-B0		SEDT	0	6	IN	15000													
CIRCLE	SD1105	G-SD-12	08/19/97	GSD12-A0		SEDT	0	6	IN					17		6.9		36.8		39.3			
CIRCLE	SD1106	CSD21+0	08/19/97	CSD2105-B0		SEDT	0	6	IN	12000													
CIRCLE	SD1111	G-SD-13	08/19/97	GSD13-A0		SEDT	0	6	IN														
CIRCLE	SD1112	G-SD-14	08/19/97	GSD14-A0		SEDT	0	6	IN														
CIRCLE	SD1113	G-SD-15	08/19/97	GSD15-A0		SEDT	0	6	IN														
CIRCLE	SD1114	G-SD-16	08/19/97	GSD16-A0		SEDT	0	6	IN														

Survey	Sample Number	Station	Date	Sample ID	Field rep.	Sample type	Upper Depth	Lower Depth	Depth Units	Cation exchange capacity mg Na/kg dry	Qual-	Fluoride mg/kg dry	Qual-	Percent clay % dry	Qual-	Percent gravel % dry	Qual-	Percent sand % dry	Qual-	Percent silt % dry	Qual-	pH pH dry	Qual-
CIRCLE	SD1201	T-OCA-1	09/15/97	TOCA1-A0		SEDT	0	6	IN	2300													
CIRCLE	SD1202	T-OCA-2	09/15/97	TOCA2-A0		SEDT	0	6	IN	2900													
CIRCLE	SD1203	T-OCA-3	09/16/97	TOCA3-A0		SEDT	0	6	IN	3400													
CIRCLE	SD1204	T-OCA-4	09/16/97	TOCA4-A0		SEDT	0	6	IN	2000													
CIRCLE	SD1205	T-OCA-5	09/15/97	TOCA5-A0		SEDT	0	6	IN	2200													
CIRCLE	SD1206	T-OCA-6	09/16/97	TOCA6-A0		SEDT	0	6	IN	2600													
CIRCLE	SD1207	T-OCA-4	09/16/97	TOCA4-A0	A	SEDT	0	6	IN	2000													
CIRCLE	SD1208	T-OCA-5	09/15/97	TOCA5-A0	A	SEDT	0	6	IN	2800													
CIRCLE	SD1301	C-OCA-1	09/16/97	COCA1-0		SEDT	0	6	IN	2850													
CIRCLE	SD1302	C-OCA-2	09/16/97	COCA2-0		SEDT	0	6	IN	2700													
CIRCLE	SD1303	C-OCA-3	09/16/97	COCA3-0		SEDT	0	6	IN	4550													
CIRCLE	SD1304	C-OCA-4	09/15/97	COCA4-0		SEDT	0	6	IN	2500													
CIRCLE	SD1305	C-OCA-5	09/15/97	COCA5-0		SEDT	0	6	IN	2900													
CIRCLE	SD1306	C-OCA-6	09/15/97	COCA6-0		SEDT	0	6	IN	2500													
CIRCLE	SD1307	C-OCA-7	09/15/97	COCA7-0		SEDT	0	6	IN	2650													
CIRCLE	SD1308	C-OCA-8	09/15/97	COCA8-0		SEDT	0	6	IN	3600													
CIRCLE	SD1309	C-OCA-9	09/15/97	COCA9-0		SEDT	0	6	IN	5200													
CIRCLE	SD1310	C-OCA-10	09/16/97	COCA10-0		SEDT	0	6	IN	2500													
CIRCLE	SD1311	C-OCA-11	09/16/97	COCA11-0		SEDT	0	6	IN	2800													
CIRCLE	SD1312	C-OCA-12	09/15/97	COCA12-0		SEDT	0	6	IN	2500													
CIRCLE	SD1401	G-OCA-91	09/16/97	GOCA91-A0		SEDT	0	6	IN					5.7		54.7		30.8		8.8			
CIRCLE	SD1402	G-OCA-92	09/16/97	GOCA92-A0		SEDT	0	6	IN					36.2		6.7		7		50.1			
CIRCLE	SD1403	G-OCA-93	09/16/97	GOCA93-A0		SEDT	0	6	IN					5.9		30.8		46.2		17.1			
CIRCLE	SD2102	CSD0+25	08/19/97	CSD025-B1		SEDT	6	12	IN														
CIRCLE	SD2111	G-SD-13	08/19/97	GSD13-A1		SEDT	6	12	IN														

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0001	T-ES-1	10/26/95			78			
SD0002	T-ES-1	10/26/95			91.4			
SD0003	T-ES-1	10/26/95			95.8			
SD0004	T-ES-1	10/26/95			93.2			
SD0005	T-ES-1	10/26/95			93.6			
SD0006	T-ES-1	10/26/95			92.5			
SD0007	T-ES-1	10/26/95			94.8			
SD0008	T-ES-1	10/26/95			89			
SD0009	T-ES-1	10/26/95			93.7			
SD0010	T-ES-1	10/26/95			94.2			
SD0011	T-ES-1	10/26/95			91.8			
SD0012	T-ES-1	10/26/95			85.9			
SD0013	T-ES-1	10/26/95			88.1			
SD0014	T-ES-1	10/26/95			92.1			
SD0015	T-ES-1	10/26/95			91.7			
SD0016	T-ES-1	10/26/95			93.9			
SD0017	T-ES-1	10/26/95			94.1			
SD0018	T-ES-1	10/26/95			89			
SD0019	T-ES-1	10/26/95			88.1			
SD0020	T-ES-1	10/26/95			88.2			
SD0021	T-ES-2	10/30/95			76.8			
SD0022	T-ES-2	10/30/95			83			
SD0023	T-ES-2	10/30/95			83			
SD0024	T-ES-2	10/30/95			85.9			
SD0025	T-ES-2	10/30/95			87.5			
SD0026	T-ES-2	10/30/95			94			
SD0027	T-ES-2	10/30/95			94			
SD0028	T-ES-2	10/30/95			81.1			
SD0029	T-ES-2	10/30/95			81.7			
SD0030	T-ES-2	10/30/95			86.8			
SD0031	T-ES-2	10/30/95			85.9			
SD0032	T-ES-2	10/30/95			87.3			
SD0033	T-ES-2	10/30/95			91.7			
SD0034	T-ES-2	10/30/95			86.5			
SD0035	T-ES-2	10/30/95			84			
SD0036	T-ES-2	10/30/95			86.7			
SD0037	T-ES-2	10/30/95			92.1			
SD0038	T-ES-2	10/30/95			92.8			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0039	T-ES-2	10/30/95			93.6			
SD0040	T-ES-2	10/30/95			92.1			
SD0041	T-ES-3	10/31/95			76.1			
SD0042	T-ES-3	10/31/95			86.4			
SD0043	T-ES-3	10/31/95			86.2			
SD0044	T-ES-3	10/31/95			87.2			
SD0045	T-ES-3	10/31/95			90.7			
SD0046	T-ES-3	10/31/95			87.6			
SD0047	T-ES-3	10/31/95			87			
SD0048	T-ES-3	10/30/95			92.4			
SD0049	T-ES-3	10/30/95			88			
SD0050	T-ES-3	10/30/95			86.4			
SD0051	T-ES-3	10/30/95			93.9			
SD0052	T-ES-3	10/30/95			93.9			
SD0053	T-ES-3	10/30/95			97.1			
SD0054	T-ES-3	10/30/95			86.8			
SD0055	T-ES-3	10/30/95			65.8			
SD0056	T-ES-3	10/30/95			88.2			
SD0057	T-ES-3	10/30/95			87.2			
SD0058	T-ES-3	10/30/95			32.3			
SD0059	T-ES-3	10/30/95			75			
SD0060	T-ES-3	10/30/95			93.2			
SD0061	T-ES-4	10/31/95			76.5			
SD0062	T-ES-4	10/31/95			83.4			
SD0063	T-ES-4	10/31/95			77.8			
SD0064	T-ES-4	10/31/95			92.4			
SD0065	T-ES-4	10/31/95			93.7			
SD0066	T-ES-4	10/31/95			92.7			
SD0067	T-ES-4	10/31/95			91.9			
SD0068	T-ES-4	10/31/95			87.8			
SD0069	T-ES-4	10/31/95			86.3			
SD0070	T-ES-4	10/31/95			84.7			
SD0071	T-ES-4	10/31/95			85.6			
SD0072	T-ES-4	10/31/95			86.6			
SD0073	T-ES-4	10/31/95			85.6			
SD0074	T-ES-4	10/31/95			87.2			
SD0075	T-ES-4	10/31/95			90.2			
SD0076	T-ES-4	10/31/95			92			
SD0077	T-ES-4	10/31/95			91.4			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0078	T-ES-4	10/31/95			87.9			
SD0079	T-ES-4	10/31/95			87.4			
SD0080	T-ES-4	10/31/95			85			
SD0081	T-OCA-1	11/22/95			66.1			
SD0082	T-OCA-1	11/22/95			73.2			
SD0083	T-OCA-1	11/22/95			72.1			
SD0084	T-OCA-1	11/22/95			70.8			
SD0085	T-OCA-1	11/22/95			71.8			
SD0086	T-OCA-1	11/22/95			71.5			
SD0087	T-OCA-1	11/22/95			72.3			
SD0088	T-OCA-1	11/22/95			70.3			
SD0089	T-OCA-1	11/22/95			74.2			
SD0090	T-OCA-1	11/22/95			74.1			
SD0091	T-OCA-1	11/22/95			71.6			
SD0092	T-OCA-1	11/22/95			73.3			
SD0093	T-OCA-1	11/22/95			78.5			
SD0094	T-OCA-1	11/22/95			68.6			
SD0095	T-OCA-1	11/22/95			73.1			
SD0096	T-OCA-1	11/22/95			69			
SD0097	T-OCA-1	11/22/95			76.9			
SD0098	T-OCA-1	11/22/95			76.4			
SD0099	T-OCA-1	11/22/95			75.6			
SD0100	T-OCA-2	11/22/95			64.8			
SD0101	T-OCA-2	11/22/95			68.3			
SD0102	T-OCA-2	11/22/95			67.5			
SD0103	T-OCA-2	11/22/95			67.2			
SD0107	T-OCA-2	11/28/95			74			
SD0108	T-OCA-2	11/28/95			74.8			
SD0109	T-OCA-2	11/28/95			72.9			
SD0110	T-OCA-2	11/28/95			78.8			
SD0111	T-OCA-2	11/28/95			76.3			
SD0112	T-OCA-2	11/28/95			76.9			
SD0113	T-OCA-2	11/28/95			70.1			
SD0114	T-OCA-2	11/28/95			64			
SD0115	T-OCA-2	11/28/95			66.6			
SD0116	T-OCA-2	11/28/95			64.3			
SD0117	T-OCA-2	11/28/95			72.3			
SD0118	T-OCA-2	11/28/95			77.9			
SD0119	T-OCA-2	11/28/95			75.3			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0120	T-OCA-3	11/28/95			75.1			
SD0121	T-OCA-3	11/28/95			77.4			
SD0122	T-OCA-3	11/28/95			74.5			
SD0123	T-OCA-3	11/28/95			78.6			
SD0124	T-OCA-3	11/28/95			67.7			
SD0127	T-OCA-3	11/28/95			76.1			
SD0128	T-OCA-3	11/28/95			70.5			
SD0129	T-OCA-3	11/28/95			71.4			
SD0130	T-OCA-3	11/28/95			73.1			
SD0131	T-OCA-3	11/28/95			72			
SD0132	T-OCA-3	11/28/95			72.1			
SD0133	T-OCA-3	11/28/95			73.4			
SD0134	T-OCA-3	11/28/95			64.4			
SD0135	T-OCA-3	11/28/95			74			
SD0136	T-OCA-3	11/28/95			72.2			
SD0137	T-OCA-3	11/28/95			78.7			
SD0138	T-OCA-3	11/28/95			75.3			
SD0139	T-OCA-3	11/28/95			74			
SD0140	T-OCA-4	11/28/95			44			
SD0141	T-OCA-4	11/28/95			61.5			
SD0142	T-OCA-4	11/28/95			53.3			
SD0143	T-OCA-4	11/28/95			59.2			
SD0144	T-OCA-4	11/28/95			64.2			
SD0145	T-OCA-4	11/28/95			60.9			
SD0146	T-OCA-4	11/28/95			58.6			
SD0147	T-OCA-4	11/28/95			70.6			
SD0148	T-OCA-4	11/28/95			69.2			
SD0149	T-OCA-4	11/28/95			65.5			
SD0150	T-OCA-4	11/28/95			67.9			
SD0151	T-OCA-4	11/28/95			71.9			
SD0152	T-OCA-4	11/28/95			72.9			
SD0153	T-OCA-4	11/28/95			68.3			
SD0154	T-OCA-4	11/28/95			74.1			
SD0155	T-OCA-4	11/28/95			75.5			
SD0156	T-OCA-4	11/28/95			75.2			
SD0157	T-OCA-4	11/28/95			70.2			
SD0158	T-OCA-4	11/28/95			74.3			
SD0159	T-OCA-4	11/28/95			72.2			
SD0160	T-SD0+2	10/25/95			71.7			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0161	T-SD0+2	10/25/95			44.5			
SD0162	T-SD0+2	10/25/95			38.1			
SD0163	T-SD0+2	10/25/95			74.1			
SD0164	T-SD0+2	10/25/95			86.7			
SD0165	T-SD0+2	10/25/95			86.2			
SD0166	T-SD0+2	10/25/95			78.9			
SD0167	TSD13+6	10/25/95			89.1			
SD0168	TSD19+3	11/17/95			80.7			
SD0169	TSD19+3	11/17/95			82.2			
SD0170	TSD19+3	11/17/95			83.2			
SD0172	TSD19+3	11/17/95			86			
SD0173	TSD19+3	11/17/95			88			
SD0174	TSD19+3	11/17/95			89.6			
SD0175	TSD21+0	10/25/95			62.2			
SD0176	T-OCA-5	07/31/96			37.2			
SD0177	T-OCA-5	07/31/96			49.4			
SD0178	T-OCA-5	07/31/96			49.4			
SD0179	T-OCA-5	07/31/96			55.9			
SD0180	T-OCA-5	07/31/96			62.6			
SD0181	T-OCA-5	07/31/96			60.4			
SD0182	T-OCA-5	07/31/96			61.6			
SD0183	T-OCA-5	07/31/96			55.7			
SD0184	T-OCA-5	07/31/96			70.7			
SD0185	T-OCA-5	07/31/96			73.5			
SD0186	T-OCA-5	07/31/96			82.8			
SD0187	T-OCA-5	07/31/96			86.7			
SD0188	T-OCA-5	07/31/96			87.5			
SD0189	T-OCA-5	07/31/96			75.6			
SD0190	T-OCA-5	07/31/96			76.2			
SD0191	T-OCA-5	07/31/96			76			
SD0192	T-OCA-5	07/31/96			75.5			
SD0193	T-OCA-5	07/31/96			76.4			
SD0194	T-OCA-5	07/31/96			76.7			
SD0195	T-OCA-5	07/31/96			76.6			
SD0196	T-OCA-6	07/31/96			49.2			
SD0197	T-OCA-6	07/31/96			51.3			
SD0198	T-OCA-6	07/31/96			51			
SD0199	T-OCA-6	07/31/96			48.8			
SD0200	T-OCA-6	07/31/96			53.6			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0201	T-OCA-6	07/31/96			18			
SD0202	T-OCA-6	07/31/96			56.9			
SD0203	T-OCA-6	07/31/96			62			
SD0204	T-OCA-6	07/31/96			74.8			
SD0205	T-OCA-6	07/31/96			75.2			
SD0206	T-OCA-6	07/31/96			69.6			
SD0207	T-OCA-6	07/31/96			71.1			
SD0208	T-OCA-6	07/31/96			74.8			
SD0209	T-OCA-6	07/31/96			75			
SD0210	T-OCA-6	07/31/96			71.8			
SD0211	T-OCA-6	07/31/96			70.9			
SD0212	T-OCA-6	07/31/96			71.3			
SD0213	T-OCA-6	07/31/96			76.9			
SD0214	T-OCA-6	07/31/96			78.2			
SD0215	T-OCA-6	07/31/96			77.2			
SD0216	T-OCA-4	07/31/96			37.8		56000	
SD0217	T-OCA-4	07/31/96			43.6		52000	
SD0300	C-OCA-1	11/29/95			32.9			
SD0301	C-OCA-1	11/29/95			69.5			
SD0302	C-OCA-1	11/29/95			81.7			
SD0303	C-OCA-1	11/29/95			72.6			
SD0304	C-OCA-1	11/29/95			59.6			
SD0305	C-OCA-2	11/29/95			54.8			
SD0306	C-OCA-2	11/29/95			58.7			
SD0307	C-OCA-2	11/29/95			60.4			
SD0308	C-OCA-2	11/29/95			59.6			
SD0309	C-OCA-2	11/29/95			66.7			
SD0310	C-OCA-2	11/29/95			72.5			
SD0311	C-OCA-3	11/29/95			47.4			
SD0312	C-OCA-3	11/29/95			62.1			
SD0313	C-OCA-3	11/29/95			60.5			
SD0314	C-OCA-3	11/29/95			66.2			
SD0315	C-OCA-3	11/29/95			55.3			
SD0317	C-OCA-4	11/29/95			44.3			
SD0318	C-OCA-4	11/29/95			62			
SD0319	C-OCA-4	11/29/95			58.8			
SD0320	C-OCA-4	11/29/95			55.7			
SD0322	C-OCA-5	11/29/95			39.6			
SD0323	C-OCA-5	11/29/95			62.2			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0324	C-OCA-5	11/29/95			58.7			
SD0325	C-OCA-5	11/29/95			61.9			
SD0326	C-OCA-5	11/29/95			67.8			
SD0327	C-OCA-6	11/29/95			35.9			
SD0328	C-OCA-6	11/29/95			54.4			
SD0329	C-OCA-6	11/29/95			71			
SD0330	C-OCA-6	11/29/95			69.7			
SD0331	C-OCA-6	11/29/95			63.9			
SD0332	C-OCA-6	11/29/95			60.6			
SD0333	C-OCA-7	11/29/95			44.7			
SD0334	C-OCA-7	11/29/95			51.8			
SD0335	C-OCA-7	11/29/95			55			
SD0336	C-OCA-7	11/29/95			52.7			
SD0337	C-OCA-7	11/29/95			53.5			
SD0339	C-OCA-8	11/29/95			39.8			
SD0340	C-OCA-8	11/29/95			63.7			
SD0341	C-OCA-8	11/29/95			73.7			
SD0342	C-OCA-8	11/29/95			52.8			
SD0343	C-OCA-8	11/29/95			64.4			
SD0344	C-OCA-9	11/29/95			70.6			
SD0345	C-OCA-9	11/29/95			70.2			
SD0346	C-OCA-9	11/29/95			70.1			
SD0347	C-OCA-9	11/29/95			70.3			
SD0348	C-OCA-9	11/29/95			71.9			
SD0349	C-OCA-9	11/29/95			75.2			
SD0350	C-OCA-10	11/29/95			38.7			
SD0351	C-OCA-10	11/29/95			46.3			
SD0352	C-OCA-10	11/29/95			41.3			
SD0353	C-OCA-10	11/29/95			60.3			
SD0354	C-OCA-10	11/29/95			60.7			
SD0355	C-OCA-10	11/29/95			60.7			
SD0356	C-OCA-11	11/30/95			70.2			
SD0357	C-OCA-11	11/30/95			71.4			
SD0358	C-OCA-11	11/30/95			65.4			
SD0359	C-OCA-11	11/30/95			66.7			
SD0360	C-OCA-11	11/30/95			68.9			
SD0361	C-OCA-12	11/30/95			49.9			
SD0362	C-OCA-12	11/30/95			63.7			
SD0363	C-OCA-12	11/30/95			63.5			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD0364	C-OCA-12	11/30/95			80			
SD0365	C-OCA-12	11/30/95			74			
SD0366	C-OCA-12	11/30/95			57.4			
SD0367	C-AF-1	11/01/95			75			
SD0368	C-AF-1	11/01/95			81.4			
SD0369	C-AF-2	11/01/95			83.2			
SD0370	C-AF-2	11/01/95			83.5			
SD0371	C-AF-2	11/01/95			78.4			
SD0372	C-AF-3	11/01/95			82.4			
SD0373	C-AF-3	11/01/95			78.9			
SD0374	C-AF-4	11/01/95			82.9			
SD0375	C-AF-4	11/01/95			81.9			
SD0376	C-25D-1	11/01/95			88.8			
SD0377	C-25D-1	11/01/95			86.9			
SD0378	C-25D-1	11/01/95			91.5			
SD0379	C-25D-2	11/01/95			86.7			
SD0380	C-25D-3	11/01/95			90.1			
SD0381	C-25D-4	11/01/95			87.2			
SD0382	C-25D-4	11/01/95			89			
SD0383	C-25D-5	11/01/95			88.2			
SD0500	G-SD-1	10/24/95			48.3			
SD0501	G-SD-1	10/24/95			57.2			
SD0502	G-SD-2	10/24/95			47.6			
SD0503	G-SD-3	10/24/95			30.7			
SD0504	G-SD-3	10/24/95			27.8			
SD1001	T-ES-1	08/19/97	7.9	J	83		11000	
SD1002	T-ES-2	08/19/97	7.4	J	78.2		14000	
SD1003	T-ES-3	08/19/97	7.1	J	81.2		13000	
SD1004	T-ES-4	08/19/97	7.2	J	74.3		19000	
SD1101	G-SD-10	08/19/97						
SD1102	CSD0+25	08/19/97	7.3	J	33.7		40000	
SD1103	G-SD-11	08/19/97						
SD1104	CSD13+6	08/19/97	7.4	J	43.7		32000	
SD1105	G-SD-12	08/19/97						
SD1106	CSD21+0	08/19/97	6.8	J	46.2		29000	
SD1111	G-SD-13	08/19/97			31.9			
SD1112	G-SD-14	08/19/97			34.7			
SD1113	G-SD-15	08/19/97			30.4			
SD1114	G-SD-16	08/19/97			53.4			

Sample Number	Station	Date	pH pH wet	Qual-	Total solids (dry wt. as % of wet wt.) % dry	Qual-	Total organic carbon mg/kg dry	Qual-
SD1201	T-OCA-1	09/15/97	7.2	J	72.8		10000	
SD1202	T-OCA-2	09/15/97	7.3	J	63.6		20000	
SD1203	T-OCA-3	09/16/97	7	J	55.4		16000	
SD1204	T-OCA-4	09/16/97	6.8	J	70.8		13000	
SD1205	T-OCA-5	09/15/97	6.9	J	70.4		17000	
SD1206	T-OCA-6	09/16/97	7	J	58.3		23000	
SD1207	T-OCA-4	09/16/97	7.2	J	69.8		11000	
SD1208	T-OCA-5	09/15/97	7.1	J	70.4		16000	
SD1301	C-OCA-1	09/16/97	7	J	62.4		17000	
SD1302	C-OCA-2	09/16/97	7.1	J	60.2		23000	
SD1303	C-OCA-3	09/16/97	7.2	J	50.9		28000	
SD1304	C-OCA-4	09/15/97	6.4	J	69.9		12000	
SD1305	C-OCA-5	09/15/97	6.9	J	67.4		17000	
SD1306	C-OCA-6	09/15/97	7.4	J	63		16000	
SD1307	C-OCA-7	09/15/97	7.3	J	63.4		17000	
SD1308	C-OCA-8	09/15/97	6.9	J	51.1		27000	
SD1309	C-OCA-9	09/15/97	6.9	J	53.1		19000	
SD1310	C-OCA-10	09/16/97	7	J	64.9		18000	
SD1311	C-OCA-11	09/16/97	7	J	64.9		21000	
SD1312	C-OCA-12	09/15/97	6.9	J	70.5		15000	
SD1401	G-OCA-91	09/16/97						
SD1402	G-OCA-92	09/16/97						
SD1403	G-OCA-93	09/16/97						
SD2102	CSD0+25	08/19/97	6.8	J	40.4		31000	
SD2111	G-SD-13	08/19/97			32.2			

Supplemental Data (2003)

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
C-OCA-13	0 - 6	10/14/2003	4550 J
	6 - 12	10/14/2003	7200 J
	12 - 18	10/14/2003	4540 J
	18 - 24	10/14/2003	49 J
	24 - 30	10/14/2003	37.8 J
C-OCA-14	0 - 6	10/14/2003	1890 J
	6 - 12	10/14/2003	1340 J
	12 - 18	10/14/2003	17.5 J
	18 - 24	10/14/2003	14.9 J
	24 - 30	10/14/2003	9.1 J
C-OCA-15	0 - 6	10/14/2003	1950 [1290]
	6 - 12	10/14/2003	5240
	12 - 18	10/14/2003	10800
	18 - 24	10/14/2003	198
	24 - 30	10/14/2003	24.2 J
C-OCA-16	0 - 6	10/14/2003	1100 J
	6 - 12	10/14/2003	580 J
	12 - 18	10/14/2003	1740 J
	18 - 24	10/14/2003	6310 J
	24 - 30	10/14/2003	102 J
	30 - 36	10/14/2003	22.4
C-OCA-17	0 - 6	10/14/2003	3460 J
	6 - 12	10/14/2003	10500 J
	12 - 18	10/14/2003	155 J
	18 - 24	10/14/2003	26.8 J
C-OCA-18	0 - 6	10/14/2003	706 J
	6 - 12	10/14/2003	585 J
	12 - 18	10/14/2003	20.9 J
	18 - 24	10/14/2003	22.9 J
	24 - 30	10/14/2003	21.1 J
C-OCA-19	0 - 6	10/14/2003	10100 J
	6 - 12	10/14/2003	12800 J [12100 J]
	12 - 18	10/14/2003	247 J
	18 - 24	10/14/2003	41.1 J
	24 - 30	10/14/2003	37.3 J
C-OCA-20	0 - 6	10/14/2003	8510
	6 - 12	10/14/2003	7350
	12 - 18	10/14/2003	71.5
	18 - 24	10/14/2003	31.7
	24 - 30	10/14/2003	49.1
C-OCA-21	0 - 6	10/14/2003	3160
	6 - 12	10/14/2003	3070
	12 - 18	10/14/2003	81.1
	18 - 24	10/14/2003	31.1
	24 - 30	10/14/2003	24.6
C-OCA-22	0 - 6	10/14/2003	1670 J
	6 - 12	10/14/2003	615 J
	12 - 18	10/14/2003	25.8 J
	18 - 24	10/14/2003	23 J

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
C-OCA-23	0 - 6	12/10/2003	406 J
	6 - 12	12/10/2003	383 J
	12 - 18	12/10/2003	52.8 J
	18 - 24	12/10/2003	20.2 J
	24 - 30	12/10/2003	16.7 J
T-OCA-7-A	0 - 6	10/2/2003	66.4
T-OCA-7-B	6 - 12	10/2/2003	59.3
	12 - 18	10/2/2003	133
T-OCA-7-C1L	0 - 6	10/2/2003	83.7
	6 - 12	10/2/2003	22.1
	12 - 18	10/2/2003	412
T-OCA-7-C1R	0 - 6	10/2/2003	56.2
	6 - 12	10/2/2003	20.5
	12 - 18	10/2/2003	9.1
T-OCA-7-C2L	0 - 6	10/2/2003	117
	6 - 12	10/2/2003	215
	12 - 18	10/2/2003	17.9
T-OCA-7-C2R	0 - 6	10/2/2003	94.6
	6 - 12	10/2/2003	87.5
	12 - 18	10/2/2003	88.7
T-OCA-7-OB1R	0 - 6	10/2/2003	16.8 [26.1]
	6 - 12	10/2/2003	39.4
T-OCA-8-A	0 - 6	10/1/2003	120 J
T-OCA-8-B	6 - 12	10/1/2003	40.7 J
	12 - 18	10/1/2003	23.2 J
T-OCA-8-C1L	0 - 6	10/1/2003	26.9 J [27.4 J]
	6 - 12	10/1/2003	12.9 J
	12 - 18	10/1/2003	11.5 J
T-OCA-8-C1R	0 - 6	10/1/2003	23.1 J
	6 - 12	10/1/2003	8.9 J
	12 - 18	10/1/2003	10.2 J
T-OCA-8-C2L	0 - 6	10/1/2003	407 J
	6 - 12	10/1/2003	9.4 J
	12 - 18	10/1/2003	12.9 J
T-OCA-8-C2R	0 - 6	10/1/2003	32.4 J
	6 - 12	10/1/2003	15.2 J
	12 - 18	10/1/2003	11 J
T-OCA-8-OB1R	0 - 6	10/1/2003	24.7
	6 - 12	10/1/2003	10.8
T-OCA-9-A	0 - 6	10/1/2003	162
T-OCA-9-B	6 - 12	10/1/2003	103
	12 - 18	10/1/2003	194
T-OCA-9-C1L	0 - 6	10/1/2003	47.6
	6 - 12	10/1/2003	10.5
	12 - 18	10/1/2003	4.8
T-OCA-9-C1R	0 - 6	10/1/2003	133
	6 - 12	10/1/2003	99.9
	12 - 18	10/1/2003	11.6
T-OCA-9-C2L	0 - 6	10/1/2003	34.3
	6 - 12	10/1/2003	27.3
	12 - 18	10/1/2003	11.1

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-9-C2R	0 - 6	10/1/2003	504
	6 - 12	10/1/2003	142
	12 - 18	10/1/2003	375
T-OCA-9-OB1R	0 - 6	10/1/2003	24.9 [26.9]
	6 - 12	10/1/2003	18.9
T-OCA-10-A	0 - 6	10/1/2003	1610
T-OCA-10-B	6 - 12	10/1/2003	968
	12 - 18	10/1/2003	391
T-OCA-10-C1L	0 - 6	10/1/2003	7820
	6 - 12	10/1/2003	201
	12 - 18	10/1/2003	18.8
T-OCA-10-C1R	0 - 6	10/1/2003	240 [237]
	6 - 12	10/1/2003	17.3
	12 - 18	10/1/2003	18.6
T-OCA-10-C2L	0 - 6	10/1/2003	2860
	6 - 12	10/1/2003	5270
	12 - 18	10/1/2003	23.4
T-OCA-10-C2R	0 - 6	10/1/2003	36.2
	6 - 12	10/1/2003	7.8
	12 - 18	10/1/2003	8.9
T-OCA-10-OB1R	0 - 6	10/1/2003	34.3
	6 - 12	10/1/2003	8.2
T-OCA-11-A	0 - 6	10/1/2003	625
T-OCA-11-B	6 - 12	10/1/2003	14.7
T-OCA-11-C1L	0 - 6	10/1/2003	1760
	6 - 12	10/1/2003	178
	12 - 18	10/1/2003	14.5
T-OCA-11-C1R	0 - 6	10/1/2003	392
	6 - 12	10/1/2003	15.3
	12 - 18	10/1/2003	10.9
T-OCA-11-C2L	0 - 6	10/1/2003	5030
	6 - 12	10/1/2003	132
	12 - 18	10/1/2003	20.5
T-OCA-11-C2R	0 - 6	10/1/2003	59.9
	6 - 12	10/1/2003	18.6
	12 - 18	10/1/2003	13.3
T-OCA-11-OB1L	0 - 6	10/1/2003	71.8
	6 - 12	10/1/2003	17.7
T-OCA-11-OB1R	0 - 6	10/1/2003	25.7 [10.3]
	6 - 12	10/1/2003	34.1
T-OCA-12-A	0 - 6	10/1/2003	174
T-OCA-12-B	6 - 12	10/1/2003	97.9
	12 - 18	10/1/2003	86.3
T-OCA-12-C1L	0 - 6	10/1/2003	2570
	6 - 12	10/1/2003	84.8
	12 - 18	10/1/2003	17.9
T-OCA-12-C1R	0 - 6	10/1/2003	6020
	6 - 12	10/1/2003	3760
	12 - 18	10/1/2003	259
T-OCA-12-C2L	0 - 6	10/1/2003	2580
	6 - 12	10/1/2003	5060
	12 - 18	10/1/2003	629
	18 - 20	10/1/2003	109

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-12-C2R	0 - 6	10/1/2003	50
	6 - 12	10/1/2003	13.3
	12 - 18	10/1/2003	6
T-OCA-12-OB1L	0 - 6	10/1/2003	55.3
	6 - 12	10/1/2003	13.9
	12 - 18	10/1/2003	6.4
T-OCA-12-OB1R	0 - 6	10/1/2003	24.2 [21.6]
	6 - 12	10/1/2003	9
T-OCA-13-A	0 - 6	9/30/2003	69.3
T-OCA-13-B	6 - 12	9/30/2003	6.2
	12 - 18	9/30/2003	4.3
T-OCA-13-C1L	0 - 6	9/30/2003	357
	6 - 12	9/30/2003	13.4
T-OCA-13-C1R	0 - 6	9/30/2003	8.6
	6 - 12	9/30/2003	10.9
	12 - 14	9/30/2003	7.9
T-OCA-13-C2L	0 - 6	9/30/2003	4290
	6 - 12	9/30/2003	4000
	12 - 18	9/30/2003	331
T-OCA-13-C2R	0 - 6	9/30/2003	13.3
	6 - 12	9/30/2003	10.1
	12 - 18	9/30/2003	5.9
T-OCA-13-OB1L	0 - 6	9/30/2003	1020
	6 - 12	9/30/2003	102
	12 - 18	9/30/2003	23.8
T-OCA-13-OB1R	0 - 6	9/30/2003	19.1 [17.8]
	6 - 12	9/30/2003	9.2
T-OCA-14-A	0 - 6	9/30/2003	36.9
T-OCA-14-B	6 - 8	9/30/2003	6.9
T-OCA-14-C1L	0 - 6	9/30/2003	918
	6 - 12	9/30/2003	94.2
	12 - 18	9/30/2003	23.7
T-OCA-14-C1R	0 - 6	9/30/2003	1050
	6 - 12	9/30/2003	1960
T-OCA-14-C2L	0 - 6	9/30/2003	985
	6 - 12	9/30/2003	340
	12 - 18	9/30/2003	212
T-OCA-14-C2R	0 - 6	9/30/2003	2350
	6 - 12	9/30/2003	806
	12 - 18	9/30/2003	75.9
T-OCA-14-OB1R	0 - 6	9/30/2003	28.4 [20.3]
	6 - 12	9/30/2003	14
T-OCA-15-A	0 - 6	9/30/2003	136
T-OCA-15-B	6 - 12	9/30/2003	116
	12 - 18	9/30/2003	80.4
T-OCA-15-C1L	0 - 6	9/30/2003	282
	6 - 12	9/30/2003	122
	12 - 18	9/30/2003	13.2
T-OCA-15-C1R	0 - 6	9/30/2003	29.3
	6 - 12	9/30/2003	8.1
	12 - 18	9/30/2003	19.4

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-15-C2L	0 - 6	9/30/2003	1400
	6 - 12	9/30/2003	2280
	12 - 18	9/30/2003	2400
	18 - 24	9/30/2003	3780
	24 - 30	9/30/2003	3520
T-OCA-15-C2R	0 - 6	9/30/2003	495 [464]
	6 - 12	9/30/2003	27.5
	12 - 18	9/30/2003	9.5
T-OCA-15-OB1L	0 - 6	9/30/2003	37.4
	6 - 12	9/30/2003	24.4
T-OCA-15-OB1R	0 - 6	9/30/2003	27.3
	6 - 12	9/30/2003	14.8
T-OCA-16-A	0 - 6	9/30/2003	174
T-OCA-16-B	6 - 12	9/30/2003	444
	12 - 18	9/30/2003	1670
	18 - 24	9/30/2003	60.5
T-OCA-16-C1L	0 - 6	9/30/2003	5400
	6 - 12	9/30/2003	1580
	12 - 18	9/30/2003	89.7
	18 - 24	9/30/2003	17.7
	24 - 30	9/30/2003	15.7
T-OCA-16-C1R	0 - 6	9/30/2003	611
	6 - 12	9/30/2003	92.9
	12 - 18	9/30/2003	7.3
T-OCA-16-C2L	0 - 6	9/30/2003	1910
	6 - 12	9/30/2003	843
	12 - 18	9/30/2003	22.1
	18 - 24	9/30/2003	31.1
	24 - 30	9/30/2003	10.7
T-OCA-16-C2R	0 - 6	9/30/2003	148
	6 - 12	9/30/2003	15
	12 - 18	9/30/2003	8.7
T-OCA-16-OB1L	0 - 6	9/30/2003	24.5
	6 - 12	9/30/2003	16.9
T-OCA-16-OB1R	0 - 6	9/30/2003	41.4 [81.3]
	6 - 12	9/30/2003	19.4
T-OCA-17-OB1L	0 - 6	10/14/2003	704 J
	6 - 12	10/14/2003	594 J
	12 - 18	10/14/2003	424 J
	18 - 24	10/14/2003	210 J
	24 - 30	10/14/2003	36 J
T-OCA-18-OB1L	0 - 6	10/14/2003	3410 [3600]
	6 - 12	10/14/2003	14400
	12 - 18	10/14/2003	8680
	18 - 24	10/14/2003	5370
	24 - 30	10/14/2003	30.5
T-OCA-19-A	0 - 6	10/15/2003	61.3
T-OCA-19-B	6 - 12	10/15/2003	50.5
	12 - 18	10/15/2003	36.2
T-OCA-19-C1L	0 - 6	10/15/2003	12.7
	6 - 12	10/15/2003	11.7
	12 - 18	10/15/2003	11.6

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-19-C1R	0 - 6	10/15/2003	21.8
	6 - 12	10/15/2003	12.2
	12 - 18	10/15/2003	12.3
T-OCA-19-C2L	0 - 6	10/15/2003	50.3
	6 - 12	10/15/2003	32.1
	12 - 18	10/15/2003	26
T-OCA-19-C2R	0 - 6	10/15/2003	52.2 [44]
	6 - 12	10/15/2003	63.1
	12 - 18	10/15/2003	40.3
	24 - 30	10/15/2003	22.8
T-OCA-19-OB1L	0 - 6	10/15/2003	60
T-OCA-19-OB1R	0 - 6	10/15/2003	7950
	6 - 12	10/15/2003	1120
	12 - 18	10/15/2003	50.4
	18 - 24	10/15/2003	24
T-OCA-19-OB2R	0 - 6	10/15/2003	136
	6 - 12	10/15/2003	17.1
	12 - 18	10/15/2003	14.9
	18 - 24	10/15/2003	14.3
T-OCA-20-A	0 - 6	10/15/2003	209
T-OCA-20-B	6 - 12	10/15/2003	226
	12 - 18	10/15/2003	54.5
T-OCA-20-C1L	0 - 6	10/15/2003	192 [202]
	6 - 12	10/15/2003	28.4
	12 - 18	10/15/2003	27.9
T-OCA-20-C1R	0 - 6	10/15/2003	12.8
	6 - 12	10/15/2003	12.4
	12 - 18	10/15/2003	11.8
T-OCA-20-C2L	0 - 6	10/15/2003	54.9
	6 - 12	10/15/2003	32.9
	12 - 18	10/15/2003	25.6
T-OCA-20-C2R	0 - 6	10/15/2003	23.8
	6 - 12	10/15/2003	35.6
	12 - 18	10/15/2003	44.2
	18 - 24	10/15/2003	30.3
T-OCA-21-A	0 - 6	10/15/2003	90.9
T-OCA-21-B	6 - 12	10/15/2003	241
	12 - 18	10/15/2003	162
T-OCA-21-C1L	0 - 6	10/15/2003	16.1
	6 - 12	10/15/2003	14
	12 - 18	10/15/2003	14.9
T-OCA-21-C1R	0 - 6	10/15/2003	37.6
	6 - 12	10/15/2003	17.2
	12 - 18	10/15/2003	18.3
T-OCA-21-C2L	0 - 6	10/15/2003	111
	6 - 12	10/15/2003	29.5
	12 - 18	10/15/2003	21.3
T-OCA-21-C2R	0 - 6	10/15/2003	38.1 [33.9]
	6 - 12	10/15/2003	30.5
	12 - 18	10/15/2003	27.9
T-OCA-21-OB1L	0 - 6	10/15/2003	43

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-21-OB1R	0 - 6	10/15/2003	1830
	6 - 12	10/15/2003	298
	12 - 18	10/15/2003	29.4
	18 - 24	10/15/2003	23
T-OCA-22-A	0 - 6	10/14/2003	61.6 J
T-OCA-22-B	6 - 12	10/14/2003	32.1 J
	12 - 18	10/14/2003	10.8 J
T-OCA-22-C1L	0 - 6	10/14/2003	52 J
	6 - 12	10/14/2003	13.8 J
	12 - 18	10/14/2003	13.6 J
T-OCA-22-C1R	0 - 6	10/14/2003	14.3 J
	6 - 12	10/14/2003	14.2 J
	12 - 18	10/14/2003	13.5 J
T-OCA-22-C2L	0 - 6	10/14/2003	36.2 J
T-OCA-22-C2R	0 - 6	10/14/2003	29 J
	6 - 12	10/14/2003	27.5 J
	12 - 18	10/14/2003	21.1 J
T-OCA-22-HWL	0 - 6	10/14/2003	25.7 J [25.7 J]
	6 - 12	10/14/2003	22.3 J
	12 - 18	10/14/2003	21.9 J
T-OCA-22-OB1R	0 - 6	10/14/2003	7870 J
	6 - 12	10/14/2003	15000
	12 - 18	10/14/2003	1230
	18 - 24	10/14/2003	29.6
T-OCA-23-A	0 - 6	10/14/2003	60.5
T-OCA-23-B	6 - 12	10/14/2003	175
	12 - 18	10/14/2003	118
T-OCA-23-C1L	0 - 6	10/14/2003	67.1 [73.4]
	6 - 12	10/14/2003	26.9
	12 - 18	10/14/2003	25.3
T-OCA-23-C1R	0 - 6	10/14/2003	16.7
	6 - 12	10/14/2003	12.8
	12 - 18	10/14/2003	13.1
T-OCA-23-C2L	0 - 6	10/14/2003	40
	6 - 12	10/14/2003	29.6
	12 - 18	10/14/2003	23.9
T-OCA-23-C2R	0 - 6	10/14/2003	34.4
	6 - 12	10/14/2003	28.8 J
	12 - 18	10/14/2003	16.9 J
T-OCA-23-OB1L	0 - 6	10/13/2003	33.8
T-OCA-23-OB1R	0 - 6	10/14/2003	12100 J
	6 - 12	10/14/2003	15800
	12 - 18	10/14/2003	418
	18 - 24	10/14/2003	46.5
T-OCA-24-A	0 - 6	10/14/2003	73.8 J
T-OCA-24-B	6 - 12	10/14/2003	169 J
	12 - 18	10/14/2003	68.6 J
T-OCA-24-C1L	0 - 6	10/14/2003	27.2 J
	6 - 12	10/14/2003	14.6 J
	12 - 18	10/14/2003	13.6 J
T-OCA-24-C1R	0 - 6	10/14/2003	21.4 J
	6 - 12	10/14/2003	18.6 J
	12 - 18	10/14/2003	13.9 J

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-24-C2L	0 - 6	10/14/2003	77.2 J
	6 - 12	10/14/2003	51.1 J
	12 - 18	10/14/2003	26.1 J
T-OCA-24-C2R	0 - 6	10/14/2003	38 J [35.8]
	6 - 12	10/14/2003	64.8
	12 - 18	10/14/2003	502
	18 - 24	10/14/2003	318 [197]
	24 - 30	10/14/2003	27.1
T-OCA-24-OB1L	0 - 6	10/13/2003	47.1 J
T-OCA-24-OB1R	0 - 6	10/14/2003	8040
	6 - 12	10/14/2003	7780
	12 - 18	10/14/2003	16.8
	18 - 24	10/14/2003	14
T-OCA-25-A	0 - 6	10/13/2003	71.4 J
T-OCA-25-B	6 - 12	10/13/2003	67.4 J
	12 - 18	10/13/2003	22.2 J
T-OCA-25-C1L	0 - 6	10/13/2003	16.6 J
	6 - 12	10/13/2003	12.8 J [33.7 J]
	12 - 18	10/13/2003	13.5 J
T-OCA-25-C1R	0 - 6	10/13/2003	35.3 J
	6 - 12	10/13/2003	14.4 J
	12 - 18	10/13/2003	12.2 J
T-OCA-25-C2L	0 - 6	10/13/2003	59.7 J
	6 - 12	10/13/2003	32.4 J
	12 - 18	10/13/2003	23.9 J
T-OCA-25-C2R	0 - 6	10/13/2003	51.4 J
	6 - 12	10/13/2003	25.1 J
	12 - 18	10/13/2003	51.1 J
T-OCA-25-OB1L	0 - 6	10/13/2003	47 J
T-OCA-25-OB1R	0 - 6	10/13/2003	1370 J
	6 - 12	10/13/2003	128
	12 - 18	10/13/2003	22
T-OCA-26-OB1R	0 - 6	10/13/2003	1030 J [1200 J]
	6 - 12	10/13/2003	544 J
	12 - 18	10/13/2003	40.1 J
	18 - 24	10/13/2003	24.9 J
	24 - 30	10/13/2003	21 J
T-OCA-27-A	0 - 6	10/13/2003	60.1
T-OCA-27-B	6 - 12	10/13/2003	82.1
	12 - 18	10/13/2003	80.7
T-OCA-27-C1L	0 - 6	10/13/2003	16.2
	6 - 12	10/13/2003	14.7
	12 - 18	10/13/2003	11.9
T-OCA-27-C1R	0 - 6	10/13/2003	101
	6 - 12	10/13/2003	10.9
	12 - 18	10/13/2003	19.9
T-OCA-27-C2L	0 - 6	10/13/2003	62.2
	6 - 12	10/13/2003	108
	12 - 18	10/13/2003	68.3
T-OCA-27-C2R	0 - 6	10/13/2003	53.3
	6 - 12	10/13/2003	53.5 J
	12 - 18	10/13/2003	25.5 J
T-OCA-27-OB1L	0 - 6	10/13/2003	47.9

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-27-OB1R	0 - 6	10/9/2003	1110
	6 - 12	10/9/2003	50.4
	12 - 18	10/9/2003	31.7
	18 - 24	10/9/2003	30.8
T-OCA-28-A	0 - 6	10/9/2003	59.4
T-OCA-28-B	6 - 12	10/9/2003	58.9
	12 - 18	10/9/2003	22.6
T-OCA-28-C1L	0 - 6	10/9/2003	21.7
	6 - 12	10/9/2003	15.4
	12 - 18	10/9/2003	14.1
T-OCA-28-C1R	0 - 6	10/9/2003	18.2
	6 - 12	10/9/2003	14.1
	12 - 18	10/9/2003	14.8
T-OCA-28-C2L	0 - 6	10/9/2003	32.7
	6 - 12	10/9/2003	19.7
	12 - 18	10/9/2003	20.5
T-OCA-28-C2R	0 - 6	10/9/2003	27.7 [28.4]
	6 - 12	10/9/2003	24.8
	12 - 18	10/9/2003	25.5
T-OCA-28-OB1L	0 - 6	10/9/2003	43.1
T-OCA-29-A	0 - 6	10/9/2003	161 [81.1]
T-OCA-29-B	6 - 12	10/9/2003	121
	12 - 18	10/9/2003	85.5
T-OCA-29-C1L	0 - 6	10/9/2003	21.4
	6 - 12	10/9/2003	16.5
	12 - 18	10/9/2003	14.3
T-OCA-29-C1R	0 - 6	10/9/2003	305
	6 - 12	10/9/2003	260
	12 - 18	10/9/2003	141
T-OCA-29-C2L	0 - 6	10/9/2003	295
	6 - 12	10/9/2003	75.1
	12 - 18	10/9/2003	35.5
T-OCA-29-C2R	0 - 6	10/9/2003	836
	6 - 12	10/9/2003	734
	12 - 18	10/9/2003	62.6
T-OCA-29-OB1L	0 - 6	10/9/2003	74.5
T-OCA-29-OB1R	0 - 6	10/9/2003	1860
	6 - 12	10/9/2003	294
	12 - 18	10/9/2003	59.1
T-OCA-29-OB2R	0 - 6	10/9/2003	259
	6 - 12	10/9/2003	35.4
T-OCA-29-OB3R	0 - 6	10/9/2003	176 [144]
	6 - 12	10/9/2003	47.7
T-OCA-30-A	0 - 6	9/23/2003	438
T-OCA-30-B	6 - 12	9/23/2003	20.3
	12 - 18	9/23/2003	18.8
T-OCA-30-C1L	0 - 6	9/23/2003	29
	6 - 12	9/23/2003	27.8
	12 - 18	9/23/2003	18.5
T-OCA-30-C1R	0 - 6	9/23/2003	16.1
	6 - 12	9/23/2003	19.4
	12 - 18	9/23/2003	19.9

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-30-C2R	0 - 6	9/23/2003	834 [817]
	6 - 12	9/23/2003	605
	12 - 18	9/23/2003	742
	18 - 24	9/23/2003	1570
	24 - 30	9/23/2003	783
	30 - 36	12/10/2003	27.9 J
T-OCA-30-HWL	0 - 6	9/23/2003	188
	6 - 12	9/23/2003	23.2
	12 - 18	9/23/2003	19.8
T-OCA-30-OB1R	0 - 6	9/23/2003	527
	6 - 12	9/23/2003	353
	12 - 18	9/23/2003	89.2
T-OCA-30-OB2R	0 - 6	9/23/2003	199
	6 - 12	9/23/2003	72.2
T-OCA-30-OB3R	0 - 6	9/23/2003	116
	6 - 12	9/23/2003	15.5
T-OCA-31-A	0 - 6	9/23/2003	36.9
T-OCA-31-B	6 - 12	9/23/2003	114
	12 - 18	9/23/2003	411
	18 - 24	9/23/2003	259
	24 - 30	9/23/2003	42.8
T-OCA-31-C1L	0 - 6	9/23/2003	455
	6 - 12	9/23/2003	78.1
	12 - 18	9/23/2003	18.7
T-OCA-31-C1R	0 - 6	9/23/2003	319
	6 - 12	9/23/2003	21.9
	12 - 18	9/23/2003	16.2
T-OCA-31-C2R	0 - 6	9/23/2003	368
	6 - 12	9/23/2003	278
	12 - 18	9/23/2003	397
T-OCA-31-HWL	0 - 6	9/23/2003	82.4 [75.4]
	6 - 12	9/23/2003	25.6
	12 - 18	9/23/2003	22.2
T-OCA-31-OB1R	0 - 6	9/23/2003	43
	6 - 12	9/23/2003	223
	12 - 18	9/23/2003	20.7
T-OCA-31-OB2R	0 - 6	9/23/2003	204 [186]
	6 - 12	9/23/2003	32.4
T-OCA-31-OB3R	0 - 6	9/23/2003	189
	6 - 12	9/23/2003	23
T-OCA-32-A	0 - 6	9/23/2003	10.6
T-OCA-32-B	6 - 12	9/23/2003	8.9
	12 - 18	9/23/2003	115
T-OCA-32-C1L	0 - 6	9/23/2003	39.4
	6 - 12	9/23/2003	9.8
	12 - 18	9/23/2003	5.9
T-OCA-32-C1R	0 - 6	9/23/2003	586
	6 - 12	9/23/2003	607
	12 - 18	9/23/2003	362
T-OCA-32-C2R	0 - 6	9/23/2003	23.5
	6 - 12	9/23/2003	21.2
	12 - 18	9/23/2003	10.3

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-32-HWL	0 - 6	9/23/2003	175
	6 - 12	9/23/2003	18.6
	12 - 18	9/23/2003	14.5
T-OCA-32-OB1R	0 - 6	9/23/2003	340
	6 - 12	9/23/2003	2220
	12 - 18	9/23/2003	31.2
T-OCA-32-OB2R	0 - 6	9/23/2003	169
	6 - 12	9/23/2003	42.7
T-OCA-33-A	0 - 6	10/8/2003	91.8
T-OCA-33-B	6 - 12	10/8/2003	161
	12 - 18	10/8/2003	11.8
T-OCA-33-C1L	0 - 6	10/8/2003	83.1
	6 - 12	10/8/2003	15.2
	12 - 18	10/8/2003	9.1
T-OCA-33-C1R	0 - 6	10/8/2003	16.9 [16.4]
	6 - 12	10/8/2003	13.5
	12 - 18	10/8/2003	9.9
T-OCA-33-C2R	0 - 6	10/8/2003	65.6
	6 - 12	10/8/2003	27.9
	12 - 18	10/8/2003	19.6
T-OCA-33-HWL	0 - 6	10/8/2003	228
	6 - 12	10/8/2003	326
	12 - 18	10/8/2003	47
T-OCA-33-OB1R	0 - 6	10/8/2003	624
	6 - 12	10/8/2003	1820
	12 - 18	10/8/2003	124
T-OCA-33-OB2R	0 - 6	10/8/2003	254
	6 - 12	10/8/2003	105
T-OCA-34-A	0 - 6	10/8/2003	99
T-OCA-34-B	6 - 12	10/8/2003	204
	12 - 18	10/8/2003	28.7
T-OCA-34-C1L	0 - 6	10/8/2003	614
	6 - 12	10/8/2003	358
	12 - 18	10/8/2003	24.1
T-OCA-34-C1R	0 - 6	10/8/2003	12.2
	6 - 12	10/8/2003	12.4
	12 - 18	10/8/2003	18.7
T-OCA-34-C2R	0 - 6	10/8/2003	50.2 [50]
	6 - 12	10/8/2003	26.6
	12 - 18	10/8/2003	25.6
T-OCA-34-HWL	0 - 6	10/8/2003	127
	6 - 12	10/8/2003	237
	12 - 18	10/8/2003	25.2
T-OCA-34-OB1R	0 - 6	10/8/2003	728
	6 - 12	10/8/2003	1850
	12 - 18	10/8/2003	516
	18 - 24	10/8/2003	31.3
	24 - 30	10/8/2003	24.2
T-OCA-34-OB2R	0 - 6	10/8/2003	244
	6 - 12	10/8/2003	86.6
	12 - 18	10/8/2003	24.1
	18 - 24	10/8/2003	22.6
	24 - 30	10/8/2003	20.6

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-35-A	0 - 6	10/8/2003	74.5
T-OCA-35-B	6 - 12	10/8/2003	262
	12 - 18	10/8/2003	19.2
T-OCA-35-C1L	0 - 6	10/8/2003	93.2 [62.5]
	6 - 12	10/8/2003	11.9
	12 - 18	10/8/2003	12.9
T-OCA-35-C1R	0 - 6	10/8/2003	17
	6 - 12	10/8/2003	22.1
	12 - 18	10/8/2003	11
T-OCA-35-C2R	0 - 6	10/8/2003	166
	6 - 12	10/8/2003	30
	12 - 18	10/8/2003	25
T-OCA-35-HWL	0 - 6	10/8/2003	50.5
	6 - 12	10/8/2003	18
	12 - 18	10/8/2003	19.8
T-OCA-35-OB1R	0 - 6	10/8/2003	252 [236]
	6 - 12	10/8/2003	2730
	12 - 18	10/8/2003	2760
	18 - 24	10/8/2003	233 [102]
	24 - 30	10/8/2003	26.1
T-OCA-35-OB2R	0 - 6	10/8/2003	117
	6 - 12	10/8/2003	173
	12 - 18	10/8/2003	136
	18 - 24	10/8/2003	28.3
T-OCA-35-OB3R	0 - 6	10/8/2003	8.4
	6 - 12	10/8/2003	49.3
	12 - 18	10/8/2003	51.9
	18 - 24	10/8/2003	12.5
T-OCA-36-A	0 - 6	10/8/2003	141
T-OCA-36-B	6 - 12	10/8/2003	30.9
	12 - 18	10/8/2003	12.5
T-OCA-36-C1L	0 - 6	10/8/2003	16.5
	6 - 12	10/8/2003	11.3
	12 - 18	10/8/2003	8.1
T-OCA-36-C1R	0 - 6	10/8/2003	62.5
	6 - 12	10/8/2003	12.1
	12 - 18	10/8/2003	17.2
T-OCA-36-C2R	0 - 6	10/8/2003	131
	6 - 12	10/8/2003	71.5
	12 - 18	10/8/2003	142
T-OCA-36-HWL	0 - 6	10/8/2003	21
	6 - 12	10/8/2003	15.5
	12 - 18	10/8/2003	15.4
T-OCA-36-OB1R	0 - 6	10/8/2003	33.6
	6 - 12	10/8/2003	187
	12 - 18	10/8/2003	132
T-OCA-37-A	0 - 6	10/8/2003	219
T-OCA-37-B	6 - 12	10/8/2003	25.6
	12 - 18	10/8/2003	13.9
T-OCA-37-C1L	0 - 6	10/8/2003	552
	6 - 12	10/8/2003	67.1
	12 - 18	10/8/2003	16.5

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-37-C1R	0 - 6	10/8/2003	36.8
	6 - 12	10/8/2003	19.7
	12 - 18	10/8/2003	15
T-OCA-37-C2L	0 - 6	10/8/2003	39.3
T-OCA-37-C2R	0 - 6	10/8/2003	37.1
	6 - 12	10/8/2003	63.9
	12 - 18	10/8/2003	307
T-OCA-37-HWL	0 - 6	10/8/2003	41.5
	6 - 12	10/8/2003	20.5
	12 - 18	10/8/2003	14.9
T-OCA-37-OB1R	0 - 6	10/8/2003	52.9
	6 - 12	10/8/2003	9.7 [12.9]
	12 - 18	10/8/2003	28.1
T-OCA-38-A	0 - 6	10/7/2003	180
T-OCA-38-B	6 - 12	10/7/2003	73.5
	12 - 18	10/7/2003	87.6
T-OCA-38-C1L	0 - 6	10/7/2003	132
	6 - 12	10/7/2003	24
	12 - 18	10/7/2003	34.1
T-OCA-38-C1R	0 - 6	10/7/2003	13.6
	6 - 12	10/7/2003	20.1
	12 - 18	10/7/2003	8.3
T-OCA-38-C2R	0 - 6	10/7/2003	161
	6 - 12	10/7/2003	76.5
	12 - 18	10/7/2003	56.3
T-OCA-38-HWL	0 - 6	10/7/2003	38.4
	6 - 12	10/7/2003	30.5
	12 - 18	10/7/2003	23.4
T-OCA-38-OB1R	0 - 6	10/7/2003	147 [169]
	6 - 12	10/7/2003	106
	12 - 18	10/7/2003	118
T-OCA-39-A	0 - 6	10/7/2003	127
T-OCA-39-B	6 - 12	10/7/2003	200
	12 - 18	10/7/2003	195
T-OCA-39-C1L	0 - 6	10/7/2003	481
	6 - 12	10/7/2003	309 [384]
	12 - 18	10/7/2003	20.7
T-OCA-39-C1R	0 - 6	10/7/2003	78.1
	6 - 12	10/7/2003	17.8
	12 - 18	10/7/2003	21.8
T-OCA-39-C2R	0 - 6	10/7/2003	195
	6 - 12	10/7/2003	61.7
	12 - 18	10/7/2003	32.3
T-OCA-39-HWL	0 - 6	10/7/2003	34
	6 - 12	10/7/2003	23.6
	12 - 18	10/7/2003	21.8
T-OCA-39-OB1R	0 - 6	10/7/2003	88.5
	6 - 12	10/7/2003	89.2
	12 - 18	10/7/2003	47.4
T-OCA-39-OB2R	0 - 6	10/7/2003	128
	6 - 12	10/7/2003	99.6
T-OCA-39-OB3R	0 - 6	10/7/2003	105 [104]
	6 - 12	10/7/2003	51.8

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-40-A	0 - 6	10/7/2003	139
T-OCA-40-B	6 - 12	10/7/2003	139 [148]
	12 - 18	10/7/2003	183
T-OCA-40-C1L	0 - 6	10/7/2003	38.8
	6 - 12	10/7/2003	12.8
	12 - 18	10/7/2003	14.3
T-OCA-40-C1R	0 - 6	10/7/2003	131
	6 - 12	10/7/2003	44.2
	12 - 18	10/7/2003	7.7
T-OCA-40-C2R	0 - 6	10/7/2003	42.6
	6 - 12	10/7/2003	23
	12 - 18	10/7/2003	67.4
T-OCA-40-HWL	0 - 6	10/7/2003	48.3
	6 - 12	10/7/2003	25.7
	12 - 18	10/7/2003	23.4
T-OCA-40-OB1R	0 - 6	10/7/2003	223
	6 - 12	10/7/2003	380
	12 - 18	10/7/2003	490
	18 - 24	10/7/2003	94.7
	24 - 30	10/7/2003	18.4
T-OCA-41-A	0 - 6	10/7/2003	236
T-OCA-41-B	6 - 12	10/7/2003	171
	12 - 18	10/7/2003	162
	18 - 24	10/7/2003	131
T-OCA-41-C1L	0 - 6	10/7/2003	28.7
	6 - 12	10/7/2003	23.3
	12 - 18	10/7/2003	16.8
T-OCA-41-C1R	0 - 6	10/7/2003	85 [109]
	6 - 12	10/7/2003	18.7
	12 - 18	10/7/2003	9
T-OCA-41-C2R	0 - 6	10/7/2003	155
	6 - 12	10/7/2003	84.9
	12 - 18	10/7/2003	24.7
T-OCA-41-HWL	0 - 6	10/7/2003	39.6
	6 - 12	10/7/2003	25.2
	12 - 18	10/7/2003	20.6
T-OCA-41-OB1R	0 - 6	10/7/2003	341
	6 - 12	10/7/2003	564
	12 - 18	10/7/2003	50.7
T-OCA-41-OB2R	0 - 6	10/7/2003	102
	6 - 12	10/7/2003	42.5
T-OCA-41-OB3R	0 - 6	10/7/2003	97.5
	6 - 12	10/7/2003	135
T-OCA-42-A	0 - 6	10/7/2003	224 [211]
T-OCA-42-B	6 - 12	10/7/2003	157
	12 - 18	10/7/2003	203
	18 - 24	10/7/2003	265 [234]
T-OCA-42-C1L	0 - 6	10/7/2003	13.4
	6 - 12	10/7/2003	10.4
	12 - 18	10/7/2003	12.1
T-OCA-42-C1R	0 - 6	10/7/2003	71.8
	6 - 12	10/7/2003	16.5
	12 - 18	10/7/2003	16.1

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-42-C2R	0 - 6	10/7/2003	104
	6 - 12	10/7/2003	63.3
	12 - 18	10/7/2003	23.4
T-OCA-42-HWL	0 - 6	10/7/2003	23.3
	6 - 12	10/7/2003	18.6
	12 - 18	10/7/2003	18.1
T-OCA-42-OB1R	0 - 6	10/7/2003	181
	6 - 12	10/7/2003	242
	12 - 18	10/7/2003	99.9
T-OCA-42-OB2R	0 - 6	10/7/2003	81.7
	6 - 12	10/7/2003	115
T-OCA-43-A	0 - 6	10/6/2003	252
T-OCA-43-B	6 - 12	10/6/2003	230
	12 - 18	10/6/2003	274
	18 - 24	10/6/2003	215
T-OCA-43-C1L	0 - 6	10/6/2003	17.9
	6 - 12	10/6/2003	13.8
	12 - 18	10/6/2003	18.8
T-OCA-43-C1R	0 - 6	10/6/2003	177
	6 - 12	10/6/2003	79.6
	12 - 18	10/6/2003	14.2
T-OCA-43-C2R	0 - 6	10/6/2003	162
	6 - 12	10/6/2003	88.1
	12 - 18	10/6/2003	81.4
T-OCA-43-HWL	0 - 6	10/6/2003	22
	6 - 12	10/6/2003	21
	12 - 18	10/6/2003	21
T-OCA-43-OB1R	0 - 6	10/6/2003	198
	6 - 12	10/6/2003	221
	12 - 18	10/6/2003	79.5
T-OCA-43-OB2R	0 - 6	10/6/2003	86.7 [102]
	6 - 12	10/6/2003	44.8
T-OCA-43-OB3R	0 - 6	10/6/2003	106
	6 - 12	10/6/2003	39.2
T-OCA-44-A	0 - 6	10/6/2003	321 [286]
T-OCA-44-B	6 - 12	10/6/2003	286
	12 - 18	10/6/2003	217
	18 - 24	10/6/2003	322
T-OCA-44-C1L	0 - 6	10/6/2003	101
	6 - 12	10/6/2003	31.3
	12 - 18	10/6/2003	16.6
T-OCA-44-C1R	0 - 6	10/6/2003	63.9
	6 - 12	10/6/2003	105
	12 - 18	10/6/2003	29.4
T-OCA-44-C2R	0 - 6	9/22/2003	523 [507]
	6 - 12	9/22/2003	809
	12 - 18	9/22/2003	73.8
T-OCA-44-HWL	0 - 6	9/22/2003	81.6
	6 - 12	9/22/2003	58.7
	12 - 18	9/22/2003	30
T-OCA-44-OB1R	0 - 6	9/22/2003	96.9
	6 - 12	9/22/2003	68.9
	12 - 18	9/22/2003	39.7

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-44-OB2R	0 - 6	9/22/2003	103 [105]
	6 - 12	9/22/2003	46.9
T-OCA-44-OB3R	0 - 6	9/22/2003	77.9
	6 - 12	9/22/2003	33.6
T-OCA-45-A	0 - 6	9/22/2003	176 [161]
T-OCA-45-B	6 - 12	9/22/2003	364
	12 - 18	9/22/2003	368
	18 - 24	9/22/2003	494 [582]
	24 - 30	9/22/2003	438
T-OCA-45-C1L	0 - 6	9/22/2003	30.7
	6 - 12	9/22/2003	10.3
	12 - 18	9/22/2003	10.7
T-OCA-45-C1R	0 - 6	9/22/2003	622
	6 - 12	9/22/2003	543
	12 - 18	9/22/2003	260
T-OCA-45-C2R	0 - 6	9/22/2003	136
	6 - 12	9/22/2003	26.3
	12 - 18	9/22/2003	23.5
T-OCA-45-HWL	0 - 6	9/22/2003	86.4
	6 - 12	9/22/2003	45.2
	12 - 18	9/22/2003	18.5
T-OCA-45-OB1R	0 - 6	9/22/2003	190
	6 - 12	9/22/2003	98.5
	12 - 18	9/22/2003	37.3
T-OCA-45-OB2R	0 - 6	9/22/2003	112
	6 - 12	9/22/2003	37.1
T-OCA-46-A	0 - 6	9/21/2003	455 [454]
T-OCA-46-B	6 - 12	9/21/2003	306
	12 - 18	9/21/2003	234
	18 - 24	9/21/2003	486
	24 - 30	9/21/2003	174
T-OCA-46-C1L	0 - 6	9/21/2003	55.6
	6 - 12	9/21/2003	42.5
	12 - 18	9/21/2003	24.8
T-OCA-46-C1R	0 - 6	9/21/2003	56.7 J
	6 - 12	9/21/2003	31.6 J
	12 - 18	9/21/2003	26.3 J
T-OCA-46-C2R	0 - 6	9/21/2003	530 J
	6 - 12	9/21/2003	309 J
	12 - 18	9/21/2003	153 J
T-OCA-46-HWL	0 - 6	9/21/2003	232
	6 - 12	9/21/2003	34.1
	12 - 18	9/21/2003	17.7
T-OCA-46-OB1R	0 - 6	9/21/2003	245 J
	6 - 12	9/21/2003	160 J
	12 - 18	9/21/2003	538 J
	18 - 24	9/21/2003	128
	24 - 30	9/21/2003	31
T-OCA-46-OB2R	0 - 6	9/21/2003	108 J
	6 - 12	9/21/2003	44.4 J
T-OCA-46-OB3R	0 - 6	9/21/2003	104 J [104 J]
	6 - 12	9/21/2003	33.2 J
T-OCA-47-A	0 - 6	9/20/2003	686 J [661 J]

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-47-B	6 - 12	9/20/2003	803 J
	12 - 18	9/20/2003	1020 J
	18 - 24	9/20/2003	178
	24 - 30	9/20/2003	124 [130]
T-OCA-47-C1L	0 - 6	9/20/2003	49.9 J
	6 - 12	9/20/2003	36.2 J
	12 - 18	9/20/2003	22.5 J
T-OCA-47-C1R	0 - 6	9/20/2003	58 J
	6 - 12	9/20/2003	53.1 J
	12 - 18	9/20/2003	33.8 J
T-OCA-47-C2L	0 - 6	9/20/2003	65.6 J
	6 - 12	9/20/2003	24.5 J
	12 - 18	9/20/2003	24 J
T-OCA-47-C2R	0 - 6	9/20/2003	258
	6 - 12	9/20/2003	253
	12 - 18	9/20/2003	60
T-OCA-47-OB1R	0 - 6	9/20/2003	144
	6 - 12	9/20/2003	109
	12 - 18	9/20/2003	532
	18 - 24	9/20/2003	65.4
	24 - 30	9/20/2003	28.1
T-OCA-47-OB2R	0 - 6	9/20/2003	88.4
	6 - 12	9/20/2003	112
	12 - 18	9/20/2003	161
T-OCA-47-OB3R	0 - 6	9/20/2003	70.2
	6 - 12	9/20/2003	34.3
T-OCA-48-A	0 - 6	10/9/2003	83.4
T-OCA-48-B	6 - 12	10/9/2003	65.9
	12 - 18	10/9/2003	880
	18 - 24	10/9/2003	816
	24 - 30	10/9/2003	23.3
T-OCA-48-C1L	0 - 6	10/9/2003	192
	6 - 12	10/9/2003	23.7
	12 - 18	10/9/2003	14.9
T-OCA-48-C1R	0 - 6	10/9/2003	23.3
	6 - 12	10/9/2003	17.4
	12 - 18	10/9/2003	19.9
T-OCA-48-C2L	0 - 6	10/9/2003	3080
	6 - 12	10/9/2003	2400
	12 - 18	10/9/2003	71.8
	24 - 30	10/9/2003	20.6
T-OCA-48-C2R	0 - 6	10/9/2003	2910 [2470]
	6 - 12	10/9/2003	275
	12 - 18	10/9/2003	24.6
T-OCA-48-OB1R	0 - 6	10/9/2003	127
	6 - 12	10/9/2003	98.3
	12 - 18	10/9/2003	45.8
T-OCA-48-OB2R	0 - 6	10/9/2003	66.1
	6 - 12	10/9/2003	130
T-OCA-49-A	0 - 6	10/9/2003	15.6
T-OCA-49-B	6 - 12	10/9/2003	15.5
	12 - 18	10/9/2003	16.1
	18 - 20	10/9/2003	14.3

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-49-C1L	0 - 6	10/9/2003	64.6
	6 - 12	10/9/2003	18.6
	12 - 18	10/9/2003	16.6
	18 - 24	10/9/2003	14.9
	24 - 30	10/9/2003	14.4
T-OCA-49-C1R	0 - 6	10/9/2003	73.5
	6 - 12	10/9/2003	19.3
	12 - 18	10/9/2003	21.7
	18 - 24	10/9/2003	16.9
	24 - 30	10/9/2003	16.7
T-OCA-49-C2L	0 - 6	10/9/2003	1290
	6 - 12	10/9/2003	2680
	12 - 18	10/9/2003	916
	18 - 24	10/9/2003	49.6
	24 - 30	10/9/2003	20.5
T-OCA-49-C2R	0 - 6	10/9/2003	8600
	6 - 12	10/9/2003	1260
	12 - 18	10/9/2003	65.2
	18 - 24	10/9/2003	69.9
	24 - 30	10/9/2003	17.9
T-OCA-49-OB1R	0 - 6	10/9/2003	40.8
	6 - 12	10/9/2003	224
	12 - 18	10/9/2003	189
T-OCA-49-OB2R	0 - 6	10/9/2003	13
	6 - 12	10/9/2003	29.2
T-OCA-50-A	0 - 6	10/15/2003	137
T-OCA-50-B	6 - 12	10/15/2003	32.4
	12 - 18	10/15/2003	24
T-OCA-50-C2L	0 - 6	10/15/2003	4450
	6 - 12	10/15/2003	121
	12 - 18	10/15/2003	50.1
T-OCA-50-C2R	0 - 6	10/15/2003	4220
	6 - 12	10/15/2003	77.5
	12 - 18	10/15/2003	45.6
T-OCA-50-OB1L	0 - 6	10/15/2003	4510
	6 - 12	10/15/2003	219
	12 - 18	10/15/2003	42
	18 - 24	10/15/2003	40.9
T-OCA-50-OB2L	0 - 6	12/10/2003	15.1 J
	6 - 12	12/10/2003	15.7 J
T-OCA-51-A	0 - 6	10/15/2003	386
T-OCA-51-B	6 - 12	10/15/2003	21.2
	12 - 18	10/15/2003	12
	18 - 24	10/15/2003	10.3
T-OCA-51-C2L	0 - 6	10/15/2003	2740
	6 - 12	10/15/2003	3250
	12 - 18	10/15/2003	113
	18 - 24	10/15/2003	20.2
T-OCA-51-C2R	0 - 6	10/15/2003	68.2
	6 - 12	10/15/2003	31.6
	12 - 18	10/15/2003	24.7
	18 - 24	10/15/2003	20.2

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-OCA-51-OB1L	0 - 6	10/15/2003	4390
	6 - 12	10/15/2003	686
	12 - 18	10/15/2003	32.4
	18 - 24	10/15/2003	36.9
T-OCA-51-OB2L	0 - 6	12/10/2003	12.7 J
	6 - 12	12/10/2003	13.7 J
T-OCA-52-OB1R	0 - 6	12/10/2003	113 J
	6 - 12	12/10/2003	57.7 J
	12 - 18	12/10/2003	27.4
T-OCA-52-OB2R	0 - 6	12/10/2003	578 J
	6 - 12	12/10/2003	925 [938]
	12 - 18	12/10/2003	322
T-OCA-52-OB3R	0 - 6	12/10/2003	28.1
	6 - 12	12/10/2003	22.8
	12 - 18	12/10/2003	15.6
T-OCA-53-OB1R	0 - 6	12/10/2003	75.8
	6 - 12	12/10/2003	408
	12 - 18	12/10/2003	66.9
T-OCA-53-OB2R	0 - 6	12/10/2003	33.3
	6 - 12	12/10/2003	39.8 [44.5]
	12 - 18	12/10/2003	19.7
T-OCA-53-OB3R	0 - 6	12/10/2003	24.4
	6 - 12	12/10/2003	22.9 [22]
	12 - 18	12/10/2003	16.8
T-SD-1-A	0 - 6	10/6/2003	364
T-SD-1-B	6 - 12	10/6/2003	28.7
	12 - 18	10/6/2003	6.6
T-SD-1-C1L	0 - 6	10/6/2003	99.1
	6 - 12	10/6/2003	12.8
T-SD-1-C1R	0 - 6	10/6/2003	20.2
	6 - 12	10/6/2003	7.8
T-SD-1-C2L	0 - 6	10/6/2003	45.7
	6 - 12	10/6/2003	259
T-SD-1-C2R	0 - 6	10/6/2003	102
	6 - 12	10/6/2003	43.8
T-SD-2-A	0 - 6	10/2/2003	4320
T-SD-2-B	6 - 12	10/2/2003	12100
	12 - 18	10/2/2003	18.8
T-SD-2-C1L	0 - 6	10/2/2003	324
	6 - 12	10/2/2003	345
T-SD-2-C1R	0 - 6	10/2/2003	9.8
	6 - 12	10/2/2003	6
T-SD-2-C2L	0 - 6	10/2/2003	2640
	6 - 12	10/2/2003	96.8
T-SD-2-C2R	0 - 6	10/2/2003	92.8
	6 - 12	10/2/2003	16
T-SD-3-A	0 - 6	10/2/2003	375 J
T-SD-3-B	6 - 8	10/2/2003	620 J
T-SD-3-C1L	0 - 6	10/2/2003	120 J
	6 - 12	10/2/2003	9.9 J
T-SD-3-C1R	0 - 6	10/2/2003	84.5 J [461 J]
	6 - 12	10/2/2003	9

SSAP Data Summary Table

Sample ID	Depth (Inches)	Date Collected	Lead (mg/kg)
T-SD-3-C2L	0 - 6	10/2/2003	114 J
	6 - 12	10/2/2003	13.3 J
T-SD-3-C2R	0 - 6	10/2/2003	48.9
	6 - 12	10/2/2003	19.9
T-SD-4-A	0 - 6	10/2/2003	1320 J
T-SD-4-B	6 - 11	10/2/2003	656 J
T-SD-4-C1L	0 - 6	10/2/2003	336 [533 J]
	6 - 12	10/2/2003	30.9 J
T-SD-4-C1R	0 - 6	10/2/2003	2390 J
	6 - 12	10/2/2003	8.1 J
T-SD-4-C2L	0 - 6	10/2/2003	1240
	6 - 12	10/2/2003	202
T-SD-4-C2R	0 - 6	10/2/2003	266 J
	6 - 12	10/2/2003	18.9 J
T-SD-5-A	0 - 6	10/2/2003	1370
T-SD-5-B	6 - 10	10/2/2003	516
T-SD-5-C1L	0 - 6	10/2/2003	1870
	6 - 12	10/2/2003	16.7
T-SD-5-C1R	0 - 6	10/2/2003	384
	6 - 12	10/2/2003	50.5
T-SD-5-C2L	0 - 6	10/6/2003	310
	6 - 12	10/6/2003	71.3
T-SD-5-C2R	0 - 6	10/6/2003	75.1
	6 - 12	10/6/2003	16.8
T-SD-6-A	0 - 6	10/2/2003	1040
T-SD-6-B	6 - 12	10/2/2003	553
	12 - 18	10/2/2003	122
	18 - 21	10/2/2003	6
T-SD-6-C1L	0 - 6	10/2/2003	188
	6 - 12	10/2/2003	16.8
T-SD-6-C1R	0 - 6	10/2/2003	1050 [1200]
	6 - 12	10/2/2003	94.7
T-SD-6-C2L	0 - 6	10/2/2003	238
	6 - 12	10/2/2003	18.3
T-SD-6-C2R	0 - 6	10/2/2003	359
	6 - 12	10/2/2003	21.4

Appendix C

Quality Assurance Review Summaries

Appendix C
Quality Assurance Review Summaries

This appendix contains quality assurance reviews of data reported for soil, sediment, groundwater, and surface water samples. Associated data are presented in tables in Appendix B.

Attachment 1

Quality Assurance Review Summary Chemical Analyses in Soil Samples

Introduction

This report documents the results of a quality assurance review of data reported for the analysis of metals, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total recoverable petroleum hydrocarbons (TRPH), and various conventional parameters conducted on soil samples. The chemical analyses were conducted by Quanterra, Inc. (North Canton, Ohio). The data reported for the chemical analyses conducted on the samples are summarized in Tables CIRSLM1, CIRSLO1, and CIRSLC1 in Appendix B.

The quality assurance review was conducted to verify that all required laboratory quality control procedures were completed and documented and that the quality of the data is sufficient to support its intended purpose. Data validation procedures and qualifier assignments were completed according to the U.S. Environmental Protection Agency's (EPA's) national functional guidelines for evaluating inorganic and organic analyses (U.S. EPA 1994a,b), as applicable. Modifications of data validation procedures were made, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (e.g., conventional analyses). Results of the quality assurance review of data reported by the laboratory are summarized in this report and Table SO-1.

Data Validation Procedures

Data validation procedures were completed according to the project-specific QAPP (PTI 1995). Data qualifiers were assigned during the quality assurance reviews when control limits were not met, in accordance with U.S. EPA (1994a,b) or quality control requirements stated in the referenced methods. During the quality assurance review, a total of 140 results were qualified as estimated (*J*) and no data were rejected.

Table SO-1. Summary of quality control checks

Quality Control Check	Status	Comment
Completeness	Acceptable	Data set 100-percent complete; no data were rejected
Holding times	Acceptable	Result for pH was qualified as estimated (*J*) because analysis completed 12 days from date of sample collection.
Analytical methods	Acceptable	
Instrument performance		
Initial and continuing calibrations	Acceptable	Control limits were met
Contract-required detection limit standards	Acceptable	Control limits were met
Initial and continuing calibration blanks	Acceptable	Control limits were met
Method blanks	Acceptable	Control limits were met
Instrument-specific quality control procedures for ICP-AES	Acceptable	Control limits were met
Interference check samples	Acceptable	Control limits were met
Serial dilutions	Acceptable	72 metals results qualified as estimated (*J*) because the control limit of 10 percent difference was not met
Instrument-specific quality control procedures for CVAA	Acceptable	Control limits were met
Accuracy (bias or recovery)		
Matrix spike samples	Acceptable	2 antimony and 8 fluoride results qualified as estimated (*J*) because the control limit of 75–125 percent recovery was not met
Laboratory control samples	Acceptable	Control limits were met
Surrogate compounds	Acceptable	33 VOC results qualified as estimated (*J*) because the control limits for the recovery of two surrogate compounds were not met
Internal standards	Acceptable	9 VOC results qualified as estimated (*J*) because the area count for one internal standard compound was below the lower control limit

Accuracy (precision)	Acceptable	26 metal results qualified as estimated because the Control limit of 35 RPD was not met
Method Reporting Limits	Acceptable	Method reporting requirements were met
Field quality control samples	Acceptable	Results discussed in *Field Quality Control Samples* section of report
Overall Assessment	**Acceptable**	**Qualifiers were added to selected results; see sections noted above**

The following laboratory deliverables were reviewed during the data validation process:

- Chain-of-custody documentation to verify completeness of the data
- Case narratives discussing analytical problems (if any) and procedures
- Sample preparation logs or laboratory summary result forms to verify analytical holding times
- Applicable instrument tuning (organic analyses only), instrument calibration and calibration blank results to assess instrument performance
- Applicable method blank, initial calibration blank, continuing calibration blank, and preparation blank results to check for laboratory contamination
- Applicable instrument-specific quality control results to assess method-specific instrument performance
- Applicable laboratory control sample (LCS), matrix spike, surrogate compound (organic analyses only), and internal standard compound (organic analyses only) results to check analytical accuracy and extraction efficiency (surrogate compounds)
- Applicable laboratory duplicate sample results to check analytical precision
- Applicable method reporting limits for all target analytes to verify that detection limit requirements were met.

In addition, results for applicable field quality control samples were evaluated to provide additional information in support of the quality assurance review. The field quality control samples included multiple sets of field replicates (see *Field Quality Control* section for details). The replicate samples were collected to assess the variability in analyte concentration in the area from which they were collected; however, these replicate field data were not used to assess laboratory precision.

Sample Set

Chemical analyses were completed for the following analytes:

- EPA target analyte list (TAL) metals (23 analytes) in 8 soil samples (7 natural samples and 1 field replicate)
- Antimony, arsenic, barium, chromium, lead, and nickel in 4 soil samples
- Lead in 3 soil samples
- EPA target compound list (TCL) VOCs and SVOCs (33 and 64 SVOCs, respectively) in 4 soil samples
- TRPH in 19 soil samples (16 natural samples and 3 field replicates)
- Fluoride in 8 soil samples (7 natural samples and 1 field replicate)
- Cation exchange capacity (CEC), pH, and total organic carbon [TOC] in 1 soil sample
- Total solids in 25 soil samples (21 natural samples and 4 field replicates).

Sample Delivery Groups

The soil samples collected were analyzed for the target analytes in 24 sample delivery groups (SDGs). The data packages for these SDGs contained all documentation and data necessary to conduct the quality assurance review. A summary of the samples for each matrix in each SDG is presented in Tables CIRSL-SDG and CIRSLO1-SDG.

Data Quality Assessment

The results of the quality control procedures used during sample analysis are discussed below. The laboratory data were evaluated in terms of completeness, holding times, instrument performance, accuracy, precision, method reporting limits, and field quality control samples. During the quality assurance review, 140 results were qualified as estimated (*J*) and no data were rejected.

Completeness

The results reported by the laboratory were 100-percent complete. No data were rejected during the quality assurance review.

Holding Times

Analytical holding time constraints and sample preservation requirements were met for all samples, with one exception. As specified by SW-846 Method 9045A (U.S. EPA 1992), the determination of pH should be completed as soon as possible upon receipt at the laboratory. The determination of pH in Sample SO1001 was completed 12 days from the date of sample collection; therefore, this result was qualified as estimated (*J*) during the quality assurance review.

Analytical Methods

The analyses for all target analytes were completed according to procedures specified by applicable U.S. EPA analytical methods, as summarized below:

Analysis	Analytical Method	Reference
TAL metals	U.S. EPA CLP SOW ILM03.0 using inductively coupled plasma-atomic emission spectroscopy (ICP-AES) and cold vapor atomic absorption (CVAA) spectrophotometry	U.S. EPA 1994c
Antimony, arsenic, barium, chromium, lead, and nickel	SW-846 Method 6010A using ICP-AES	U.S. EPA 1992
VOCs	SW-846 Method 8240A using purge and trap and gas chromatography/mass spectrometry (GC/MS)	U.S. EPA 1992
SVOCs	SW-846 Method 8270A using (GC/MS) EPA Method 418.1 using infrared spectrophotometry	U.S. EPA 1992
Total recoverable petroleum hydrocarbons	EPA Method 418.1	U.S. EPA 1983
Fluoride	EPA Method 340.2 (modified to accommodate a solid matrix) using potentiometric ion selective electrode	U.S. EPA 1983
Cation exchange capacity	SW-846 Method 9081 using cation-exchange and determination of sodium using ICP-AES	U.S. EPA 1986
pH	SW-846 Method 9045A using pH-specific electrode	U.S. EPA 1992
TOC	Standard Method 90-3	D. Van Nostrand 1963
Total solids	EPA Method 60.3 (modified to accommodate solid matrix)	U.S. EPA 1983

Instrument Performance

The performance of the analytical instruments, as documented by the laboratory, was acceptable. No changes in instrument performance that would have resulted in the degradation of data quality were indicated during any analysis sequence.

Initial and Continuing Calibrations

Initial and continuing calibrations met the criteria for acceptable performance and frequency of analysis. Initial and continuing calibrations are not required for the determination of total solids.

Contract-Required Detection Limit Standards

Contract-required detection limit standards (required for metals analyses only) met the criteria for acceptable performance and frequency of analysis.

Initial and Continuing Calibration Blanks

The initial and continuing calibration blank analyses met the criteria for acceptable performance. No target analytes were detected in any of the applicable initial and continuing calibration blank analyses at a concentration that was greater than 20 percent of the lowest sample concentration. Initial and continuing calibrations blanks are not required for the determination of fluoride, pH, TOC, and total solids.

Method Blank Analyses

No target analytes were detected in any method blank. Method blanks are not required for pH and total solids

Instrument-Specific Quality Control Procedures-Specific Quality Control Procedures

Instrument-specific quality control procedures for analyses by ICP-AES include interference check samples and serial dilution of field samples. For analyses by CVAA, quality control procedures include analysis of post-digestion spikes and may include analysis by the method of standard additions. Results for these procedures are discussed below.

Interference Check Samples for ICP-AES Analyses

All interference check sample results met the criteria for acceptable performance and frequency of analysis.

Serial Dilution of Samples for ICP-AES Analyses

All serial dilution results met the criteria for acceptable performance and frequency of analysis, with one exception. In SDG 5351152, the control limit of 10 percent difference was not met for 10 metals (aluminum, arsenic, barium, calcium, copper, iron, magnesium, manganese, potassium, and zinc). Results reported for these 10 metals in the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

Quality Control Procedures for CVAA

CVAA quality control procedures were completed as required and met appropriate control limits.

Accuracy

The accuracy of the analytical results is evaluated in the following sections in terms of analytical bias (matrix spike, LCS, surrogate compound, and internal standard recoveries) and precision (duplicate sample analyses).

Matrix Spike Recoveries

The recoveries reported by the laboratory for the applicable matrix analyses, and the frequency of analysis, met the criteria for acceptable performance (75–125 percent for metals and 50–150 percent for VOCs, SVOCs, TRPH, and conventional parameters), with seven exceptions. The matrix spike exceedances included:

- A recovery of 174 percent was reported for lead for the matrix spike duplicate in SDG 5310212. No action was taken for this exceedance because the recovery of the matrix spike was acceptable (114 percent).
- A recovery of 56 percent was reported for antimony in SDG 538123. The antimony results reported for the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.
- A recovery of 42 percent was reported for antimony in SDG 6110187. The antimony results reported for the two samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.
- Recoveries of 9.8 percent, 14 percent, 20 percent, and 41 percent were reported for the two sets of matrix spike and matrix spike duplicate analyses for fluoride associated with SDG 5341150. The fluoride results reported for the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

A summary of the applicable matrix spike recoveries is presented in Tables CIRSLM1-MS and CIRSLO1-MS (Appendix B). Only matrix spikes conducted on samples in the referenced SDGs are reported in these tables.

Laboratory Control Sample Recoveries

The recoveries reported by the laboratory for the applicable LCS analyses, and the frequency of analysis, met the criteria for acceptable performance (80–120 percent for metals and 50–150 percent for VOCs, SVOCs, TRPH, and conventional parameters).

Surrogate Compound Recoveries

The recoveries reported by the laboratory for all surrogate compounds (added to all field and quality control samples analyzed for VOCs and SVOCs) met the criteria for acceptable performance.

Precision

The results reported by the laboratory for all duplicate analyses, and the frequency of analysis, met the criteria for acceptable performance (35 relative percent difference [RPD] for metals if concentrations are greater than 5 times the CRDL or a difference of ± the CRDL if concentrations are less than 5 times the CRDL and 50 RPD for VOCs, SVOCs, TRPH, and conventional parameters) for acceptable performance, with four exceptions. The exceedances for duplicate analyses included:

- A difference of 26 percent was reported for arsenic (sample concentrations were less than 5 times the CRDL of 10 mg/kg) on the duplicate sample analysis associated with SDG 5338123. Results reported for arsenic in the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

- A difference of 29 percent was reported for cadmium (sample concentrations were less than 5 times the CRDL of 5 mg/kg) on the duplicate sample analysis associated with SDG 5338123. Results reported for cadmium in the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

- A difference of 44 percent was reported for zinc (sample concentrations were less than 5 times the CRDL of 20 mg/kg) on the duplicate sample analysis associated with SDG 5338123. Results reported for zinc in the eight samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

- A difference of 25 percent was reported for zinc (sample concentrations were less than 5 times the CRDL of 5 mg/kg) on the duplicate sample analysis associated with SDG 6110187. Results reported for chromium in the two

samples associated with this SDG were qualified as estimated (*J*) during the quality assurance review.

A summary of the applicable duplicate analyses is presented in Tables CIRSLM1-DUP and CIRSLC1-DUP. Only the duplicate analyses conducted on samples in the referenced SDGs are reported.

Internal Standard Performance

Criteria for retention time and area count were met for internal standards added to all samples analyzed for organic target analytes, with one exception. The area count for chlorobenzene-d_5 associated with the VOC analyses conducted on sample SL0404 in SDG 5324191 was below the lower control limit of –50 percent. The results reported for the target analytes (chlorobenzene, ethylbenzene, 2-hexanone, 4-methyl-2-pentanone, styrene, 1,1,2,2-tetrachloroethane, tetrachloroethylene, toluene, and total xylenes) quantified using the chlorobenzene-d_5 internal standard were qualified as estimated (*J*) during the quality assurance review.

Method Reporting Limits

Method reporting limits used by the laboratory met applicable analytical method requirements.

Field Quality Control Samples

Field quality control samples analyzed with the natural samples included multiple sets of field replicates, as discussed below.

Field Replicates

Multiple sets of field replicate samples were submitted blind to the laboratory. The field replicate samples provide information regarding variability in analyte concentration in area from which they were collected. These data are not used to assess laboratory precision; therefore, data are not qualified on the basis of results reported for these samples.

For the field replicates, data quality was assessed by evaluating the RPD of analytes detected in associated field duplicate samples. The RPDs for analytes detected in all of the associated field duplicate samples were acceptable. The field replicates are identified in Tables CIRSLM1, CIRSLO1, and CIRSLC1 with an "A" in the field replicate column.

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Attachment 2

Quality Assurance Review Summary — Chemical Analyses In Sediment Samples

Introduction

This report documents the results of a quality assurance review of data reported for the analysis of metals, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total recoverable petroleum hydrocarbons (TRPH), and various conventional parameters conducted on sediment samples. The chemical analyses were conducted by Quanterra, Inc. (North Canton, Ohio). The data reported for the chemical analyses conducted on the sediment samples are summarized in Tables CIRSDM1, CIRSDO1, and CIRSDC1 in Appendix B.

The quality assurance review was conducted to verify that all required laboratory quality control procedures were completed and documented and that the quality of the data is sufficient to support its intended purpose. Data validation procedures and qualifier assignments were completed according to the U.S. Environmental Protection Agency's (EPA's) national functional guidelines for evaluating inorganic and organic analyses (U.S. EPA 1994a,b), as applicable. Modifications of data validation procedures were made, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (e.g., conventional analyses). Results of the quality assurance review of data reported by the laboratory are summarized in this report and Table SED-1.

Data Validation Procedures

Data validation procedures were completed according to the project-specific QAPP (PTI 1995). Data qualifiers were assigned during the quality assurance reviews when control limits were not met, in accordance with U.S. EPA (1994a,b) or quality control requirements stated in the referenced methods. During the quality assurance review, a total of 593 results were qualified as estimated (*J*) and no data were rejected.

Table SED-1 Summary of quality control checks

Quality Control Check	Status	Comment
Completeness	Acceptable	Data set 100-percent complete; no data were rejected
Holding times	Acceptable	28 results for pH were qualified as estimated (*J*) because analysis completed 8 days from date of sample collection.
Analytical methods	Acceptable	
Instrument performance		
Initial and continuing calibrations	Acceptable	Control limits were met
Contract-required detection limit standards	Acceptable	Control limits were met
Initial and continuing calibration blanks	Acceptable	10 antimony results were qualified as estimated (*J*) because it was detected in the associated continuing calibration blank at a concentration >2 times the IDL
Method blanks	Acceptable	3 VOC (acetone) results qualified as estimated (*J*) because it was detected in the method blank
Instrument-specific quality control procedures for ICP-AES	Acceptable	Control limits were met
Interference check samples	Acceptable	Control limits were met
Serial dilutions	Acceptable	45 barium, and 2 chromium results qualified as estimated (*J*) because the control limit (10 percent difference) was not met
Accuracy (bias or recovery)		
Matrix spike samples	Acceptable	57 antimony, 2 barium, 2 chromium, 22 nickel, 134 lead, 192 SVOC, and 22 fluoride results qualified as estimated (*J*) because the control limits (75–125 percent recovery for metals and fluoride and 50–150 percent recovery for SVOCs) were not met
Laboratory control samples	Acceptable	Control limits were met
Surrogate compounds	Acceptable	7 VOC and 192 SVOC results qualified as estimated (*J*) because the control limits for the recovery of the surrogate compounds were not met
Internal standards	Acceptable	9 VOC results qualified as estimated (*J*) because the area count for one internal standard compound in one sample was below the lower control limit
Accuracy (precision)	Acceptable	8 chromium, 2 lead, 2 nickel results, and 31 fluoride results qualified as estimated because the control limit of 35 RPD was not met

Quality Control Check	Status	Comment
Method Reporting Limits	Acceptable	Method reporting requirements were met
Field quality control samples	Acceptable	Results discussed in *Field Quality Control Samples* section of report
Overall Assessment	**Acceptable**	**Qualifiers were added to selected results; see sections noted above**

The following laboratory deliverables were reviewed during the data validation process:

- Chain-of-custody documentation to verify completeness of the data
- Case narratives discussing analytical problems (if any) and procedures
- Sample preparation logs or laboratory summary result forms to verify analytical holding times
- Applicable instrument tuning (organic analyses only), instrument calibration and calibration blank results to assess instrument performance
- Applicable method blank, initial calibration blank, continuing calibration blank, and preparation blank results to check for laboratory contamination
- Applicable instrument-specific quality control results to assess method-specific instrument performance
- Applicable laboratory control sample (LCS), matrix spike, surrogate compound (organic analyses only), and internal standard compound (organic analyses only) results to check analytical accuracy and extraction efficiency (surrogate compounds)
- Applicable laboratory duplicate sample results to check analytical precision
- Applicable method reporting limits for all target analytes to verify that detection limit requirements were met.

In addition, results for applicable field quality control samples were evaluated to provide additional information in support of the quality assurance review. The field quality control samples included multiple sets of field replicates (see *Field Quality Control* section for details) and one equipment rinsate blank. The replicate samples were collected to assess the variability in analyte concentration in the area from which they were collected; however, these replicate field data were not used to assess laboratory precision. The equipment rinsate blank was collected to assess if contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

Sample Set

Chemical analyses were completed for the following analytes:

- Antimony in 90 sediment samples (86 natural samples and 4 field replicates); arsenic, barium, and chromium in 76 sediment samples (72 natural samples and 4 field replicates); lead in 322 sediment samples (292 natural samples and 30 field replicates), and nickel in 89 sediment samples (85 natural samples and 4 field replicates)
- EPA target compound list (TCL) VOCs (33 target analytes) in 3 sediment samples (2 natural samples and 1 field replicate)
- EPA TCL SVOCs (64 analytes) in 8 sediment samples (7 natural samples and 1 field replicate)
- PCBs (as Aroclor® mixtures) in 3 sediment samples (2 natural samples and 1 field replicate)
- TRPH in 5 sediment samples (3 natural samples and 2 field replicates)
- Fluoride in 31 sediment samples (28 natural samples and 3 field replicates)
- Cation exchange capacity (CEC) 29 sediment samples (27 natural samples and 2 field replicates)
- pH in 30 sediment samples (28 natural samples and 2 field replicates)
- Total organic carbon (TOC) in 30 sediment samples (28 natural samples and 2 field replicates)
- Total solids in 330 sediment samples (297 natural samples and 33 field replicates).

Sample Delivery Groups

The sediment samples collected were analyzed for the target analytes in 72 sample delivery groups (SDGs). The data packages for these SDGs contained all documentation and data necessary to conduct a complete quality assurance review. A summary of the samples for each matrix in each SDG is presented in Table CIRSD-SDG.

Data Quality Assessment

The results of the quality control procedures used during sample analysis are discussed below. The laboratory data were evaluated in terms of completeness, holding times, instrument performance, accuracy, precision, method reporting limits, and field quality control samples.

During the quality assurance review, 593 results were qualified as estimated (*J*) and no data were rejected.

Completeness

The results reported by the laboratory were 100-percent complete. No data were rejected during the quality assurance review.

Holding Times

Analytical holding time constraints and sample preservation requirements were met for all samples, with one exception. As specified by SW-846 Method 9045A (U.S. EPA 1992), the determination of pH should be completed as soon as possible upon receipt at the laboratory. The determination of pH in 28 samples was completed 8 days from the date of sample collection; therefore, these results were qualified as estimated (*J*) during the quality assurance review.

Analytical Methods

The analyses for all target analytes were completed according to procedures specified by applicable U.S. EPA analytical methods, as summarized below:

Analysis	Analytical Method	Reference
Antimony, arsenic, barium, chromium, lead, and nickel	SW-846 Method 6010A using ICP-AES	U.S. EPA 1992
VOCs	SW-846 Method 8240A using purge and trap and gas chromatography/mass spectrometry (GC/MS)	U.S. EPA 1992
SVOCs	SW-846 Method 8270A using (GC/MS)	U.S. EPA 1992
PCBs	SW-846 Method 8080 using gas chromatography and electron capture detection	U.S. EPA 1986
Total recoverable petroleum hydrocarbons	EPA Method 418.1 using infrared spectrophotometry	U.S. EPA 1983
Fluoride	EPA Method 340.2 (modified to accommodate a solid matrix) using potentiometric ion selective electrode	U.S. EPA 1983
Cation-exchange capacity	SW-846 Method 9081 using cation-exchange and determination of sodium using ICP-AES	U.S. EPA 1986
pH	SW-846 Method 9045A using pH-specific electrode	U.S. EPA 1992
TOC	Standard Method 90-3	D. Van Nostrand 1963
Grain size distribution	ASTM D-422	ASTM 1989
Total solids	EPA Method 160.3 (modified to accommodate	U.S. EPA 1983

Instrument Performance

The performance of the analytical instruments, as documented by the laboratory, was acceptable. No changes in instrument performance that would have resulted in the degradation of data quality were indicated during any analysis sequence.

Initial and Continuing Calibrations

Initial and continuing calibrations met the criteria for acceptable performance and frequency of analysis. Initial and continuing calibrations are not required for the determination of grain size distribution and total solids.

Contract-Required Detection Limit Standards

Contract-required detection limit standards (required for metal analyses only) met the criteria for acceptable performance and frequency of analysis.

Initial and Continuing Calibration Blanks

The initial and continuing calibration blank analyses met the criteria for acceptable performance. Target analytes were not detected in any of the applicable initial and continuing calibration blank analyses at a concentration that was greater than 20 percent of the lowest sample concentration, with one exception. In one SDG, antimony was detected in a continuing calibration blank at a concentration above the control limit (concentration greater than 2 times the IDL). A total of 10 antimony results associated with the affected continuing calibration blank were qualified as estimated (*J*) during the quality assurance review.

Initial and continuing calibrations blanks are not required for the determination of fluoride, pH, TOC, grain size distribution, and total solids.

Method Blank Analyses

No target analytes were detected in any method blank, with one exception. Acetone was detected in the method blank analysis associated with the VOC sample analyses. All results reported as detected for acetone in the three samples were qualified as estimated (*J*) during the quality assurance review. Method blanks are not required for pH, grain size distribution, and total solids.

Instrument-Specific Quality Control Procedures

Instrument-specific quality control procedures for analyses by ICP-AES include interference check samples and serial dilution of field samples. Results for these procedures are discussed below.

Interference Check Samples for ICP-AES Analyses

All interference check sample results met the criteria for acceptable performance and frequency of analysis.

Serial Dilution of Samples for ICP-AES Analyses

All serial dilution results met the criteria for acceptable performance and frequency of analysis, with three exceptions. The control limit (10 percent difference) was not met for barium (14 percent difference and 25 percent difference) and chromium (19 percent difference). Results reported for barium in 45 samples and chromium in two samples were qualified as estimated (*J*) during the quality assurance review.

Accuracy

The accuracy of the analytical results is evaluated in the following sections in terms of analytical bias (matrix spike, LCS, surrogate compound, and internal standard recoveries) and precision (duplicate sample analyses).

Matrix Spike Recoveries

The recoveries reported by the laboratory for the applicable matrix analyses, and the frequency of analysis, met the criteria (75–125 percent for metals and 50–150 percent for VOCs, SVOCs, PCBs, TRPH, and conventional parameters) for acceptable performance, with following exceptions:

- Recoveries of 50 percent, 47 percent, 34 percent, 34 percent, 56 percent, 40 percent, and 41 percent were reported for antimony in five SDGs. A total of 57 results reported for antimony in the samples associated with these exceedances were qualified as estimated (*J*) during the quality assurance review.
- Recoveries of 74 percent and 67 percent were reported for barium and chromium in one SDG. A total of 2 results reported for barium and 2 results reported for chromium in the samples associated with these exceedances were qualified as estimated (*J*) during the quality assurance review.
- Recoveries of 73 percent, 71 percent, and 66 percent were reported for nickel in three SDGs. A total of 22 results reported for nickel in the samples associated with these exceedances were qualified as estimated (*J*) during the quality assurance review.

- Recoveries of 74 percent, 147 percent, 141 percent, 73 percent, 174 percent, 128 percent, and 64 percent were reported for lead in six SDGs. A total of 134 results reported for lead in the samples associated with these exceedances were qualified as estimated (*J*) during the quality assurance review.

- No matrix spike recoveries were reported for the SVOC analyses in one SDG (eight samples). These recoveries were not reported because the concentrations of the analytes used in the spiking solution were diluted out in order to complete the analysis of the samples. Since no matrix spike data was reported, a total of 192 SVOC results in the eight affected samples were qualified as estimated (*J*) during the quality assurance review.

- Recoveries of 30 percent and 41 percent were reported for fluoride in one SDG. A total of 22 results reported for fluoride in the samples associated with these exceedances were qualified as estimated (*J*) during the quality assurance review.

A summary of the applicable matrix spike recoveries is presented in Tables CIRSDM1-MS, CIRSDO1-MS, and CIRSDC1-MS (Appendix B).

Laboratory Control Sample Recoveries

The recoveries reported by the laboratory for the applicable LCS analyses, and the frequency of analysis, met the criteria for acceptable performance (typically 80–120 percent for metals and 50–150 percent for VOCs, SVOCs, PCBs, TRPH, and conventional parameters).

Surrogate Compound Recoveries

The recoveries reported by the laboratory for surrogate compounds (added to all field and quality control samples analyzed for VOCs, SVOCs, and PCBs) met the criteria for acceptable performance, with the following exceptions:

- Surrogate recoveries were not reported for the SVOC analyses in one SDG. No recoveries were reported because the concentrations of the analytes used in the surrogate compound spiking solution were diluted out in order to complete sample analysis. Since no surrogate recovery data was reported, a total of 192 SVOC results in the eight affected samples were qualified as estimated (*J*) during the quality assurance review.

- The surrogate recovery for toluene-d_8 in three samples analyzed for VOCs was above the upper control limit for acceptable recovery. A total of seven VOC results reported as detected in the affected samples were qualified as estimated (*J*) during the quality assurance review. VOC results that were reported as undetected did not require qualification.

Precision

The results reported by the laboratory for all duplicate analyses, and the frequency of analysis, met the criteria (35 relative percent difference [RPD] for metals if concentrations are greater than 5 times the CRDL or a percent difference of ± the CRDL if concentrations are greater than 5 times the CRDL and 50 RPD for VOCs, SVOCs, PCBs, TRPH, and conventional parameters) for acceptable performance, with four exceptions. The exceedances to duplicate analyses included:

- A difference of 31 percent was reported for chromium in one SDG (sample concentrations were less than 5 times the CRDL of 5 mg/kg). Since the control limit of ± the CRDL was exceeded, a total of 8 results reported for chromium in the associated samples were qualified as estimated (*J*) during the quality assurance review.
- RPDs of 36 percent, 61 percent, and 35 percent were reported for lead in three SDGs. A total of 42 results reported for lead in the associated samples were qualified as estimated (*J*) during the quality assurance review.
- The CRDL control limit was exceeded for nickel in one SDG. A total of 2 results reported for nickel in the associated samples were qualified as estimated (*J*) during the quality assurance review
- RPDs of 170 percent and 72 percent were reported for fluoride in two SDGs. All 31 results reported for fluoride were qualified as estimated (*J*) during the quality assurance review.

A summary of the applicable duplicate analyses is presented in Tables CIRSDM1-DUP and CIRSDC1-DUP. Only the duplicate analyses conducted on samples in the referenced SDGs are reported.

Internal Standard Performance

Criteria for retention time and area count were met for internal standards added to all samples analyzed for organic target analytes, with one exception. The area count for chlorobenzene-d_5 associated with the VOC analyses conducted sample SD0504 was below the lower control limit of –50 percent. The results reported for the target analytes (chlorobenzene, ethylbenzene, 2-hexanone, 4-methyl-2-pentanone, styrene, 1,1,2,2-tetrachloroethane, tetrachloroethylene, toluene, and total xylenes) quantified using the chlorobenzene-d_5 internal standard were qualified as estimated (*J*) during the quality assurance review.

Method Reporting Limits

Method reporting limits used by the laboratory met applicable analytical method requirements.

Field Quality Control Samples

Field quality control samples analyzed with the natural samples included multiple sets of field replicates and one equipment rinsate blank. The results for the field quality control samples are discussed in the following sections.

Field Replicates

Multiple sets of field replicate samples were submitted blind to the laboratory. The field replicate samples provide information regarding variability in analyte concentration in area from which they were collected. These data are not used to assess laboratory precision; therefore, data are not qualified on the basis of results reported for these samples.

For the field replicates, data quality was assessed by evaluating the RPD of analytes detected in associated field duplicate samples. The RPDs for analytes detected in all of the associated field duplicate samples were acceptable. The field replicates are identified with an "A" in the field replicate column in Tables CIRSDM1, CIRSDO1, and CIRSDC1.

Equipment Rinsate Blank

One equipment rinsate blank was submitted blind to the laboratory and analyzed for lead, which was not detected in this sample. The equipment rinsate blank was collected to assess if contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

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Attachment 3

Quality Assurance Review Summary — Chemical Analyses In Groundwater Samples

Introduction

This report documents the results of a quality assurance review of data reported for the analysis of metals (total and dissolved antimony, arsenic, barium, chromium, lead, and nickel), fluoride, total dissolved solids (TDS), and total suspended solids (TSS) conducted on groundwater samples. The chemical analyses were conducted by Quanterra, Inc. (North Canton, Ohio). The data reported for the chemical analyses conducted on the groundwater samples are summarized in Tables CIRGWM1 and CIRGWC1 in Appendix B.

The quality assurance review was conducted to verify that all required laboratory quality control procedures were completed and documented and that the quality of the data is sufficient to support its intended purpose. Data validation procedures and qualifier assignments were completed according to the U.S. Environmental Protection Agency's (EPA's) national functional guidelines for evaluating inorganic analyses (U.S. EPA 1994), as applicable. Modifications of data validation procedures were made, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (i.e., conventional analyses). Results of the quality assurance review of data reported by the laboratory are summarized in this report and Table GW-1.

Data Validation Procedures

Data validation procedures were completed according to the project-specific quality assurance project plan (QAPP) (PTI 1995). Data qualifiers were assigned during the quality assurance reviews when control limits were not met, in accordance with U.S. EPA (1994) or quality control requirements stated in the referenced methods. During the quality assurance review, 34 results were qualified as estimated (*J*) and 8 results were restated as undetected (a *U* qualifier was assigned to the results reported by the laboratory). No data were rejected.

Table GW-1. Summary of quality control checks

Quality Control Check	Status	Comment
Completeness	Acceptable	Data set 100-percent complete; no data were rejected
Holding times	Acceptable	Holding time constraints were met
Analytical methods	Acceptable	
Instrument performance		
Initial and continuing calibrations	Acceptable	10 arsenic results were qualified as estimated (*J*) because the control limit of 90–110 percent recovery was not met for continuing calibration verification was not met
Contract-required detection limit standards	Acceptable	Control limits were met
Initial and continuing calibration blanks	Acceptable	Control limits were met
Method blanks	Acceptable	Control limits were met
Instrument-specific quality control procedures for ICP	Acceptable	Control limits were met
Interference check samples	Acceptable	Control limits were met
Serial dilutions	Acceptable	Control limits were met
Instrument-specific quality control procedures for GFAA	Acceptable	8 arsenic results were qualified as estimated (*J*) because the 85–115 percent recovery control limit for post-digestion spikes was not met
Accuracy (bias or recovery)		
Matrix spike samples	Acceptable	10 arsenic results were qualified as estimated (*J*) because the control limit of 80–120 percent recovery was not met
Laboratory control samples	Acceptable	Control limits were met
Accuracy (precision)	Acceptable	4 arsenic results were qualified as estimated because the control limit of 20 RPD was not met
Method Reporting Limits	Acceptable	Method reporting requirements were met
Field quality control samples	Acceptable	Results discussed in *Field Quality Control Samples* section of report; 8 arsenic results were restated as undetected
Overall Assessment	**Acceptable**	**Qualifiers were added to selected results; see sections noted above**

Note: GFAA - graphite furnace atomic absorption spectrometry

ICP - inductively coupled plasma-atomic emissions spectrometry

RPD - relative percent difference

The following laboratory deliverables were reviewed during the data validation process:

- Chain-of-custody documentation to verify completeness of the data
- Case narratives discussing analytical problems (if any) and procedures
- Sample preparation logs or laboratory summary result forms to verify analytical holding times
- Applicable instrument calibration and calibration blank results to assess instrument performance
- Applicable method blank, initial calibration blank, continuing calibration blank, and preparation blank results to check for laboratory contamination
- Applicable instrument-specific quality control results to assess method-specific instrument performance
- Applicable laboratory control sample (LCS) and matrix spike results to check analytical accuracy
- Applicable laboratory duplicate sample results to check analytical precision
- Applicable method reporting limits for all target analytes to verify that detection limit requirements were met.

In addition, results for applicable field quality control samples were evaluated to provide additional information in support of the quality assurance review. The field quality control samples included five sets of field replicates, four field blanks, and five equipment rinsate blanks. The replicate samples were collected to assess the variability in analyte concentration in the area from which they were collected. The field blanks were collected to assess whether contaminants may have been introduced due to contaminated sample containers or other external sources (e.g., dust in the air). The equipment rinsate blanks were collected to assess whether contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

Sample Set

Chemical analyses were completed on 20 groundwater samples (15 natural samples and 5 field replicates), 4 field blanks, and 5 equipment rinsate blanks. Analyses were completed for the following chemicals:

- Total antimony, arsenic, barium, chromium, lead, and nickel in 20 groundwater samples, 4 field blanks, and 5 equipment rinsate blanks
- Dissolved antimony, arsenic, barium, chromium, lead, and nickel in 20 groundwater samples and 1 equipment rinsate blank

- Fluoride in 4 groundwater samples
- TSS in 4 groundwater samples.

Sample Delivery Groups

The surface water samples collected were analyzed for the target analytes in five sample delivery groups (SDGs). The data packages for these SDGs contained all documentation and data necessary to conduct the quality assurance review. A summary of the samples for each matrix in each SDG is presented in Table CIRGW-SDG.

Data Quality Assessment

The results of the quality control procedures used during sample analysis are discussed below. The laboratory data were evaluated in terms of completeness, holding times, instrument performance, accuracy, precision, method reporting limits, and field quality control samples. During the quality assurance review, 34 results were qualified as estimated (*J*) and 8 results were restated as undetected (a *U* qualifier as assigned to the results reported by the laboratory). No data were rejected.

Completeness

The results reported by the laboratory were 100-percent complete. No data were rejected during the quality assurance review.

Holding Times

All analytical holding time constraints and sample preservation requirements were met for all samples.

Analytical Methods

The analyses for all target analytes were completed according to procedures specified by applicable U.S. EPA analytical methods, as summarized below:

Analysis	Analytical Method	Reference
Arsenic (total and dissolved fractions)	SW-846 Method 7060A	U.S. EPA 1986
Antimony, barium, chromium, lead, and nickel (total and dissolved fractions)	SW-846 Method 6010A	U.S. EPA 1992
Fluoride	EPA Method 340.2	U.S. EPA 1983
TDS	EPA Method 160.1	U.S. EPA 1983
TSS	EPA Method 160.2	U.S. EPA 1983

Note: EPA - U.S. Environmental Protection Agency

TDS - total dissolved solids

TSS - total suspended solids

Instrument Performance

The performance of the analytical instruments, as documented by the laboratory, was acceptable. No changes in instrument performance that would have resulted in the degradation of data quality were indicated during any analysis sequence.

Initial and Continuing Calibrations

Initial and continuing calibrations generally met the criteria for acceptable performance and frequency of analysis. Results for all initial calibrations met control limits. A total of four dissolved arsenic results (SDG A0GW0019M) and six total arsenic results (SDG A0GW0019M) were qualified as estimated (*J*) because the control limit of 90–110 percent recovery was not met for continuing calibration verification. Initial and continuing calibrations are not required for the determination of TDS and TSS.

Contract-Required Detection Limit Standards

Contract-required detection limit standards (required for metals analyses only) met the criteria for acceptable performance and frequency of analysis.

Initial and Continuing Calibration Blanks

The initial and continuing calibration blank analyses met the criteria for acceptable performance. No target analytes were detected in any of the applicable initial and continuing calibration blank analyses at a concentration that was greater than 20 percent of the lowest sample concentration. Initial and continuing calibrations blanks are not required for the determination of TDS and TSS.

Method Blank Analyses

No target analytes were detected in any method blank.

Instrument-Specific Quality Control Procedures

Instrument-specific quality control procedures for analyses by ICP include interference check samples and serial dilution of field samples. For analyses by GFAA, quality control procedures include analysis of post-digestion spikes and may include analysis by the method of standard additions. Results for these procedures are discussed below.

Interference Check Samples for ICP Analyses

All interference check sample results met the criteria for acceptable performance and frequency of analysis.

Serial Dilution of Samples for ICP Analyses

All serial dilution results met the criteria for acceptable performance and frequency of analysis.

Quality Control Procedures for GFAA

GFAA quality control procedures were completed as required and met appropriate control limits, with eight exceptions. Three dissolved arsenic results (SDG AOGW0001M), one total arsenic results (SDG A0GW0019M), and four total arsenic results (SDG A0GW0025M) were qualified as estimated (*J*), because the 85–115 percent recovery control limit for post-digestion spikes was not met.

Accuracy

The accuracy of the analytical results is evaluated in the following sections in terms of analytical bias (matrix spike and LCS recoveries) and precision (duplicate sample analyses).

Matrix Spike Recoveries

The recoveries reported by the laboratory for the applicable matrix analyses, and the frequency of analysis, met the criteria for acceptable performance (80–120 percent for metals and fluoride), with two exceptions. In SDG A00GW0001M, a recovery of 72 percent was reported for dissolved arsenic. This recovery is below the lower control limit; therefore, the four dissolved arsenic results reported for this SDG were qualified as estimated (*J*). In SDG A00GW0019M, a recovery of 71 percent was reported for total arsenic. This recovery is below the lower control limit; therefore, the six total arsenic results reported for this SDG were qualified as estimated (*J*). Matrix spike analyses are not conducted for TDS and TSS.

A summary of the applicable matrix spike recoveries is presented in Tables CIRGWM1-MS and CIRGWC1-MS. Only the matrix spikes conducted on samples in the referenced SDGs are reported.

Laboratory Control Sample Recoveries

The recoveries reported by the laboratory for the applicable LCS analyses, and the frequency of analysis, met the criteria for acceptable performance (80–120 percent recovery).

Precision

The results reported by the laboratory for all duplicate analyses, and the frequency of analysis, met the criteria for acceptable performance (20 relative percent difference [RPD]), with two exceptions. An RPD of 32 was reported for dissolved arsenic in SDG A0GW0013M. The four dissolved arsenic results reported for the samples associated with this SDG were qualified as estimated (*J*). In SDG A0GW0007M, an RPD of 25 was reported for total arsenic. The six total arsenic results reported for the samples associated with this SDG were qualified as estimated (*J*).

A summary of the applicable duplicate analyses is presented in Table CIRSWM1-DUP. Only the duplicate analyses conducted on samples in the referenced SDGs are reported.

Method Reporting Limits

Method reporting limits used by the laboratory met applicable analytical method requirements.

Field Quality Control Samples

Field quality control samples analyzed with the natural samples included five sets of field replicates, four field blanks, and five equipment rinsate blanks. The results for the field quality control samples are discussed in the following sections.

Field Replicates

Five sets of field replicate samples were submitted blind to the laboratory. Complete details of these samples are presented in the main report. The field replicate samples provide information regarding variability in analyte concentration in the area from which they were collected.

For the field replicates, data quality was assessed by evaluating the RPD of analytes detected in associated field duplicate samples. The RPDs for analytes detected in all of the associated field duplicate samples were acceptable. A summary of the field replicate results is presented in Table CIRGWM1 (Appendix B). The field replicates are identified with an "A" in the field replicate column.

Field Blanks and Equipment Rinsate Blanks

Four field blanks and five equipment rinsate blanks were submitted blind to the laboratory and analyzed for total antimony, arsenic, barium, chromium, lead, and nickel. Also, one equipment rinsate blank (SDG A0GW0025M) was analyzed for dissolved antimony, arsenic, barium, chromium, lead, and nickel and fluoride. The field blanks were collected to assess whether contaminants may have been introduced due to contaminated sample containers or other external factors (e.g., dust in the air). The equipment rinsate blanks were collected to assess whether contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

Target analytes were not detected in any field blank or equipment rinsate blank, with two exceptions. Dissolved arsenic and total arsenic were detected in the equipment rinsate blank associated with SDG A0GW0025M. The results reported for dissolved arsenic and total arsenic for the four samples in this SDG were restated as undetected (a *U* qualifier was assigned to the results reported as detected by the laboratory). These results were restated as undetected because the concentration of arsenic detected in these samples was less than the control limit of 5 times the concentration found in the blank. The data reported for the field blanks and the equipment rinsate blanks are summarized in Table CIRGWM1.

References

PTI. 1995. Remedial investigation and feasibility study work plan for the Thomson Consumer Electronics, Inc., Circleville, Facility. PTI Environmental Services, Lake Oswego, OR.

U.S. EPA. 1983. Methods for chemical analysis of water and wastes. EPA 600/4-79-020. U.S. Environmental Protection Agency Environmental Monitoring and Support Laboratory, Cincinnati, OH.

U.S. EPA. 1986. Test methods for evaluating solid waste – physical/chemical methods (SW-846). Third Edition. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1992. Test methods for evaluating solid waste – physical/chemical methods (SW-846). Final Update I, July 1992. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1994. USEPA contract laboratory program national functional guidelines for inorganic data review. EPA 540/R-94/013. February 1994. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, DC.

Attachment 4

Quality Assurance Review Summary — Chemical Analyses of Surface Water Samples

Introduction

This report documents the results of a quality assurance review of data reported for the analysis of lead (total and dissolved fractions), hardness, and total suspended solids (TSS) conducted on surface water samples. The analyses were conducted by Quanterra, Inc. (North Canton, Ohio). The data reported for the chemical analyses conducted on the surface water samples are summarized in Tables CIRSWM1 and CIRSWC1 in Appendix B.

The quality assurance review was conducted to verify that all required laboratory quality control procedures were completed and documented and that the quality of the data is sufficient to support its intended purpose. Data validation procedures and qualifier assignments were completed according to the U.S. Environmental Protection Agency's (EPA's) national functional guidelines for evaluating inorganic analyses (U.S. EPA 1994), as applicable. Modifications of data validation procedures were made, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (i.e., conventional analyses). Results of the quality assurance review of data reported by the laboratory are summarized in this report and Table SW-1.

Data Validation Procedures

Data validation procedures were completed according to U.S. EPA (1995) and the project-specific quality assurance project plan (QAPP) (PTI 1995). Data qualifiers were assigned during the quality assurance reviews when control limits were not met, in accordance with U.S. EPA (1994) or quality control requirements stated in the methods. No data were qualified as estimated or were rejected during the quality assurance review.

Table SW-1. Summary of quality control checks

Quality Control Check	Status	Comment
Completeness	Acceptable	Data set 100-percent complete; no data were rejected
Holding times	Acceptable	Holding time constraints were met
Analytical methods	Acceptable	
Instrument performance		
Initial and continuing calibrations	Acceptable	Control limits were met
Contract-required detection limit standards	Acceptable	Control limits were met
Initial and continuing calibration blanks	Acceptable	Control limits were met
Method blanks	Acceptable	Control limits were met
Instrument-specific quality control procedures for ICP	Acceptable	Control limits were met
Interference check samples	Acceptable	Control limits were met
Serial dilutions	Acceptable	Control limits were met
Accuracy (bias or recovery)		
Matrix spike samples	Acceptable	Control limits were met
Laboratory control samples	Acceptable	Control limits were met
Accuracy (precision)	Acceptable	Control limits were met
Method Reporting Limits	Acceptable	Method reporting requirements were met
Field quality control samples	Acceptable	Results discussed in Field Quality Control Samples section of report
Overall Assessment	**Acceptable**	**No results qualified during validation**

Note: ICP - inductively coupled plasma-atomic emissions spectrometry

The following laboratory deliverables were reviewed during the data validation process:

- Chain-of-custody documentation to verify completeness of the data
- Case narratives discussing analytical problems (if any) and procedures
- Sample preparation logs or laboratory summary result forms to verify analytical holding times
- Applicable instrument calibration and calibration blank results to assess instrument performance

- Applicable method blank, initial calibration blank, continuing calibration blank, and preparation blank results to check for laboratory contamination
- Applicable instrument-specific quality control results to assess method-specific instrument performance
- Applicable laboratory control sample (LCS) and matrix spike results to check analytical accuracy
- Applicable laboratory duplicate sample results to check analytical precision
- Applicable method reporting limits for all target analytes to verify that detection limit requirements were met.

In addition, results for applicable field quality control samples were evaluated to provide additional information in support of the quality assurance review. The field quality control samples included two sets of field replicates, two field blanks, and two equipment rinsate blanks. The replicate samples were collected to assess the variability in analyte concentration in the area from which they were collected; however, these replicate field data were not used to assess laboratory precision. The field blanks were collected to assess whether contaminants may have been introduced due to contaminated sample containers or other external sources (e.g., dust in the air). The equipment rinsate blanks were collected to assess whether contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

Sample Set

Chemical analyses were completed on ten surface water samples (eight natural samples and two field replicates), two field blanks, and two equipment rinsate blanks. Analyses were completed for the following chemicals:

- Total lead in ten surface water samples, two field blanks, and two equipment rinsate blanks
- Dissolved lead in 10 surface water samples
- Hardness in ten surface water samples
- TSS in four surface water samples.

Sample Delivery Groups

The surface water samples collected were analyzed for the target analytes in five sample delivery groups (SDGs). Two SDGs included total lead and dissolved lead data, two SDGs included hardness data, and one SDG included TSS data. The data packages for these SDGs contained all documentation and data necessary to conduct the quality assurance review. A summary of the samples for each matrix in each SDG is presented in Table CIRSW-SDG.

Data Quality Assessment

The results of the quality control procedures used during sample analysis are discussed below. The laboratory data were evaluated in terms of completeness, holding times, instrument performance, accuracy, precision, method reporting limits, and field quality control samples. No data were qualified as estimated or were rejected during the quality assurance review.

Completeness

The results reported by the laboratory were 100-percent complete. No data were rejected during the quality assurance review. No results were reported for TSS in six surface water samples (Samples SW0001, SW0002, SW0003, SW0005, SW0006, and SW0007) because no unpreserved sample containers were provided to complete this analysis.

Holding Times

All analytical holding time constraints and sample preservation requirements were met for all samples.

Analytical Methods

The analyses for all target analytes were completed according to procedures specified by applicable EPA analytical methods, as summarized below:

Analysis	Analytical Method	Reference
Lead (total and dissolved fractions)	SW-846 Method 6010A	U.S. EPA 1992
Hardness	EPA Method 130.2	U.S. EPA 1983
Total suspended solids	EPA Method 160.2	U.S. EPA 1983

Instrument Performance

The performance of the analytical instruments, as documented by the laboratory, was acceptable. No changes in instrument performance that would have resulted in the degradation of data quality were indicated during any analysis sequence.

Initial and Continuing Calibrations

Initial and continuing calibrations for the determination of total lead and dissolved lead met the criteria for acceptable performance and frequency of analysis. Initial and continuing calibrations are not required for the determination of hardness and TSS.

Contract-Required Detection Limit Standards

Contract-required detection limit standards (required for lead analyses only) met the criteria for acceptable performance and frequency of analysis.

Initial and Continuing Calibration Blanks

The initial and continuing calibration blank analyses met the criteria for acceptable performance. No target analytes were detected in any of the applicable initial and continuing calibration blank analyses at a concentration that was greater than 20 percent of the lowest sample concentration. Initial and continuing calibration blanks are not required for the determination of TSS.

Method Blank Analyses

No target analytes were detected in any method blank.

Instrument-Specific Quality Control Procedures-Specific Quality Control Procedures

Instrument-specific quality control procedures for analyses by inductively coupled plasma-atomic emissions spectrometry (ICP) include interference check samples and serial dilution of field samples. Results for these procedures are discussed below.

Interference Check Samples

All interference check sample results met the criteria for acceptable performance and frequency of analysis.

Serial Dilution of Field Samples

All serial dilution results met the criteria for acceptable performance and frequency of analysis.

Accuracy

The accuracy of the analytical results is evaluated in the following sections in terms of analytical bias (matrix spike and LCS recoveries) and precision (duplicate sample analyses).

Matrix Spike Recoveries

The recoveries reported by the laboratory for the applicable matrix spike analyses, and the frequency of analysis, met the criteria for acceptable performance (80–120 percent for lead and hardness). Matrix spike analyses are not conducted for TSS. A summary of the applicable matrix spike recoveries is presented in Tables CIRSWM1-MS and CIRSWC1-MS.

Laboratory Control Sample Recoveries

The recoveries reported by the laboratory for the applicable LCS analyses, and the frequency of analysis, met the criteria for acceptable performance (80–120 percent recovery).

Precision

The results reported by the laboratory for all duplicate analyses, and the frequency of analysis, met the criteria for acceptable performance (20 relative percent difference [RPD] for lead, hardness, and TSS). A summary of the duplicate analyses is presented in Tables CIRSWM1-DUP and CIRSWC1-DUP.

Method Reporting Limits

Method reporting limits used by the laboratory met applicable analytical method requirements.

Field Quality Control Samples

Field quality control samples analyzed with the natural samples included two sets of field replicates, two field blanks, and two equipment rinsate blanks. The results for the field quality control samples are discussed in the following sections.

Field Replicates

Two sets of field replicate samples were submitted blind to the laboratory. The field duplicates are identified in Tables CIRSWM1 and CIRSSWC1 with an "A" in the field replicate column. The field replicate samples provide information regarding variability in analyte concentration in the area from which they were collected. These data are not used to assess laboratory precision; therefore, data are not qualified on the basis of results reported for these samples.

For the field replicates, data quality was assessed by evaluating the RPD of analytes detected in associated field duplicate samples. The RPDs for analytes detected in all of the associated field duplicate samples were acceptable.

Field Blanks and Equipment Rinsate Blanks

Two field blanks and two equipment rinsate blanks were submitted blind to the laboratory and analyzed for total lead. The field blanks were collected to assess whether contaminants may have been introduced due to contaminated sample containers or other external sources (e.g., dust in the air). The equipment rinsate blanks were collected to assess whether contaminants may have been introduced during sample collection due to incomplete decontamination of the sampling equipment between sampling locations.

Total lead was not detected in any of these blanks. The data reported for the field blanks and the equipment rinsate blanks are summarized in Table CIRSWM1 (Appendix B).

References

PTI. 1995. Remedial investigation and feasibility study work plan for the Thomson Consumer Electronics, Inc., Circleville, Facility. PTI Environmental Services, Lake Oswego, OR.

U.S. EPA. 1983. Methods for chemical analysis of water and wastes. EPA 600/4-79-020. U.S. Environmental Protection Agency Environmental Monitoring and Support Laboratory, Cincinnati, OH.

U.S. EPA. 1992. Test methods for evaluating solid waste – physical/chemical methods (SW-846). Final Update I, July 1992. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1994. USEPA Contract Laboratory Program national functional guidelines for inorganic data review. EPA 540/R-94/013. February 1994. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, DC.

Attachment 5

QUALITY ASSURANCE REVIEW
SUMMARY FOR

THOMSON FACILITY
SUPPLEMENTAL SOUTH DITCH AND
OFFSITE CREEK AREA SAMPLING
CIRCLEVILLE, OHIO

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

INTRODUCTION

This report documents the results for a quality assurance (QA) review of data reported for the analysis of lead in sediment/soil samples collected in accordance with the South Ditch and Offsite Creek Area Supplemental Sampling Plan (SSAP) for the Thomson facility in Circleville, Ohio. The analyses were conducted by Accutest Laboratories of Dayton, New Jersey.

Data validation procedures and qualifier assignments were completed by Blasland, Bouck & Lee, Inc. (BBL) according to U.S. Environmental Protection Agency's (USEPA's) national functional guidelines for evaluating inorganic analyses (USEPA, 1994), using Region V guidance. Data were analyzed according to USEPA SW-846 method 6010B.

DATA VALIDATION PROCEDURES

Data validation procedures were completed according to the project specified quality assurance project plan (QAPP) (BBL, 2002). Data qualifiers were assigned during the QA reviews when criteria were not met, in accordance with USEPA guidelines or quality control requirements stated in reference methods. During the QA review, a total of 199 results were qualified as estimated (J) and no data were rejected.

The following laboratory deliverables were reviewed during the validation process:

- data completeness and deliverables;
- raw data;
- holding times;
- Form I (final data);
- calibrations;
- contract required detection limit (CRDL) standards;
- blanks;
- inductively coupled plasma (ICP) interference check sample;
- matrix spikes;
- laboratory duplicates;
- field duplicates;
- laboratory control samples;
- ICP serial dilutions;
- verification of instrumental parameters; and
- percent solids.

SAMPLE SET

Data validation was completed for the following analytes:

- lead in 291 sediment/soil samples;
- lead in 17 duplicate samples; and
- lead in 15 rinse blanks.

SAMPLE DELIVERY GROUPS (SDG)

The sediment/soil samples collected during the SSAP activities were analyzed for lead in a total of 29 SDGs. Of those, 4 SDGs were selected for the data validation process. These 4 SDGs comprised 28% of the total analytical data. The data packages for these SDGs contained all documentation and data necessary to conduct the QA review.

DATA QUALITY ASSESSMENT

The results of the quality control procedures used during sample analysis are discussed below.

Holding Times

All samples were analyzed within the specified holding times.

Blank Contamination

Lead was detected in several of the calibration blanks. Since no samples were associated with the blanks, no data have been qualified based on the blank content. No analytes were detected in the method or rinse blanks.

Calibrations

All initial and continuing calibrations were within control limits.

Contract Required Detection Limit (CRDL) Standards

All CRDL standard recoveries were within the acceptable limits.

ICP Interference Control Sample (ICS)

All ICS recoveries were acceptable.

Matrix Spike (MS)

The MS recoveries for lead were above the MS control limits in three sets. All associated positive data for lead have been qualified as estimated based on these deviations. The MS recoveries were below control limits in two sets and below 30% in one set. Since all associated samples were positive for lead, data have been qualified as estimated based on the deviations.

Laboratory Duplicate

The relative percent difference (RPD) for lead was above control limits in one set. Since associated samples were non-detect for lead, no data have been qualified based on the deviation. All other laboratory duplicate RPD results were within control limits.

Field Duplicate

Results for duplicate samples are summarized below:

Sample ID / Duplicate ID	SDG	Analyte	Sample Result	Duplicate Result	RPD
T-OCA-47-A-0-6 / DUP-1	N48824	lead	686	661	3.7%
T-OCA-46-A-0-6 / DUP-3	N48824	lead	455	454	0.2%
T-OCA-46-OB3R-0-6 / DUP-5	N48824	lead	104	104	0%
T-OCA-8-C1L-0-6 / DUP-30	N49903	lead	26.9	27.4	1.8%
T-OCA-7-OB1R-0-6 / DUP-32	N49903	lead	16.8	26.1	43.3%
T-SD-6-C1R-0-6 / DUP-34	N49903	lead	1050	1200	13.3%
T-SD-4-C1L-0-6 / DUP-35	N49903	lead	336	533	45.3%
T-SD-3-C1R-0-6 / DUP-36	N49903	lead	84.5	461	138.0%
T-OCA-26-OB1R-0-6 / DUP-67	N50821	lead	1030	1200	15.2%
T-OCA-25-C1L-6-12 / DUP-69	N50821	lead	12.8	33.7	89.9%
T-OCA-24-C2R-0-6 / DUP-71	N50821	lead	38.0	35.8	5.9%
C-OCA-15-A-0-6 / DUP-73	N50821	lead	1950	1290	40.7%
C-OCA-19-B-6-12 / DUP-74	N50821	lead	12800	12100	5.6%
T-OCA-18-OB1L-0-6 / DUP-75	N50821	lead	3410	3600	5.4%
T-OCA-23-C1L-0-6 / DUP-76	N50821	lead	67.1	73.4	8.9%
T-OCA-22-HWL-0-6 / DUP-77	N50821	lead	25.7	25.7	0.0%

The duplicate RPD for lead between samples T-SD-3-C1R-0-6 and DUP-36 is unacceptable. Data associated with these field duplicates have been qualified as estimated for lead based on the RPD. All other RPDs were acceptable.

Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

Serial Dilution

The serial dilution results were above the 10% acceptable limit for lead in several serial dilution analyses. Data for lead have been qualified as estimated in associated samples based on these deviations.

QUALITY CONTROL CHECK SUMMARY

Quality Control Check	Status	Comment
Completeness	Acceptable	Data set is 100% complete; no data have been rejected
Holding times	Acceptable	All samples were analyzed within the specified holding times
Analytical methods	Acceptable	
Initial and continuing calibrations	Acceptable	Control limits were met
CRDL standards	Acceptable	Control limits were met
Initial and continuing calibration blanks	Acceptable	No data have been qualified based on blank content
Method blanks	Acceptable	Control limits were met
Instrument-specific quality control procedures for ICP-AES	Acceptable	Control limits were met
Interference check samples	Acceptable	Control limits were met
Serial dilutions	Acceptable	104 lead results have been qualified as estimated (J) due to the control limit of 10% not being met
Matrix spike samples	Acceptable	93 lead results have been qualified as estimated (J) due to recoveries being outside of the 75-125% acceptable control limits
Laboratory control sample	Acceptable	Control limits were met
Field duplicate	Acceptable	2 lead results have been qualified as estimated (J) due to the RPD control limit of 100% not being met
Method reporting limit	Acceptable	Method reporting requirements were met
OVERALL ASSESSMENT	ACCEPTABLE	QUALIFIERS WERE ADDED TO SELECTED RESULTS AS NOTED

Appendix D

CCSEM Procedures

Appendix D
Computer Controlled Scanning Electron Microscopy Operating Procedures

For CCSEM, a half-gram subsample (less-than-600-μm size fraction) was epoxy pregnated, polished, and analyzed using CCSEM operated with the ZepRun® automated particle analysis program, which allowed automated analysis of approximately 1,000 particles/hr. The sample was observed in the backscatter electron mode, where brightness and contrast of images were kept constant using copper tape and the aluminum sample holder as standards. An intensity threshold value was set to separate particles darker than leaded glass from bright particles, which included leaded glass. This procedure excludes particles of low formula weight from requiring further characterization. During analysis, the beam was driven across a randomly selected particle field until a bright particle was encountered. The particle was sized and an electron dispersive spectrum (EDS) was collected to record the mineral phase chemistry and size (diameter and area). When the search of the first field was completed, the motorized stage was driven to the next randomly chosen field. This procedure continued for a total analysis time of 2 hours per sample. Based on the total area analyzed, the sample area of all soil mineral phases, and the sample area of leaded glass particles, the area percent of leaded glass particles was calculated. Because the surface analyzed was a random area, the area percent is equivalent to the volume percent (Chayes 1956). Based on the assumption that the density of leaded glass is equivalent to the density all other soil mineral phases (in aggregate), the weight percent of leaded glass in each soil sample was calculated. Bulk lead attributable to the leaded glass was then calculated from the electron microprobe measured lead concentrations in the high- and low-lead glass.

QA/QC samples for the CCSEM analyses included analysis of one field duplicate (T-ES-3 B 0–6), one laboratory duplicate (C-OCA-6 6–12), and two laboratory control samples (labeled C-OCA-99 and C-OCA-98). Sample C-OCA-99 consisted of a soil from Bartlesville, Oklahoma (1,388 mg/kg lead), that had previously been analyzed for lead mineralogy by electron microprobe, and had been found to contain only 2 percent of lead (28 mg/kg) in lead silicate mineral forms (PTI 1994). Sample C-OCA-98 consisted of the same Bartlesville soil that was blended with 9.3 weight percent of high-lead cullet (less-than-600-μm size fraction) to produce a soil containing 1,388 mg/kg lead as common lead mineral forms and 1,658 mg/kg lead as leaded glass.

Appendix E

RJ Lee Group CCSEM Report

OCT 2 5 1996

RJ LeeGroup, Inc.

350 Hochberg Road • Monroeville, PA 15146
412/325-1776 • FAX 412/733-1799

October 15, 1996

Mr. Michael Ruby
PTI Environmental Services
4940 Pearl East Circle, Suite 300
Boulder Colorado 80301

RE: CCSEM Analysis of Soil Samples
RJ Lee Group Project No. CEH402376-15 (revised)
PTI Contract Nos. S24C000-15

Dear Mr. Ruby:

Enclosed are the results of the analysis of 28 soil samples which we received from you on July 30 and September 18, 1966 (reference your Laboratory Services Order as revised on September 13, 1996). We also received two glass cullet samples on August 1, to be used as reference material. The samples are listed below with the PTI sample ID, the RJ Lee Group sample number and description.

PTI Sample ID	RJ Lee Group Sample No.	Description
TES3-B0	609633	Soil
TES3-B0DUP	609634	Soil
TES2-B0	609635	Soil
TES1-B0	609636	Soil
TES4-B0	609637	Soil
GSDI-0	609638	Soil
TSD2105-B0	609639	Soil
TSD1360-B0	609640	Soil
TSD025-B0	609641	Soil
TOCA-B0	609642	Soil
COCA 2-6	609643	Soil
TOCA-1-B0	609644	Soil
TOCA-2-B0	609645	Soil
COCA 1-6	609646	Soil
COCA 3-6	609647	Soil
COCA 4-6	609648	Soil
COCA 5-6	609649	Soil
COCA 6-6A	609650	Soil
COCA 7-6	609651	Soil
COCA 6-6B	609652	Soil
COCA 8-6	609653	Soil
COCA 9-6	609654	Soil
COCA 10-6	609655	Soil
COCA 11-6	609656	Soil
COCA 12-6	609657	Soil
COCA 99-6	609658	Soil
COCA 98-6	609659	Soil
TOCA 4-BD	609935	Soil
Funnel Cullet	609674	Cullet
Face Cullet	609675	Cullet

The purpose of this analysis was to quantify the amount of high-lead glass and low-lead glass in the samples, and to estimate the amount of total lead contributed to the samples from these two phases. The lead content of the high-lead glass and the low-lead glass was assumed to be 15% and 3%, respectively. The method of analysis was computer-controlled scanning electron microscopy (CCSEM) performed on epoxy impregnated polished "pucks". The two basic strategies for automated analysis in the backscattered electron (BE) imaging mode were investigated to determine the optimal approach. In the BE mode, the brightness of any particle is proportional to it's average atomic number (z). When phases of relatively high average atomic number (z) are of interest, the procedure is to select a threshold such that only the brighter particles are analyzed, thus increasing the number of particles analyzed. When the phases of interest are not significantly brighter than the common soil components (silicate and carbonate minerals), all particles need to be analyzed. Because one phase of interest in this study is a silicate with about 3% lead, it was not clear that the high-z approach was appropriate and both methods were tested. The results indicated that the 3% lead yielded sufficiently bright particles such that they could be distinguished from quartz, feldspar and clay, the great majority of the sample. The threshold selected would allow detection of both glass phases as well as iron silicates, dolomite, and metal-rich phases. Subsequent to the high-z analysis, fifteen fields were analyzed to determine the relative proportion of particle and epoxy.

On-line rules were established to recognize potential high-lead and low-lead particles. The low-lead phases were identified based on the non-lead composition of the glass. Images and EDS spectra were saved for all articles that were identified as the glass to allow manual review, either in the SEM after the analysis was complete, or using off-line software. Over two thirds of the particles identified as glass were reviewed. Of the reviewed particles, about 2.5% were rejected. Representative examples of high-lead and low-lead glass particles are shown in Figures 1 and 2, respectively.

The results of the analyses are summarized in Table 1. The sample summaries are reported in the appendix as five tables per sample. The first table presents the overall distribution by class, the following three tables present size distributions by number, number percent and area percent by class, and the last table presents the average composition by class. The potential glass particles rejected during the manual review are listed by class as "Removed".

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding.

Should you have any questions or feel that I may be of further assistance, please do not hesitate to contact me.

Sincerely,

Stephen K. Kennedy

Stephen K. Kennedy, Ph.D., P.G.
Environmental Services

SKK:dls
Attachments

Table 1 - Summary results of CCSEM High-Z analyses for high-lead and low-lead glass

PTI Sample ID	RJLG Sample ID	Area Anal. (mm^2)	Part. Fract.	Particle Area (mm^2)	Particle Area (um^2)	Area Pb Gls (um) Hi Pb	Area Pb Gls (um) Lo Pb	PPM Pb Phase Hi Pb	PPM Pb Phase Lo Pb	PPM Pb Hi Pb	PPM Pb Lo Pb	PPM Pb Total
TES3-BO	609633	71.70	0.48	34.56	34558340	315	123	9.1	3.6	1	0	1
TES3-BO Dup	609634	67.33	0.41	27.54	27536784	0	0	0.0	0.0	0	0	0
TES2-BO	609635	80.18	0.41	32.71	32713358	241	0	7.4	0.0	1	0	1
TES1-B0	609636	68.53	0.40	27.21	27207919	372	0	13.7	0.0	2	0	2
TES4-BO	609637	37.65	0.47	17.58	17580449	36743	7862	2090.0	447.2	314	13	327
GSDI-O	609638	86.98	0.40	34.79	34790840	0	0	0.0	0.0	0	0	0
TSD2105-BO	609639	75.54	0.37	28.02	28024858	3766	708	134.4	25.3	20	1	21
TSD1360-BO	609640	75.64	0.43	32.68	32676826	5997	333	183.5	10.2	28	0	28
TSD1360-BO	609640	85.45	0.41	34.69	34693147	233	4457	6.7	128.5	1	4	5
TSD025-BO	609641	34.28	0.54	18.58	18579272	0	159	0.0	8.6	0	0	0
TOCA3-B0	609642	69.96	0.18	12.59	12593592	60393	2328	4795.5	184.8	719	6	725
COCA 2-6	609643	63.06	0.38	24.09	24087239	55920	1468	2321.5	60.9	348	2	350
TOCA-1B0	609644	91.56	0.20	18.22	18221415	99	0	5.4	0.0	1	0	1
TOCA2-B0	609645	64.02	0.42	26.82	26823835	697	1387	26.0	51.7	4	2	5
COCA 1-6	609646	31.81	0.34	10.88	10878815	314	1750	28.9	160.8	4	5	9
COCA 3-6	609647	91.58	0.32	29.40	29398368	497	0	16.9	0.0	3	0	3
COCA 4-6	609648	82.85	0.35	28.92	28916186	23091	9486	798.6	328.0	120	10	130
COCA 5-6	609649	62.46	0.36	22.17	22171774	16645	15167	750.7	684.1	113	21	133
COCA 6-6A	609650	8.80	0.47	4.11	4110627	18373	4203	4469.7	1022.6	670	31	701
COCA 7-6	609651	41.29	0.34	13.83	13832217	18643	6045	1347.8	437.0	202	13	215
COCA 6-6B	609652	6.48	0.47	3.03	3031704	6712	1432	2214.0	472.2	332	14	346
COCA 8-6	609653	105.91	0.39	40.88	40882264	360	29	8.8	0.7	1	0	1
COCA 9-6	609654	92.17	0.45	41.84	41844544	1594	333	38.1	8.0	6	0	6
COCA 10-6	609655	22.41	0.29	6.43	6430407	76121	8563	11837.7	1331.6	1776	40	1816
COCA 11-6	609656	92.26	0.57	52.96	52957183	0	0	0.0	0.0	0	0	0
COCA 12-6	609657	69.78	0.35	24.56	24563334	3834	574	156.1	23.4	23	1	24
COCA 99-6	609658	42.73	0.33	13.89	13887445	5058	714	364.2	51.4	55	2	56
COCA 98-6	609659	40.34	0.37	15.05	15047268	246696	1751	16394.8	116.4	2459	3	2463
TOCA 4-BO	609935	85.79	0.29	24.62	24621013	2008	4612	81.6	187.3	12	6	18

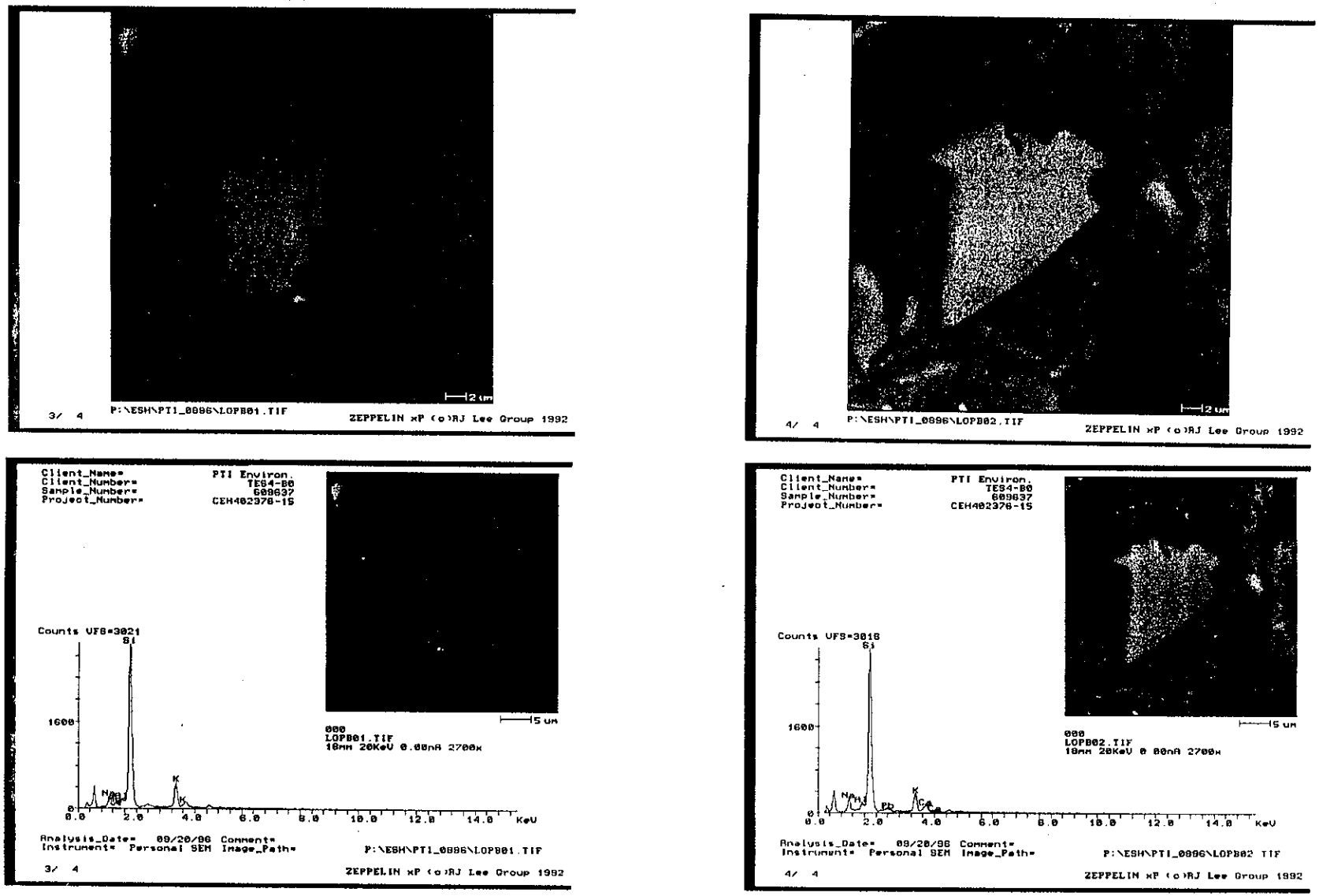

Figure 2. Representative backscattered electron images and EDS spectra of the low-lead glass phase

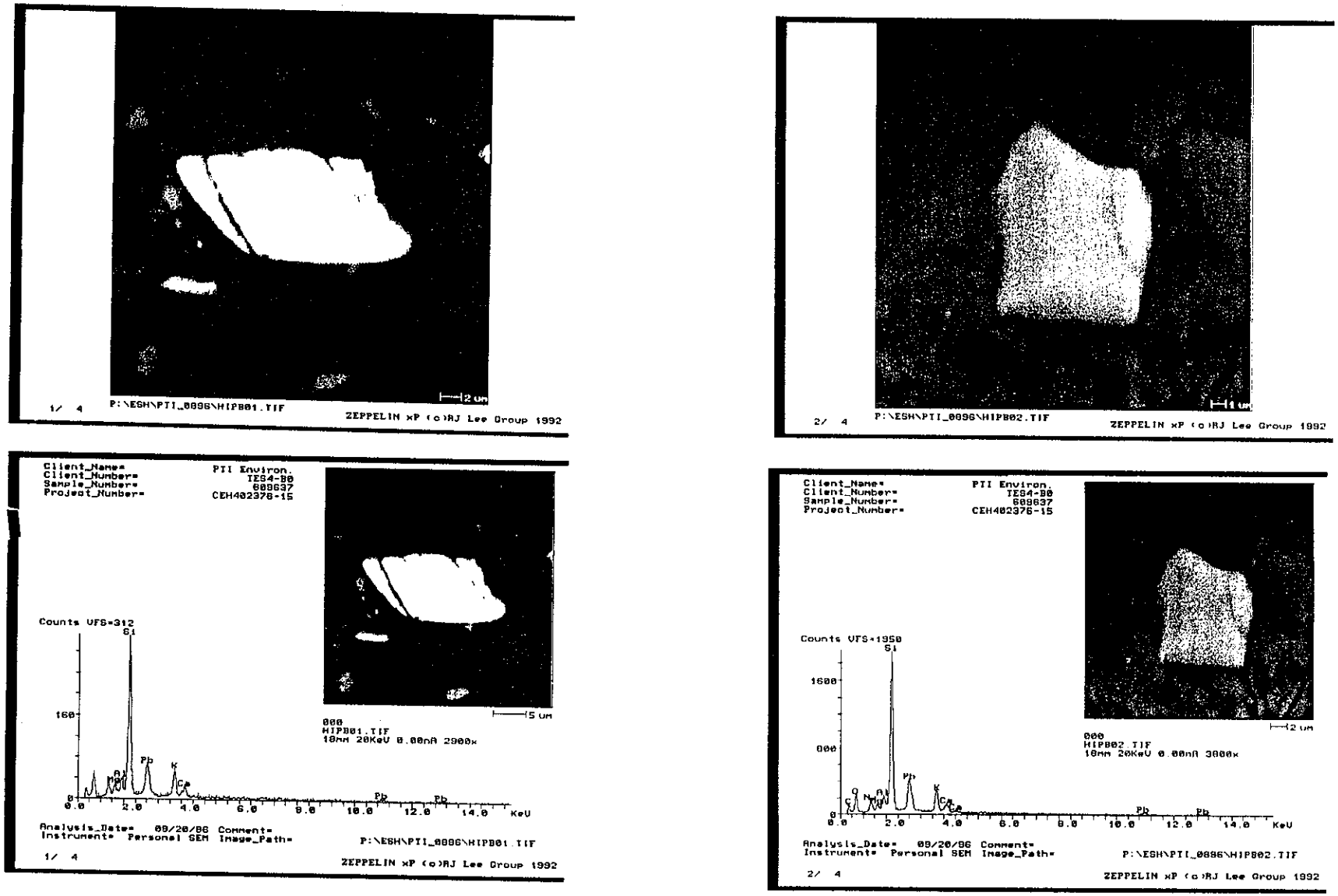

Figure 1. Representative backscattered electron images and EDS spectra of the high-lead glass phase

APPENDIX

Client_Name PTI
Client_Number TES3-B0
Project_Number CEH402376
Sample_Number 609633

Fields	Particles	Area
362.8792	216	71.6978
284.7527	1389	6.2513

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	52	3.24	3.69	0.56	1080.6
Glass, Lo Pb	1	0.06	0.07	0.06	123.0
Glass, Hi Pb	9	0.56	0.64	0.16	315.0
Ca-rich	6	0.37	0.43	0.15	287.0
Other	1537	95.76	95.17	99.07	192641.5
Totals	1605	100.00	100.00	100.00	194447.1

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	596	0	596	0	0	0	0	0	0	0	0
Glass, Lo Pb	11	0	0	11	0	0	0	0	0	0	0
Glass, Hi Pb	103	0	103	0	0	0	0	0	0	0	0
Ca-rich	69	0	69	0	0	0	0	0	0	0	0
Other	15367	0	11722	2661	768	175	38	2	1	0	0
Totals	16147	0	12490	2672	768	175	38	2	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	3.7	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.1	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	95.2	0.0	76.3	17.3	5.0	1.1	0.2	0.0	0.0	0.0	0.0
Totals	100.0	0.0	77.4	16.6	4.8	1.1	0.2	0.0	0.0	0.0	0.0

Client_Name PTI
Client_Number TES3-B0
Project_Number CEH402376
Sample_Number 609633

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	0.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.1	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	99.1	0.0	19.5	17.1	14.3	14.8	12.8	5.2	16.3	0.0	0.0
Totals	100.0	0.0	20.2	17.0	14.2	14.7	12.6	5.2	16.2	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	52	186	2499	0	2	16	49	4	0	2	2	2	0	0	19	0	0	0	1	3
Glass, Lo Pb	1	152	4704	6	0	7	70	0	0	10	4	0	0	0	0	0	0	0	0	3
Glass, Hi Pb	9	199	3805	3	1	8	57	0	0	8	6	0	0	0	0	0	0	0	0	18
Ca-rich	6	160	2366	0	2	4	8	6	1	0	75	0	0	0	4	0	0	0	0	1
Other	1537	171	1865	0	1	8	17	1	0	0	1	10	0	0	61	0	0	0	0	0
Totals	1605	172	1905	0	1	8	19	1	0	1	1	9	0	0	59	0	0	0	0	1

Client_Name PTI Environ
Client_Number TES3-BO DUP
Project_Number CEH402376
Sample_Number 609634

Fields	Particles	Area
340.7584	184	67.3271
186.9150	1671	4.1034

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	171	9.22	10.11	2.33	6405.4
Ca-rich	7	0.38	0.42	0.45	1242.5
Other	1677	90.40	89.47	97.22	267098.1
Totals	1855	100.00	100.00	100.00	274746.0

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	2790	0	2724	66	0	1	0	0	0	0	0
Ca-rich	115	0	49	49	16	0	0	0	0	0	0
Other	24696	0	19623	3675	1214	147	30	5	1	0	0
Totals	27601	0	22396	3790	1231	148	30	5	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	10.1	0.0	97.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.4	0.0	42.9	42.9	14.3	0.0	0.0	0.0	0.0	0.0	0.0
Other	89.5	0.0	79.5	14.9	4.9	0.6	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	81.1	13.7	4.5	0.5	0.1	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TES3-BO DUP
Project_Number CEH402376
Sample_Number 609634

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	2.3	0.0	86.3	11.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.5	0.0	15.6	52.5	32.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	97.2	0.0	20.4	17.0	19.0	8.4	8.0	7.4	19.8	0.0	0.0
Totals	100.0	0.0	21.9	17.0	18.6	8.2	7.8	7.2	19.3	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	171	172	1618	0	2	19	49	0	0	3	2	2	0	0	22	0	0	0	0	1
Ca-rich	7	162	1778	0	4	13	9	5	0	0	58	0	0	0	10	0	0	0	0	0
Other	1677	185	1226	0	1	10	21	1	0	1	2	5	0	0	56	0	0	0	0	1
Totals	1855	184	1268	0	1	11	24	1	0	1	2	5	0	0	53	0	0	0	0	1

Client_Name PTI
Client_Number TES2-30
Project_Number CEH402376
Sample_Number 609635

Fields	Particles	Area
405.8090	106	80.1798
230.7003	1595	5.0646

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	214	12.58	13.30	4.17	10317.9
Si-rich	1	0.06	0.06	0.02	42.2
Glass, Hi Pb	4	0.24	0.25	0.10	240.9
Ca-rich	206	12.11	12.86	22.64	55972.3
Other	1276	75.01	73.52	73.07	180608.5
Totals	1701	100.00	100.00	100.00	247181.8

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	3373	0	3214	142	16	1	0	0	0	0	0
Si-rich	16	0	16	0	0	0	0	0	0	0	0
Glass, Hi Pb	63	0	47	16	0	0	0	0	0	0	0
Ca-rich	3261	0	1045	1361	855	0	0	0	0	0	0
Other	18643	0	12997	4053	1488	90	13	2	0	0	0
Totals	25357	0	17319	5573	2359	91	13	2	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	13.3	0.0	95.3	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	75.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	12.9	0.0	32.0	41.7	26.2	0.0	0.0	0.0	0.0	0.0	0.0
Other	73.5	0.0	69.7	21.7	8.0	0.5	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	68.3	22.0	9.3	0.4	0.1	0.0	0.0	0.0	0.0

Client_Name PTI
Client_Number TES2-30
Project_Number CEH402376
Sample_Number 609635

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	4.2	0.0	69.2	23.1	6.7	1.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.1	0.0	28.0	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	22.6	0.0	8.9	41.8	49.4	0.0	0.0	0.0	0.0	0.0	0.0
Other	73.1	0.0	24.0	29.5	27.7	8.2	4.8	5.7	0.0	0.0	0.0
Totals	100.0	0.0	22.5	32.1	31.7	6.0	3.5	4.1	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	214	168	2263	0	1	19	48	0	0	3	2	1	0	0	25	0	0	0	0	0
Si-rich	1	254	1257	0	0	0	96	0	0	0	0	0	0	0	4	0	0	0	0	0
Glass, Hi Pb	4	208	3306	0	0	6	71	0	0	8	3	0	0	0	0	0	0	0	0	13
Ca-rich	206	149	3086	0	0	0	0	37	0	0	63	0	0	0	0	0	0	0	0	0
Other	1276	178	2014	0	1	9	29	1	1	1	2	7	0	0	46	0	0	0	2	0
Totals	1701	173	2188	0	1	9	28	5	1	1	10	5	0	0	37	0	0	0	2	0

Client_Name PTI Environ
Client_Number TES1-BO
Project_Number CEH402376
Sample_Number 609636

Fields	Particles	Area
346.8658	137	68.5338
182.0515	1336	3.9966

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	3	0.20	0.22	0.11	214.5
Si\Al-rich	222	15.07	16.52	4.80	9241.6
Si-rich	4	0.27	0.02	0.38	726.9
Glass, Hi Pb	3	0.20	0.22	0.19	371.7
Ca-rich	79	5.36	5.74	2.49	4792.0
Other	1162	78.89	77.28	92.03	177114.4
Totals	1473	100.00	100.00	100.00	192461.0

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	51	0	51	0	0	0	0	0	0	0	0
Si\Al-rich	3807	0	3721	86	0	0	0	0	0	0	0
Si-rich	4	0	0	0	0	4	0	0	0	0	0
Glass, Hi Pb	51	0	34	17	0	0	0	0	0	0	0
Ca-rich	1322	0	1269	34	17	1	1	0	0	0	0
Other	17810	0	13032	3172	1475	102	29	0	0	0	0
Totals	23047	0	18108	3310	1492	107	30	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	16.5	0.0	97.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	5.7	0.0	96.0	2.6	1.3	0.1	0.1	0.0	0.0	0.0	0.0
Other	77.3	0.0	73.2	17.8	8.3	0.6	0.2	0.0	0.0	0.0	0.0
Totals	100.0	0.0	78.6	14.4	6.5	0.5	0.1	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TES1-BO
Project_Number CEH402376
Sample_Number 609636

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	4.8	0.0	89.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.4	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	24.9	75.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	2.5	0.0	52.3	9.0	7.3	2.4	29.0	0.0	0.0	0.0	0.0
Other	92.0	0.0	21.1	21.9	34.5	8.8	13.7	0.0	0.0	0.0	0.0
Totals	100.0	0.0	25.1	21.0	31.9	8.6	13.4	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	3	188	2882	0	0	9	63	8	0	3	0	0	0	0	16	0	0	0	0	1
Si\Al-rich	222	170	2320	0	1	19	50	0	0	3	3	1	0	0	21	0	0	0	0	1
Si-rich	4	203	1127	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	3	212	2535	5	1	5	59	0	1	9	3	0	0	0	0	0	0	0	0	16
Ca-rich	79	159	1596	1	0	0	2	4	0	0	87	0	0	0	4	0	0	1	0	0
Other	1162	189	1741	4	1	7	30	1	1	1	3	6	0	0	42	0	0	2	2	0
Totals	1473	184	1832	3	1	9	32	1	1	1	8	4	0	0	36	0	0	2	2	0

Client_Name PTI ENVIRONMENTAL
Client_Number TES4-B0
Project_Number CEH402376
Sample_Number 609637

Fields	Particles	Area
190.5328	135	37.6455
31.2334	1932	0.6857

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	1196	57.86	60.30	49.56	283608.6
Si-rich	69	3.34	3.57	2.13	12209.4
Glass, Lo Pb	30	1.45	1.35	1.37	7861.9
Glass, Hi Pb	119	5.76	4.63	6.42	36743.4
Ca-rich	55	2.66	2.79	2.26	12939.5
Other	598	28.93	27.36	38.25	218857.0
Totals	2067	100.00	100.00	100.00	572219.7

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	64046	0	55671	7137	1208	30	0	0	0	0	0
Si-rich	3788	0	3733	55	0	0	0	0	0	0	0
Glass, Lo Pb	1431	0	1208	165	55	4	0	0	0	0	0
Glass, Hi Pb	4916	0	3788	714	384	29	1	0	0	0	0
Ca-rich	2966	0	2526	439	0	1	0	0	0	0	0
Other	29059	0	23992	3898	1098	65	2	1	2	0	0
Totals	106207	0	90919	12408	2745	129	3	1	2	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	60.3	0.0	86.9	11.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	3.6	0.0	98.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.3	0.0	84.4	11.5	3.8	0.3	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	4.6	0.0	77.1	14.5	7.8	0.6	0.0	0.0	0.0	0.0	0.0
Ca-rich	2.8	0.0	85.2	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	27.4	0.0	82.6	13.4	3.8	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	85.6	11.7	2.6	0.1	0.0	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number TES4-B0
Project_Number CEH402376
Sample_Number 609637

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	49.6	0.0	52.6	32.8	13.2	1.5	0.0	0.0	0.0	0.0	0.0
Si-rich	2.1	0.0	95.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.4	0.0	51.9	22.1	19.9	6.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	6.4	0.0	32.4	22.9	33.7	10.1	0.9	0.0	0.0	0.0	0.0
Ca-rich	2.3	0.0	57.7	41.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Other	38.2	0.0	30.5	23.2	19.8	4.1	1.1	4.5	16.7	0.0	0.0
Totals	100.0	0.0	43.9	27.9	16.6	3.0	0.5	1.7	6.4	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	1196	169	3010	0	3	21	55	0	0	5	3	0	0	0	11	0	0	0	0	0
Si-rich	69	150	3072	0	0	2	98	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	30	182	4251	2	0	6	80	0	0	10	2	0	0	0	0	0	0	0	0	1
Glass, Hi Pb	119	227	3966	1	1	7	63	0	0	8	4	0	0	0	0	0	0	0	0	15
Ca-rich	55	170	2222	0	5	6	17	3	1	0	64	0	0	0	3	0	0	0	0	1
Other	598	193	2576	0	2	10	45	1	1	1	5	6	0	0	24	0	0	0	4	2
Totals	2067	178	2933	0	3	16	53	0	0	4	5	2	0	0	13	0	0	0	1	1

Client_Name PTI ENVIRONMENTAL
Client_Number GSDI-0
Project_Number CEH402376
Sample_Number 609638

Fields	Particles	Area
349.1092	182	68.9771
181.1290	1692	3.9764

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	233	12.43	13.69	8.05	19489.7
Si-rich	1	0.05	0.06	0.01	16.6
Ca-rich	65	3.47	3.82	1.45	3520.5
Other	1575	84.04	82.44	90.49	218991.5
Totals	1874	100.00	100.00	100.00	242018.2

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	4042	0	3608	382	52	0	0	0	0	0	0
Si-rich	17	0	17	0	0	0	0	0	0	0	0
Ca-rich	1128	0	1093	35	0	0	0	0	0	0	0
Other	24346	0	20174	2741	1249	130	45	7	0	0	0
Totals	29533	0	24892	3157	1301	130	45	7	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	13.7	0.0	89.3	9.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	3.8	0.0	96.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	82.4	0.0	82.9	11.3	5.1	0.5	0.2	0.0	0.0	0.0	0.0
Totals	100.0	0.0	84.3	10.7	4.4	0.4	0.2	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number GSDI-0
Project_Number CEH402376
Sample_Number 609638

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	8.1	0.0	64.2	21.1	14.7	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	1.5	0.0	86.2	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	90.5	0.0	25.5	16.7	23.7	10.3	13.4	10.3	0.0	0.0	0.0
Totals	100.0	0.0	29.5	17.0	22.7	9.4	12.1	9.4	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	233	153	3015	0	9	25	45	0	0	0	5	0	0	0	15	0	0	0	0	0
Si-rich	1	149	3107	0	0	3	97	0	0	0	0	0	0	0	0	0	0	0	0	0
Ca-rich	65	153	2447	0	0	0	2	4	0	0	93	0	0	0	0	0	0	0	0	0
Other	1575	202	3232	0	1	3	13	0	50	0	3	4	0	0	24	0	0	0	2	0
Totals	1874	193	3172	0	2	6	17	0	42	0	6	3	0	0	22	0	0	0	1	0

Client_Name PTI Environ.
Client_Number TSD2105-B0
Project_Number CEH402376
Sample_Number 609639

Fields	Particles	Area
382.3191	71	75.5387
127.9799	1811	2.8096

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	1	0.05	0.06	0.02	52.1
Si\Al-rich	210	11.16	11.47	7.13	17852.4
Glass, Lo Pb	7	0.37	0.28	0.28	708.1
Glass, Hi Pb	22	1.17	1.05	1.50	3766.1
Ca-rich	422	22.42	23.27	16.73	41886.3
Other	1220	64.82	63.87	74.33	186123.1
Totals	1882	100.00	100.00	100.00	250388.1

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	27	0	27	0	0	0	0	0	0	0	0
Si\Al-rich	5594	0	5323	269	0	2	0	0	0	0	0
Glass, Lo Pb	136	0	134	0	0	2	0	0	0	0	0
Glass, Hi Pb	514	0	323	188	0	3	0	0	0	0	0
Ca-rich	11346	0	10916	430	0	0	0	0	0	0	0
Other	31144	0	25596	4302	1183	57	7	0	0	0	0
Totals	48762	0	42319	5189	1183	64	7	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	11.5	0.0	95.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	98.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.1	0.0	62.8	36.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Ca-rich	23.3	0.0	96.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	63.9	0.0	82.2	13.8	3.8	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	86.8	10.6	2.4	0.1	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ.
Client_Number TSD2105-B0
Project_Number CEH402376
Sample_Number 609639

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	7.1	0.0	83.8	15.1	0.0	1.2	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	27.9	0.0	0.0	72.1	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.5	0.0	28.1	58.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0
Ca-rich	16.7	0.0	89.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	74.3	0.0	39.6	29.9	24.1	4.4	2.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	50.9	25.9	17.9	3.8	1.5	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	1	188	3988	0	0	10	53	0	14	3	3	0	0	0	3	0	0	0	14	0
Si\Al-rich	210	163	3445	0	6	22	49	0	0	4	5	0	0	0	11	0	0	0	1	0
Glass, Lo Pb	7	165	4569	1	1	6	81	0	0	10	2	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	22	215	5227	1	1	8	62	0	0	9	4	0	0	0	0	0	0	0	0	14
Ca-rich	422	154	2766	0	0	0	1	0	0	0	98	0	0	0	0	0	0	0	0	0
Other	1220	187	2926	0	2	5	15	0	33	0	5	3	0	0	35	0	0	0	2	0
Totals	1882	177	2978	0	2	6	16	0	21	1	26	2	0	0	24	0	0	0	1	0

Client_Name PTI
Client_Number TSD1360-B0
Project_Number CEH402376
Sample_Number 609640

Fields	Particles	Area
382.8360	156	75.6408
283.2624	1440	6.2186

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	2	0.13	0.07	0.13	233.9
Si\Al-rich	139	8.71	9.57	1.80	3277.4
Glass, Lo Pb	5	0.31	0.28	0.18	332.8
Glass, Hi Pb	5	0.31	0.22	3.30	5996.5
Ca-rich	24	1.50	1.59	1.06	1924.1
Other	1421	89.04	88.27	93.53	170153.6
Totals	1596	100.00	100.00	100.00	181918.1

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	13	0	12	0	0	1	0	0	0	0	0
Si\Al-rich	1691	0	1666	24	0	0	0	0	0	0	0
Glass, Lo Pb	50	0	49	0	0	1	0	0	0	0	0
Glass, Hi Pb	38	0	36	0	0	1	0	1	0	0	0
Ca-rich	281	0	243	12	24	1	0	0	0	0	0
Other	15599	0	12212	2311	924	108	40	2	1	0	0
Totals	17672	0	14219	2348	949	112	40	3	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	92.4	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	9.6	0.0	98.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	98.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	94.8	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0
Ca-rich	1.6	0.0	86.6	4.3	8.7	0.4	0.0	0.0	0.0	0.0	0.0
Other	88.3	0.0	78.3	14.8	5.9	0.7	0.3	0.0	0.0	0.0	0.0
Totals	100.0	0.0	80.5	13.3	5.4	0.6	0.2	0.0	0.0	0.0	0.0

Client_Name PTI
Client_Number TSD1360-B0
Project_Number CEH402376
Sample_Number 609640

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	14.6	0.0	0.0	85.4	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	1.8	0.0	92.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.2	0.0	39.0	0.0	0.0	61.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	3.3	0.0	1.4	0.0	0.0	2.0	0.0	96.6	0.0	0.0	0.0
Ca-rich	1.1	0.0	22.4	5.4	66.7	5.4	0.0	0.0	0.0	0.0	0.0
Other	93.5	0.0	20.1	16.8	22.0	10.4	18.1	7.0	5.4	0.0	0.0
Totals	100.0	0.0	20.9	15.9	21.3	10.1	17.0	9.8	5.1	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	2	215	3940	0	0	8	55	0	14	4	0	5	0	0	0	0	0	0	9	6
Si\Al-rich	139	174	2706	0	2	16	48	1	1	7	1	2	0	0	22	0	0	0	0	0
Glass, Lo Pb	5	165	3708	6	0	5	74	0	0	11	3	0	0	0	0	0	0	0	0	1
Glass, Hi Pb	5	195	3888	2	2	8	61	0	0	6	5	0	0	0	0	0	0	0	0	15
Ca-rich	24	158	2528	0	1	0	4	14	3	0	68	2	0	0	7	0	0	0	0	2
Other	1421	181	2350	0	2	6	21	0	9	1	5	8	0	0	44	0	0	0	0	3
Totals	1596	180	2395	0	2	7	24	1	8	2	5	7	0	0	41	0	0	0	0	3

Client_Name PTI Environ
Client_Number TSD1360-BO
Project_Number CEH402376
Sample_Number 609640

Fields	Particles	Area
432.4883	134	85.4511
506.2487	1127	11.1139

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	29	2.30	0.71	3.74	4096.4
Glass, Lo Pb	5	0.40	0.29	4.08	4465.8
Glass, Hi Pb	7	0.56	0.61	0.21	233.1
Ca-rich	7	0.56	0.61	0.06	66.5
Other	1213	96.19	97.78	91.91	100686.6
Totals	1261	100.00	100.00	100.00	109548.5

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	62	0	38	0	0	24	0	0	0	0	0
Glass, Lo Pb	25	0	23	0	0	0	1	1	0	0	0
Glass, Hi Pb	54	0	46	8	0	0	0	0	0	0	0
Ca-rich	54	0	54	0	0	0	0	0	0	0	0
Other	8591	0	6397	1592	492	92	16	1	1	0	0
Totals	8786	0	6558	1599	492	116	17	2	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	0.7	0.0	61.6	0.0	0.0	38.4	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	92.0	0.0	0.0	0.0	4.0	4.0	0.0	0.0	0.0
Glass, Hi Pb	0.6	0.0	85.7	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	97.8	0.0	74.5	18.5	5.7	1.1	0.2	0.0	0.0	0.0	0.0
Totals	100.0	0.0	74.6	18.2	5.6	1.3	0.2	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TSD1360-BO
Project_Number CEH402376
Sample_Number 609640

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	3.7	0.0	1.4	0.0	0.0	98.6	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	4.1	0.0	2.6	0.0	0.0	0.0	30.2	67.2	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	56.1	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	91.9	0.0	18.7	19.6	18.0	15.7	9.5	2.4	16.0	0.0	0.0
Totals	100.0	0.0	17.6	18.1	16.6	18.1	10.0	5.0	14.7	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	29	174	1508	0	3	20	46	5	1	3	6	0	0	0	13	0	0	0	2	1
Glass, Lo Pb	5	150	2494	5	0	4	75	0	0	13	4	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	7	191	2376	2	1	8	58	0	0	9	4	0	0	0	0	0	0	0	0	17
Ca-rich	7	183	1315	0	0	0	2	0	1	0	58	0	2	0	31	1	3	1	0	0
Other	1213	181	1895	0	0	2	7	1	32	0	2	4	0	0	46	0	0	0	0	6
Totals	1261	181	1893	0	0	2	8	1	32	0	3	4	0	0	45	0	0	0	0	6

Client_Name PTI Environ.
Client_Number TSD025=B0
Project_Number CEH402376
Sample_Number 609641

Fields	Particles	Area
173.4944	257	34.2791
28.7893	2096	0.6320

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	5	0.21	0.24	0.11	766.5
Si\Al-rich	907	38.55	41.82	46.30	317743.3
Si-rich	430	18.27	20.47	13.95	95727.2
Glass, Lo Pb	2	0.08	0.10	0.02	159.2
Ca-rich	502	21.33	18.90	18.17	124711.5
Other	507	21.55	18.48	21.45	147215.5
Totals	2353	100.00	100.00	100.00	686323.2

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	271	0	271	0	0	0	0	0	0	0	0
Si\Al-rich	47649	0	35363	11281	976	27	2	0	0	0	0
Si-rich	23322	0	22020	1302	0	0	0	0	0	0	0
Glass, Lo Pb	108	0	108	0	0	0	0	0	0	0	0
Ca-rich	21531	0	18441	2603	380	104	3	0	0	0	0
Other	21057	0	18441	1573	922	111	9	0	1	0	0
Totals	113938	0	94644	16759	2278	242	14	0	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	41.8	0.0	74.2	23.7	2.0	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	20.5	0.0	94.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	18.9	0.0	85.6	12.1	1.8	0.5	0.0	0.0	0.0	0.0	0.0
Other	18.5	0.0	87.6	7.5	4.4	0.5	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	83.1	14.7	2.0	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ.
Client_Number TSD025=B0
Project_Number CEH402376
Sample_Number 609641

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	46.3	0.0	43.4	44.7	9.9	1.4	0.5	0.0	0.0	0.0	0.0
Si-rich	13.9	0.0	87.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	18.2	0.0	47.4	27.6	11.3	12.3	1.4	0.0	0.0	0.0	0.0
Other	21.4	0.0	33.6	12.8	21.8	11.7	3.7	0.0	16.3	0.0	0.0
Totals	100.0	0.0	48.2	30.3	11.3	5.4	1.3	0.0	3.5	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	5	152	6820	0	0	10	86	0	0	4	0	0	0	0	1	0	0	0	0	0
Si\Al-rich	907	153	4276	2	1	26	60	0	0	4	4	0	0	0	3	0	0	0	0	0
Si-rich	430	150	3035	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	2	154	6277	0	0	8	85	0	0	3	2	0	0	0	1	0	0	0	0	0
Ca-rich	502	155	2571	0	21	1	4	0	0	0	73	0	0	0	0	0	0	0	0	0
Other	507	168	3520	0	1	7	67	0	4	0	4	4	0	0	11	0	0	0	2	0
Totals	2353	156	3568	1	5	12	59	0	1	2	16	1	0	0	3	0	0	0	0	0

Client_Name PTI Environ
Client_Number TOCA-B0
Project_Number CER403476
Sample_Number 609642

Fields	Particles	Area
354.1063	95	69.9644
101.5523	1676	2.2294

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	880	49.69	52.41	33.55	77361.6
Glass, Lo Pb	21	1.19	1.19	1.01	2327.5
Glass, Hi Pb	271	15.30	14.30	26.19	60392.9
Ca-rich	28	1.58	1.67	2.00	4603.8
Other	571	32.24	30.43	37.26	85913.1
Totals	1771	100.00	100.00	100.00	230598.9

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	27617	0	26989	596	31	0	0	0	0	0	0
Glass, Lo Pb	629	0	596	31	0	1	0	0	0	0	0
Glass, Hi Pb	7532	0	5680	1255	565	31	1	0	0	0	0
Ca-rich	879	0	722	126	31	0	0	0	0	0	0
Other	16036	0	13871	1663	439	58	4	0	0	0	0
Totals	52692	0	47858	3672	1067	90	5	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	52.4	0.0	97.7	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.2	0.0	94.8	5.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	14.3	0.0	75.4	16.7	7.5	0.4	0.0	0.0	0.0	0.0	0.0
Ca-rich	1.7	0.0	82.1	14.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Other	30.4	0.0	86.5	10.4	2.7	0.4	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	90.8	7.0	2.0	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TOCA-B0
Project_Number CER403476
Sample_Number 609642

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	33.5	0.0	90.1	8.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.0	0.0	80.8	15.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	26.2	0.0	28.3	27.8	36.5	6.6	0.7	0.0	0.0	0.0	0.0
Ca-rich	2.0	0.0	46.7	30.1	23.2	0.0	0.0	0.0	0.0	0.0	0.0
Other	37.3	0.0	43.9	22.5	22.0	9.4	2.2	0.0	0.0	0.0	0.0
Totals	100.0	0.0	55.7	19.4	18.6	5.3	1.0	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	880	159	3123	0	9	24	45	0	0	0	6	0	0	0	13	0	0	0	0	1
Glass, Lo Pb	21	167	4675	2	0	5	80	0	0	9	2	0	0	0	0	0	0	0	0	1
Glass, Hi Pb	271	210	4570	2	1	7	64	0	0	8	3	0	0	0	0	0	0	0	0	15
Ca-rich	28	170	2504	0	0	1	5	4	0	0	87	0	0	0	1	0	0	0	0	2
Other	571	189	2155	0	4	8	31	2	4	0	6	8	0	0	20	0	0	0	8	7
Totals	1771	176	3043	0	6	16	43	1	1	2	7	3	0	0	13	0	0	0	3	5

Client_Name PTI Envt.
Client_Number COCA 2-6
Project_Number CEH402376
Sample_Number 609643

Fields	Particles	Area
319.1393	221	63.0556
57.4171	1747	1.2605

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	4	0.20	0.17	0.06	425.6
Si\Al-rich	678	34.45	36.53	34.60	239127.7
Si-rich	37	1.88	2.11	1.27	8786.5
Glass, Lo Pb	43	2.18	1.90	2.08	14367.6
Glass, Hi Pb	155	7.88	6.28	8.09	55919.7
Ca-rich	173	8.79	9.60	13.34	92218.0
Other	878	44.61	43.42	40.56	280325.6
Totals	1968	100.00	100.00	100.00	691170.6

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	151	0	150	0	0	1	0	0	0	0	0
Si\Al-rich	32005	0	22511	7904	1551	39	0	0	0	0	0
Si-rich	1851	0	1551	300	0	0	0	0	0	0	0
Glass, Lo Pb	1661	0	1101	500	50	10	0	0	0	0	0
Glass, Hi Pb	5499	0	3552	1251	650	44	2	0	0	0	0
Ca-rich	8409	0	4902	2551	950	5	0	0	0	0	0
Other	38038	0	29865	5503	2551	107	11	2	0	0	0
Totals	87614	0	63631	18009	5753	206	13	2	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	99.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	36.5	0.0	70.3	24.7	4.8	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	2.1	0.0	83.8	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.9	0.0	66.3	30.1	3.0	0.6	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	6.3	0.0	64.6	22.7	11.8	0.8	0.0	0.0	0.0	0.0	0.0
Ca-rich	9.6	0.0	58.3	30.3	11.3	0.1	0.0	0.0	0.0	0.0	0.0
Other	43.4	0.0	78.5	14.5	6.7	0.3	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	72.6	20.6	6.6	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Envt.
Client_Number COCA 2-6
Project_Number CEH402376
Sample_Number 609643

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	64.8	0.0	0.0	35.2	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	34.6	0.0	32.8	42.4	22.7	2.1	0.0	0.0	0.0	0.0	0.0
Si-rich	1.3	0.0	63.1	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	2.1	0.0	27.7	49.7	9.9	12.7	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	8.1	0.0	18.5	25.6	42.5	10.0	3.5	0.0	0.0	0.0	0.0
Ca-rich	13.3	0.0	22.0	38.3	39.0	0.7	0.0	0.0	0.0	0.0	0.0
Other	40.6	0.0	27.7	26.2	36.7	5.3	1.9	2.1	0.0	0.0	0.0
Totals	100.0	0.0	28.5	34.0	31.6	4.1	1.0	0.8	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	4	99	3992	0	1	7	67	1	0	5	2	0	0	0	16	0	0	0	0	0
Si\Al-rich	678	119	3312	0	4	21	55	0	0	7	4	0	0	0	8	0	0	0	0	0
Si-rich	37	97	3015	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	43	131	4334	2	0	5	80	0	0	11	1	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	155	185	3871	1	1	7	65	0	0	8	4	0	0	0	0	0	0	0	0	14
Ca-rich	173	107	2323	0	1	1	5	0	0	0	91	0	0	0	1	0	0	0	0	0
Other	878	160	2701	0	3	5	33	2	10	0	7	9	0	0	26	1	0	0	3	1
Totals	1968	139	3001	0	3	11	42	1	4	3	14	4	0	0	14	1	0	0	2	1

Client_Name PTI Environ
Client_Number TOCA-1-B0
Project_Number CER403476
Sample_Number 609644

Fields	Particles	Area
463.4314	44	91.5649
330.2389	1388	7.2499

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	365	25.49	26.16	17.42	13939.6
Glass, Hi Pb	3	0.21	0.22	0.12	99.2
Ca-rich	120	8.38	8.62	6.69	5354.5
Other	944	65.92	65.00	75.76	60625.1
Totals	1432	100.00	100.00	100.00	80018.5

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	4598	0	4420	164	13	1	0	0	0	0	0
Glass, Hi Pb	38	0	38	0	0	0	0	0	0	0	0
Ca-rich	1516	0	1465	38	13	0	0	0	0	0	0
Other	11423	0	9889	1225	265	42	1	0	0	0	0
Totals	17574	0	15813	1427	290	43	1	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	26.2	0.0	96.1	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	8.6	0.0	96.7	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Other	65.0	0.0	86.6	10.7	2.3	0.4	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	90.0	8.1	1.7	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TOCA-1-B0
Project_Number CER403476
Sample_Number 609644

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	17.4	0.0	84.0	12.6	2.7	0.8	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	6.7	0.0	83.0	8.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0
Other	75.8	0.0	46.4	24.0	19.3	9.4	0.9	0.0	0.0	0.0	0.0
Totals	100.0	0.0	55.4	21.0	15.7	7.2	0.7	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	365	160	3184	0	5	19	50	1	0	4	7	1	0	0	11	0	0	0	1	0
Glass, Hi Pb	3	212	3657	2	3	7	56	0	0	10	4	0	0	0	1	0	0	0	0	17
Ca-rich	120	154	2581	0	0	1	3	4	0	1	91	0	0	0	0	0	0	0	0	0
Other	944	174	2871	0	3	11	31	1	3	0	5	17	0	0	20	0	0	0	7	0
Totals	1432	169	2929	0	3	12	34	1	2	1	13	11	0	0	16	0	0	0	5	0

Client_Name PTI Environ
Client_Number TOCA-2-B0
Project_Number CER403476
Sample_Number 609645

Fields	Particles	Area
324.0137	69	64.0187
65.1482	1892	1.4302

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	1154	58.85	60.89	55.74	208901.7
Si-rich	113	5.76	5.97	3.56	13334.4
Glass, Lo Pb	12	0.61	0.63	0.37	1386.6
Glass, Hi Pb	2	0.10	0.05	0.19	697.4
Ca-rich	7	0.36	0.32	0.20	733.7
Other	673	34.32	32.13	39.95	149707.7
Totals	1961	100.00	100.00	100.00	374761.4

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	51611	0	46820	4655	134	1	0	0	0	0	0
Si-rich	5058	0	5058	0	0	0	0	0	0	0	0
Glass, Lo Pb	537	0	537	0	0	0	0	0	0	0	0
Glass, Hi Pb	46	0	45	0	0	0	1	0	0	0	0
Ca-rich	270	0	269	0	0	1	0	0	0	0	0
Other	27236	0	22873	3626	671	59	7	0	0	0	0
Totals	84758	0	75602	8281	806	61	8	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	60.9	0.0	90.7	9.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	6.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.1	0.0	97.8	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
Ca-rich	0.3	0.0	99.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Other	32.1	0.0	84.0	13.3	2.5	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	89.2	9.8	1.0	0.1	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TOCA-2-B0
Project_Number CER403476
Sample_Number 609645

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	55.7	0.0	70.5	26.2	3.3	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	3.6	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.2	0.0	9.2	0.0	0.0	0.0	90.8	0.0	0.0	0.0	0.0
Ca-rich	0.2	0.0	78.9	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0
Other	39.9	0.0	44.0	29.8	18.2	5.7	2.4	0.0	0.0	0.0	0.0
Totals	100.0	0.0	60.9	26.5	9.1	2.4	1.1	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	1154	157	3359	0	2	23	56	0	0	8	1	1	0	0	8	0	0	0	0	0
Si-rich	113	149	3049	0	0	1	99	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	12	153	5803	0	0	9	83	0	0	4	0	2	0	0	1	0	0	0	1	0
Glass, Hi Pb	2	199	2588	6	0	4	59	0	3	10	4	0	0	0	0	0	0	0	0	14
Ca-rich	7	160	2377	0	23	1	7	5	0	0	63	0	0	0	0	0	0	0	0	0
Other	673	178	3085	0	2	12	41	1	4	1	2	15	0	0	14	0	0	0	6	0
Totals	1961	163	3264	0	2	18	54	0	2	5	2	5	0	0	9	0	0	0	2	0

Client_Name PTI Environ
Client_Number COCA-1-6
Project_Number CER403476
Sample_Number 609646

Fields	Particles	Area
160.9948	273	31.8094
25.7427	2208	0.5651

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	703	28.34	29.90	45.67	409992.7
Si-rich	959	38.65	43.34	27.54	247254.8
Glass, Lo Pb	9	0.36	0.10	0.19	1749.8
Glass, Hi Pb	3	0.12	0.05	0.04	314.4
Ca-rich	578	23.30	20.04	20.55	184487.9
Other	229	9.23	6.58	6.02	54010.1
Totals	2481	100.00	100.00	100.00	897809.8

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	37247	0	21276	11313	4615	38	4	0	0	0	0
Si-rich	53978	0	49926	4053	0	0	0	0	0	0	0
Glass, Lo Pb	120	0	113	0	0	6	1	0	0	0	0
Glass, Hi Pb	58	0	56	0	0	2	0	0	0	0	0
Ca-rich	24959	0	19419	4559	844	120	17	0	0	0	0
Other	8190	0	6923	1069	113	78	5	2	0	0	0
Totals	124552	0	97712	20995	5572	244	27	2	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	29.9	0.0	57.1	30.4	12.4	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	43.3	0.0	92.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.1	0.0	94.1	0.0	0.0	5.0	0.8	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.0	0.0	96.6	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
Ca-rich	20.0	0.0	77.8	18.3	3.4	0.5	0.1	0.0	0.0	0.0	0.0
Other	6.6	0.0	84.5	13.1	1.4	1.0	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	78.5	16.9	4.5	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number COCA-1-6
Project_Number CER403476
Sample_Number 609646

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	45.7	0.0	20.4	39.8	37.8	1.4	0.6	0.0	0.0	0.0	0.0
Si-rich	27.5	0.0	84.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.2	0.0	11.6	0.0	0.0	57.6	30.7	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.0	0.0	23.8	0.0	0.0	76.2	0.0	0.0	0.0	0.0	0.0
Ca-rich	20.5	0.0	37.5	30.8	16.9	9.8	5.1	0.0	0.0	0.0	0.0
Other	6.0	0.0	33.8	23.3	5.2	21.7	4.5	11.4	0.0	0.0	0.0
Totals	100.0	0.0	42.2	30.3	21.1	4.1	1.6	0.7	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	703	155	3861	1	0	21	63	0	0	13	1	0	0	0	1	0	0	0	0	0
Si-rich	959	150	3021	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	9	153	5859	0	0	8	86	0	0	5	0	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	3	202	3108	8	3	3	55	0	4	9	3	0	0	0	0	0	0	0	0	15
Ca-rich	578	156	2323	0	16	0	3	0	0	0	80	0	0	0	0	0	0	0	0	0
Other	229	167	2672	0	2	5	50	0	11	0	8	2	0	0	19	0	0	0	1	1
Totals	2481	154	3112	0	4	7	66	0	1	4	17	0	0	0	2	0	0	0	0	0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 3-6
Project_Number CEH402376
Sample_Number 609647

Fields	Particles	Area
463.5264	47	91.5837
353.3841	1342	7.7580

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	196	14.11	14.56	6.88	5381.2
Si-rich	4	0.29	0.30	0.07	53.8
Glass, Hi Pb	6	0.43	0.45	0.64	497.4
Ca-rich	102	7.34	7.51	10.65	8327.7
Other	1081	77.83	77.19	81.76	63907.1
Totals	1389	100.00	100.00	100.00	78167.3

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	2314	0	2302	12	0	0	0	0	0	0	0
Si-rich	47	0	47	0	0	0	0	0	0	0	0
Glass, Hi Pb	71	0	47	24	0	0	0	0	0	0	0
Ca-rich	1193	0	956	165	71	0	1	0	0	0	0
Other	12264	0	10813	1062	342	44	2	0	0	0	0
Totals	15889	0	14166	1263	413	44	3	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	14.6	0.0	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.4	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	7.5	0.0	80.1	13.8	5.9	0.0	0.1	0.0	0.0	0.0	0.0
Other	77.2	0.0	88.2	8.7	2.8	0.4	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	89.2	7.9	2.6	0.3	0.0	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 3-6
Project_Number CEH402376
Sample_Number 609647

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	6.9	0.0	98.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.6	0.0	36.6	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	10.7	0.0	35.9	24.6	33.5	0.0	6.0	0.0	0.0	0.0	0.0
Other	81.8	0.0	45.8	20.2	22.9	9.4	1.7	0.0	0.0	0.0	0.0
Totals	100.0	0.0	48.3	19.6	22.3	7.7	2.1	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	196	167	2948	0	4	20	49	1	0	2	8	1	0	0	13	0	0	0	1	0
Si-rich	4	230	1814	0	0	0	98	0	0	0	0	0	0	0	0	0	2	0	0	0
Glass, Hi Pb	6	213	4002	2	1	7	65	0	0	8	2	0	0	0	0	0	0	0	0	14
Ca-rich	102	159	3012	0	0	0	2	27	0	0	69	0	0	0	1	0	0	0	0	0
Other	1081	179	2610	0	2	9	26	2	2	1	3	24	0	0	22	1	1	0	8	0
Totals	1389	176	2693	0	2	10	28	4	1	1	9	19	0	0	19	0	1	0	6	0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 4-6
Project_Number CEH402376
Sample_Number 648

Fields	Particles	Area
419.3456	63	82.8544
164.1223	1608	3.6030

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	593	35.49	36.84	23.41	40269.6
Glass, Lo Pb	79	4.73	4.79	5.51	9485.6
Glass, Hi Pb	134	8.02	7.08	13.42	23091.1
Ca-rich	99	5.92	6.15	3.73	6419.2
Other	766	45.84	45.15	53.93	92776.9
Totals	1671	100.00	100.00	100.00	172042.5

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	13636	0	13154	483	0	0	0	0	0	0	0
Glass, Lo Pb	1773	0	1472	299	0	2	0	0	0	0	0
Glass, Hi Pb	2620	0	1909	529	161	19	2	0	0	0	0
Ca-rich	2277	0	2208	69	0	0	0	0	0	0	0
Other	16713	0	14165	1863	644	37	4	0	0	0	0
Totals	37018	0	32907	3242	805	58	6	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	36.8	0.0	96.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	4.8	0.0	83.0	16.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	7.1	0.0	72.9	20.2	6.1	0.7	0.1	0.0	0.0	0.0	0.0
Ca-rich	6.1	0.0	97.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	45.1	0.0	84.8	11.1	3.9	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	88.9	8.8	2.2	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 4-6
Project_Number CEH402376
Sample_Number 648

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	23.4	0.0	87.4	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	5.5	0.0	60.8	36.4	0.0	2.8	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	13.4	0.0	24.7	31.0	27.4	13.2	3.7	0.0	0.0	0.0	0.0
Ca-rich	3.7	0.0	86.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	53.9	0.0	40.5	25.5	25.6	5.7	2.6	0.0	0.0	0.0	0.0
Totals	100.0	0.0	52.2	23.4	17.5	5.0	1.9	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	593	163	2719	0	8	22	47	0	0	2	8	0	0	0	12	0	0	0	1	1
Glass, Lo Pb	79	157	4546	4	0	5	77	0	0	13	0	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	134	205	3798	1	1	7	62	0	1	9	4	0	0	0	0	0	0	0	0	15
Ca-rich	99	153	2210	0	0	0	3	2	1	0	92	0	0	0	1	0	0	0	0	0
Other	766	186	2127	0	1	7	20	2	12	0	4	12	1	0	32	1	1	0	5	1
Totals	1671	175	2584	0	4	12	35	1	6	2	11	5	0	0	19	0	0	0	2	2

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 5-6
Project_Number CEH402376
Sample_Number 649

Fields	Particles	Area
316.1032	112	62.4557
81.0000	1820	1.7782

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	2	0.10	0.11	0.05	165.6
Si\Al-rich	938	48.55	50.28	44.98	150998.3
Si-rich	21	1.09	1.15	0.43	1445.8
Glass, Lo Pb	53	2.74	2.43	4.52	15166.7
Glass, Hi Pb	52	2.69	1.84	4.96	16645.3
Ca-rich	333	17.24	18.26	14.45	48518.8
Other	533	27.59	25.93	30.61	102768.6
Totals	1932	100.00	100.00	100.00	335709.1

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	70	0	70	0	0	0	0	0	0	0	0
Si\Al-rich	32194	0	28414	3337	421	22	0	0	0	0	0
Si-rich	738	0	738	0	0	0	0	0	0	0	0
Glass, Lo Pb	1554	0	1019	386	140	9	0	0	0	0	0
Glass, Hi Pb	1178	0	738	281	140	19	0	0	0	0	0
Ca-rich	11696	0	10888	773	35	0	0	0	0	0	0
Other	16605	0	14154	1861	527	55	7	0	0	0	0
Totals	64035	0	56021	6638	1264	105	7	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	50.3	0.0	88.3	10.4	1.3	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	1.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	2.4	0.0	65.5	24.9	9.0	0.6	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.8	0.0	62.6	23.9	11.9	1.6	0.0	0.0	0.0	0.0	0.0
Ca-rich	18.3	0.0	93.1	6.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Other	25.9	0.0	85.2	11.2	3.2	0.3	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	87.5	10.4	2.0	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 5-6
Project_Number CEH402376
Sample_Number 649

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	45.0	0.0	59.8	27.2	10.8	2.2	0.0	0.0	0.0	0.0	0.0
Si-rich	0.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	4.5	0.0	24.3	31.7	35.4	8.6	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	5.0	0.0	16.6	20.6	44.3	18.4	0.0	0.0	0.0	0.0	0.0
Ca-rich	14.5	0.0	81.1	16.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Other	30.6	0.0	38.1	21.9	25.5	7.6	6.8	0.0	0.0	0.0	0.0
Totals	100.0	0.0	52.7	23.8	16.8	4.6	2.1	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	2	146	4331	0	0	8	71	0	0	3	3	4	0	8	0	0	0	0	2	0
Si\Al-rich	938	161	2902	0	3	22	55	0	0	9	2	0	0	0	7	0	0	0	0	0
Si-rich	21	149	3035	0	0	1	98	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	53	169	4290	3	0	6	77	0	0	11	1	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	52	222	3890	1	1	7	61	0	1	10	3	0	0	0	0	0	0	0	1	15
Ca-rich	333	154	2172	0	0	1	3	1	0	0	95	0	0	0	0	0	0	0	0	0
Other	533	180	2165	0	2	10	32	1	5	1	5	10	0	1	27	0	0	0	5	1
Totals	1932	166	2633	0	2	14	41	0	2	5	20	3	0	0	11	0	0	0	1	1

Client_Name PTI Environ.
Client_Number COCA 6-6A
Project_Number CEH402376
Sample_Number 609650

Fields	Particles	Area
44.5500	315	8.8022
12.4489	2022	0.2733

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	5	0.21	0.20	0.20	1171.9
Si\Al-rich	934	39.97	40.53	32.30	185095.0
Si-rich	745	31.88	31.56	42.86	245600.3
Glass, Lo Pb	17	0.73	0.74	0.73	4203.4
Glass, Hi Pb	63	2.70	2.67	3.21	18373.2
Ca-rich	144	6.16	4.61	7.08	40551.6
Other	429	18.36	19.68	13.61	78012.7
Totals	2337	100.00	100.00	100.00	573008.1

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	130	0	64	64	0	1	0	0	0	0	0
Si\Al-rich	26524	0	21837	3414	1160	99	14	0	0	0	0
Si-rich	20655	0	10822	6764	2963	106	1	0	0	0	0
Glass, Lo Pb	485	0	354	97	32	2	0	0	0	0	0
Glass, Hi Pb	1748	0	1031	548	161	9	0	0	0	0	0
Ca-rich	3015	0	1836	902	225	48	4	0	0	0	0
Other	12881	0	10725	1675	451	28	2	0	0	0	0
Totals	65439	0	46669	13463	4993	293	21	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	49.6	49.6	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	40.5	0.0	82.3	12.9	4.4	0.4	0.1	0.0	0.0	0.0	0.0
Si-rich	31.6	0.0	52.4	32.7	14.3	0.5	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.7	0.0	73.0	19.9	6.6	0.4	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	2.7	0.0	59.0	31.3	9.2	0.5	0.0	0.0	0.0	0.0	0.0
Ca-rich	4.6	0.0	60.9	29.9	7.5	1.6	0.1	0.0	0.0	0.0	0.0
Other	19.7	0.0	83.3	13.0	3.5	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	71.3	20.6	7.6	0.4	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ.
Client_Number COCA 6-6A
Project_Number CEH402376
Sample_Number 609650

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	32.0	61.3	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	32.3	0.0	35.3	24.6	27.1	7.6	5.4	0.0	0.0	0.0	0.0
Si-rich	42.9	0.0	17.2	35.3	42.1	5.3	0.2	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.7	0.0	26.1	36.7	30.8	6.4	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	3.2	0.0	21.0	41.0	30.8	7.2	0.0	0.0	0.0	0.0	0.0
Ca-rich	7.1	0.0	18.9	32.0	25.6	17.8	5.7	0.0	0.0	0.0	0.0
Other	13.6	0.0	42.1	27.8	23.9	4.3	1.9	0.0	0.0	0.0	0.0
Totals	100.0	0.0	26.8	30.8	33.1	6.9	2.5	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	5	168	6888	0	0	9	88	0	0	4	0	0	0	0	0	0	0	0	0	0
Si\Al-rich	934	171	3724	1	3	22	60	0	0	4	2	0	0	0	6	0	0	0	0	1
Si-rich	745	159	3016	0	0	1	99	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	17	200	5062	2	0	7	81	0	0	7	2	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	63	234	4723	1	1	7	64	0	1	8	3	0	0	0	0	0	0	0	0	15
Ca-rich	144	167	2485	0	20	2	8	1	0	0	69	0	0	0	0	0	0	0	0	0
Other	429	176	3371	0	2	9	72	1	1	0	3	3	0	0	6	0	0	0	1	2
Totals	2337	170	3417	0	2	11	73	0	0	2	5	1	0	0	4	0	0	0	0	1

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 7-6
Project_Number CEH402376
Sample_Number 651

Fields	Particles	Area
208.9796	341	41.2902
164.8306	1561	3.6186

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	586	30.81	32.65	27.08	47467.2
Si-rich	21	1.10	1.32	0.45	787.6
Glass, Lo Pb	33	1.74	1.16	3.45	6044.6
Glass, Hi Pb	138	7.26	6.84	10.64	18643.3
Ca-rich	129	6.78	5.59	9.39	16460.8
Other	995	52.31	52.45	49.00	85892.4
Totals	1902	100.00	100.00	100.00	175295.8

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	5927	0	4838	765	251	67	6	0	0	0	0
Si-rich	240	0	240	0	0	0	0	0	0	0	0
Glass, Lo Pb	210	0	114	23	57	15	1	0	0	0	0
Glass, Hi Pb	1242	0	833	228	148	27	5	0	0	0	0
Ca-rich	1014	0	662	240	68	40	4	0	0	0	0
Other	9521	0	7440	1518	388	166	10	0	0	0	0
Totals	18153	0	14126	2773	913	315	26	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	32.6	0.0	81.6	12.9	4.2	1.1	0.1	0.0	0.0	0.0	0.0
Si-rich	1.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.2	0.0	54.3	10.9	27.2	7.1	0.5	0.0	0.0	0.0	0.0
Glass, Hi Pb	6.8	0.0	67.1	18.4	11.9	2.2	0.4	0.0	0.0	0.0	0.0
Ca-rich	5.6	0.0	65.3	23.6	6.8	3.9	0.4	0.0	0.0	0.0	0.0
Other	52.5	0.0	78.1	15.9	4.1	1.7	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	77.8	15.3	5.0	1.7	0.1	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 7-6
Project_Number CEH402376
Sample_Number 651

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	27.1	0.0	32.7	20.1	20.2	20.8	6.1	0.0	0.0	0.0	0.0
Si-rich	0.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	3.4	0.0	10.1	5.8	31.2	37.2	15.8	0.0	0.0	0.0	0.0
Glass, Hi Pb	10.6	0.0	12.8	16.1	34.4	23.8	12.9	0.0	0.0	0.0	0.0
Ca-rich	9.4	0.0	13.8	19.5	16.3	38.6	11.9	0.0	0.0	0.0	0.0
Other	49.0	0.0	23.7	22.5	17.1	29.4	7.3	0.0	0.0	0.0	0.0
Totals	100.0	0.0	23.9	20.2	20.1	27.5	8.3	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	586	163	2716	0	5	22	52	0	1	5	4	0	0	0	10	0	0	0	1	1
Si-rich	21	148	3050	0	0	1	99	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	33	166	4261	5	0	4	79	0	0	10	1	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	138	215	3936	1	1	7	63	0	1	8	3	0	0	0	0	0	0	0	0	15
Ca-rich	129	159	2027	0	3	1	5	4	0	0	85	0	0	0	1	0	0	0	0	0
Other	995	185	2203	0	1	8	25	1	12	1	4	15	0	0	24	0	0	0	7	2
Totals	1902	178	2514	0	3	12	37	1	7	2	8	8	0	0	16	0	0	0	4	3

Client_Name PTI Environ.
Client_Number COCA 6-6B
Project_Number CEH402376
Sample_Number 609652

Fields	Particles	Area
32.7866	500	6.4780
14.9424	1955	0.3280

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	6	0.24	0.30	0.13	514.3
Si\Al-rich	1065	43.38	48.46	33.70	138146.9
Si-rich	728	29.65	22.38	39.45	161725.0
Glass, Lo Pb	15	0.61	0.76	0.35	1431.6
Glass, Hi Pb	39	1.59	1.68	1.64	6712.2
Ca-rich	126	5.13	4.01	10.88	44600.5
Other	476	19.39	22.41	13.87	56844.1
Totals	2455	100.00	100.00	100.00	409974.6

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	118	0	118	0	0	0	0	0	0	0	0
Si\Al-rich	18950	0	15581	2666	592	98	12	0	1	0	0
Si-rich	8752	0	3693	3199	1560	295	5	0	0	0	0
Glass, Lo Pb	296	0	257	39	0	0	0	0	0	0	0
Glass, Hi Pb	658	0	454	79	118	6	0	0	0	0	0
Ca-rich	1570	0	829	454	237	41	7	0	1	0	0
Other	8763	0	7386	1027	316	27	6	1	0	0	0
Totals	39107	0	28318	7465	2824	467	30	1	2	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	48.5	0.0	82.2	14.1	3.1	0.5	0.1	0.0	0.0	0.0	0.0
Si-rich	22.4	0.0	42.2	36.6	17.8	3.4	0.1	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.8	0.0	86.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.7	0.0	69.1	12.0	18.0	0.9	0.0	0.0	0.0	0.0	0.0
Ca-rich	4.0	0.0	52.8	28.9	15.1	2.6	0.4	0.0	0.1	0.0	0.0
Other	22.4	0.0	84.3	11.7	3.6	0.3	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	72.4	19.1	7.2	1.2	0.1	0.0	0.0	0.0	0.0

Client_Name PTI Environ.
Client_Number COCA 6-6B
Project_Number CEH402376
Sample_Number 609652

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	33.7	0.0	36.0	26.0	14.3	10.6	6.4	0.0	6.7	0.0	0.0
Si-rich	39.4	0.0	9.7	26.5	38.2	24.4	1.2	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	55.3	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.6	0.0	17.6	15.3	58.0	9.1	0.0	0.0	0.0	0.0	0.0
Ca-rich	10.9	0.0	7.8	14.3	24.7	14.0	8.1	0.0	31.1	0.0	0.0
Other	13.9	0.0	42.3	21.8	18.0	6.8	6.9	4.1	0.0	0.0	0.0
Totals	100.0	0.0	23.3	24.2	26.0	15.8	4.5	0.6	5.6	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	6	164	5304	0	0	9	87	0	0	3	0	0	0	0	1	0	0	0	0	0
Si\Al-rich	1065	166	3777	0	2	22	61	0	0	5	2	0	0	0	6	0	0	0	0	0
Si-rich	728	163	3012	0	0	1	99	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	15	189	4985	2	0	6	80	0	0	9	2	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	39	222	4693	2	1	7	64	0	1	7	3	0	0	0	0	0	0	0	0	14
Ca-rich	126	167	2598	0	16	3	10	0	0	1	71	0	0	0	0	0	0	0	0	0
Other	476	175	3434	0	2	9	71	0	2	0	5	3	0	0	6	0	0	0	1	0
Totals	2455	168	3511	0	2	13	70	0	1	3	5	1	0	0	4	0	0	0	0	1

Client_Name PTI Environ
Client_Number COCA 8-6
Project_Number CEH402376
Sample_Number 609653

Fields	Particles	Area
536.0485	16	105.9126
418.7690	1219	9.1934

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	1	0.08	0.08	0.02	14.4
Si\Al-rich	148	11.98	12.13	7.67	5205.7
Si-rich	1	0.08	0.08	0.01	9.9
Glass, Lo Pb	1	0.08	0.08	0.04	28.5
Glass, Hi Pb	6	0.49	0.49	0.53	360.4
Ca-rich	24	1.94	1.97	1.42	962.2
Other	1054	85.34	85.17	90.30	61259.7
Totals	1235	100.00	100.00	100.00	67840.7

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	12	0	12	0	0	0	0	0	0	0	0
Si\Al-rich	1705	0	1670	35	0	0	0	0	0	0	0
Si-rich	12	0	12	0	0	0	0	0	0	0	0
Glass, Lo Pb	12	0	12	0	0	0	0	0	0	0	0
Glass, Hi Pb	69	0	46	23	0	0	0	0	0	0	0
Ca-rich	276	0	242	35	0	0	0	0	0	0	0
Other	11974	0	10299	1336	323	15	1	0	0	0	0
Totals	14060	0	12292	1429	323	15	1	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	12.1	0.0	98.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.5	0.0	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	2.0	0.0	87.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	85.2	0.0	86.0	11.2	2.7	0.1	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	87.4	10.2	2.3	0.1	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number COCA 8-6
Project_Number CEH402376
Sample_Number 609653

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	7.7	0.0	93.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.5	0.0	43.9	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	1.4	0.0	56.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	90.3	0.0	44.8	28.7	21.8	3.9	0.8	0.0	0.0	0.0	0.0
Totals	100.0	0.0	48.8	27.4	19.7	3.5	0.7	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	1	254	1053	0	0	0	83	4	0	13	0	0	0	0	0	0	0	0	0	0
Si\Al-rich	148	161	1801	0	8	18	47	1	1	1	8	1	0	0	16	0	0	0	0	0
Si-rich	1	254	942	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	1	163	2254	0	0	7	78	0	0	15	0	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	6	215	2668	4	2	8	57	0	0	8	3	0	0	0	0	0	0	0	0	17
Ca-rich	24	160	1720	0	0	1	3	19	1	0	73	1	0	0	2	0	1	0	0	0
Other	1054	182	1611	0	2	6	18	1	17	1	3	18	0	0	31	0	0	0	1	3
Totals	1235	179	1641	0	2	7	22	1	14	1	5	15	0	0	29	0	0	0	1	3

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 9-6
Project_Number CEH402376
Sample_Number 609654

Fields	Particles	Area
466.4868	35	92.1686
326.4293	1262	7.1662

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	201	15.50	15.89	8.83	5910.4
Glass, Lo Pb	3	0.23	0.16	0.50	333.0
Glass, Hi Pb	7	0.54	0.48	2.38	1593.6
Ca-rich	18	1.39	1.20	2.52	1687.5
Other	1068	82.34	82.26	85.77	57396.8
Totals	1297	100.00	100.00	100.00	66921.3

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	2585	0	2521	51	13	0	0	0	0	0	0
Glass, Lo Pb	27	0	26	0	0	1	0	0	0	0	0
Glass, Hi Pb	78	0	26	26	26	1	0	0	0	0	0
Ca-rich	196	0	167	26	0	3	0	0	0	0	0
Other	13380	0	12051	1055	244	30	0	0	0	0	0
Totals	16266	0	14791	1158	283	35	0	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	15.9	0.0	97.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.2	0.0	96.3	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	0.5	0.0	32.9	32.9	32.9	1.3	0.0	0.0	0.0	0.0	0.0
Ca-rich	1.2	0.0	85.3	13.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Other	82.3	0.0	90.1	7.9	1.8	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	90.9	7.1	1.7	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI ENVIRONMENTAL
Client_Number COCA 9-6
Project_Number CEH402376
Sample_Number 609654

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	8.8	0.0	85.8	8.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.5	0.0	61.4	0.0	0.0	38.6	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	2.4	0.0	4.8	20.6	64.0	10.6	0.0	0.0	0.0	0.0	0.0
Ca-rich	2.5	0.0	39.4	23.6	0.0	37.0	0.0	0.0	0.0	0.0	0.0
Other	85.8	0.0	52.3	23.1	17.0	7.5	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	53.8	21.7	16.6	7.8	0.0	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int.	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	201	189	2990	0	3	19	51	4	2	2	3	3	0	0	8	0	0	0	2	2
Glass, Lo Pb	3	162	4805	7	0	8	72	0	0	10	3	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	7	213	4684	2	2	9	59	0	0	8	4	0	0	0	0	0	0	0	0	17
Ca-rich	18	156	3266	0	0	1	4	36	0	0	59	0	0	0	0	0	0	0	0	0
Other	1068	179	2844	0	1	11	23	2	2	1	1	37	0	0	17	0	0	0	3	1
Totals	1297	180	2884	0	1	13	28	2	2	1	2	31	0	0	16	0	0	0	3	1

Client_Name PTI Environ
Client_Number COCA 10-6
Project_Number CEH402376
Sample_Number 609655

Fields	Particles	Area
113.4001	209	22.4056
27.6106	1743	0.6061

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	1	0.05	0.06	0.05	211.1
Si\Al-rich	1008	51.64	55.70	49.08	189633.5
Si-rich	6	0.31	0.34	0.11	414.6
Glass, Lo Pb	38	1.95	1.73	2.22	8563.0
Glass, Hi Pb	262	13.42	11.53	19.70	76121.3
Ca-rich	131	6.71	5.43	7.83	30235.5
Other	506	25.92	25.21	21.01	81169.5
Totals	1952	100.00	100.00	100.00	386348.4

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	37	0	37	0	0	0	0	0	0	0	0
Si\Al-rich	36001	0	30126	4768	1072	35	0	0	0	0	0
Si-rich	222	0	222	0	0	0	0	0	0	0	0
Glass, Lo Pb	1117	0	776	296	37	8	0	0	0	0	0
Glass, Hi Pb	7455	0	4288	2403	702	61	1	0	0	0	0
Ca-rich	3512	0	2846	591	37	27	10	0	0	0	0
Other	16294	0	13972	1811	444	65	2	0	0	0	0
Totals	64637	0	52267	9869	2292	196	13	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	55.7	0.0	83.7	13.2	3.0	0.1	0.0	0.0	0.0	0.0	0.0
Si-rich	0.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	1.7	0.0	69.5	26.5	3.3	0.7	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	11.5	0.0	57.5	32.2	9.4	0.8	0.0	0.0	0.0	0.0	0.0
Ca-rich	5.4	0.0	81.1	16.8	1.1	0.8	0.3	0.0	0.0	0.0	0.0
Other	25.2	0.0	85.8	11.1	2.7	0.4	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	80.9	15.3	3.5	0.3	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number COCA 10-6
Project_Number CEH402376
Sample_Number 609655

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	49.1	0.0	48.2	31.1	18.5	2.2	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	2.2	0.0	33.3	42.8	11.9	11.9	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	19.7	0.0	18.7	40.8	29.6	10.2	0.7	0.0	0.0	0.0	0.0
Ca-rich	7.8	0.0	29.1	26.2	3.2	15.3	26.3	0.0	0.0	0.0	0.0
Other	21.0	0.0	41.2	26.5	19.5	10.4	2.3	0.0	0.0	0.0	0.0
Totals	100.0	0.0	39.2	31.9	19.5	6.7	2.7	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	1	240	2987	0	0	6	85	0	0	9	0	0	0	0	0	0	0	0	0	0
Si\Al-rich	1008	158	3098	0	8	23	49	0	0	2	5	0	0	0	12	0	0	0	0	1
Si-rich	6	134	3020	0	0	1	98	1	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	38	170	4688	3	0	5	78	0	0	11	2	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	262	210	4432	1	1	7	63	0	0	8	4	0	0	0	0	0	0	0	0	15
Ca-rich	131	143	2314	0	1	1	5	0	0	0	91	0	0	0	0	0	0	0	0	0
Other	506	193	2711	0	3	9	33	1	9	0	5	9	0	0	21	3	1	0	5	2
Totals	1952	172	3139	0	6	16	45	0	3	2	10	2	0	0	12	1	0	0	1	3

Client_Name PTI
Client_Number COCA 11-6
Project_Number CEH402376
Sample_Number 609656

Fields	Particles	Area
466.9489	41	92.2599
190.2218	1736	4.1760

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	287	16.15	16.29	14.39	26044.6
Si-rich	2	0.11	0.12	0.07	118.0
Ca-rich	714	40.18	40.76	29.89	54080.1
Other	774	43.56	42.83	55.65	100705.0
Totals	1777	100.00	100.00	100.00	180947.7

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	6256	0	5833	398	22	3	1	0	0	0	0
Si-rich	44	0	44	0	0	0	0	0	0	0	0
Ca-rich	15648	0	15089	508	44	5	1	0	0	0	0
Other	16446	0	13278	2651	486	30	1	0	0	0	0
Totals	38394	0	34244	3557	552	38	3	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	16.3	0.0	93.2	6.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	40.8	0.0	96.4	3.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Other	42.8	0.0	80.7	16.1	3.0	0.2	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	89.2	9.3	1.4	0.1	0.0	0.0	0.0	0.0	0.0

Client_Name PTI
Client_Number COCA 11-6
Project_Number CEH402376
Sample_Number 609656

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	14.4	0.0	77.6	17.1	2.1	1.5	1.7	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	29.9	0.0	86.3	9.3	2.4	1.3	0.7	0.0	0.0	0.0	0.0
Other	55.7	0.0	43.2	33.3	18.3	4.4	0.7	0.0	0.0	0.0	0.0
Totals	100.0	0.0	61.1	23.8	11.2	3.1	0.9	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	287	152	2837	0	4	21	54	0	0	9	3	1	0	0	8	0	0	0	0	0
Si-rich	2	145	3018	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Ca-rich	714	150	1927	0	0	0	3	1	0	0	95	0	0	0	0	0	0	0	0	0
Other	774	164	2547	0	8	8	39	0	0	1	13	12	0	0	14	0	0	0	4	0
Totals	1777	157	2342	0	4	7	27	1	0	2	45	5	0	0	7	0	0	0	2	0

Client_Name PTI
Client_Number COCA 12-6
Project_Number CEH402376
Sample_Number 609657

Fields	Particles	Area
353.1839	85	69.7822
140.8050	1720	3.0911

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	788	43.66	45.27	42.34	94479.3
Si-rich	22	1.22	1.28	0.78	1743.9
Glass, Lo Pb	5	0.28	0.23	0.26	574.1
Glass, Hi Pb	30	1.66	1.46	1.72	3834.0
Ca-rich	204	11.30	11.39	12.18	27179.0
Other	756	41.88	40.36	42.73	95351.7
Totals	1805	100.00	100.00	100.00	223162.0

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	17616	0	14290	3025	293	8	0	0	0	0	0
Si-rich	497	0	497	0	0	0	0	0	0	0	0
Glass, Lo Pb	91	0	68	23	0	1	0	0	0	0	0
Glass, Hi Pb	569	0	451	113	0	4	1	0	0	0	0
Ca-rich	4433	0	3409	948	68	8	0	0	0	0	0
Other	15707	0	12935	2077	632	58	5	0	0	0	0
Totals	38914	0	31650	6186	993	79	6	0	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	45.3	0.0	81.1	17.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	1.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.2	0.0	74.2	24.7	0.0	1.1	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.5	0.0	79.3	19.8	0.0	0.7	0.2	0.0	0.0	0.0	0.0
Ca-rich	11.4	0.0	76.9	21.4	1.5	0.2	0.0	0.0	0.0	0.0	0.0
Other	40.4	0.0	82.4	13.2	4.0	0.4	0.0	0.0	0.0	0.0	0.0
Totals	100.0	0.0	81.3	15.9	2.6	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI
Client_Number COCA 12-6
Project_Number CEH402376
Sample_Number 609657

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	42.3	0.0	49.5	38.1	11.2	1.2	0.0	0.0	0.0	0.0	0.0
Si-rich	0.8	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	35.4	44.8	0.0	19.8	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.7	0.0	38.1	35.6	0.0	14.8	11.5	0.0	0.0	0.0	0.0
Ca-rich	12.2	0.0	46.9	42.0	7.6	3.5	0.0	0.0	0.0	0.0	0.0
Other	42.7	0.0	37.5	26.4	25.9	7.6	2.5	0.0	0.0	0.0	0.0
Totals	100.0	0.0	44.2	33.3	16.7	4.5	1.3	0.0	0.0	0.0	0.0

Average Composition

Classes	#	Int.	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	788	159	2603	0	4	23	53	0	0	7	2	1	0	0	10	0	0	0	0	0
Si-rich	22	143	3030	0	0	2	98	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	5	171	4122	2	0	8	79	0	0	9	2	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	30	216	3821	1	1	9	64	0	0	8	4	0	0	0	0	0	0	0	0	13
Ca-rich	204	154	2018	0	1	3	12	1	0	1	82	0	0	0	0	0	0	0	0	0
Other	756	181	2277	0	2	13	30	1	1	1	3	19	0	0	22	0	0	0	7	0
Totals	1805	168	2432	0	3	16	40	1	0	4	12	8	0	0	13	0	0	0	3	0

Client_Name PTI ENVIROMENTAL
Client_Number COCA 99-6
Project_Number CEH402376
Sample_Number 609658

Fields	Particles	Area
216.2696	352	42.7306
124.7735	1516	2.7392

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Removed	3	0.16	0.19	0.12	345.2
Si\Al-rich	481	25.75	27.61	21.16	59495.9
Si-rich	4	0.21	0.26	0.03	91.4
Glass, Lo Pb	9	0.48	0.46	0.25	713.6
Glass, Hi Pb	35	1.87	2.09	1.80	5057.7
Ca-rich	269	14.40	15.54	10.04	28216.0
Other	1067	57.12	53.84	66.59	187218.4
Totals	1868	100.00	100.00	100.00	281138.2

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	47	0	16	31	0	0	0	0	0	0	0
Si\Al-rich	6627	0	4820	1388	359	56	4	0	0	0	0
Si-rich	62	0	62	0	0	0	0	0	0	0	0
Glass, Lo Pb	111	0	94	16	0	2	0	0	0	0	0
Glass, Hi Pb	502	0	265	203	31	3	0	0	0	0	0
Ca-rich	3729	0	2964	671	62	30	2	0	0	0	0
Other	12922	0	10015	1841	811	201	48	5	1	0	0
Totals	24001	0	18236	4150	1264	292	54	5	1	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.2	0.0	33.3	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	27.6	0.0	72.7	20.9	5.4	0.8	0.1	0.0	0.0	0.0	0.0
Si-rich	0.3	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.5	0.0	84.2	14.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	2.1	0.0	52.8	40.4	6.2	0.6	0.0	0.0	0.0	0.0	0.0
Ca-rich	15.5	0.0	79.5	18.0	1.7	0.8	0.1	0.0	0.0	0.0	0.0
Other	53.8	0.0	77.5	14.2	6.3	1.6	0.4	0.0	0.0	0.0	0.0
Totals	100.0	0.0	76.0	17.3	5.3	1.2	0.2	0.0	0.0	0.0	0.0

Client_Name PTI ENVIROMENTAL
Client_Number COCA 99-6
Project_Number CEH402376
Sample_Number 609658

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Removed	0.1	0.0	11.2	88.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si\Al-rich	21.2	0.0	30.6	29.1	22.0	14.3	4.0	0.0	0.0	0.0	0.0
Si-rich	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	53.2	19.4	0.0	27.4	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	1.8	0.0	20.8	47.9	23.3	8.0	0.0	0.0	0.0	0.0	0.0
Ca-rich	10.0	0.0	44.6	27.6	7.2	15.6	5.0	0.0	0.0	0.0	0.0
Other	66.6	0.0	14.9	13.1	17.1	17.4	18.1	12.3	7.1	0.0	0.0
Totals	100.0	0.0	21.5	18.7	17.2	16.4	13.4	8.2	4.7	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Removed	3	147	3698	0	0	10	67	0	0	4	0	0	0	0	19	0	0	0	0	0
Si\Al-rich	481	148	3033	5	1	22	53	0	0	4	1	0	0	0	9	0	0	3	0	0
Si-rich	4	155	3100	0	0	0	98	2	0	0	0	0	0	0	1	0	0	0	0	0
Glass, Lo Pb	9	156	3733	9	0	2	79	0	0	8	1	0	0	0	0	0	0	0	0	1
Glass, Hi Pb	35	204	3432	3	1	4	61	0	1	9	3	0	0	0	0	0	0	0	0	17
Ca-rich	269	144	2363	0	1	2	3	1	0	0	90	0	0	0	2	0	0	0	0	0
Other	1067	184	2437	12	1	8	23	2	3	0	4	6	0	1	27	0	0	8	2	2
Totals	1868	168	2621	8	1	11	30	1	2	1	17	3	0	0	17	0	0	5	1	1

Client_Name PTI ENVIROMENTAL
Client_Number COCA 98-6
Project_Number CEH402376
Sample_Number 609659

Fields	Particles	Area
204.1761	350	40.3412
108.9863	1545	2.3926

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	485	25.59	29.17	9.16	47362.5
Glass, Lo Pb	11	0.58	0.40	0.34	1750.8
Glass, Hi Pb	112	5.91	2.83	47.73	246696.2
Ca-rich	290	15.30	18.04	9.50	49119.3
Other	997	52.61	49.56	33.26	171885.0
Totals	1895	100.00	100.00	100.00	516813.8

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	7702	0	6289	1265	118	28	2	0	0	0	0
Glass, Lo Pb	106	0	51	34	17	5	0	0	0	0	0
Glass, Hi Pb	746	0	489	101	84	54	7	5	5	1	0
Ca-rich	4763	0	3153	1484	118	6	1	0	1	0	0
Other	13083	0	9476	2141	1231	196	38	1	0	0	0
Totals	26400	0	19457	5024	1568	289	48	6	6	1	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	29.2	0.0	81.7	16.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.4	0.0	47.6	31.8	15.9	4.7	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	2.8	0.0	65.5	13.6	11.3	7.2	0.9	0.7	0.7	0.1	0.0
Ca-rich	18.0	0.0	66.2	31.2	2.5	0.1	0.0	0.0	0.0	0.0	0.0
Other	49.6	0.0	72.4	16.4	9.4	1.5	0.3	0.0	0.0	0.0	0.0
Totals	100.0	0.0	73.7	19.0	5.9	1.1	0.2	0.0	0.0	0.0	0.0

Client_Name PTI ENVIROMENTAL
Client_Number COCA 98-6
Project_Number CEH402376
Sample_Number 609659

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	9.2	0.0	48.1	32.3	7.4	9.9	2.3	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.3	0.0	10.8	23.2	33.7	32.3	0.0	0.0	0.0	0.0	0.0
Glass, Hi Pb	47.7	0.0	0.5	0.5	1.7	3.6	2.4	12.0	38.6	40.5	0.0
Ca-rich	9.5	0.0	27.1	35.3	8.9	2.3	4.1	0.0	22.2	0.0	0.0
Other	33.3	0.0	16.0	16.8	29.0	19.9	16.4	1.8	0.0	0.0	0.0
Totals	100.0	0.0	12.6	12.2	12.1	9.6	7.2	6.4	20.6	19.3	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	485	151	3073	5	1	23	53	0	0	3	2	0	0	0	8	0	0	3	0	0
Glass, Lo Pb	11	159	3626	8	0	3	78	0	0	11	1	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	112	205	3383	3	1	3	62	0	1	8	3	0	0	0	0	0	0	0	0	18
Ca-rich	290	143	2320	0	0	2	6	0	0	0	90	0	0	0	1	0	0	0	0	0
Other	997	188	2538	11	2	7	22	3	5	0	6	6	0	0	26	0	1	7	2	1
Totals	1895	169	2683	7	2	11	29	2	3	1	20	3	0	0	16	0	0	4	1	1

Client_Name PTI Environ
Client_Number TOCA 4-BO
Project_Number CEH402376
Sample_Number 609935

Fields	Particles	Area
434.1908	66	85.7875
260.8730	1441	5.7270

Classes	Raw No.	Norm. No.	Number %	Area %	Area (um^2)
Si\Al-rich	245	16.26	16.95	10.32	12041.4
Si-rich	1	0.07	0.07	0.06	71.4
Glass, Lo Pb	11	0.73	0.63	3.95	4612.4
Glass, Hi Pb	11	0.73	0.57	1.72	2008.0
Ca-rich	72	4.78	4.98	3.54	4133.8
Other	1167	77.44	76.80	80.39	93763.7
Totals	1507	100.00	100.00	100.00	116630.6

Number Distribution by Average Diameter (microns)

Classes	Number	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	3670	0	3490	180	0	0	0	0	0	0	0
Si-rich	15	0	15	0	0	0	0	0	0	0	0
Glass, Lo Pb	137	0	105	30	0	1	0	1	0	0	0
Glass, Hi Pb	123	0	75	0	45	3	0	0	0	0	0
Ca-rich	1079	0	974	75	30	0	0	0	0	0	0
Other	16628	0	14365	1842	360	50	9	2	0	0	0
Totals	21651	0	19024	2127	434	54	9	3	0	0	0

Number % Distribution by Average Diameter (microns)

Classes	Number %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	17.0	0.0	95.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	0.6	0.0	76.6	21.9	0.0	0.7	0.0	0.7	0.0	0.0	0.0
Glass, Hi Pb	0.6	0.0	61.0	0.0	36.6	2.4	0.0	0.0	0.0	0.0	0.0
Ca-rich	5.0	0.0	90.3	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
Other	76.8	0.0	86.4	11.1	2.2	0.3	0.1	0.0	0.0	0.0	0.0
Totals	100.0	0.0	87.9	9.8	2.0	0.2	0.0	0.0	0.0	0.0	0.0

Client_Name PTI Environ
Client_Number TOCA 4-BO
Project_Number CEH402376
Sample_Number 609935

Area Distribution by Average Diameter (microns)

Classes	Area %	<<<	1.0 - 3.0	3.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 50.0	50.0 - 100.0	100.0 - 250.0	250.0 - 500.0	>>>
Si\Al-rich	10.3	0.0	86.1	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Si-rich	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass, Lo Pb	4.0	0.0	6.3	9.2	0.0	3.1	0.0	81.3	0.0	0.0	0.0
Glass, Hi Pb	1.7	0.0	11.6	0.0	64.5	23.9	0.0	0.0	0.0	0.0	0.0
Ca-rich	3.5	0.0	58.7	22.3	19.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	80.4	0.0	38.3	24.1	15.8	7.7	7.9	6.2	0.0	0.0	0.0
Totals	100.0	0.0	42.2	21.9	14.5	6.8	6.3	8.2	0.0	0.0	0.0

Average Composition

Classes	#	Int	Counts	Na	Mg	Al	Si	P	S	K	Ca	Ti	Cr	Mn	Fe	Ni	Cu	Zn	Ba	Pb
Si\Al-rich	245	167	1795	0	7	18	49	1	0	2	9	1	0	0	11	0	0	0	0	1
Si-rich	1	174	1981	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass, Lo Pb	11	170	2673	6	0	8	74	0	0	9	3	0	0	0	0	0	0	0	0	0
Glass, Hi Pb	11	200	2556	2	2	7	62	0	0	8	3	0	0	0	0	0	0	0	0	16
Ca-rich	72	165	1584	0	0	1	3	14	0	0	78	0	0	0	1	0	0	0	0	1
Other	1167	191	1555	0	2	8	22	2	7	1	4	22	0	0	25	0	0	0	1	4
Totals	1507	186	1610	0	3	10	26	2	5	1	8	17	0	0	21	0	0	0	1	3

Appendix F

HHRA Data Summaries, EPCs, and Risk Estimate Calculations

Table F-1. East Fenced Area soils data—Circleville Site

Reference	Date	Station	Probable Medium	Max Depth	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Fluoride (mg/kg)
D&M Grid		C-25D-1	Soil	6 in					97.1		
D&M Grid		C-25D-1	Soil	12 in					23.0		
D&M Grid		C-25D-1	Soil	18 in	3.3	15.7	52.5	10.4	94.6	15.1	
D&M Grid		C-25D-2	Soil	6 in					242.0		
D&M Grid		C-25D-3	Soil	6 in					115.0		
D&M Grid		C-25D-4	Soil	6 in					37.3		
D&M Grid		C-25D-5	Soil	6 in	10.2	28.9	107.0	16.4	299.0	19.9	
Sldg Bndry Samples		CN-EFA-1	Soil	36 in.	2.7	18.7	96.5	17.8	79.6	21.6	
Sldg Bndry Samples		CN-EFA-2	Soil	36 in.					16.2		
Sldg Bndry Samples		CN-EFA-3	Soil	36 in.	3.9	18.6	114.0	14.7	347.0	19.0	
Sldg Bndry Samples		CN-EFA-4	Soil	36 in.					142.8		
AD Little 1993	03/10/88	CSD1	Soil	48 in	95.0 *U*	12.0 *U*	108.0	35.9 *U*	12.0 *U*	14.0	8.7 *U*
AD Little 1993	03/10/88	CSD1	Soil	108 in	130.2 *U*	16.3 *U*	2.3 *U*	48.8 *U*	16.3 *U*	4.7 *U*	7.7 *U*
AD Little 1993	03/10/88	CSD2	Soil	48 in	99.0 *U*	12.0 *U*	1.2 *U*	37.0 *U*	12.0 *U*	4.0 *U*	77.0
AD Little 1993	03/10/88	CSD2	Soil	108 in	117.9 *U*	14.7 *U*	2.1 *U*	44.2 *U*	14.0 *U*	4.2 *U*	41.0
AD Little 1993	03/10/88	CSD2	Soil	168 in	138.3 *U*	17.3 *U*	82.0	51.9 *U*	17.3 *U*	10.0	6.8 *U*
AD Little 1993	03/10/88	CSD4	Soil	108 in	89.0 *U*	10.8 *U*	99.0	33.0 *U*	10.8 *U*	12.0	6.0
AD Little 1993	03/10/88	CSD6	Soil	108 in	100.0 *U*	12.0 *U*	65.0	38.2 *U*	12.0 *U*	15.0	160.0
AD Little 1993 (Dup)	03/10/88	CSD6	Soil	108 in	109.0 *U*	13.0 *U*	72.0	41.0 *U*	13.0 *U*	16.0	
AD Little 1993	03/10/88	CSD7	Soil	60 in	90.0 *U*	11.0 *U*	1.0 *U*	47.0	11.0 *U*	3.3 *U*	146.0
AD Little 1993	03/10/88	CSD7	Soil	108 in	103.0 *U*	13.0 *U*	1.6 *U*	39.0 *U*	13.0 *U*	4.0 *U*	15.0
OEPA 1991	02/28/91	RC-S2	Soil	18 in		10.0	89.0	15.0	10.0 *U*		
OEPA 1991	02/28/91	RC-S5	Soil	42 in		10.0	80.0	13.0	49.0		

Note: D&M Grid - Former Dames & Moore Station 25D Grid Location
U - undetected at detection limit shown

Table F-2. East Fenced Area sludge data—Circleville Site

Reference	Station	Date	Max Depth		Total Antimony (mg/kg)	Total Arsenic (mg/kg)	Total Barium (mg/kg)	Total Chromium (mg/kg)	Total Lead (mg/kg)	Total Nickel (mg/kg)	Total Fluoride (mg/kg)
AD Little 1993	CSD3	03/10/88	48	in.	136 *U*	73	793	51.2 *U*	3,200	4.9 *U*	90
AD Little 1993	CSD3	03/10/88	108	in.	124.4 *U*	119	1,100	126	5,720	4.4 *U*	149
AD Little 1993	CSD3	03/10/88	168	in.	92 *U*	10.8 *U*	14	34 *U*	676	3.1 *U*	10
AD Little 1993	CSD4	03/10/88	48	in.	125.8 *U*	269	3,600	362	13,800	4.5 *U*	90
AD Little 1993	CSD5	03/10/88	48	in.	124.4 *U*	180	2,500	177	8,930	4.4 *U*	120
AD Little 1993	CSD5	03/10/88	60	in.	121 *U*	358	2,300	101	9,430	4.3 *U*	161
AD Little 1993	CSD6	03/10/88	48	in.	102 *U*	53	517	38 *U*	604	6.0	65
E&E 1989	S1	06/28/88	72	in.	68 *JN*	150	1,620	47	5,970	12.0	
E&E 1989	S2	06/28/88	36	in.	63 *JN*	188	1,690	242	8,630	26.0	
E&E 1989	S3	06/28/88	12	in.	9 *JNB*	45	536	18	1,770	10.0	
D&M 1993	SDA#1	11/30/87	36	in.							10
OEPA 1991	RC-S1	02/28/91	24	in.		25	2,300	200	8,800		
OEPA 1991	RC-S3	02/28/91	30	in.		100	1,100	170	4,900		
OEPA 1991	RC-S4	02/28/91	30	in.		80	880	89	2,900		

Note: AD Little detection limits adjusted for sample size
Fluoride analyses are for total fluorides, not hydrogen fluoride
Results reported on a dry weight basis

Qualifier: *B* - above instrument detection limit and below contract-required detection limit
J - estimated value
N - outside quality control protocols
U - undetected at detection limit shown

Table F-3. East Swale soils data—Circleville Site

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Fluoride (mg/kg)
Historical	ED-1	A	0	in		68.7			1,890		
Historical	ED-2	A	0	in					23,500		
Historical	RC-S6	--	4	in		380.0	400	120.0	6,100		
PTI, RI	T-ES-1	A	6	in	604.0 *J*	530.0	2,670 *J*	198.0	17,600 *J*	124.0 *J*	8,100 *J*
PTI, RI	T-ES-2	A	6	in	121.0	129.0	800	75.8	4,640 *J*	25.2	
PTI, RI	T-ES-3	A	6	in	136.0	160.0	1,050	97.1	5,850 *J*	23.7	
PTI, RI	T-ES-4	A	6	in	17.8	51.7	264	26.1	1,720 *J*	29.5	
PTI, RI	T-ES-1	B	6	in	14.0 *J*				312 *J*	14.5 *J*	330 *J*
PTI, RI	T-ES-2	B	6	in	13.0	25.0	143	24.6	266 *J*	28.7	
PTI, RI	T-ES-3	B	6	in					356 *J*		
PTI, RI	T-ES-4	B	6	in	39.0	121.8	807	69.7	5,010 *J*	26.9	
PTI, RI	T-ES-1	C1L	6	in	25.4 *J*	58.1	344 *J*	16.5	1,030 *J*	18.3 *J*	78 *J*
PTI, RI	T-ES-1	C1R	6	in	79.5 *J*	59.7	907 *J*	17.7	2,490 *J*	43.3 *J*	1,000 *J*
PTI, RI	T-ES-2	C1L	6	in					72 *J*		
PTI, RI	T-ES-2	C1R	6	in					169 *J*		
PTI, RI	T-ES-3	C1L	6	in					117		
PTI, RI	T-ES-3	C1R	6	in					24 *J*		
PTI, RI	T-ES-4	C1L	6	in					62		
PTI, RI	T-ES-4	C1R	6	in					85 *J*		
PTI, RI	T-ES-1	C2L	6	in	5.5 *J*				83 *J*	18.8 *J*	190 *J*
PTI, RI	T-ES-1	C2R	6	in	3.3 *J*				57 *J*	13.1 *J*	980 *J*
PTI, RI	T-ES-2	C2L	6	in					191 *J*		
PTI, RI	T-ES-2	C2R	6	in					117 *J*		
PTI, RI	T-ES-3	C2L	6	in					937 *J*		
PTI, RI	T-ES-3	C2R	6	in					240 *J*		
PTI, RI	T-ES-4	C2L	6	in					198		
PTI, RI	T-ES-4	C2R	6	in					75 *J*		
Historical	ED-1	B	6	in					49		
Historical	ED-1	C1L	6	in					882		
Historical	ED-1	C1R	6	in					12		
Historical	ED-1	C2L	6	in		17.0			152		
Historical	ED-1	C2R	6	in		90.4			254		
Historical	ED-2	B	6	in					674		
Historical	ED-2	C1L	6	in		41.0			588		
Historical	ED-2	C1R	6	in		33.1			895		
Historical	ED-2	C2L	6	in					613		

Table F-3. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Fluoride (mg/kg)
Historical	ED-2	C2R	6	in					132		
PTI, RI	T-ES-1	B	12	in	39.1 *J*				968 *J*	21.9 *J*	330 *J*
PTI, RI	T-ES-2	B	12	in					64 *J*		
PTI, RI	T-ES-3	B	12	in					108 *J*		
PTI, RI	T-ES-4	B	12	in					115 *J*		
PTI, RI	T-ES-1	C1L	12	in	15.2 *J*				347 *J*	15.0 *J*	150 *J*
PTI, RI	T-ES-1	C1R	12	in	28.5 *J*	17.5	309 *J*	5.9	752 *J*	17.7 *J*	980 *J*
PTI, RI	T-ES-2	C1L	12	in					28 *J*		
PTI, RI	T-ES-2	C1R	12	in					216 *J*		
PTI, RI	T-ES-3	C1L	12	in					304 *J*		
PTI, RI	T-ES-3	C1L	12	in					179 *J*		
PTI, RI	T-ES-3	C1R	12	in	1.3	13.9	90	13.6	30 *J*	19.7	
PTI, RI	T-ES-4	C1L	12	in	2.2	15.0	42	7.5	59	16.4	
PTI, RI	T-ES-4	C1R	12	in					43 *J*		
PTI, RI	T-ES-1	C2L	12	in	2.4 *J*				34 *J*	19.1 *J*	160 *J*
PTI, RI	T-ES-1	C2R	12	in	1.7 *J*	13.8	84 *J*	11.9	57 *J*	18.6 *J*	130 *J*
PTI, RI	T-ES-2	C2L	12	in					52 *J*		
PTI, RI	T-ES-2	C2R	12	in	7.3	18.5	143	16.7	20 *J*	19.3	
PTI, RI	T-ES-3	C2L	12	in					23 *J*		
PTI, RI	T-ES-3	C2R	12	in					60 *J*		
PTI, RI	T-ES-4	C2L	12	in					198		
PTI, RI	T-ES-4	C2R	12	in					14 *J*		
Historical	ED-1	C1L	12	in					44		
Historical	ED-2	C1L	12	in		42.3			106		
Historical	ED-2	C1R	12	in		21.4			445		
PTI, RI	T-ES-1	B	18	in	24.9 *J*				545 *J*	17.2 *J*	150 *J*
PTI, RI	T-ES-2	B	18	in					195 *J*		
PTI, RI	T-ES-3	B	18	in	7.7	23.2	114	22.9	392 *J*	25.3	
PTI, RI	T-ES-4	B	18	in					272 *J*		
PTI, RI	T-ES-1	C1L	18	in	11.4 *J*				289 *J*	14.4 *J*	140 *J*
PTI, RI	T-ES-1	C1L	18	in	9.5 *J*				274 *J*	13.6 *J*	180 *J*
PTI, RI	T-ES-1	C1R	18	in	15.8 *J*				550 *J*	16.7 *J*	110 *J*
PTI, RI	T-ES-2	C1L	18	in					30 *J*		
PTI, RI	T-ES-2	C1R	18	in					13 *J*		
PTI, RI	T-ES-3	C1L	18	in					51 *J*		
PTI, RI	T-ES-3	C1R	18	in					27 *J*		

Table F-3. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Fluoride (mg/kg)
PTI, RI	T-ES-4	C1L	18	in					145		
PTI, RI	T-ES-4	C1R	18	in					36 *J*		
PTI, RI	T-ES-1	C2L	18	in	1.3 *J*				15 *J*	24.5 *J*	240 *J*
PTI, RI	T-ES-1	C2R	18	in	1.5 *J*				29 *J*	18.0 *J*	130 *J*
PTI, RI	T-ES-2	C2L	18	in					31 *J*		
PTI, RI	T-ES-2	C2R	18	in					183 *J*		
PTI, RI	T-ES-3	C2L	18	in					333 *J*		
PTI, RI	T-ES-3	C2R	18	in					165		
PTI, RI	T-ES-4	C2L	18	in					14		
PTI, RI	T-ES-4	C2R	18	in					14		
PTI, RI	T-ES-1	B	24	in	43.1 *J*	73.1	296 *J*	18.5	1,170 *J*	20.1 *J*	600 *J*
PTI, RI	T-ES-2	B	24	in	0.5 *U*	12.9	38	7.7	22 *J*	15.7	
PTI, RI	T-ES-3	B	24	in					62 *J*		
PTI, RI	T-ES-4	B	24	in	7.7	25.9	125	13.1	551 *J*	14.6	
PTI, RI	T-ES-1	B	30	in	20.0 *J*				419 *J*	15.0 *J*	270 *J*
PTI, RI	T-ES-2	B	30	in					25 *J*		
PTI, RI	T-ES-3	B	30	in	11.6	32.5	182	26.8	561 *J*	29.8	
PTI, RI	T-ES-4	B	30	in					540 *J*		

Qualifier: *J* - estimated value
U - undetected at detection limit shown

[a] Location symbols mean:
A - refers to composite surface sample of ditch sediments
B - refers to core samples taken below sediments

Table F-4. Former Oil Skimmer Pond boreholes data—Circleville Site

Reference		Sample	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)	Acetone (mg/kg)	Carbon disulfide (mg/kg)	Methylene chloride (mg/kg)	Toluene (mg/kg)	Di-n-butyl-phthalate (mg/kg)
PTI, RI	Boring	BHOSP-01	1.8 *J*	11.8	63.1	9.7 *J*	55.6	15.6	56	0.021 *J*	0.0031 *J*	0.0058 *UJ*		0.11 *J*
PTI, RI	Boring	BHOSP-02	0.7 *UB*	10.8	61.5	8.2 *J*	15.8	18.5	57	0.022 *U*	0.0055 *U*	0.015		0.058 *J*
PTI, RI	Test pit, A	CN-OSP-1							24					
PTI, RI	Test pit, B	CN-OSP-5							1,950				0.0044 *L*	0.00025 *U*
PTI, RI	Test pit, C	CN-OSP-2							13 *U*[a]					
PTI, RI	Test pit, D	CN-OSP-4							105 *J*					
PTI, RI	Test pit, E	CN-OSP-3							12 *J*					
PTI, RI	Geoprobe, F	SB-F[a]												
PTI, RI	Geoprobe, F	SB-G[a]												
PTI, RI	Geoprobe, F	CN-OSP-6							44 *J*					
PTI, RI	Geoprobe, F	CN-OSP-7							43 *J*					
PTI, RI	Geoprobe, F	SB-K[a]												
PTI, RI	Geoprobe, F	SB-L[a]												

Note: SVOC - semivolatile organic compound
TPH - total petroleum hydrocarbon
VOC - volatile organic compound
VOCs were tested for in Geoprobe samples SB-F, SB-G, SB-K, and SB-L; no VOCs were detected.

Qualifier: *J* - estimated value
L - reported concentration is the average of detected and undetected value from sample and field duplicate; actual value is less than reported value.
U - undetected at detection limit shown

[a] Result is average concentration of sample and field duplicate.

Table F-5A. Historical South Ditch soils metals data—Circleville Site

Reference	Station	Location[a]	Date	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Historical	0+25M	A	10/04/88	2	in		30.9			447		10.0 *U*
Historical	0+25M	B	10/04/88	2	in					705		10.0 *U*
Historical	12+30M	A	10/04/88	2	in		146			4,680		288
Historical	13+60M	B	10/04/88	2	in					750		10.0 *U*
Historical	15+70M	B	10/04/88	2	in					10,500		
Historical	19+30M	A	10/04/88	2	in		239			1,720		308
Historical	1A	A	10/30/87	2	in					361		
Historical	21+05M	A	10/04/88	2	in					441		
Historical	25+05M	A	10/04/88	2	in					125		10.0 *U*
Historical	29+75M	A	10/04/88	2	in		17.2			116		10.0 *U*
Historical	2A	A	10/30/87	2	in					8,770		
Historical	33+15M	A	10/04/88	2	in		121			43.4		
Historical	3A	A	10/30/87	2	in					2,240		
Historical	4A	A	10/30/87	2	in					2,500		
Historical	5A	A	10/30/87	2	in					2,770		
Historical	7+25M	A	10/04/88	2	in					681		
Historical	SSSED-1	A	10/20/87	2	in					2,720		7,600
Historical	SSSED-2	A	10/20/87	2	in					1,650		24,000
Historical	0+25M	B	10/04/88	6	in					416		10.0 *U*
Historical	0+25NC	C1L	10/04/88	6	in					16,200		10.0 *U*
Historical	0+25ND	C2L	10/01/90	6	in		17.9			312		10.0 *U*
Historical	0+25SC	C1R	10/04/88	6	in					13.7		10.0 *U*
Historical	0+25SD	C2R	10/04/88	6	in					1,060		10.0 *U*
Historical	12+30M	B	10/04/88	6	in					33.5		53.7
Historical	12+30NC	C1L	10/04/88	6	in					1,620		31.0
Historical	12+30ND	C2L	10/01/90	6	in					88.1		
Historical	12+30SC	C1R	10/04/88	6	in					138		121
Historical	12+30SD	C2R	10/01/90	6	in		26.0			22.3 *L*		
Historical	13+60M	B	10/04/88	6	in					130		29.9
Historical	13+60NC	C1L	10/04/88	6	in					2,080		10.0 *U*
Historical	13+60SC	C1R	10/04/88	6	in					8.8		21.7
Historical	15+70M	B	10/04/88	6	in					2,460		
Historical	15+70NC	C1L	10/04/88	6	in					9.3		
Historical	15+70SC	C1R	10/04/88	6	in					1210		
Historical	16A	A	10/02/90	6	in		30.5			90.1		
Historical	17M	A	10/02/90	6	in					375		
Historical	18M	A	10/02/90	6	in					59.7		
Historical	19+30M	B	10/04/88	6	in		106			4,050		184
Historical	19+30NC	C1L	10/04/88	6	in					807		10.0 *U*

Table F-5A. (cont.)

Reference	Station	Location[a]	Date	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Historical	19+30ND	C2L	10/04/88	6	in					32.2		10.0 *U*
Historical	19+30SC	C1R	10/04/88	6	in					439		33.3
Historical	19+30SD	C2R	10/04/88	6	in					95.4		10.0 *U*
Historical	19M	A	10/02/90	6	in		104			303		
Historical	20M	A	10/02/90	6	in					111		
Historical	21+05M	B	10/04/88	6	in					684		
Historical	21+05NC	C1L	10/04/88	6	in					3,500		
Historical	21+05SC	C1R	10/04/88	6	in					15.7		
Historical	21M	A	10/02/90	6	in					454		
Historical	22M	A	10/02/90	6	in		46.0			533		
Historical	23M	A	10/02/90	6	in					160		
Historical	24M	A	10/02/90	6	in					112		
Historical	25+05M	B	10/04/88	6	in					23.6		
Historical	25+05NC	C1L	10/04/88	6	in					264		
Historical	25+05SC	C1R	10/04/88	6	in					9.1		
Historical	25M	A	10/02/90	6	in		29.1			75.4		
Historical	29+75M	B	10/04/88	6	in					37.5		
Historical	29+75NC	C1L	10/04/88	6	in					48.7		
Historical	29+75SC	C1R	10/04/88	6	in					8.1		
Historical	33+15M	B	10/04/88	6	in					6.0		
Historical	33+15NC	C1L	10/04/88	6	in					27.6		
Historical	33+15SC	C1R	10/04/88	6	in					7.2		
Historical	7+25M	B	10/04/88	6	in					531		
Historical	7+25NC	C1L	10/04/88	6	in					44.4		
Historical	7+25ND	C2L	10/01/90	6	in					52.8		
Historical	7+25SC	C1R	10/04/88	6	in					75.9		
Historical	7+25SD	C2R	10/01/90	6	in					21.9		
PTI, RI	TSD0+25	C1L		6	in	51.5	73.0	233 *J*	35.7	2,470 *J*	19.4	
PTI, RI	TSD19+30	B[a]		6	in					304 *J*		
PTI, RI	TSD19+30 (Dup)	B[a]		6	in					355 *J*		
Historical	0+25M	B	10/04/88	12	in					11.0		10.0 *U*
Historical	0+25NC	C1L	10/04/88	12	in					4,350		481
Historical	0+25ND	C2L	10/01/90	12	in					15.8		
Historical	0+25SC	C1R	10/04/88	12	in					13.2		10.0 *U*
Historical	0+25SD	C2R	10/01/90	12	in		14.6			33.5		
Historical	12+30M	B	10/04/88	12	in					9.7		40.9
Historical	12+30NC	C1L	10/04/88	12	in					201		10.0 *U*
Historical	12+30ND	C2L	10/01/90	12	in					4.9 *U*		
Historical	12+30SC	C1R	10/04/88	12	in					19.9		44.2

Table F-5A. (cont.)

Reference	Station	Location[a]	Date	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Historical	12+30SD	C2R	10/01/90	12	in		42.5			4.7		
Historical	13+60M	B	10/04/88	12	in					71.2		59.9
Historical	13+60NC	C1L	10/04/88	12	in					221		29.3
Historical	13+60SC	C1R	10/04/88	12	in					7.8		27.3
Historical	15+70M	B	10/04/88	12	in					57.5		
Historical	15+70NC	C1L	10/04/88	12	in					23.5		
Historical	15+70SC	C1R	10/04/88	12	in					9.8		
Historical	19+30M	B	10/04/88	12	in					331		57.6
Historical	19+30NC	C1L	10/04/88	12	in					209		42.1
Historical	19+30SC	C1R	10/04/88	12	in					7.7		39.0
Historical	21+05M	B	10/04/88	12	in					25.2		
Historical	21+05NC	C1L	10/04/88	12	in					77.0		
Historical	21+05SC	C1R	10/04/88	12	in					7.9		
Historical	25+05M	B	10/04/88	12	in					18.2		
Historical	25+05NC	C1L	10/04/88	12	in					9.2		
Historical	25+05SC	C1R	10/04/88	12	in					8.1		
Historical	29+75M	B	10/04/88	12	in					46.7		
Historical	29+75NC	C1L	10/04/88	12	in					8.1		
Historical	29+75SC	C1R	10/04/88	12	in					7.1		
Historical	33+15M	B	10/04/88	12	in					8.0		
Historical	33+15NC	C1L	10/04/88	12	in					9.5		
Historical	33+15SC	C1R	10/04/88	12	in					6.4		
Historical	7+25M	B	10/04/88	12	in					10.0		
Historical	7+25NC	C1L	10/04/88	12	in					17.5		
Historical	7+25ND	C2L	10/01/90	12	in		17.1			35.0		
Historical	7+25SC	C1R	10/04/88	12	in					9.1		
Historical	7+25SD	C2R	10/01/90	12	in					10.2		
PTI, RI	TSD0+25	C1L		12	in	2.4	9.6	97.8 *J*	10.7	144 *J*	11.2	
PTI, RI	TSD19+30	B[a]		12	in	5.2 *J*	109	12.6	4.2	52.6 *J*	24.8	
Historical	0+25M	B	10/04/88	18	in					10.8		11.8
Historical	12+30M	B	10/04/88	18	in					12.6		34.3
Historical	13+60M	B	10/04/88	18	in					6.8		44.4
Historical	19+30M	B	10/04/88	18	in					601		77.9
Historical	21+05M	B	10/04/88	18	in					24.5		
Historical	25+05M	B	10/04/88	18	in					4.8		
Historical	29+75M	B	10/04/88	18	in					6.0		
Historical	7+25M	B	10/04/88	18	in					13.6		
PTI, RI	TSD0+25	C1L		18	in					27.5 *J*		

Table F-5A. (cont.)

Reference	Station	Location[a]	Date	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
PTI, RI	TSD19+30	B[a]		18	in	19.2 *J*	143	26.9 *J*	18.7	1,730 *J*	14.9	
PTI, RI	TSD0+25	C1L		24	in					10.8 *J*		
PTI, RI	TSD19+30	B[a]		24	in					148 *J*		
PTI, RI	TSD0+25	C1L		30	in					9.8 *J*		
PTI, RI	TSD19+30	B[a]		30	in					333 *J*		
PTI, RI	G-SD-2		10/24/95									140,000
PTI, RI	G-SD-3		10/24/95									45,000
PTI, RI	G-SD-3 (DUP)		10/24/95									40,000
PTI, RI	G-SD-3, Ave		10/24/95									43

Note: TPH - total petroleum hydrocarbon

Qualifier: *J* - estimated value
L - actual concentration is less than reported concentration
U - undetected at detection limit shown

[a] Location symbols mean:
A - refers to composite surface sample of ditch sediments
B - refers to core samples taken below sediments
C - refers to samples taken on the left (L) or right (R) side of the stream bed

Table F-5B. Supplemental RI sampling results for lead—South Ditch

Station	Location	Depth (in.)	Lead (mg/kg)
T-SD-1	A	0–6	364
T-SD-2	A	0–6	4,320
T-SD-3	A	0–6	375 *J*
T-SD-4	A	0–6	1,320 *J*
T-SD-5	A	0–6	1,370
T-SD-6	A	0–6	1,040
T-SD-1	B	6–12	28.7
T-SD-2	B	6–12	12,100
T-SD-3	B	6–8	620 *J*
T-SD-4	B	6–11	656 *J*
T-SD-5	B	6–10	516
T-SD-6	B	6–12	553
T-SD-1	B	12–18	6.6
T-SD-2	B	12–18	18.8
T-SD-6	B	12–18	122
T-SD-6	B	18–21	6.0
T-SD-1	C1L	0–6	99.1
T-SD-1	C1R	0–6	20.2
T-SD-2	C1L	0–6	324
T-SD-2	C1R	0–6	9.8
T-SD-3	C1L	0–6	120 *J*
T-SD-3	C1R	0–6	272.75 *J*
T-SD-4	C1L	0–6	434.5 *J*
T-SD-4	C1R	0–6	2,390 *J*
T-SD-5	C1L	0–6	1,870
T-SD-5	C1R	0–6	384
T-SD-6	C1L	0–6	188
T-SD-6	C1R	0–6	1,125
T-SD-1	C1L	6–12	12.8
T-SD-1	C1R	6–12	7.8
T-SD-2	C1L	6–12	345
T-SD-2	C1R	6–12	6.0
T-SD-3	C1L	6–12	9.9 *J*
T-SD-3	C1R	6–12	9.0
T-SD-4	C1L	6–12	30.9 *J*
T-SD-4	C1R	6–12	8.1 *J*
T-SD-5	C1L	6–12	16.7
T-SD-5	C1R	6–12	50.5
T-SD-6	C1L	6–12	16.8
T-SD-6	C1R	6–12	94.7
T-SD-1	C1L	12–18	ARC
T-SD-1	C1R	12–18	ARC
T-SD-2	C1L	12–18	ARC
T-SD-2	C1R	12–18	ARC
T-SD-3	C1L	12–18	ARC

Table F-5B. (cont.)

Station	Location	Depth (in)	Lead (mg/kg)
T-SD-3	C1R	12–18	ARC
T-SD-4	C1L	12–18	ARC
T-SD-4	C1R	12–18	ARC
T-SD-5	C1L	12–18	ARC
T-SD-5	C1R	12–18	ARC
T-SD-6	C1L	12–18	ARC
T-SD-6	C1R	12–18	ARC
T-SD-1	C2L	0–6	45.7
T-SD-1	C2R	0–6	102
T-SD-2	C2L	0–6	2,640
T-SD-2	C2R	0–6	92.8
T-SD-3	C2L	0–6	114 *J*
T-SD-3	C2R	0–6	48.9
T-SD-4	C2L	0–6	1,240
T-SD-4	C2R	0–6	266 *J*
T-SD-5	C2L	0–6	310
T-SD-5	C2R	0–6	75.1
T-SD-6	C2L	0–6	238
T-SD-6	C2R	0–6	359
T-SD-1	C2L	6–12	259
T-SD-1	C2R	6–12	43.8
T-SD-2	C2L	6–12	96.8
T-SD-2	C2R	6–12	16.0
T-SD-3	C2L	6–12	13.3 *J*
T-SD-3	C2R	6–12	19.9
T-SD-4	C2L	6–12	202
T-SD-4	C2R	6–12	18.9 *J*
T-SD-5	C2L	6–12	71.3
T-SD-5	C2R	6–12	16.8
T-SD-6	C2L	6–12	18.3
T-SD-6	C2R	6–12	21.4
T-SD-1	C2L	12–18	ARC
T-SD-1	C2R	12–18	ARC
T-SD-2	C2L	12–18	ARC
T-SD-2	C2R	12–18	ARC
T-SD-3	C2L	12–15	ARC
T-SD-3	C2R	12–18	ARC
T-SD-4	C2L	12–18	ARC
T-SD-4	C2R	12–18	ARC
T-SD-5	C2L	12–18	ARC
T-SD-5	C2R	12–18	ARC
T-SD-6	C2L	12–18	ARC
T-SD-6	C2R	12–18	ARC

Note: A - refers to composite surface sample of channel sediments.
ARC - sample was archived and not needed for extent determination.
B - refers to core samples taken below sediments.
C - refers to samples taken on the left (L) or right (R) side of channel looking upstream.
J - estimated value

Table F-6. South Ditch soil/sediment organics data—Circleville Site

Reference	Near former OSP outfall	Date	Petroleum hydrocarbons (mg/kg)	2-Butanone (MEK) (mg/kg)	Carbon disulfide (mg/kg)	Anthracene (mg/kg)	Benz[a]-anthracene (mg/kg)	Benz[a]-pyrene (mg/kg)	Benzo[b]-fluoranthene (mg/kg)	Benzo[k]-fluoranthene (mg/kg)
PTI, RI	G-SD-2	10/24/95	140,000	0.038 *J*	0.023 *J*	14 *UJ*	3.9 *J*	5.2 *J*	7.4 *J*	14 *UJ*
PTI, RI	G-SD-3	10/24/95	45,000	0.042 *J*	0.024 *J*	21 *UJ*	2.5 *J*	21 *UJ*	21 *UJ*	21 *UJ*
PTI, RI	G-SD-3 (DUP)	10/24/95	40,000	0.027 *J*	0.013 *J*	59 *UJ*	59 *UJ*	7.2 *J*	11 *J*	59 *UJ*
PTI, RI	CSD13-AO	9/9/97				1 *U*	0.29 *J*	0.46 *J*	0.68 *J*	0.35 *J*
PTI, RI	CSD14-AO	9/9/97				0.25 *J*	2.3	2.0	3.3	1.3
PTI, RI	CSD15-AO	9/3/97				0.13 *J*	2	2.1	2.6	1.4
PTI, RI	CSD16-AO	9/6/97				0.62 *U*	0.18 *J*	0.13 *J*	0.22 *J*	0.088 *J*
PTI, RI	CSD17-AO	9/9/97				1 *U*	0.46 *J*	0.63 *J*	0.85 *J*	0.46 *J*

Table F-6. (cont.)

Reference	Near former OSP outfall	Date	Benzo[ghi]-perylene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)-anthracene (mg/kg)	Fluor-anthene (mg/kg)	Indeno-[1,2,3-cd]-pyrene (mg/kg)	Phen-anthrene (mg/kg)	Pyrene (mg/kg)	bis-(2-ethylhexyl)-phthalate (mg/kg)	Carbazole (mg/kg)
PTI, RI	G-SD-2	10/24/95	3.2 *J*	4.9 *J*	14 *UJ*	12 *J*	2.5 *J*	5.1 *J*	7.8 *J*	2.6 *J*	14 *UJ*
PTI, RI	G-SD-3	10/24/95	2.7 *J*	3.2 *J*	21 *UJ*	8.0 *J*	2.5 *J*	2.3 *J*	9.0 *J*	8.3 *J*	21 *UJ*
PTI, RI	G-SD-3 (DUP)	10/24/95	59 *UJ*	7.4 *J*	59 *UJ*	15 *J*	59 *UJ*	59 *UJ*	13 *J*	9.3 *J*	59 *UJ*
PTI, RI	CSD13-AO	9/9/97	0.37 *J*	0.6 *J*	1 *U*	0.88 *J*	0.37 *J*	0.49 *J*	0.99 *J*	0.12 *J*	1 *U*
PTI, RI	CSD14-AO	9/9/97	1.3	2.1	0.26 *J*	4.1	1.3	1.7	3.8	0.94 *U*	0.3 *J*
PTI, RI	CSD15-AO	9/3/97	0.79 *J*	0.22 *J*	0.2 *J*	4.4	0.88 *J*	1.3	2.6	0.39 *J*	1.1 *U*
PTI, RI	CSD16-AO	9/6/97	0.09 *J*	0.18 *J*	0.62 *U*	0.28 *J*	0.62 *U*	0.14 *J*	0.25 *J*	0.62 *U*	0.62 *U*
PTI, RI	CSD17-AO	9/9/97	0.39 *J*	0.81 *J*	0.11 *J*	1.1	0.44 *J*	0.54 *J*	1.3	1.0 *U*	1 *U*

Qualifier:

U - undetected above reported detection limit

J - estimated value

Table F-7A. Historical Offsite Creek Area soil/sediment data—Circleville Site

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Hist., Streambed	FD-1	A	0	in					98.9		
Hist., Streambed	FD-2	A	0	in					58.9		
Hist., Streambed	MD-1	A	0	in		31			947		
Hist., Streambed	MD-2	A	0	in					1,230		
Hist., Streambed	OS-0	A	0	in					50.4		
Hist., Streambed	OS-1	A	0	in		43.3			216		10 *U*
Hist., Streambed	OS-2	A	0	in					1,160		26.8
Hist., Streambed	OS-3	A	0	in					179		10 *U*
Hist., Streambed	OS-4	A	0	in					170		10 *U*
Hist., Streambed	OS-5	A	0	in					375		10 *U*
Hist., Streambed	RS-1	A	0	in					51.9		
Hist., Overbank	OS-BG	A	0	in					47.4		
Hist., Overbank	RS-1	B	0	in					51.9		
Hist., Overbank	RS-2	B	0	in					15.3		
Hist., Streambed	SS02/3	A	1	in					1,360		
Hist., Streambed	SS04/5	A	1	in					2,730		
Hist., Streambed	SS06/7	A	1	in					3,310		
Hist., Streambed	SS01	A	2	in					87.8		
Hist., Streambed	SS02/3	A	5	in					3,670		
PTI, RI,Core	C-OCA-1		6	in	113	103	639 *J*	77.3	4,410	29.2	
PTI, RI,Core	C-OCA-2		6	in					9,920 *J*		
PTI, RI,Core	C-OCA-3		6	in					8,080 *J*		
PTI, RI,Core	C-OCA-4		6	in					26.1 *J*		
PTI, RI,Core	C-OCA-5		6	in					7,490 *J*		
PTI, RI,Core	C-OCA-6		6	in					5,270		
PTI, RI,Core	C-OCA-7		6	in					7,980		
PTI, RI,Core	C-OCA-8		6	in	74.7 *J*	92.5	521 *J*	68.7	3,640	35.9	
PTI, RI,Core	C-OCA-9		6	in	11.6 *J*	13.3	328 *J*	24.6	365	35.2	
PTI, RI,Core	C-OCA-10		6	in	27.8	29.8	195 *J*	35.2	1,090 *J*	36.9	
PTI, RI,Core	C-OCA-11		6	in					169 *J*		
PTI, RI,Core	C-OCA-12		6	in	13.4	25.1	276 *J*	29.5	633 *J*	34.7	
PTI,RI, Transect	T-OCA-1	A	6	in					41.3		
PTI,RI, Transect	T-OCA-2	A	6	in					83.6		
PTI,RI, Transect	T-OCA-3	A	6	in	3.7 *J*	19.1	107 *J*	13.3 *J*	120	17.6	
PTI,RI, Transect	T-OCA-4	A	6	in	5.1 *J*	15.2	181 *J*	17.6 *J*	188	26.5	
PTI,RI, Transect	T-OCA-5	A	6	in	19.4 *J*	37.2	343	40.4	675	43.0	

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
PTI,RI, Transect	T-OCA-6	A	6	in	7.4 *J*	22.0	224	34.7	267	39.8	
PTI,RI, Transect	T-OCA-1	B	6	in	0.87 *UJ*	15.6	117 *J*	12.4	16.9	24.6	
PTI,RI, Transect	T-OCA-2	B	6	in					16.3		
PTI,RI, Transect	T-OCA-3	B	6	in	7.7 *J*	15.7	64.2 *J*	12.2 *J*	281	13.2	
PTI,RI, Transect	T-OCA-4	B	6	in					23.6		
PTI,RI, Transect	T-OCA-5	B	6	in					409		
PTI,RI, Transect	T-OCA-6	B	6	in	13.9 *J*	25.6	248	32.2	656	35.4	
PTI,RI, Transect	T-OCA-1	C1L	6	in	6.6 *J*	14.4	155 *J*	15.9	204	26.0	
PTI,RI, Transect	T-OCA-1	C1R	6	in					83.1		
PTI,RI, Transect	T-OCA-2	C1L	6	in	3.1 *J*	16.9	156 *J*	16.1	80.6	30.2	
PTI,RI, Transect	T-OCA-2	C1R	6	in	5.8 *J*	21.6	189 *J*	22.7	254	32.2	
PTI,RI, Transect	T-OCA-3	C1L	6	in					167		
PTI,RI, Transect	T-OCA-3	C1R	6	in					41.7		
PTI,RI, Transect	T-OCA-4	C1L	6	in					66.3		
PTI,RI, Transect	T-OCA-4	C1R	6	in					57.4		
PTI,RI, Transect	T-OCA-5	C1L	6	in					56.4		
PTI,RI, Transect	T-OCA-5	C1R	6	in	4.9 *J*	27.5	200	31.4	313	40.7	
PTI,RI, Transect	T-OCA-6	C1L	6	in					48.0		
PTI,RI, Transect	T-OCA-6	C1R	6	in	2.0 *J*	20.0	225	37.6	82.4	45.9	
PTI,RI, Transect	T-OCA-1	C2L	6	in					27.2		
PTI,RI, Transect	T-OCA-1	C2R	6	in					45.5		
PTI,RI, Transect	T-OCA-2	C2L	6	in	1.4 *J*	15.5	157 *J*	24.6	53.1	32.8	
PTI,RI, Transect	T-OCA-2	C2R	6	in					36.3		
PTI,RI, Transect	T-OCA-3	C2L	6	in					46.1		
PTI,RI, Transect	T-OCA-3	C2R	6	in	2.4 *J*	21.5	172 *J*	32.6 *J*	286	32.4	
PTI,RI, Transect	T-OCA-4	C2L	6	in					45.6		
PTI,RI, Transect	T-OCA-4	C2R	6	in					42.1		
PTI,RI, Transect	T-OCA-5	C2L	6	in					29.3		
PTI,RI, Transect	T-OCA-5	C2R	6	in					23.0		
PTI,RI, Transect	T-OCA-6	C2L	6	in					70.0		
PTI,RI, Transect	T-OCA-6	C2R	6	in					101		
Hist., Streambed	T-1	A	6	in		10.3			53.3		
Hist., Streambed	T-2	A	6	in					32.7		
Hist., Streambed	T-3	A	6	in		7.45			60.5		
Hist., Streambed	T-4	A	6	in					69.9		
Hist., Streambed	T-5	A	6	in					633		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Hist., Streambed	T-6	A	6	in					1,060		
Hist., Streambed	T-7	A	6	in					204		
Hist., Streambed	T-8	A	6	in		18.5			136		
Hist., Streambed	T-9	A	6	in					204		
Hist., Streambed	SS04/5	A	6	in					1,340		
Hist., Streambed	SS06/7	A	6	in					559		
Hist., Streambed	T-1	B	6	in		7.51			40.8		
Hist., Streambed	T-2	B	6	in					60.8		
Hist., Streambed	T-3	B	6	in					35.1		
Hist., Streambed	T-4	B	6	in					12.4		
Hist., Streambed	T-5	B	6	in					429		
Hist., Streambed	T-6	B	6	in		24.8			964		
Hist., Streambed	T-7	B	6	in					345		
Hist., Streambed	T-8	B	6	in					105		
Hist., Streambed	T-1	C1L	6	in					20.1		
Hist., Streambed	T-2	C1L	6	in		8.93			12.4		
Hist., Streambed	T-3	C1L	6	in					26.2		
Hist., Streambed	T-4	C1L	6	in					178		
Hist., Streambed	T-5	C1L	6	in		28.4			1,200		
Hist., Streambed	T-6	C1L	6	in					1,610		
Hist., Streambed	T-7	C1L	6	in		167			1,440		
Hist., Streambed	T-8	C1L	6	in					4,870		
Hist., Streambed	T-9	C1L	6	in					2,520		
Hist., Streambed	T-1	C1R	6	in					65.2		
Hist., Streambed	T-2	C1R	6	in		6.34			35.1		
Hist., Streambed	T-3	C1R	6	in					50.2		
Hist., Streambed	T-4	C1R	6	in		10.9			14.9		
Hist., Streambed	T-5	C1R	6	in		23.6			1,270		
Hist., Streambed	T-6	C1R	6	in					14.6		
Hist., Streambed	T-7	C1R	6	in		35.3			1,530		
Hist., Streambed	T-8	C1R	6	in					1,570		
Hist., Streambed	T-9	C1R	6	in					15.1		
Hist., Overbank	J-1	A	6	in					16.3		
Hist., Overbank	J-2	A	6	in					20.9		
Hist., Overbank	LS-1	A	6	in					144		
Hist., Overbank	J-1	B	6	in		10.0			12.5		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Hist., Overbank	J-2	B	6	in					4.65 *U*		
Hist., Overbank	M-1	B	6	in		108			6,380		
Hist., Overbank	M-2	B	6	in					1,310		
Hist., Overbank	M-3	B	6	in					4,040		
Hist., Overbank	M-4	B	6	in					709		
Hist., Overbank	M-5	B	6	in		74.7			1,880		
Hist., Overbank	J-1	C2L	6	in					19.2		
Hist., Overbank	J-2	C2L	6	in		10.5			18.1		
Hist., Overbank	T-1	C2L	6	in					29.1		
Hist., Overbank	T-4	C2L	6	in		16.9			106		
Hist., Overbank	T-5	C2L	6	in					62.6		
Hist., Overbank	T-7	C2L	6	in					48.0		
Hist., Overbank	T-9	C2L	6	in		8.41			27.9		
Hist., Overbank	J-1	C2R	6	in					16.3		
Hist., Overbank	J-2	C2R	6	in					15.9		
Hist., Overbank	T-1	C2R	6	in					12.5		
Hist., Overbank	T-4	C2R	6	in					1740		
Hist., Overbank	T-7	C2R	6	in					202		
Hist., Overbank	T-9	C2R	6	in		6.34			12.9		
PTI, RI,Core	C-OCA-1		12	in					46.0		
PTI, RI,Core	C-OCA-2		12	in	61.2	127	544 *J*	36.3	8,500 *J*	20.1	
PTI, RI,Core	C-OCA-3		12	in	77.9	135	649 J	46.1	7,210 *J*	24.0	
PTI, RI,Core	C-OCA-4		12	in					23.0 *J*		
PTI, RI,Core	C-OCA-5		12	in					274 *J*		
PTI, RI,Core	C-OCA-6		12	in	60.3 *J*	67.1	328 *J*	36.2	2,080	31.4	
PTI, RI,Core	C-OCA-7		12	in	3.5 *J*	24.9	327 *J*	21.3	491	31.1	
PTI, RI,Core	C-OCA-8		12	in					167		
PTI, RI,Core	C-OCA-9		12	in					79.1 *J*		
PTI, RI,Core	C-OCA-10		12	in	82.8	79.3	595 *J*	49.4	5,535 *J*	31.8	
PTI, RI,Core	C-OCA-11		12	in					70.3 *J*		
PTI, RI,Core	C-OCA-12		12	in	6.5	23.0	216 *J*	26.6	217 *J*	30.5	
PTI, RI,Core	C-OCA-12		12	in					266 *J*		
PTI,RI, Transect	T-OCA-1	B	12	in					9.4		
PTI,RI, Transect	T-OCA-2	B	12	in					12.3		
PTI,RI, Transect	T-OCA-3	B	12	in					8.1		
PTI,RI, Transect	T-OCA-4	B	12	in					19.3		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
PTI,RI, Transect	T-OCA-5	B	12	in	4.4 *J*	18.6	234	29.2	144	35.8	
PTI,RI, Transect	T-OCA-6	B	12	in					47.2		
PTI,RI, Transect	T-OCA-1	C1L	12	in					45.1		
PTI,RI, Transect	T-OCA-1	C1R	12	in					10.3		
PTI,RI, Transect	T-OCA-2	C1L	12	in	2.8 *J*	29.0	177 *J*	17.0	152	32.0	
PTI,RI, Transect	T-OCA-2	C1R	12	in					19.9		
PTI,RI, Transect	T-OCA-3	C1L	12	in	0.67 *UJ*	14.2	136 *J*	14.6 *J*	30.2	26.7	
PTI,RI, Transect	T-OCA-3	C1R	12	in					21.7		
PTI,RI, Transect	T-OCA-4	C1L	12	in					64.5		
PTI,RI, Transect	T-OCA-4	C1R	12	in					145		
PTI,RI, Transect	T-OCA-5	C1L	12	in					29.3		
PTI,RI, Transect	T-OCA-5	C1R	12	in					72.3		
PTI,RI, Transect	T-OCA-6	C1L	12	in					36.0		
PTI,RI, Transect	T-OCA-6	C1R	12	in					45.0		
PTI,RI, Transect	T-OCA-1	C2L	12	in	0.77 *UJ*	15.1	136 *J*	15.9	23.9	30.9	
PTI,RI, Transect	T-OCA-1	C2R	12	in					63.4		
PTI,RI, Transect	T-OCA-2	C2L	12	in					29.4		
PTI,RI, Transect	T-OCA-2	C2R	12	in					22.4		
PTI,RI, Transect	T-OCA-3	C2L	12	in					79.4		
PTI,RI, Transect	T-OCA-3	C2R	12	in	0.88 *UJ*	15.4	170 *J*	23.1	42.7	30.7	
PTI,RI, Transect	T-OCA-4	C2L	12	in					99.9		
PTI,RI, Transect	T-OCA-4	C2R	12	in					55.9		
PTI,RI, Transect	T-OCA-5	C2L	12	in					31.1		
PTI,RI, Transect	T-OCA-5	C2R	12	in					12.1		
PTI,RI, Transect	T-OCA-6	C2L	12	in					27.3		
PTI,RI, Transect	T-OCA-6	C2R	12	in	1.7 *J*	20.2	205	40.9	92.7	43.6	
Hist., Streambed	T-5	B	12	in					1,400		
Hist., Streambed	T-6	B	12	in		22.0			733		
Hist., Streambed	T-7	B	12	in					460		
Hist., Streambed	T-4	C1L	12	in					18.0		
Hist., Streambed	T-5	C1L	12	in		116			7,620		
Hist., Streambed	T-6	C1L	12	in					14.5		
Hist., Streambed	T-7	C1L	12	in		17.2			1,440		
Hist., Streambed	T-8	C1L	12	in					182		
Hist., Streambed	T-9	C1L	12	in					442		
Hist., Streambed	T-5	C1R	12	in		222			6,930		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Hist., Streambed	T-7	C1R	12	in		113			6,780		
Hist., Streambed	T-8	C1R	12	in					655		
Hist., Overbank	M-1	B	12	in		195			2,720		
Hist., Overbank	M-2	B	12	in					6,370		
Hist., Overbank	M-3	B	12	in					48.6		
Hist., Overbank	M-4	B	12	in					5,840		
Hist., Overbank	M-5	B	12	in		17.9			126		
PTI, RI,Core	C-OCA-1		18	in					116 *J*		
PTI, RI,Core	C-OCA-2		18	in					2,310 *J*		
PTI, RI,Core	C-OCA-3		18	in					24.0 *J*		
PTI, RI,Core	C-OCA-4		18	in					14.4 *J*		
PTI, RI,Core	C-OCA-5		18	in	1.4 *UJ*	14.7	194 *J*	20.2	42.6	28.7	
PTI, RI,Core	C-OCA-6		18	in					23.8		
PTI, RI,Core	C-OCA-7		18	in					268		
PTI, RI,Core	C-OCA-8		18	in	0.98 *UJ*	16.4	62.7 *J*	6.0	19.0	14.5	
PTI, RI,Core	C-OCA-9		18	in					23.3 *J*		
PTI, RI,Core	C-OCA-10		18	in					483 *J*		
PTI, RI,Core	C-OCA-11		18	in					20.3 *J*		
PTI, RI,Core	C-OCA-12		18	in					13.1 *J*		
PTI,RI, Transect	T-OCA-1	B	18	in					9.5		
PTI,RI, Transect	T-OCA-3	B	18	in					8.3		
PTI,RI, Transect	T-OCA-4	B	18	in	0.72 *U*	13.4	112 *J*	11.5	19.0	26.1	
PTI,RI, Transect	T-OCA-5	B	18	in					31.9		
PTI,RI, Transect	T-OCA-6	B	18	in	1.9 *UJ*	13.5	199	19.7	30.6	31.1	
PTI,RI, Transect	T-OCA-1	C1L	18	in					22.9		
PTI,RI, Transect	T-OCA-1	C1R	18	in					11.0		
PTI,RI, Transect	T-OCA-2	C1L	18	in					144		
PTI,RI, Transect	T-OCA-2	C1R	18	in					17.2		
PTI,RI, Transect	T-OCA-3	C1L	18	in					19.1		
PTI,RI, Transect	T-OCA-3	C1R	18	in					24.8		
PTI,RI, Transect	T-OCA-4	C1L	18	in					35.5		
PTI,RI, Transect	T-OCA-4	C1R	18	in	4.0	29.8	242 *J*	52.0	155	39.8	
PTI,RI, Transect	T-OCA-5	C1L	18	in					23.2		
PTI,RI, Transect	T-OCA-5	C1R	18	in					63.6		
PTI,RI, Transect	T-OCA-6	C1L	18	in					33.4		
PTI,RI, Transect	T-OCA-6	C1R	18	in					33.1		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
PTI,RI, Transect	T-OCA-1	C2L	18	in					22.2		
PTI,RI, Transect	T-OCA-1	C2R	18	in					24.8		
PTI,RI, Transect	T-OCA-2	C2L	18	in					22.3		
PTI,RI, Transect	T-OCA-2	C2R	18	in					35.2		
PTI,RI, Transect	T-OCA-3	C2L	18	in	1.4 *J*	15.9	162 *J*	40.6 *J*	81.5	34.5	
PTI,RI, Transect	T-OCA-3	C2R	18	in					22.9		
PTI,RI, Transect	T-OCA-4	C2L	18	in	1.4	16.9	182 *J*	69.5	109	37.9	
PTI,RI, Transect	T-OCA-4	C2R	18	in	3.9	22.5	187 *J*	42.6	230	37.6	
PTI,RI, Transect	T-OCA-5	C2L	18	in					29.7		
PTI,RI, Transect	T-OCA-5	C2R	18	in					12.4		
PTI,RI, Transect	T-OCA-6	C2L	18	in					25.5		
PTI,RI, Transect	T-OCA-6	C2R	18	in					39.6		
Hist., Streambed	T-5	B	18	in					46.0		
Hist., Streambed	T-6	B	18	in		27.2			781		
Hist., Streambed	T-7	B	18	in					610		
Hist., Overbank	M-1	B	18	in		50.4			145		
Hist., Overbank	M-2	B	18	in					32.3		
Hist., Overbank	M-3	B	18	in					27.2		
Hist., Overbank	M-4	B	18	in					5,950		
Hist., Overbank	M-5	B	18	in		0.97			15.1		
PTI, RI,Core	C-OCA-1		24	in					7.0 *J*		
PTI, RI,Core	C-OCA-2		24	in					17.7 *J*		
PTI, RI,Core	C-OCA-3		24	in					18.6 *J*		
PTI, RI,Core	C-OCA-5		24	in					22.0		
PTI, RI,Core	C-OCA-6		24	in					22.8		
PTI, RI,Core	C-OCA-7		24	in					56.1		
PTI, RI,Core	C-OCA-8		24	in					28.2		
PTI, RI,Core	C-OCA-9		24	in	2.1	14.9	130 *J*	13.6	127 *J*	31.1	
PTI, RI,Core	C-OCA-10		24	in					22.9 *J*		
PTI, RI,Core	C-OCA-11		24	in					22.9 *J*		
PTI, RI,Core	C-OCA-12		24	in					17.3		
PTI,RI, Transect	T-OCA-1	B	24	in					9.5		
PTI,RI, Transect	T-OCA-4	B	24	in					18.2		
PTI,RI, Transect	T-OCA-5	B	24	in					30.3		
PTI,RI, Transect	T-OCA-6	B	24	in					19.9		
Hist., Streambed	T-6	B	24	in					910		

Table F-7A. (cont.)

Reference	Station	Location[a]	Max Depth	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	TPH (mg/kg)
Hist., Overbank	M-1	B	24 in		20.9			397		
Hist., Overbank	M-2	B	24 in					12.8		
Hist., Overbank	M-3	B	24 in					32.2		
Hist., Overbank	M-4	B	24 in					23.1		
Hist., Overbank	M-5	B	24 in		27.0			119		
PTI, RI,Core	C-OCA-2		30 in					5.6 *J*		
PTI, RI,Core	C-OCA-5		30 in					22.6		
PTI, RI,Core	C-OCA-6		30 in					14.4		
PTI, RI,Core	C-OCA-8		30 in					21.7		
PTI, RI,Core	C-OCA-9		30 in					14.4 *J*		
PTI, RI,Core	C-OCA-10		30 in					22.1 *J*		
PTI, RI,Core	C-OCA-11		30 in					20.6 *J*		
PTI, RI,Core	C-OCA-12		30 in					17.3		
PTI,RI, Transect	T-OCA-1	B	30 in					9.5		
PTI,RI, Transect	T-OCA-4	B	30 in					17.1		
PTI,RI, Transect	T-OCA-5	B	30 in	1.6 *UJ*	18.9	211	19.5	27.7	33.0	
PTI,RI, Transect	T-OCA-6	B	30 in	1.8 *UJ*	9.4	174	14.6	18.0	28.5	
Hist., Streambed	T-6	B	30 in					120		
Hist., Overbank	M-1	B	30 in		1.11			10.9		
Hist., Overbank	M-2	B	30 in					129		
Hist., Overbank	M-3	B	30 in					25.1		
Hist., Overbank	M-4	B	30 in					79.7		
Hist., Overbank	M-5	B	30 in		1.1			21.5		

Notes: TPH - total petroleum hydrocarbon

Qualifier: *J* - estimated value
U - undetected at detection limit shown

[a] Location symbols mean:

A - refers to composite surface sample of ditch sediments
B - refers to core samples taken below sediments
C - refers to samples taken on the left (L) or right (R) side of the streambed.

Table F-7B. Supplemental RI sampling results for lead—Offsite Creek Area

Station	Location	Depth (in.)	Lead (mg/kg)
Interim Action Samples			
IA-1	IA-01	0–6	21.3
IA-1	IA-01	6–12	12.9
IA-2	IA-02	0–6	27.45
IA-2	IA-02	6–12	10.7
IA-3	IA-03	0–6	30.7
IA-3	IA-03	6–12	14.3
IA-4	IA-04	0–6	24.4
IA-4	IA-04	6–12	9.4
IA-5	IA-05	0–6	38.1
IA-5	IA-05	6–12	83.6
IA-5	IA-05	12–18	9,880
IA-5	IA-05	18–24	13,300
IA-5	IA-05	24–30	158
IA-5	IA-05	30–36	17.6
IA-5	IA-05	36–42	14.5
IA-5	IA-05	42–48	16.1
IA-5	IA-05	48–54	94.6
IA-5	IA-05	54–60	19.4
IA-5	IA-05	60–66	12.2
IA-5	IA-05	66–72	7.8
IA-5	IA-05	72–78	123
IA-5	IA-05	78–84	15.6
IA-5	IA-05	84–90	5.1
IA-6	IA-06	0–6	264
IA-6	IA-06	6–12	30.3
IA-7	IA-07	0–6	25.1
IA-7	IA-07	6–12	9.8
IA-10	IA-10	0–6	22.5
IA-10	IA-10	6–12	8.4
IA-11	IA-11	0–6	16.9
IA-11	IA-11	6–12	8.9
IA-15	IA-15	0–6	169
IA-15	IA-15	6–12	439
IA-15	IA-15	12–18	1,350
IA-15	IA-15	18–24	2,460
IA-15	IA-15	24–30	85.4
IA-15	IA-15	30–36	8.8
Core Samples			
C-OCA-13	A	0–6	4,550 *J*
C-OCA-13	B	6–12	7,200 *J*
C-OCA-13	B	12–18	4,540 *J*

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
C-OCA-13	B	18–24	49.0 *J*
C-OCA-13	B	24–30	37.8 *J*
C-OCA-13	B	30–36	ARC
C-OCA-14	A	0–6	1,890 *J*
C-OCA-14	B	6–12	1,340 *J*
C-OCA-14	B	12–18	17.5 *J*
C-OCA-14	B	18–24	14.9 *J*
C-OCA-14	B	24–30	9.1 *J*
C-OCA-15	A	0–6	1,620
C-OCA-15	B	6–12	5,240
C-OCA-15	B	12–18	10,800
C-OCA-15	B	18–24	198
C-OCA-15	B	24–30	24.2 *J*
C-OCA-15	B	30–36	ARC
C-OCA-16	A	0–6	1,100 *J*
C-OCA-16	B	6–12	580 *J*
C-OCA-16	B	12–18	1,740 *J*
C-OCA-16	B	18–24	6,310 *J*
C-OCA-16	B	24–30	102 *J*
C-OCA-16	B	30–36	22.4
C-OCA-17	A	0–6	3,460 *J*
C-OCA-17	B	6–12	10,500 *J*
C-OCA-17	B	12–18	155 *J*
C-OCA-17	B	18–24	26.8 *J*
C-OCA-18	A	0–6	706 *J*
C-OCA-18	B	6–12	585 *J*
C-OCA-18	B	12–18	20.9 *J*
C-OCA-18	B	18–24	22.9 *J*
C-OCA-18	B	24–30	21.1 *J*
C-OCA-19	A	0–6	10,100 *J*
C-OCA-19	B	6–12	12,450 *J*
C-OCA-19	B	12–18	247 *J*
C-OCA-19	B	18–24	41.1 *J*
C-OCA-19	B	24–30	37.3 *J*
C-OCA-19	B	30–36	ARC
C-OCA-20	A	0–6	8,510
C-OCA-20	B	6–12	7,350
C-OCA-20	B	12–18	71.5
C-OCA-20	B	18–24	31.7
C-OCA-20	B	24–30	49.1
C-OCA-20	B	30–36	ARC
C-OCA-21	A	0–6	3,160
C-OCA-21	B	6–12	3,070

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
C-OCA-21	B	12–18	81.1
C-OCA-21	B	18–24	31.1
C-OCA-21	B	12–24	--
C-OCA-21	B	24–30	24.6
C-OCA-21	B	30–36	ARC
C-OCA-22	A	0–6	1,670 *J*
C-OCA-22	B	6–12	615 *J*
C-OCA-22	B	12–18	25.8 *J*
C-OCA-22	B	18–24	23.0 *J*
C-OCA-23	A	0–6	406 *J*
C-OCA-23	B	6–12	383 *J*
C-OCA-23	B	12–18	52.8 *J*
C-OCA-23	B	18–24	20.2 *J*
C-OCA-23	B	24–30	16.7 *J*
Transect Samples			
T-OCA-7	A	0–6	66.4
T-OCA-8	A	0–6	120 *J*
T-OCA-9	A	0–6	162
T-OCA-10	A	0–6	1,610
T-OCA-11	A	0–6	625
T-OCA-12	A	0–6	174
T-OCA-13	A	0–6	69.3
T-OCA-14	A	0–6	36.9
T-OCA-15	A	0–6	136
T-OCA-16	A	0–6	174
T-OCA-19	A	0–6	61.3
T-OCA-20	A	0–6	209
T-OCA-21	A	0–6	90.9
T-OCA-22	A	0–6	61.6 *J*
T-OCA-23	A	0–6	60.5
T-OCA-24	A	0–6	73.8 *J*
T-OCA-25	A	0–6	71.4 *J*
T-OCA-27	A	0–6	60.1
T-OCA-28	A	0–6	59.4
T-OCA-29	A	0–6	121.05
T-OCA-30	A	0–6	438
T-OCA-31	A	0–6	36.9
T-OCA-32	A	0–6	10.6
T-OCA-33	A	0–6	91.8
T-OCA-34	A	0–6	99.0
T-OCA-35	A	0–6	74.5
T-OCA-36	A	0–6	141
T-OCA-37	A	0–6	219
T-OCA-38	A	0–6	180
T-OCA-39	A	0–6	127
T-OCA-40	A	0–6	139
T-OCA-41	A	0–6	236
T-OCA-42	A	0–6	217.5
T-OCA-43	A	0–6	252
T-OCA-44	A	0–6	303.5
T-OCA-45	A	0–6	168.5

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-46	A	0–6	454.5
T-OCA-47	A	0–6	673.5 *J*
T-OCA-48	A	0–6	83.4
T-OCA-49	A	0–6	15.6
T-OCA-50	A	0–6	137
T-OCA-51	A	0–6	386
T-OCA-7	B	6–12	59.3
T-OCA-8	B	6–12	40.7 *J*
T-OCA-9	B	6–12	103
T-OCA-10	B	6–12	968
T-OCA-11	B	6–12	14.7
T-OCA-12	B	6–12	97.9
T-OCA-13	B	6–12	6.2
T-OCA-14	B	6–8	6.9
T-OCA-15	B	6–12	116
T-OCA-16	B	6–12	444
T-OCA-19	B	6–12	50.5
T-OCA-20	B	6–12	226
T-OCA-21	B	6–12	241
T-OCA-22	B	6–12	32.1 *J*
T-OCA-23	B	6–12	175
T-OCA-24	B	6–12	169 *J*
T-OCA-25	B	6–12	67.4 *J*
T-OCA-27	B	6–12	82.1
T-OCA-28	B	6–12	58.9
T-OCA-29	B	6–12	121
T-OCA-30	B	6–12	20.3
T-OCA-31	B	6–12	114
T-OCA-32	B	6–12	8.9
T-OCA-33	B	6–12	161
T-OCA-34	B	6–12	204
T-OCA-35	B	6–12	262
T-OCA-36	B	6–12	30.9
T-OCA-37	B	6–12	25.6
T-OCA-38	B	6–12	73.5
T-OCA-39	B	6–12	200
T-OCA-40	B	6–12	143.5
T-OCA-41	B	6–12	171
T-OCA-42	B	6–12	157
T-OCA-43	B	6–12	230
T-OCA-44	B	6–12	286
T-OCA-45	B	6–12	364
T-OCA-46	B	6–12	306
T-OCA-47	B	6–12	803 *J*
T-OCA-48	B	6–12	65.9
T-OCA-49	B	6–12	15.5
T-OCA-50	B	6–12	32.4
T-OCA-51	B	6–12	21.2
T-OCA-7	B	12–18	133
T-OCA-8	B	12–18	23.2 *J*
T-OCA-9	B	12–18	194

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-10	B	12–18	391
T-OCA-12	B	12–18	86.3
T-OCA-13	B	12–18	4.3
T-OCA-15	B	12–18	80.4
T-OCA-16	B	12–18	1,670
T-OCA-19	B	12–18	36.2
T-OCA-20	B	12–18	54.5
T-OCA-21	B	12–18	162
T-OCA-22	B	12–18	10.8 *J*
T-OCA-23	B	12–18	118
T-OCA-24	B	12–18	68.6 *J*
T-OCA-25	B	12–18	22.2 *J*
T-OCA-27	B	12–18	80.7
T-OCA-28	B	12–18	22.6
T-OCA-29	B	12–18	85.5
T-OCA-30	B	12–18	18.8
T-OCA-31	B	12–18	411
T-OCA-32	B	12–18	115
T-OCA-33	B	12–18	11.8
T-OCA-34	B	12–18	28.7
T-OCA-35	B	12–18	19.2
T-OCA-36	B	12–18	12.5
T-OCA-37	B	12–18	13.9
T-OCA-38	B	12–18	87.6
T-OCA-39	B	12–18	195
T-OCA-40	B	12–18	183
T-OCA-41	B	12–18	162
T-OCA-42	B	12–18	203
T-OCA-43	B	12–18	274
T-OCA-44	B	12–18	217
T-OCA-45	B	12–18	368
T-OCA-46	B	12–18	234
T-OCA-47	B	12–18	1,020 *J*
T-OCA-48	B	12–18	880
T-OCA-49	B	12–18	16.1
T-OCA-50	B	12–18	24.0
T-OCA-51	B	12–18	12.0
T-OCA-7	B	18–24	ARC
T-OCA-8	B	18–24	ARC
T-OCA-9	B	18–24	ARC
T-OCA-10	B	18–20	ARC
T-OCA-15	B	18–24	ARC
T-OCA-16	B	18–24	60.5
T-OCA-19	B	18–24	ARC
T-OCA-20	B	18–24	ARC
T-OCA-21	B	18–24	ARC
T-OCA-22	B	18–24	ARC
T-OCA-23	B	18–24	ARC
T-OCA-24	B	18–24	ARC
T-OCA-25	B	18–24	ARC
T-OCA-27	B	18–24	ARC
T-OCA-28	B	18–24	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-29	B	18–24	ARC
T-OCA-30	B	18–24	ARC
T-OCA-31	B	18–24	259
T-OCA-32	B	18–24	ARC
T-OCA-33	B	18–24	ARC
T-OCA-34	B	18–24	ARC
T-OCA-35	B	18–24	ARC
T-OCA-36	B	18–24	ARC
T-OCA-37	B	18–24	ARC
T-OCA-38	B	18–24	ARC
T-OCA-39	B	18–24	ARC
T-OCA-40	B	18–24	ARC
T-OCA-41	B	18–24	131
T-OCA-42	B	18–24	249.5
T-OCA-43	B	18–24	215
T-OCA-44	B	18–24	322
T-OCA-45	B	18–24	538
T-OCA-46	B	18–24	486
T-OCA-47	B	18–24	178
T-OCA-48	B	18–24	816
T-OCA-49	B	18–20	14.3
T-OCA-50	B	18–24	ARC
T-OCA-51	B	18–24	10.3
T-OCA-7	B	24–30	ARC
T-OCA-19	B	24–30	ARC
T-OCA-20	B	24–30	ARC
T-OCA-21	B	24–30	ARC
T-OCA-22	B	24–30	ARC
T-OCA-23	B	24–30	ARC
T-OCA-24	B	24–30	ARC
T-OCA-25	B	24–30	ARC
T-OCA-27	B	24–30	ARC
T-OCA-28	B	24–30	ARC
T-OCA-29	B	24–30	ARC
T-OCA-30	B	24–30	ARC
T-OCA-31	B	24–30	42.8
T-OCA-32	B	24–30	ARC
T-OCA-33	B	24–30	ARC
T-OCA-34	B	24–30	ARC
T-OCA-35	B	24–30	ARC
T-OCA-36	B	24–30	ARC
T-OCA-37	B	24–30	ARC
T-OCA-38	B	24–30	ARC
T-OCA-39	B	24–30	ARC
T-OCA-40	B	24–30	ARC
T-OCA-41	B	24–30	ARC
T-OCA-42	B	24–30	ARC
T-OCA-43	B	24–30	ARC
T-OCA-44	B	24–30	ARC
T-OCA-45	B	24–30	438
T-OCA-46	B	24–30	174
T-OCA-47	B	24–30	127

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-48	B	24–30	23.3
T-OCA-50	B	24–30	ARC
T-OCA-51	B	24–30	ARC
T-OCA-7	C1L	0–6	83.7
T-OCA-7	C1R	0–6	56.2
T-OCA-8	C1L	0–6	27.15 *J*
T-OCA-8	C1R	0–6	23.1 *J*
T-OCA-9	C1L	0–6	47.6
T-OCA-9	C1R	0–6	133
T-OCA-10	C1L	0–6	7,820
T-OCA-10	C1R	0–6	238.5
T-OCA-11	C1L	0–6	1,760
T-OCA-11	C1R	0–6	392
T-OCA-12	C1L	0–6	2,570
T-OCA-12	C1R	0–6	6,020
T-OCA-13	C1L	0–6	357
T-OCA-13	C1R	0–6	8.6
T-OCA-14	C1L	0–6	918
T-OCA-14	C1R	0–6	1,050
T-OCA-15	C1L	0–6	282
T-OCA-15	C1R	0–6	29.3
T-OCA-16	C1L	0–6	5,400
T-OCA-16	C1R	0–6	611
T-OCA-19	C1L	0–6	12.7
T-OCA-19	C1R	0–6	21.8
T-OCA-20	C1L	0–6	197
T-OCA-20	C1R	0–6	12.8
T-OCA-21	C1L	0–6	16.1
T-OCA-21	C1R	0–6	37.6
T-OCA-22	C1L	0–6	52.0 *J*
T-OCA-22	C1R	0–6	14.3 *J*
T-OCA-23	C1L	0–6	70.25
T-OCA-23	C1R	0–6	16.7
T-OCA-24	C1L	0–6	27.2 *J*
T-OCA-24	C1R	0–6	21.4 *J*
T-OCA-25	C1L	0–6	16.6 *J*
T-OCA-25	C1R	0–6	35.3 *J*
T-OCA-27	C1L	0–6	16.2
T-OCA-27	C1R	0–6	101
T-OCA-28	C1L	0–6	21.7
T-OCA-28	C1R	0–6	18.2
T-OCA-29	C1L	0–6	21.4
T-OCA-29	C1R	0–6	305
T-OCA-30	C1L	0–6	29.0
T-OCA-30	C1R	0–6	16.1
T-OCA-31	C1L	0–6	455
T-OCA-31	C1R	0–6	319
T-OCA-32	C1L	0–6	39.4
T-OCA-32	C1R	0–6	586
T-OCA-33	C1L	0–6	83.1
T-OCA-33	C1R	0–6	16.65
T-OCA-34	C1L	0–6	614

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-34	C1R	0–6	12.2
T-OCA-35	C1L	0–6	77.85
T-OCA-35	C1R	0–6	17.0
T-OCA-36	C1L	0–6	16.5
T-OCA-36	C1R	0–6	62.5
T-OCA-37	C1L	0–6	552
T-OCA-37	C1R	0–6	36.8
T-OCA-38	C1L	0–6	132
T-OCA-38	C1R	0–6	13.6
T-OCA-39	C1L	0–6	481
T-OCA-39	C1R	0–6	78.1
T-OCA-40	C1L	0–6	38.8
T-OCA-40	C1R	0–6	131
T-OCA-41	C1L	0–6	28.7
T-OCA-41	C1R	0–6	97.0
T-OCA-42	C1L	0–6	13.4
T-OCA-42	C1R	0–6	71.8
T-OCA-43	C1L	0–6	17.9
T-OCA-43	C1R	0–6	177
T-OCA-44	C1L	0–6	101
T-OCA-44	C1R	0–6	63.9
T-OCA-45	C1L	0–6	30.7
T-OCA-45	C1R	0–6	622
T-OCA-46	C1L	0–6	55.6
T-OCA-46	C1R	0–6	56.7 *J*
T-OCA-47	C1L	0–6	49.9 *J*
T-OCA-47	C1R	0–6	58.0 *J*
T-OCA-48	C1L	0–6	192
T-OCA-48	C1R	0–6	23.3
T-OCA-49	C1L	0–6	64.6
T-OCA-49	C1R	0–6	73.5
T-OCA-7	C1L	6–12	22.1
T-OCA-7	C1R	6–12	20.5
T-OCA-8	C1L	6–12	12.9 *J*
T-OCA-8	C1R	6–12	8.9 *J*
T-OCA-9	C1L	6–12	10.5
T-OCA-9	C1R	6–12	99.9
T-OCA-10	C1L	6–12	201
T-OCA-10	C1R	6–12	17.3
T-OCA-11	C1L	6–12	178
T-OCA-11	C1R	6–12	15.3
T-OCA-12	C1L	6–12	84.8
T-OCA-12	C1R	6–12	3,760
T-OCA-13	C1L	6–12	13.4
T-OCA-13	C1R	6–12	10.9
T-OCA-14	C1L	6–12	94.2
T-OCA-14	C1R	6–12	1,960
T-OCA-15	C1L	6–12	122
T-OCA-15	C1R	6–12	8.1
T-OCA-16	C1L	6–12	1,580
T-OCA-16	C1R	6–12	92.9
T-OCA-19	C1L	6–12	11.7

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-19	C1R	6–12	12.2
T-OCA-20	C1L	6–12	28.4
T-OCA-20	C1R	6–12	12.4
T-OCA-21	C1L	6–12	14.0
T-OCA-21	C1R	6–12	17.2
T-OCA-22	C1L	6–12	13.8 *J*
T-OCA-22	C1R	6–12	14.2 *J*
T-OCA-23	C1L	6–12	26.9
T-OCA-23	C1R	6–12	12.8
T-OCA-24	C1L	6–12	14.6 *J*
T-OCA-24	C1R	6–12	18.6 *J*
T-OCA-25	C1L	6–12	23.25 *J*
T-OCA-25	C1R	6–12	14.4 *J*
T-OCA-27	C1L	6–12	14.7
T-OCA-27	C1R	6–12	10.9
T-OCA-28	C1L	6–12	15.4
T-OCA-28	C1R	6–12	14.1
T-OCA-29	C1L	6–12	16.5
T-OCA-29	C1R	6–12	260
T-OCA-30	C1L	6–12	27.8
T-OCA-30	C1R	6–12	19.4
T-OCA-31	C1L	6–12	78.1
T-OCA-31	C1R	6–12	21.9
T-OCA-32	C1L	6–12	9.8
T-OCA-32	C1R	6–12	607
T-OCA-33	C1L	6–12	15.2
T-OCA-33	C1R	6–12	13.5
T-OCA-34	C1L	6–12	358
T-OCA-34	C1R	6–12	12.4
T-OCA-35	C1L	6–12	11.9
T-OCA-35	C1R	6–12	22.1
T-OCA-36	C1L	6–12	11.3
T-OCA-36	C1R	6–12	12.1
T-OCA-37	C1L	6–12	67.1
T-OCA-37	C1R	6–12	19.7
T-OCA-38	C1L	6–12	24.0
T-OCA-38	C1R	6–12	20.1
T-OCA-39	C1L	6–12	346.5
T-OCA-39	C1R	6–12	17.8
T-OCA-40	C1L	6–12	12.8
T-OCA-40	C1R	6–12	44.2
T-OCA-41	C1L	6–12	23.3
T-OCA-41	C1R	6–12	18.7
T-OCA-42	C1L	6–12	10.4
T-OCA-42	C1R	6–12	16.5
T-OCA-43	C1L	6–12	13.8
T-OCA-43	C1R	6–12	79.6
T-OCA-44	C1L	6–12	31.3
T-OCA-44	C1R	6–12	105
T-OCA-45	C1L	6–12	10.3
T-OCA-45	C1R	6–12	543
T-OCA-46	C1L	6–12	42.5
T-OCA-46	C1R	6–12	31.6 *J*

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-47	C1L	6–12	36.2 *J*
T-OCA-47	C1R	6–12	53.1 *J*
T-OCA-48	C1L	6–12	23.7
T-OCA-48	C1R	6–12	17.4
T-OCA-49	C1L	6–12	18.6
T-OCA-49	C1R	6–12	19.3
T-OCA-7	C1L	12–18	412
T-OCA-7	C1R	12–18	9.1
T-OCA-8	C1L	12–18	11.5 *J*
T-OCA-8	C1R	12–18	10.2 *J*
T-OCA-9	C1L	12–18	4.8
T-OCA-9	C1R	12–18	11.6
T-OCA-10	C1L	12–18	18.8
T-OCA-10	C1R	12–18	18.6
T-OCA-11	C1L	12–18	14.5
T-OCA-11	C1R	12–18	10.9
T-OCA-12	C1L	12–18	17.9
T-OCA-12	C1R	12–18	259
T-OCA-13	C1R	12–14	7.9
T-OCA-14	C1L	12–18	23.7
T-OCA-15	C1L	12–18	13.2
T-OCA-15	C1R	12–18	19.4
T-OCA-16	C1L	12–18	89.7
T-OCA-16	C1R	12–18	7.3
T-OCA-19	C1L	12–18	11.6
T-OCA-19	C1R	12–18	12.3
T-OCA-20	C1L	12–18	27.9
T-OCA-20	C1R	12–18	11.8
T-OCA-21	C1L	12–18	14.9
T-OCA-21	C1R	12–18	18.3
T-OCA-22	C1L	12–18	13.6 *J*
T-OCA-22	C1R	12–18	13.5 *J*
T-OCA-23	C1L	12–18	25.3
T-OCA-23	C1R	12–18	13.1
T-OCA-24	C1L	12–18	13.6 *J*
T-OCA-24	C1R	12–18	13.9 *J*
T-OCA-25	C1L	12–18	13.5 *J*
T-OCA-25	C1R	12–18	12.2 *J*
T-OCA-27	C1L	12–18	11.9
T-OCA-27	C1R	12–18	19.9
T-OCA-28	C1L	12–18	14.1
T-OCA-28	C1R	12–18	14.8
T-OCA-29	C1L	12–18	14.3
T-OCA-29	C1R	12–18	141
T-OCA-30	C1L	12–18	18.5
T-OCA-30	C1R	12–18	19.9
T-OCA-31	C1L	12–18	18.7
T-OCA-31	C1R	12–18	16.2
T-OCA-32	C1L	12–18	5.9
T-OCA-32	C1R	12–18	362
T-OCA-33	C1L	12–18	9.1

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-33	C1R	12–18	9.9
T-OCA-34	C1L	12–18	24.1
T-OCA-34	C1R	12–18	18.7
T-OCA-35	C1L	12–18	12.9
T-OCA-35	C1R	12–18	11.0
T-OCA-36	C1L	12–18	8.1
T-OCA-36	C1R	12–18	17.2
T-OCA-37	C1L	12–18	16.5
T-OCA-37	C1R	12–18	15.0
T-OCA-38	C1L	12–18	34.1
T-OCA-38	C1R	12–18	8.3
T-OCA-39	C1L	12–18	20.7
T-OCA-39	C1R	12–18	21.8
T-OCA-40	C1L	12–18	14.3
T-OCA-40	C1R	12–18	7.7
T-OCA-41	C1L	12–18	16.8
T-OCA-41	C1R	12–18	9.0
T-OCA-42	C1L	12–18	12.1
T-OCA-42	C1R	12–18	16.1
T-OCA-43	C1L	12–18	18.8
T-OCA-43	C1R	12–18	14.2
T-OCA-44	C1L	12–18	16.6
T-OCA-44	C1R	12–18	29.4
T-OCA-45	C1L	12–18	10.7
T-OCA-45	C1R	12–18	260
T-OCA-46	C1L	12–18	24.8
T-OCA-46	C1R	12–18	26.3 *J*
T-OCA-47	C1L	12–18	22.5 *J*
T-OCA-47	C1R	12–18	33.8 *J*
T-OCA-48	C1L	12–18	14.9
T-OCA-48	C1R	12–18	19.9
T-OCA-49	C1L	12–18	16.6
T-OCA-49	C1R	12–18	21.7
T-OCA-7	C1L	18–24	ARC
T-OCA-7	C1R	18–24	ARC
T-OCA-8	C1L	18–24	ARC
T-OCA-8	C1R	18–24	ARC
T-OCA-9	C1L	18–24	ARC
T-OCA-9	C1R	18–24	ARC
T-OCA-10	C1L	18–24	ARC
T-OCA-10	C1R	18–24	ARC
T-OCA-11	C1L	18–24	ARC
T-OCA-11	C1R	18–24	ARC
T-OCA-12	C1L	18–23	ARC
T-OCA-12	C1R	18–24	ARC
T-OCA-14	C1L	18–24	ARC
T-OCA-15	C1L	18–24	ARC
T-OCA-15	C1R	18–24	ARC
T-OCA-16	C1L	18–24	17.7
T-OCA-16	C1R	18–24	ARC
T-OCA-19	C1L	18–24	ARC
T-OCA-19	C1R	18–24	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-20	C1L	18–24	ARC
T-OCA-20	C1R	18–24	ARC
T-OCA-21	C1L	18–24	ARC
T-OCA-21	C1R	18–24	ARC
T-OCA-22	C1L	18–24	ARC
T-OCA-22	C1R	18–24	ARC
T-OCA-23	C1L	18–24	ARC
T-OCA-23	C1R	18–24	ARC
T-OCA-24	C1L	18–24	ARC
T-OCA-24	C1R	18–24	ARC
T-OCA-25	C1L	18–24	ARC
T-OCA-25	C1R	18–24	ARC
T-OCA-27	C1L	18–24	ARC
T-OCA-27	C1R	18–24	ARC
T-OCA-28	C1L	18–24	ARC
T-OCA-28	C1R	18–24	ARC
T-OCA-29	C1L	18–24	ARC
T-OCA-29	C1R	18–24	ARC
T-OCA-30	C1L	18–24	ARC
T-OCA-30	C1R	18–24	ARC
T-OCA-31	C1L	18–24	ARC
T-OCA-31	C1R	18–24	ARC
T-OCA-32	C1L	18–24	ARC
T-OCA-32	C1R	18–24	ARC
T-OCA-33	C1L	18–24	ARC
T-OCA-33	C1R	18–24	ARC
T-OCA-34	C1L	18–24	ARC
T-OCA-34	C1R	18–24	ARC
T-OCA-35	C1L	18–24	ARC
T-OCA-35	C1R	18–24	ARC
T-OCA-36	C1L	18–24	ARC
T-OCA-36	C1R	18–24	ARC
T-OCA-37	C1L	18–24	ARC
T-OCA-37	C1R	18–24	ARC
T-OCA-38	C1L	18–24	ARC
T-OCA-38	C1R	18–24	ARC
T-OCA-39	C1L	18–24	ARC
T-OCA-39	C1R	18–24	ARC
T-OCA-40	C1L	18–24	ARC
T-OCA-40	C1R	18–24	ARC
T-OCA-41	C1L	18–24	ARC
T-OCA-41	C1R	18–24	ARC
T-OCA-42	C1L	18–24	ARC
T-OCA-42	C1R	18–24	ARC
T-OCA-43	C1L	18–24	ARC
T-OCA-43	C1R	18–24	ARC
T-OCA-44	C1L	18–24	ARC
T-OCA-44	C1R	18–24	ARC
T-OCA-45	C1L	18–24	ARC
T-OCA-45	C1R	18–24	ARC
T-OCA-46	C1L	18–24	ARC
T-OCA-46	C1R	18–24	ARC
T-OCA-47	C1L	18–24	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-47	C1R	18–24	ARC
T-OCA-48	C1L	18–24	ARC
T-OCA-48	C1R	18–24	ARC
T-OCA-49	C1L	18–24	14.9
T-OCA-49	C1R	18–24	16.9
T-OCA-7	C1L	24–30	ARC
T-OCA-7	C1R	24–30	ARC
T-OCA-8	C1L	24–30	ARC
T-OCA-8	C1R	24–30	ARC
T-OCA-9	C1L	24–30	ARC
T-OCA-9	C1R	24–30	ARC
T-OCA-10	C1L	24–30	ARC
T-OCA-10	C1R	24–30	ARC
T-OCA-11	C1L	24–30	ARC
T-OCA-11	C1R	24–30	ARC
T-OCA-12	C1R	24–30	ARC
T-OCA-14	C1L	24–30	ARC
T-OCA-15	C1L	24–26	ARC
T-OCA-15	C1R	24–26	ARC
T-OCA-16	C1L	24–30	15.7
T-OCA-16	C1R	24–30	ARC
T-OCA-19	C1L	24–30	ARC
T-OCA-19	C1R	24–30	ARC
T-OCA-20	C1L	24–30	ARC
T-OCA-20	C1R	24–30	ARC
T-OCA-21	C1L	24–30	ARC
T-OCA-21	C1R	24–30	ARC
T-OCA-22	C1L	24–30	ARC
T-OCA-22	C1R	24–30	ARC
T-OCA-23	C1L	24–30	ARC
T-OCA-23	C1R	24–30	ARC
T-OCA-24	C1L	24–30	ARC
T-OCA-24	C1R	24–30	ARC
T-OCA-25	C1L	24–30	ARC
T-OCA-25	C1R	24–30	ARC
T-OCA-27	C1L	24–30	ARC
T-OCA-28	C1L	24–30	ARC
T-OCA-28	C1R	24–30	ARC
T-OCA-29	C1L	24–30	ARC
T-OCA-29	C1R	24–30	ARC
T-OCA-30	C1L	24–30	ARC
T-OCA-30	C1R	24–30	ARC
T-OCA-31	C1L	24–30	ARC
T-OCA-31	C1R	24–30	ARC
T-OCA-32	C1L	24–30	ARC
T-OCA-32	C1R	24–30	ARC
T-OCA-33	C1L	24–30	ARC
T-OCA-33	C1R	24–30	ARC
T-OCA-34	C1L	24–30	ARC
T-OCA-34	C1R	24–30	ARC
T-OCA-35	C1L	24–30	ARC
T-OCA-35	C1R	24–30	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-36	C1L	24–30	ARC
T-OCA-36	C1R	24–30	ARC
T-OCA-37	C1L	24–30	ARC
T-OCA-37	C1R	24–30	ARC
T-OCA-38	C1L	24–30	ARC
T-OCA-38	C1R	24–30	ARC
T-OCA-39	C1L	24–30	ARC
T-OCA-39	C1R	24–30	ARC
T-OCA-40	C1L	24–30	ARC
T-OCA-40	C1R	24–30	ARC
T-OCA-41	C1L	24–30	ARC
T-OCA-41	C1R	24–30	ARC
T-OCA-42	C1L	24–30	ARC
T-OCA-42	C1R	24–30	ARC
T-OCA-43	C1L	24–30	ARC
T-OCA-43	C1R	24–30	ARC
T-OCA-44	C1L	24–30	ARC
T-OCA-44	C1R	24–30	ARC
T-OCA-45	C1L	24–30	ARC
T-OCA-45	C1R	24–30	ARC
T-OCA-46	C1L	24–30	ARC
T-OCA-46	C1R	24–30	ARC
T-OCA-47	C1L	24–30	ARC
T-OCA-47	C1R	24–30	ARC
T-OCA-48	C1L	24–30	ARC
T-OCA-48	C1R	24–30	ARC
T-OCA-49	C1L	24–30	14.4
T-OCA-49	C1R	24–30	16.7
T-OCA-7	C2L	0–6	117
T-OCA-7	C2R	0–6	94.6
T-OCA-8	C2L	0–6	407 *J*
T-OCA-8	C2R	0–6	32.4 *J*
T-OCA-9	C2L	0–6	34.3
T-OCA-9	C2R	0–6	504
T-OCA-10	C2L	0–6	2,860
T-OCA-10	C2R	0–6	36.2
T-OCA-11	C2L	0–6	5,030
T-OCA-11	C2R	0–6	59.9
T-OCA-12	C2L	0–6	2,580
T-OCA-12	C2R	0–6	50.0
T-OCA-13	C2L	0–6	4,290
T-OCA-13	C2R	0–6	13.3
T-OCA-14	C2L	0–6	985
T-OCA-14	C2R	0–6	2,350
T-OCA-15	C2L	0–6	1,400
T-OCA-15	C2R	0–6	479.5
T-OCA-16	C2L	0–6	1,910
T-OCA-16	C2R	0–6	148
T-OCA-19	C2L	0–6	50.3
T-OCA-19	C2R	0–6	48.1
T-OCA-20	C2L	0–6	54.9
T-OCA-20	C2R	0–6	23.8

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-21	C2L	0–6	111
T-OCA-21	C2R	0–6	36.0
T-OCA-22	C2L	0–6	36.2 *J*
T-OCA-22	C2R	0–6	29.0 *J*
T-OCA-23	C2L	0–6	40.0
T-OCA-23	C2R	0–6	34.4
T-OCA-24	C2L	0–6	77.2 *J*
T-OCA-24	C2R	0–6	36.9 *J*
T-OCA-25	C2L	0–6	59.7 *J*
T-OCA-25	C2R	0–6	51.4 *J*
T-OCA-27	C2L	0–6	62.2
T-OCA-27	C2R	0–6	53.3
T-OCA-28	C2L	0–6	32.7
T-OCA-28	C2R	0–6	28.05
T-OCA-29	C2L	0–6	295
T-OCA-29	C2R	0–6	836
T-OCA-30	C2L	0–6	ARC
T-OCA-30	C2R	0–6	825.5
T-OCA-31	C2L	0–6	ARC
T-OCA-31	C2R	0–6	368
T-OCA-32	C2L	0–6	ARC
T-OCA-32	C2R	0–6	23.5
T-OCA-33	C2L	0–6	ARC
T-OCA-33	C2R	0–6	65.6
T-OCA-34	C2L	0–6	ARC
T-OCA-34	C2R	0–6	50.1
T-OCA-35	C2L	0–6	ARC
T-OCA-35	C2R	0–6	166
T-OCA-36	C2L	0–6	ARC
T-OCA-36	C2R	0–6	131
T-OCA-37	C2L	0–6	39.3
T-OCA-37	C2R	0–6	37.1
T-OCA-38	C2L	0–6	ARC
T-OCA-38	C2R	0–6	161
T-OCA-39	C2L	0–6	ARC
T-OCA-39	C2R	0–6	195
T-OCA-40	C2L	0–6	ARC
T-OCA-40	C2R	0–6	42.6
T-OCA-41	C2L	0–6	ARC
T-OCA-41	C2R	0–6	155
T-OCA-42	C2L	0–6	ARC
T-OCA-42	C2R	0–6	104
T-OCA-43	C2L	0–6	ARC
T-OCA-43	C2R	0–6	162
T-OCA-44	C2L	0–6	ARC
T-OCA-44	C2R	0–6	515
T-OCA-45	C2L	0–6	ARC
T-OCA-45	C2R	0–6	136
T-OCA-46	C2L	0–6	ARC
T-OCA-46	C2R	0–6	530 *J*
T-OCA-47	C2L	0–6	65.6 *J*
T-OCA-47	C2R	0–6	258
T-OCA-48	C2L	0–6	3,080

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-48	C2R	0–6	2,690
T-OCA-49	C2L	0–6	1,290
T-OCA-49	C2R	0–6	8,600
T-OCA-50	C2L	0–6	4,450
T-OCA-50	C2R	0–6	4,220
T-OCA-51	C2L	0–6	2,740
T-OCA-51	C2R	0–6	68.2
T-OCA-7	C2L	6–12	215
T-OCA-7	C2R	6–12	87.5
T-OCA-8	C2L	6–12	9.4 *J*
T-OCA-8	C2R	6–12	15.2 *J*
T-OCA-9	C2L	6–12	27.3
T-OCA-9	C2R	6–12	142
T-OCA-10	C2L	6–12	5,270
T-OCA-10	C2R	6–12	7.8
T-OCA-11	C2L	6–12	132
T-OCA-11	C2R	6–12	18.6
T-OCA-12	C2L	6–12	5,060
T-OCA-12	C2R	6–12	13.3
T-OCA-13	C2L	6–12	4,000
T-OCA-13	C2R	6–12	10.1
T-OCA-14	C2L	6–12	340
T-OCA-14	C2R	6–12	806
T-OCA-15	C2L	6–12	2,280
T-OCA-15	C2R	6–12	27.5
T-OCA-16	C2L	6–12	843
T-OCA-16	C2R	6–12	15.0
T-OCA-19	C2L	6–12	32.1
T-OCA-19	C2R	6–12	63.1
T-OCA-20	C2L	6–12	32.9
T-OCA-20	C2R	6–12	35.6
T-OCA-21	C2L	6–12	29.5
T-OCA-21	C2R	6–12	30.5
T-OCA-22	C2L	6–12	ARC
T-OCA-22	C2R	6–12	27.5 *J*
T-OCA-23	C2L	6–12	29.6
T-OCA-23	C2R	6–12	28.8 *J*
T-OCA-24	C2L	6–12	51.1 *J*
T-OCA-24	C2R	6–12	64.8
T-OCA-25	C2L	6–12	32.4 *J*
T-OCA-25	C2R	6–12	25.1 *J*
T-OCA-27	C2L	6–12	108
T-OCA-27	C2R	6–12	53.5 *J*
T-OCA-28	C2L	6–12	19.7
T-OCA-28	C2R	6–12	24.8
T-OCA-29	C2L	6–12	75.1
T-OCA-29	C2R	6–12	734
T-OCA-30	C2R	6–12	605
T-OCA-31	C2R	6–12	278
T-OCA-32	C2R	6–12	21.2
T-OCA-33	C2R	6–12	27.9
T-OCA-34	C2R	6–12	26.6

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-35	C2R	6–12	30.0
T-OCA-36	C2R	6–12	71.5
T-OCA-37	C2R	6–12	63.9
T-OCA-38	C2R	6–12	76.5
T-OCA-39	C2R	6–12	61.7
T-OCA-40	C2R	6–12	23.0
T-OCA-41	C2R	6–12	84.9
T-OCA-42	C2R	6–12	63.3
T-OCA-43	C2R	6–12	88.1
T-OCA-44	C2R	6–12	809
T-OCA-45	C2R	6–12	26.3
T-OCA-46	C2R	6–12	309 *J*
T-OCA-47	C2L	6–12	24.5 *J*
T-OCA-47	C2R	6–12	253
T-OCA-48	C2L	6–12	2,400
T-OCA-48	C2R	6–12	275
T-OCA-49	C2L	6–12	2,680
T-OCA-49	C2R	6–12	1,260
T-OCA-50	C2L	6–12	121
T-OCA-50	C2R	6–12	77.5
T-OCA-51	C2L	6–12	3,250
T-OCA-51	C2R	6–12	31.6
T-OCA-7	C2L	12–18	17.9
T-OCA-7	C2R	12–18	88.7
T-OCA-8	C2L	12–18	12.9 *J*
T-OCA-8	C2R	12–18	11.0 *J*
T-OCA-9	C2L	12–18	11.1
T-OCA-9	C2R	12–18	375
T-OCA-10	C2L	12–18	23.4
T-OCA-10	C2R	12–18	8.9
T-OCA-11	C2L	12–18	20.5
T-OCA-11	C2R	12–18	13.3
T-OCA-12	C2L	12–18	629
T-OCA-12	C2R	12–18	6.0
T-OCA-13	C2L	12–18	331
T-OCA-13	C2R	12–18	5.9
T-OCA-14	C2L	12–18	212
T-OCA-14	C2R	12–18	75.9
T-OCA-15	C2L	12–18	2,400
T-OCA-15	C2R	12–18	9.5
T-OCA-16	C2L	12–18	22.1
T-OCA-16	C2R	12–18	8.7
T-OCA-19	C2L	12–18	26.0
T-OCA-19	C2R	12–18	40.3
T-OCA-20	C2L	12–18	25.6
T-OCA-20	C2R	12–18	44.2
T-OCA-21	C2L	12–18	21.3
T-OCA-21	C2R	12–18	27.9
T-OCA-22	C2L	12–18	ARC
T-OCA-22	C2R	12–18	21.1 *J*
T-OCA-23	C2L	12–18	23.9
T-OCA-23	C2R	12–18	16.9 *J*

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-24	C2L	12–18	26.1 *J*
T-OCA-24	C2R	12–18	502
T-OCA-25	C2L	12–18	23.9 *J*
T-OCA-25	C2R	12–18	51.1 *J*
T-OCA-27	C2L	12–18	68.3
T-OCA-27	C2R	12–18	25.5 *J*
T-OCA-28	C2L	12–18	20.5
T-OCA-28	C2R	12–18	25.5
T-OCA-29	C2L	12–18	35.5
T-OCA-29	C2R	12–18	62.6
T-OCA-30	C2R	12–18	742
T-OCA-31	C2R	12–18	397
T-OCA-32	C2R	12–18	10.3
T-OCA-33	C2R	12–18	19.6
T-OCA-34	C2R	12–18	25.6
T-OCA-35	C2R	12–18	25.0
T-OCA-36	C2R	12–18	142
T-OCA-37	C2R	12–18	307
T-OCA-38	C2R	12–18	56.3
T-OCA-39	C2R	12–18	32.3
T-OCA-40	C2R	12–18	67.4
T-OCA-41	C2R	12–18	24.7
T-OCA-42	C2R	12–18	23.4
T-OCA-43	C2R	12–18	81.4
T-OCA-44	C2R	12–18	73.8
T-OCA-45	C2R	12–18	23.5
T-OCA-46	C2R	12–18	153 *J*
T-OCA-47	C2L	12–18	24.0 *J*
T-OCA-47	C2R	12–18	60.0
T-OCA-48	C2L	12–18	71.8
T-OCA-48	C2R	12–18	24.6
T-OCA-49	C2L	12–18	916
T-OCA-49	C2R	12–18	65.2
T-OCA-50	C2L	12–18	50.1
T-OCA-50	C2R	12–18	45.6
T-OCA-51	C2L	12–18	113
T-OCA-51	C2R	12–18	24.7
T-OCA-7	C2L	18–24	ARC
T-OCA-7	C2R	18–24	ARC
T-OCA-8	C2L	18–24	ARC
T-OCA-8	C2R	18–24	ARC
T-OCA-9	C2L	18–24	ARC
T-OCA-9	C2R	18–24	ARC
T-OCA-10	C2L	18–24	ARC
T-OCA-10	C2R	18–24	ARC
T-OCA-11	C2R	18–24	ARC
T-OCA-12	C2L	18–20	109
T-OCA-12	C2R	18–24	ARC
T-OCA-13	C2L	18–24	ARC
T-OCA-13	C2R	18–24	ARC
T-OCA-14	C2L	18–24	ARC
T-OCA-14	C2R	18–24	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-15	C2L	18–24	3,780
T-OCA-15	C2R	18–24	ARC
T-OCA-16	C2L	18–24	31.1
T-OCA-16	C2R	18–24	ARC
T-OCA-19	C2L	18–24	ARC
T-OCA-19	C2R	18–24	ARC
T-OCA-20	C2L	18–24	ARC
T-OCA-20	C2R	18–24	30.3
T-OCA-21	C2L	18–24	ARC
T-OCA-21	C2R	18–24	ARC
T-OCA-22	C2L	18–24	ARC
T-OCA-22	C2R	18–24	ARC
T-OCA-23	C2L	18–24	ARC
T-OCA-23	C2R	18–24	ARC
T-OCA-24	C2L	18–24	ARC
T-OCA-24	C2R	18–24	257.5
T-OCA-25	C2L	18–24	ARC
T-OCA-25	C2R	18–24	ARC
T-OCA-27	C2L	18–24	ARC
T-OCA-27	C2R	18–24	ARC
T-OCA-28	C2L	18–24	ARC
T-OCA-28	C2R	18–24	ARC
T-OCA-29	C2L	18–24	ARC
T-OCA-29	C2R	18–24	ARC
T-OCA-30	C2R	18–24	1,570
T-OCA-31	C2R	18–24	ARC
T-OCA-32	C2R	18–24	ARC
T-OCA-33	C2R	18–24	ARC
T-OCA-34	C2R	18–24	ARC
T-OCA-35	C2R	18–24	ARC
T-OCA-36	C2R	18–24	ARC
T-OCA-37	C2R	18–24	ARC
T-OCA-38	C2R	18–24	ARC
T-OCA-39	C2R	18–24	ARC
T-OCA-40	C2R	18–24	ARC
T-OCA-41	C2R	18–24	ARC
T-OCA-42	C2R	18–24	ARC
T-OCA-43	C2R	18–24	ARC
T-OCA-44	C2R	18–24	ARC
T-OCA-45	C2R	18–24	ARC
T-OCA-46	C2R	18–24	ARC
T-OCA-47	C2L	18–24	ARC
T-OCA-47	C2R	18–24	ARC
T-OCA-48	C2L	18–24	24.7 ARC
T-OCA-48	C2R	18–24	ARC
T-OCA-49	C2L	18–24	49.6
T-OCA-49	C2R	18–24	69.9
T-OCA-50	C2L	18–24	ARC
T-OCA-50	C2R	18–24	ARC
T-OCA-51	C2L	18–24	20.2
T-OCA-51	C2R	18–24	20.2
T-OCA-7	C2L	24–30	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-7	C2R	24–30	ARC
T-OCA-8	C2L	24–30	ARC
T-OCA-8	C2R	24–30	ARC
T-OCA-9	C2L	24–30	ARC
T-OCA-9	C2R	24–30	ARC
T-OCA-10	C2L	24–30	ARC
T-OCA-10	C2R	24–30	ARC
T-OCA-11	C2R	24–30	ARC
T-OCA-12	C2R	24–30	ARC
T-OCA-13	C2L	24–25	ARC
T-OCA-14	C2L	24–30	ARC
T-OCA-14	C2R	24–30	ARC
T-OCA-15	C2L	24–30	3,520
T-OCA-15	C2R	24–30	ARC
T-OCA-16	C2L	24–30	10.7
T-OCA-16	C2R	24–30	ARC
T-OCA-19	C2L	24–30	ARC
T-OCA-19	C2R	24–30	22.8
T-OCA-20	C2L	24–30	ARC
T-OCA-20	C2R	24–30	ARC
T-OCA-21	C2L	24–30	ARC
T-OCA-21	C2R	24–30	ARC
T-OCA-22	C2L	24–30	ARC
T-OCA-22	C2R	24–30	ARC
T-OCA-23	C2L	24–30	ARC
T-OCA-23	C2R	24–30	ARC
T-OCA-24	C2L	24–30	ARC
T-OCA-24	C2R	24–30	27.1
T-OCA-25	C2L	24–30	ARC
T-OCA-25	C2R	24–30	ARC
T-OCA-27	C2L	24–30	ARC
T-OCA-27	C2R	24–30	ARC
T-OCA-28	C2L	24–30	ARC
T-OCA-28	C2R	24–30	ARC
T-OCA-29	C2L	24–30	ARC
T-OCA-29	C2R	24–30	ARC
T-OCA-30	C2R	24–30	783
T-OCA-31	C2R	24–30	ARC
T-OCA-32	C2R	24–30	ARC
T-OCA-33	C2R	24–30	ARC
T-OCA-34	C2R	24–30	ARC
T-OCA-35	C2R	24–30	ARC
T-OCA-36	C2R	24–30	ARC
T-OCA-37	C2R	24–30	ARC
T-OCA-38	C2R	24–30	ARC
T-OCA-39	C2R	24–30	ARC
T-OCA-40	C2R	24–30	ARC
T-OCA-41	C2R	24–30	ARC
T-OCA-42	C2R	24–30	ARC
T-OCA-43	C2R	24–30	ARC
T-OCA-44	C2R	24–30	ARC
T-OCA-45	C2R	24–30	ARC
T-OCA-46	C2R	24–30	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-47	C2L	24–30	ARC
T-OCA-47	C2R	24–30	ARC
T-OCA-48	C2L	24–30	20.6
T-OCA-48	C2R	24–30	ARC
T-OCA-49	C2L	24–30	20.5
T-OCA-49	C2R	24–30	17.9
T-OCA-50	C2L	24–30	ARC
T-OCA-50	C2R	24–30	ARC
T-OCA-51	C2L	24–30	ARC
T-OCA-51	C2R	24–30	ARC
T-OCA-30	C2R	30–36	27.9 *J*
T-OCA-30	C2R	36–42	ARC
T-OCA-30	C2R	42–48	ARC
T-OCA-22	HWL	0–6	25.7 *J*
T-OCA-30	HWL	0–6	188
T-OCA-31	HWL	0–6	78.9
T-OCA-32	HWL	0–6	175
T-OCA-33	HWL	0–6	228
T-OCA-34	HWL	0–6	127
T-OCA-35	HWL	0–6	50.5
T-OCA-36	HWL	0–6	21.0
T-OCA-37	HWL	0–6	41.5
T-OCA-38	HWL	0–6	38.4
T-OCA-39	HWL	0–6	34.0
T-OCA-40	HWL	0–6	48.3
T-OCA-41	HWL	0–6	39.6
T-OCA-42	HWL	0–6	23.3
T-OCA-43	HWL	0–6	22.0
T-OCA-44	HWL	0–6	81.6
T-OCA-45	HWL	0–6	86.4
T-OCA-46	HWL	0–6	232
T-OCA-22	HWL	12–18	21.9 *J*
T-OCA-30	HWL	12–18	19.8
T-OCA-31	HWL	12–18	22.2
T-OCA-32	HWL	12–18	14.5
T-OCA-33	HWL	12–18	47.0
T-OCA-34	HWL	12–18	25.2
T-OCA-35	HWL	12–18	19.8
T-OCA-36	HWL	12–18	15.4
T-OCA-37	HWL	12–18	14.9
T-OCA-38	HWL	12–18	23.4
T-OCA-39	HWL	12–18	21.8
T-OCA-40	HWL	12–18	23.4
T-OCA-41	HWL	12–18	20.6
T-OCA-42	HWL	12–18	18.1
T-OCA-43	HWL	12–18	21.0
T-OCA-44	HWL	12–18	30.0
T-OCA-45	HWL	12–18	18.5

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-46	HWL	12–18	17.7
T-OCA-22	HWL	18–24	ARC
T-OCA-30	HWL	18–24	ARC
T-OCA-31	HWL	18–24	ARC
T-OCA-32	HWL	18–24	ARC
T-OCA-33	HWL	18–24	ARC
T-OCA-34	HWL	18–24	ARC
T-OCA-35	HWL	18–24	ARC
T-OCA-36	HWL	18–24	ARC
T-OCA-37	HWL	18–24	ARC
T-OCA-38	HWL	18–24	ARC
T-OCA-39	HWL	18–24	ARC
T-OCA-40	HWL	18–24	ARC
T-OCA-41	HWL	18–24	ARC
T-OCA-42	HWL	18–24	ARC
T-OCA-43	HWL	18–24	ARC
T-OCA-44	HWL	18–24	ARC
T-OCA-45	HWL	18–24	ARC
T-OCA-46	HWL	18–24	ARC
T-OCA-22	HWL	24–30	ARC
T-OCA-30	HWL	24–30	ARC
T-OCA-31	HWL	24–30	ARC
T-OCA-32	HWL	24–30	ARC
T-OCA-33	HWL	24–30	ARC
T-OCA-34	HWL	24–30	ARC
T-OCA-35	HWL	24–30	ARC
T-OCA-36	HWL	24–30	ARC
T-OCA-37	HWL	24–30	ARC
T-OCA-38	HWL	24–30	ARC
T-OCA-39	HWL	24–30	ARC
T-OCA-40	HWL	24–30	ARC
T-OCA-41	HWL	24–30	ARC
T-OCA-42	HWL	24–30	ARC
T-OCA-43	HWL	24–30	ARC
T-OCA-44	HWL	24–30	ARC
T-OCA-45	HWL	24–30	ARC
T-OCA-46	HWL	24–30	ARC
T-OCA-22	HWL	6–12	22.3 *J*
T-OCA-30	HWL	6–12	23.2
T-OCA-31	HWL	6–12	25.6
T-OCA-32	HWL	6–12	18.6
T-OCA-33	HWL	6–12	326
T-OCA-34	HWL	6–12	237
T-OCA-35	HWL	6–12	18.0
T-OCA-36	HWL	6–12	15.5
T-OCA-37	HWL	6–12	20.5
T-OCA-38	HWL	6–12	30.5
T-OCA-39	HWL	6–12	23.6
T-OCA-40	HWL	6–12	25.7
T-OCA-41	HWL	6–12	25.2
T-OCA-42	HWL	6–12	18.6

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-43	HWL	6–12	21.0
T-OCA-44	HWL	6–12	58.7
T-OCA-45	HWL	6–12	45.2
T-OCA-46	HWL	6–12	34.1
T-OCA-7	OB1R	0–6	21.45
T-OCA-8	OB1R	0–6	24.7
T-OCA-9	OB1R	0–6	25.9
T-OCA-10	OB1R	0–6	34.3
T-OCA-11	OB1L	0–6	71.8
T-OCA-11	OB1R	0–6	18.0
T-OCA-12	OB1L	0–6	55.3
T-OCA-12	OB1R	0–6	22.9
T-OCA-13	OB1L	0–6	1,020
T-OCA-13	OB1R	0–6	18.45
T-OCA-14	OB1R	0–6	24.35
T-OCA-15	OB1L	0–6	37.4
T-OCA-15	OB1R	0–6	27.3
T-OCA-16	OB1L	0–6	24.5
T-OCA-16	OB1R	0–6	61.35
T-OCA-17	OB1L	0–6	704 *J*
T-OCA-18	OB1L	0–6	3,505
T-OCA-19	OB1L	0–6	60.0
T-OCA-19	OB1R	0–6	7,950
T-OCA-21	OB1L	0–6	43.0
T-OCA-21	OB1R	0–6	1,830
T-OCA-22	OB1R	0–6	7,870 *J*
T-OCA-23	OB1L	0–6	33.8
T-OCA-23	OB1R	0–6	12,100 *J*
T-OCA-24	OB1L	0–6	47.1 *J*
T-OCA-24	OB1R	0–6	8,040
T-OCA-25	OB1L	0–6	47.0 *J*
T-OCA-25	OB1R	0–6	1,370 *J*
T-OCA-26	OB1R	0–6	1,115 *J*
T-OCA-27	OB1L	0–6	47.9
T-OCA-27	OB1R	0–6	1,110
T-OCA-28	OB1L	0–6	43.1
T-OCA-29	OB1L	0–6	74.5
T-OCA-29	OB1R	0–6	1,860
T-OCA-30	OB1R	0–6	527
T-OCA-31	OB1R	0–6	43.0
T-OCA-32	OB1R	0–6	340
T-OCA-33	OB1R	0–6	624
T-OCA-34	OB1R	0–6	728
T-OCA-35	OB1R	0–6	244
T-OCA-36	OB1R	0–6	33.6
T-OCA-37	OB1R	0–6	52.9
T-OCA-38	OB1R	0–6	158
T-OCA-39	OB1R	0–6	88.5
T-OCA-40	OB1R	0–6	223
T-OCA-41	OB1R	0–6	341
T-OCA-42	OB1R	0–6	181
T-OCA-43	OB1R	0–6	198

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-44	OB1R	0–6	96.9
T-OCA-45	OB1R	0–6	190
T-OCA-46	OB1R	0–6	245 *J*
T-OCA-47	OB1R	0–6	144
T-OCA-48	OB1R	0–6	127
T-OCA-49	OB1R	0–6	40.8
T-OCA-50	OB1L	0–6	4,510
T-OCA-51	OB1L	0–6	4,390
T-OCA-52	OB1R	0–6	113 *J*
T-OCA-53	OB1R	0–6	75.8
T-OCA-7	OB1R	6–12	39.4
T-OCA-8	OB1R	6–12	10.8
T-OCA-9	OB1R	6–12	18.9
T-OCA-10	OB1R	6–12	8.2
T-OCA-11	OB1L	6–12	17.7
T-OCA-11	OB1R	6–12	34.1
T-OCA-12	OB1L	6–12	13.9
T-OCA-12	OB1R	6–12	9.0
T-OCA-13	OB1L	6–12	102
T-OCA-13	OB1R	6–12	9.2
T-OCA-14	OB1R	6–12	14.0
T-OCA-15	OB1L	6–12	24.4
T-OCA-15	OB1R	6–12	14.8
T-OCA-16	OB1L	6–12	16.9
T-OCA-16	OB1R	6–12	19.4
T-OCA-17	OB1L	6–12	594 *J*
T-OCA-18	OB1L	6–12	14,400
T-OCA-19	OB1L	6–12	ARC
T-OCA-19	OB1R	6–12	1,120
T-OCA-21	OB1L	6–12	ARC
T-OCA-21	OB1R	6–12	298
T-OCA-22	OB1R	6–12	15,000
T-OCA-23	OB1L	6–12	ARC
T-OCA-23	OB1R	6–12	15,800
T-OCA-24	OB1L	6–12	ARC
T-OCA-24	OB1R	6–12	7,780
T-OCA-25	OB1L	6–12	ARC
T-OCA-25	OB1R	6–12	128
T-OCA-26	OB1R	6–12	544 *J*
T-OCA-27	OB1L	6–12	ARC
T-OCA-27	OB1R	6–12	50.4
T-OCA-28	OB1L	6–12	ARC
T-OCA-29	OB1L	6–12	ARC
T-OCA-29	OB1R	6–12	294
T-OCA-30	OB1R	6–12	353
T-OCA-31	OB1R	6–12	223
T-OCA-32	OB1R	6–12	2,220
T-OCA-33	OB1R	6–12	1,820
T-OCA-34	OB1R	6–12	1,850
T-OCA-35	OB1R	6–12	2,730
T-OCA-36	OB1R	6–12	187
T-OCA-37	OB1R	6–12	11.3

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-38	OB1R	6–12	106
T-OCA-39	OB1R	6–12	89.2
T-OCA-40	OB1R	6–12	380
T-OCA-41	OB1R	6–12	564
T-OCA-42	OB1R	6–12	242
T-OCA-43	OB1R	6–12	221
T-OCA-44	OB1R	6–12	68.9
T-OCA-45	OB1R	6–12	98.5
T-OCA-46	OB1R	6–12	160 *J*
T-OCA-47	OB1R	6–12	109
T-OCA-48	OB1R	6–12	98.3
T-OCA-49	OB1R	6–12	224
T-OCA-50	OB1L	6–12	219
T-OCA-51	OB1L	6–12	686
T-OCA-52	OB1R	6–12	57.7 *J*
T-OCA-53	OB1R	6–12	408
T-OCA-27	OB1R	0–12	--
T-OCA-7	OB1R	12–18	ARC
T-OCA-8	OB1R	12–18	ARC
T-OCA-9	OB1R	12–18	ARC
T-OCA-10	OB1R	12–18	ARC
T-OCA-11	OB1L	12–18	ARC
T-OCA-11	OB1R	12–18	ARC
T-OCA-12	OB1L	12–18	6.4
T-OCA-12	OB1R	12–18	ARC
T-OCA-13	OB1L	12–18	23.8
T-OCA-13	OB1R	12–18	ARC
T-OCA-14	OB1R	12–18	ARC
T-OCA-15	OB1L	12–18	ARC
T-OCA-15	OB1R	12–18	ARC
T-OCA-16	OB1L	12–18	ARC
T-OCA-16	OB1R	12–18	ARC
T-OCA-17	OB1L	12–18	424 *J*
T-OCA-18	OB1L	12–18	8,680
T-OCA-19	OB1L	12–18	ARC
T-OCA-19	OB1R	12–18	50.4
T-OCA-21	OB1L	12–18	ARC
T-OCA-21	OB1R	12–18	29.4
T-OCA-22	OB1R	12–18	1,230
T-OCA-23	OB1L	12–18	ARC
T-OCA-23	OB1R	12–18	418
T-OCA-24	OB1L	12–18	ARC
T-OCA-24	OB1R	12–18	16.8
T-OCA-25	OB1L	12–18	ARC
T-OCA-25	OB1R	12–18	22.0
T-OCA-26	OB1R	12–18	40.1 *J*
T-OCA-27	OB1L	12–18	ARC
T-OCA-27	OB1R	12–18	31.7
T-OCA-28	OB1L	12–18	ARC
T-OCA-29	OB1L	12–18	ARC
T-OCA-29	OB1R	12–18	59.1
T-OCA-30	OB1R	12–18	89.2

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-31	OB1R	12–18	20.7
T-OCA-32	OB1R	12–18	31.2
T-OCA-33	OB1R	12–18	124
T-OCA-34	OB1R	12–18	516
T-OCA-35	OB1R	12–18	2,760
T-OCA-36	OB1R	12–18	132
T-OCA-37	OB1R	12–18	28.1
T-OCA-38	OB1R	12–18	118
T-OCA-39	OB1R	12–18	47.4
T-OCA-40	OB1R	12–18	490
T-OCA-41	OB1R	12–18	50.7
T-OCA-42	OB1R	12–18	99.9
T-OCA-43	OB1R	12–18	79.5
T-OCA-44	OB1R	12–18	39.7
T-OCA-45	OB1R	12–18	37.3
T-OCA-46	OB1R	12–18	538 *J*
T-OCA-47	OB1R	12–18	532
T-OCA-48	OB1R	12–18	45.8
T-OCA-49	OB1R	12–18	189
T-OCA-50	OB1L	12–18	42.0
T-OCA-51	OB1L	12–18	32.4
T-OCA-52	OB1R	12–18	27.4
T-OCA-53	OB1R	12–18	66.9
T-OCA-7	OB1R	18–24	ARC
T-OCA-8	OB1R	18–24	ARC
T-OCA-9	OB1R	18–24	ARC
T-OCA-10	OB1R	18–24	ARC
T-OCA-11	OB1L	18–24	ARC
T-OCA-11	OB1R	18–24	ARC
T-OCA-12	OB1R	18–24	ARC
T-OCA-13	OB1L	18–24	ARC
T-OCA-13	OB1R	18–24	ARC
T-OCA-14	OB1R	18–24	ARC
T-OCA-15	OB1L	18–24	ARC
T-OCA-15	OB1R	18–24	ARC
T-OCA-16	OB1L	18–24	ARC
T-OCA-16	OB1R	18–24	ARC
T-OCA-17	OB1L	18–24	210 *J*
T-OCA-18	OB1L	18–24	5,370
T-OCA-19	OB1L	18–24	ARC
T-OCA-19	OB1R	18–24	24.0
T-OCA-21	OB1L	18–24	ARC
T-OCA-21	OB1R	18–24	23.0
T-OCA-22	OB1R	18–24	29.6
T-OCA-23	OB1L	18–24	ARC
T-OCA-23	OB1R	18–24	46.5
T-OCA-24	OB1L	18–24	ARC
T-OCA-24	OB1R	18–24	14.0
T-OCA-25	OB1L	18–24	ARC
T-OCA-25	OB1R	18–24	ARC
T-OCA-26	OB1R	18–24	24.9 *J*
T-OCA-27	OB1L	18–24	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-27	OB1R	18–24	30.8
T-OCA-28	OB1L	18–24	ARC
T-OCA-29	OB1L	18–24	ARC
T-OCA-29	OB1R	18–24	ARC
T-OCA-30	OB1R	18–24	ARC
T-OCA-31	OB1R	18–24	ARC
T-OCA-32	OB1R	18–24	ARC
T-OCA-33	OB1R	18–24	ARC
T-OCA-34	OB1R	18–24	31.3
T-OCA-35	OB1R	18–24	167.5
T-OCA-36	OB1R	18–24	ARC
T-OCA-37	OB1R	18–24	ARC
T-OCA-38	OB1R	18–24	ARC
T-OCA-39	OB1R	18–24	ARC
T-OCA-40	OB1R	18–24	94.7
T-OCA-41	OB1R	18–24	ARC
T-OCA-42	OB1R	18–24	ARC
T-OCA-43	OB1R	18–24	ARC
T-OCA-44	OB1R	18–24	ARC
T-OCA-45	OB1R	18–24	ARC
T-OCA-46	OB1R	18–24	128
T-OCA-47	OB1R	18–24	65.4
T-OCA-48	OB1R	18–24	ARC
T-OCA-49	OB1R	18–24	ARC
T-OCA-50	OB1L	18–24	40.9
T-OCA-51	OB1L	18–24	36.9
T-OCA-52	OB1R	18–24	ARC
T-OCA-53	OB1R	18–24	ARC
T-OCA-17	OB1L	24–30	36.0 *J*
T-OCA-18	OB1L	24–30	30.5
T-OCA-26	OB1R	24–30	21.0 *J*
T-OCA-29	OB1R	24–30	ARC
T-OCA-30	OB1R	24–30	ARC
T-OCA-31	OB1R	24–30	ARC
T-OCA-32	OB1R	24–30	ARC
T-OCA-33	OB1R	24–30	ARC
T-OCA-34	OB1R	24–30	24.2
T-OCA-35	OB1R	24–30	26.1
T-OCA-36	OB1R	24–30	ARC
T-OCA-37	OB1R	24–30	ARC
T-OCA-38	OB1R	24–30	ARC
T-OCA-39	OB1R	24–30	ARC
T-OCA-40	OB1R	24–30	18.4
T-OCA-41	OB1R	24–30	ARC
T-OCA-42	OB1R	24–30	ARC
T-OCA-43	OB1R	24–30	ARC
T-OCA-44	OB1R	24–30	ARC
T-OCA-45	OB1R	24–30	ARC
T-OCA-46	OB1R	24–30	31.0
T-OCA-47	OB1R	24–30	28.1
T-OCA-48	OB1R	24–30	ARC
T-OCA-52	OB1R	24–30	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-53	OB1R	24–30	ARC
T-OCA-17	OB1L	30–36	ARC
T-OCA-18	OB1L	30–36	ARC
T-OCA-26	OB1R	30–36	ARC
T-OCA-19	OB2R	0–6	136
T-OCA-29	OB2R	0–6	259
T-OCA-30	OB2R	0–6	199
T-OCA-31	OB2R	0–6	195
T-OCA-32	OB2R	0–6	169
T-OCA-33	OB2R	0–6	254
T-OCA-34	OB2R	0–6	244
T-OCA-35	OB2R	0–6	117
T-OCA-39	OB2R	0–6	128
T-OCA-41	OB2R	0–6	102
T-OCA-42	OB2R	0–6	81.7
T-OCA-43	OB2R	0–6	94.35
T-OCA-44	OB2R	0–6	104
T-OCA-45	OB2R	0–6	112
T-OCA-46	OB2R	0–6	108 *J*
T-OCA-47	OB2R	0–6	88.4
T-OCA-48	OB2R	0–6	66.1
T-OCA-49	OB2R	0–6	13.0
T-OCA-50	OB2L	0–6	15.1 *J*
T-OCA-51	OB2L	0–6	12.7 *J*
T-OCA-52	OB2R	0–6	578 *J*
T-OCA-53	OB2R	0–6	33.3
T-OCA-19	OB2R	6–12	17.1
T-OCA-29	OB2R	6–12	35.4
T-OCA-30	OB2R	6–12	72.2
T-OCA-31	OB2R	6–12	32.4
T-OCA-32	OB2R	6–12	42.7
T-OCA-33	OB2R	6–12	105
T-OCA-34	OB2R	6–12	86.6
T-OCA-35	OB2R	6–12	173
T-OCA-39	OB2R	6–12	99.6
T-OCA-41	OB2R	6–12	42.5
T-OCA-42	OB2R	6–12	115
T-OCA-43	OB2R	6–12	44.8
T-OCA-44	OB2R	6–12	46.9
T-OCA-45	OB2R	6–12	37.1
T-OCA-46	OB2R	6–12	44.4 *J*
T-OCA-47	OB2R	6–12	112
T-OCA-48	OB2R	6–12	130
T-OCA-49	OB2R	6–12	29.2
T-OCA-50	OB2L	6–12	15.7 *J*
T-OCA-51	OB2L	6–12	13.7 *J*
T-OCA-52	OB2R	6–12	931.5
T-OCA-53	OB2R	6–12	42.15
T-OCA-19	OB2R	12–18	14.9

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-29	OB2R	12–18	ARC
T-OCA-30	OB2R	12–18	ARC
T-OCA-31	OB2R	12–18	ARC
T-OCA-32	OB2R	12–18	ARC
T-OCA-33	OB2R	12–18	ARC
T-OCA-34	OB2R	12–18	24.1
T-OCA-35	OB2R	12–18	136
T-OCA-39	OB2R	12–18	ARC
T-OCA-41	OB2R	12–18	ARC
T-OCA-42	OB2R	12–18	ARC
T-OCA-43	OB2R	12–18	ARC
T-OCA-44	OB2R	12–18	ARC
T-OCA-45	OB2R	12–18	ARC
T-OCA-46	OB2R	12–18	ARC
T-OCA-47	OB2R	12–18	161
T-OCA-48	OB2R	12–18	ARC
T-OCA-49	OB2R	12–18	ARC
T-OCA-50	OB2L	12–18	ARC
T-OCA-51	OB2L	12–18	ARC
T-OCA-52	OB2R	12–18	322
T-OCA-53	OB2R	12–18	19.7
T-OCA-19	OB2R	18–24	14.3
T-OCA-29	OB2R	18–24	ARC
T-OCA-30	OB2R	18–24	ARC
T-OCA-31	OB2R	18–24	ARC
T-OCA-32	OB2R	18–24	ARC
T-OCA-33	OB2R	18–24	ARC
T-OCA-34	OB2R	18–24	22.6
T-OCA-35	OB2R	18–24	28.3
T-OCA-39	OB2R	18–24	ARC
T-OCA-41	OB2R	18–24	ARC
T-OCA-42	OB2R	18–24	ARC
T-OCA-43	OB2R	18–24	ARC
T-OCA-44	OB2R	18–24	ARC
T-OCA-45	OB2R	18–24	ARC
T-OCA-46	OB2R	18–24	ARC
T-OCA-47	OB2R	18–24	ARC
T-OCA-48	OB2R	18–24	ARC
T-OCA-49	OB2R	18–24	ARC
T-OCA-50	OB2L	18–24	ARC
T-OCA-51	OB2L	18–24	ARC
T-OCA-52	OB2R	18–24	ARC
T-OCA-53	OB2R	18–24	ARC
T-OCA-29	OB2R	24–30	ARC
T-OCA-30	OB2R	24–30	ARC
T-OCA-31	OB2R	24–30	ARC
T-OCA-32	OB2R	24–30	ARC
T-OCA-33	OB2R	24–30	ARC
T-OCA-34	OB2R	24–30	20.6
T-OCA-35	OB2R	24–30	ARC
T-OCA-39	OB2R	24–30	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-41	OB2R	24–30	ARC
T-OCA-42	OB2R	24–30	ARC
T-OCA-43	OB2R	24–30	ARC
T-OCA-44	OB2R	24–30	ARC
T-OCA-45	OB2R	24–30	ARC
T-OCA-46	OB2R	24–30	ARC
T-OCA-47	OB2R	24–30	ARC
T-OCA-48	OB2R	24–30	ARC
T-OCA-50	OB2L	24–30	ARC
T-OCA-51	OB2L	24–30	ARC
T-OCA-52	OB2R	24–30	ARC
T-OCA-53	OB2R	24–30	ARC
T-OCA-29	OB3R	0–6	160
T-OCA-30	OB3R	0–6	116
T-OCA-31	OB3R	0–6	189
T-OCA-35	OB3R	0–6	8.4
T-OCA-39	OB3R	0–6	104.5
T-OCA-41	OB3R	0–6	97.5
T-OCA-43	OB3R	0–6	106
T-OCA-44	OB3R	0–6	77.9
T-OCA-46	OB3R	0–6	104 *J*
T-OCA-47	OB3R	0–6	70.2
T-OCA-50	OB3L	0–6	10.2 *J* (ARC)
T-OCA-51	OB3L	0–6	ARC
T-OCA-52	OB3R	0–6	28.1
T-OCA-53	OB3R	0–6	24.4
T-OCA-29	OB3R	6–12	47.7
T-OCA-30	OB3R	6–12	15.5
T-OCA-31	OB3R	6–12	23.0
T-OCA-35	OB3R	6–12	49.3
T-OCA-39	OB3R	6–12	51.8
T-OCA-41	OB3R	6–12	135
T-OCA-43	OB3R	6–12	39.2
T-OCA-44	OB3R	6–12	33.6
T-OCA-46	OB3R	6–12	33.2 *J*
T-OCA-47	OB3R	6–12	34.3
T-OCA-50	OB3L	6–12	ARC
T-OCA-51	OB3L	6–12	ARC
T-OCA-52	OB3R	6–12	22.8
T-OCA-53	OB3R	6–12	22.45
T-OCA-29	OB3R	12–18	ARC
T-OCA-30	OB3R	12–18	ARC
T-OCA-31	OB3R	12–18	ARC
T-OCA-35	OB3R	12–18	51.9
T-OCA-39	OB3R	12–18	ARC
T-OCA-41	OB3R	12–18	ARC
T-OCA-43	OB3R	12–18	ARC
T-OCA-44	OB3R	12–18	ARC
T-OCA-46	OB3R	12–18	ARC
T-OCA-47	OB3R	12–18	ARC

Table F-7B. (cont.)

Station	Location	Depth (in.)	Lead (mg/kg)
T-OCA-50	OB3L	12–18	ARC
T-OCA-51	OB3L	12–18	ARC
T-OCA-52	OB3R	12–18	15.6
T-OCA-53	OB3R	12–18	16.8
T-OCA-29	OB3R	18–24	ARC
T-OCA-30	OB3R	18–24	ARC
T-OCA-31	OB3R	18–24	ARC
T-OCA-35	OB3R	18–24	12.5
T-OCA-39	OB3R	18–24	ARC
T-OCA-41	OB3R	18–24	ARC
T-OCA-43	OB3R	18–24	ARC
T-OCA-44	OB3R	18–24	ARC
T-OCA-46	OB3R	18–24	ARC
T-OCA-47	OB3R	18–24	ARC
T-OCA-50	OB3L	18–24	ARC
T-OCA-51	OB3L	18–24	ARC
T-OCA-52	OB3R	18–24	ARC
T-OCA-53	OB3R	18–24	ARC
T-OCA-29	OB3R	24–30	ARC
T-OCA-30	OB3R	24–30	ARC
T-OCA-31	OB3R	24–30	ARC
T-OCA-35	OB3R	24–30	ARC
T-OCA-39	OB3R	24–30	ARC
T-OCA-41	OB3R	24–30	ARC
T-OCA-43	OB3R	24–30	ARC
T-OCA-44	OB3R	24–30	ARC
T-OCA-46	OB3R	24–30	ARC
T-OCA-47	OB3R	24–30	ARC
T-OCA-50	OB3L	24–30	ARC
T-OCA-51	OB3L	24–30	ARC
T-OCA-52	OB3R	24–30	ARC
T-OCA-53	OB3R	24–30	ARC

Note: A - refers to composite surface sample of channel sediments.
ARC - sample was archived and not needed for extent determination.
B - refers to core samples taken below sediments.
C - refers to samples taken on the left (L) or right (R) side of channel looking upstream.
HWL - high water line.
J - estimated value
OB - overbank

Table F-8. Adjacent Fields soils data—Circleville Site

Reference	Date	Station	Max Depth		Total Antimony (mg/kg)	Total Arsenic (mg/kg)	Total Barium (mg/kg)	Total Chromium (mg/kg)	Total Lead (mg/kg)	Total Nickel (mg/kg)	Total Fluoride (mg/kg)
OEPA 1980	07/16/78	1-A	NP						3.0 *U*		10.0 *U*
OEPA 1980	07/16/78	1-B	NP						3.0 *U*		10.0 *U*
OEPA 1980	07/16/78	2	NP						3.0 *U*		10.0 *U*
OEPA 1980	05/05/79	1	NP						91.6		
OEPA 1980	05/05/79	2	NP						86.5		
OEPA 1980	05/05/79	3	NP						84.4		
OEPA 1980	05/05/79	4	NP						67.5		
ADL 1993	03/02/88	CSS3	1	in	96.9 *U*	11.9 *U*	1.5 *U*	36.0 *U*	77.0	3.5 *U*	
ADL 1993	03/02/88	CSS6	1	in	130.2 *U*	15.9 *U*	308.0	49.0 *U*	21.0	8.0	
ADL 1993	03/02/88	CSS7	1	in	120.9 *U*	14.8 *U*	524.0	45.0 *U*	28.0	4.3 *U*	
ADL 1993	03/02/88	CSS8	1	in	135.1 *U*	16.5 *U*	212.0	51.0 *U*	16.5 *U*	18.0	
ADL 1993	03/02/88	CSS8(dup)	1	in	88.7 *U*	10.8 *U*	74.0	33.0 *U*	10.8 *U*	6.0	
ADL 1993	03/02/88	CSS9	1	in	105.7 *U*	32.0	332.0	40.0 *U*	39.0	3.8 *U*	
D&M 1993	10/20/87	SS#1	0	in					77.0		
OEPA 1989	09/19/89	1	NP					27.0	79.0	46.0	
OEPA 1989	09/19/89	2	NP					25.0	82.0	22.0	
OEPA 1989	09/19/89	3	NP					27.0	103.0	39.0	
OEPA 1989	09/19/89	4	NP					26.0	218.0	23.0	
OEPA 1989	09/19/89	5	NP					33.0	104.0	83.0	
OEPA 1989	09/19/89	6	NP					20.0	45.0	20.0	
OEPA 1989	09/19/89	7	NP					20.0	48.0	22.0	
OEPA 1989	09/19/89	8	NP					19.0	26.0	19.0	
OEPA 1989	11/17/89	1	NP					27.0	58.0	25.0	
OEPA 1989	11/17/89	2	NP					26.0	84.0	26.0	
OEPA 1989	11/17/89	3	NP					30.0	56.0	26.0	
OEPA 1989	11/17/89	4	NP					28.0	57.0	28.0	
OEPA 1989	11/17/89	5	NP					11.0	49.0	16.0	
OEPA 1989	11/17/89	6	NP					19.0	35.0	21.0	
OEPA 1989	11/17/89	7	NP					27.0	39.0	27.0	
OEPA 1989	11/17/89	8	NP					17.0	46.0	23.0	
D&M 1991b	10/02/90	16B	6	in					33.1		
D&M 1991b	10/02/90	16B(dup)	6	in					30.9		
D&M 1991b	10/02/90	17B	6	in		22.7			46.4		
D&M 1991b	10/02/90	17B(dup)	6	in		25.6			41.1		
D&M 1991b	10/02/90	18B	6	in					11.8		
D&M 1991b	10/02/90	19B	6	in					58.9		

Table F-8. (cont.)

Reference	Date	Station	Max Depth		Total Antimony (mg/kg)		Total Arsenic (mg/kg)	Total Barium (mg/kg)	Total Chromium (mg/kg)	Total Lead (mg/kg)		Total Nickel (mg/kg)	Total Fluoride (mg/kg)
D&M 1991b	10/02/90	20B	6	in			6.4			19.7			
D&M 1991b	10/02/90	21B	6	in						60.3			
D&M 1991b	10/02/90	22B	6	in						49.3			
D&M 1991b	10/02/90	23B	6	in			6.1			9.1			
D&M 1991b	10/02/90	24B	6	in						52.5			
D&M 1991b	10/02/90	25B	6	in						32.6			
D&M 1991b	10/02/90	16C	6	in						32.9			
D&M 1991b	10/02/90	16C(dup)	6	in						28.8			
D&M 1991b	10/02/90	17C	6	in						41.9			
D&M 1991b	10/02/90	18C	6	in			6.0			189.0			
D&M 1991b	10/02/90	19C	6	in						37.4			
D&M 1991b	10/02/90	20C	6	in						44.2			
D&M 1991b	10/02/90	21C	6	in			113.0			41.7			
D&M 1991b	10/02/90	22C	6	in						8.4			
D&M 1991b	10/02/90	23C	6	in						35.2			
D&M 1991b	10/02/90	24C	6	in			14.0			21.9			
D&M 1991b	10/02/90	25C	6	in						36.4			
PTI, RI	1997.0	C-AF-1	6	in						52.8	*J*		180.0
PTI, RI	1997.0	C-AF-1	12	in	1.1	*U*	13.0	119.0	15.5	28.5	*J*	19.5	48.0
PTI, RI	1997.0	C-AF-2	6	in						52.1	*J*		345.0
PTI, RI	1997.0	C-AF-2	12	in	1.4		15.5	120.0	15.2	31.6	*J*	20.8	650.0
PTI, RI	1997.0	C-AF-3	6	in	5.4		18.0	105.0	13.0	112.0	*J*	19.0	330.0
PTI, RI	1997.0	C-AF-3	12	in						20.8	*J*		230.0
PTI, RI	1997.0	C-AF-4	6	in						97.7	*J*		430.0
PTI, RI	1997.0	C-AF-4	12	in						15.5	*J*		78.0

Note: NP - not provided

Qualifier: *J* - estimated value
U - undetected at detection limit shown

Table F-9. Onsite soils data—Circleville Site

Reference	Date	Station	Max Depth		Total Antimony (mg/kg)	Total Arsenic (mg/kg)	Total Barium (mg/kg)	Total Chromium (mg/kg)	Total Lead (mg/kg)	Total Nickel (mg/kg)	Total Fluoride (mg/kg)	TPH (mg/kg)
ADL 1993	03/02/88	CSS1	1	in	95.0 *U*	12.0 *U*	72.0	35.0 *U*	197.0	4.0		
ADL 1993	03/02/88	CSS2	1	in	113.5 *U*	13.9 *U*	78.0	43.0 *U*	45.0	16.0		
ADL 1993	03/02/88	CSS4	1	in	101.0 *U*	12.0 *U*	417.0	38.0 *U*	242.0	6.0		
D&M 1989	10/04/88	BG-1	6	in					42.0			10.0 *U*
D&M 1989	10/04/88	BG-1	12	in					16.5			10.0 *U*
D&M 1989	10/04/88	BG-2	6	in					55.1			10.0 *U*
D&M 1989	10/04/88	BG-2	12	in					32.3			10.0 *U*
D&M 1989	10/04/88	BG-3	6	in					23.2			10.0 *U*
D&M 1989	10/04/88	BG-3	12	in					23.5			10.0 *U*
D&M 1989	10/04/88	BG-4	6	in					27.5			10.0 *U*
D&M 1989	10/04/88	BG-4	12	in					16.3			10.0 *U*
D&M 1989	10/04/88	BG-5	6	in					99.8			10.0 *U*
D&M 1989	10/04/88	BG-5	12	in					33.7			10.0 *U*
D&M 1991b	10/04/90	25E	6	in					138.0			
D&M 1991b	10/02/90	16 ave	6	in		30.5			90.1			

Qualifier: U - undetected at detection limit shown

Table F-10. East Fenced Area groundwater data—Circleville Site

Reference	Sampling Date	Station	Dissolved Antimony (µg/L)	Total Antimony (µg/L)	Dissolved Arsenic (µg/L)	Total Arsenic (µg/L)	Dissolved Barium (µg/L)	Total Barium (µg/L)	Dissolved Chromium (µg/L)	Total Chromium (µg/L)	Total Fluoride (mg/L)	Dissolved Lead (µg/L)	Total Lead (µg/L)	Dissolved Nickel (µg/L)	Total Nickel (µg/L)
PTI, RI	Jul-96	MW-14	5.0 *U*	5.0 *U*	5.1 *J*	5.3 *J*	236	263	5.0 *U*	9.7	0.30	3.0 *U*	3 *U*	40.0 *U*	40.0 *U*
PTI, RI	Jul-96	MW-15	5.0 *U*	5.0 *U*	3.5 *J*	3.6 *J*	117	120	5.0 *U*	5.0 *U*	0.80	3.0 *U*	3 *U*	40.0 *U*	40.0 *U*
PTI, RI	Jul-96	MW-16 a	5.0 *U*	5.0 *U*	1.3	1.4	138.0	142.0	2.1 *U*	5.0 *U*	0.2	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Oct-96	MW-14	5.0 *U*	5.0 *U*	6.3	6.0 *J*	238	266	5.0 *U*	5.0 *U*	0.40	3.0 *U*	3 *U*	40.0 *U*	40.0 *U*
PTI, RI	Oct-96	MW-15	5.0 *U*	5.0 *U*	5.9	5.6 *J*	115	128	5.0 *U*	5.0 *U*	0.80	3.0 *U*	3 *U*	40.0 *U*	40.0 *U*
PTI, RI	Oct-96	MW-16 a	5.0 *U*	5.0 *U*	2.0 *U*	2.0 *U*	145.5	144.5	5.0 *U*	5.0 *U*	0.1	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Feb-97	MW-14	5.0 *U*	5.0 *U*	6.8 *J*	6.2 *J*	209	362	5.0 *U*	8.7	0.40	3.0 *U*	3 *U*	40.0 *U*	40.0 *U*
PTI, RI	Feb-97	MW-15	5.0 *U*	5.0 *U*	5.3 *J*	8.3	115	144	5.0 *U*	9.5	0.70	5.0 *U*	10.7	40.0 *U*	40.0 *U*
PTI, RI	Feb-97	MW-16 a	5.0 *U*	5.0 *U*	2.2	3.1	153.0	165.5	3.0 *U*	6.5	0.1	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Apr-97	MW-14	5.0 *U*	5.0 *U*	3.8	3.4	168	236	5.0 *U*	5.0 *U*	0.5	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Apr-97	MW-15 a	5.0 *U*	5.0 *U*	4.1	4.0	122.0	114.0	60.0	5.0 *U*	1.1	4.3	3.0 *U*	63.7	40.0 *U*
PTI, RI	Apr-97	MW-16	5.0 *U*	5.0 *U*	1.3	1.0 *U*	168	174	34.4	5.0 *U*	0.2	4.7	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Aug-97	MW-14	5.0 *U*	5.0 *U*	5.9	6.2	247	233	7.5	5.0 *U*	0.4	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Aug-97	MW-15	5.0 *U*	5.0 *U*	5.6	7.0	118	113	5.0 *U*	5.0 *U*	1.4	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*
PTI, RI	Aug-97	MW-16 a	5.0 *U*	5.0 *U*	2.3	2.5	168.5	166.5	5.0 *U*	5.0 *U*	0.1 *U*	3.0 *U*	3.0 *U*	40.0 *U*	40.0 *U*

Qualifier: *J* - estimated value
U - undetected at detection limit shown

Table F-11. Surface water data—Circleville Site

Reference	Station	Location[a]	Stream Flow (cfs)	Dissolved Lead (μg/L)	Total Lead (μg/L)	Hardness (mg/L)	pH (pH units)	Conductivity (*m*mho/cm)	Dissolved Oxygen (ppm)	Temper-ature (^{o}C)	TSS (mg/L)
Low-Flow Event (12/95)											
PTI, RI	SW-OCA-1	Farm Ditch at Scioto River	3.03	3.0 *U*	3.4	425	8.91	1,324	6.8	47.6	--
PTI, RI	SW-OCA-2	Farm Ditch below confluence with offsite creek	1.91	3.0 *U*	3.0 *U*	380	8.99	1,042	4	43.8	--
PTI, RI	SW-OCA-3	Farm Ditch below confluence with offsite creek	0	3.0 *U*	3.0 *U*	510	NA	712	1.6	32.1	--
PTI, RI	SW-OCA-5	Offsite creek 75 ft below culvert from S. Ditch	3.42	3.0 *U*	6.3	390	NA	920	4.9	49.5	--
High-Flow Event (5/96)											
PTI, RI	SW-OCA-4	Discharge 55 ft below culvert fr Logan Elm res. area	0.20	3.0 *U*	3.0 *U*	430	8.00	645	10.88	14.5	4.0 *U*
PTI, RI	SW-OCA-5	Offsite creek 25 ft below culvert from S. Ditch	3.09	3.0 *U*	13.5	500	8.30	910	12.25	22.9	4.5 *L*

Note: -- not analyzed; preserved samples received at laboratory
cfs - cubic feet per second
NA - not analyzed due to field instrument failure
ppm - parts per million
TSS - total suspended solids

Qualifier: *L* - actual concentration is less than reported concentration
U - undetected at detection limit shown

[a]Station locations shown on Figure DP-19.

Table F-12. Reference area soils data—Circleville Site

Reference	Station	Depth (ft.)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Reference Area Soil Samples												
PTI, RI	BG-SS-1	3.5	2,690 *J*	0.9 *U*	42.0 *J*	17.3 *J*	0.2 *U*	0.5	94,700 *J*	4.7	7.3	13.0
PTI, RI	BG-SS-2	5.0	1,850 *J*	1.0 *U*	15.8 *J*	19.4 *J*	0.3 *U*	0.3	112,000 *J*	3.8	4.1	10.9
PTI, RI	BG-SS-3	5.0	2,660 *J*	0.9 *U*	44.7 *J*	38.9 *J*	0.2 *U*	0.7	67,100 *J*	4.2	6.6	17.3
PTI, RI	BG-SS-4	5.0	6,650 *J*	1.0 *U*	14.8 *J*	127.0 *J*	0.2 *U*	0.9	56,500 *J*	9.6	7.6	18.6
PTI, RI	BG-SS-5	4.0	3,980 *J*	1.0 *U*	225 *J*	68.0 *J*	0.2 *U*	1.4	89,600 *J*	6.3	7.9	20.1
PTI, RI	BG-SS-6	4.0	3,530 *J*	1.0 *U*	174 *J*	28.2 *J*	0.2 *U*	0.7	72,900 *J*	6.6	6.7	21.4
PTI, RI	BG-SS-7	4.0	5,915 *J*	1.0 *U*	60.2 *J*	159.5 *J*	0.3 *U*	0.8	43,000 *J*	8.8	6.5	18.6

Table F-12. (cont.)

Reference	Station	Depth (ft.)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium
Reference Area Soil Samples												
PTI, RI	BG-SS-1	3.5	15,000 *J*	7.6	33,400	213 *J*	0.1 *U*	18.0	985 *J*	0.9 *U*	0.2 *U*	404
PTI, RI	BG-SS-2	5.0	8,040 *J*	5.7	36,600	173 *J*	0.1 *U*	10.7	600 *J*	1.0 *U*	0.3 *U*	375
PTI, RI	BG-SS-3	5.0	18,200 *J*	9.1	21,700	359 *J*	0.1 *U*	19.1	625 *J*	0.9 *U*	0.2 *U*	352
PTI, RI	BG-SS-4	5.0	28,500 *J*	9.5	26,300	206 *J*	0.1 *U*	23.3	1,480 *J*	1.0 *U*	0.2 *U*	426
PTI, RI	BG-SS-5	4.0	35,200 *J*	11.9	22,400	500 *J*	0.1 *U*	25.1	1,090 *J*	1.1	0.2 *U*	440
PTI, RI	BG-SS-6	4.0	24,700 *J*	17.3	29,000	304 *J*	0.1 *U*	20.9	1,070 *J*	0.9 *U*	0.2 *U*	374
PTI, RI	BG-SS-7	4.0	20,150 *J*	14.4	18,900	174.5 *J*	0.1 *U*	18.8	1,029 *J*	1.1	0.3 *U*	388

Table F-12. (cont.)

Reference	Station	Depth (ft.)	Thallium	Vanadium	Zinc	Fluoride	TPH
Reference Area Soil Samples							
PTI, RI	BG-SS-1	3.5	0.7 *U*	10.1	60.2 *J*	73 *J*	30
PTI, RI	BG-SS-2	5.0	0.8 *U*	6.6	35.0 *J*	54 *J*	19
PTI, RI	BG-SS-3	5.0	0.7 *U*	9.6	81.8 *J*	130 *J*	11
PTI, RI	BG-SS-4	5.0	0.7 *U*	17.8	58.4 *J*	150 *J*	12 *U*
PTI, RI	BG-SS-5	4.0	0.7 *U*	14.1	118.0 *J*	89 *J*	16
PTI, RI	BG-SS-6	4.0	0.7 *U*	13.1	109.0 *J*	130 *J*	19
PTI, RI	BG-SS-7	4.0	0.8 *U*	20.3	72.8 *J*	135 *J*	20

Note: Analyte units are in mg/kg

Qualifier: *J* - estimated value
U - undetected above reported detection limit

Table F-13. South Ditch background soils data—Circleville Site

Reference	Station	Location[a]	Date	Max Depth	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Fluoride (mg/kg)	TPH (mg/kg)
Historical	40+05M	A	10/04/88	2 in		15.0			14.0			10.0 *U*
Historical	40+05M	B	10/04/88	6 in					9.4			
Historical	40+05M	B	10/04/88	12 in					10.2			
Historical	40+05M	B	10/04/88	18 in					0.69 *U*			
Historical	40+05NC	C1L	10/04/88	6 in					10.6			
Historical	40+05NC	C1L	10/04/88	12 in					8.7			
Historical	40+05SC	C1R	10/04/88	6 in					28.3			
Historical	40+05SC	C1R	10/04/88	12 in					12.2			
Historical	40+05, ave	All	10/04/88	2-18 in		15			11.7			10.0 *U*
PTI, RI	G-SD-1				1.9 *U*	19.0	102 *J*	10.0 *J*	17.3 *J*	21.6 *J*	210 *J*	20 *U*
PTI, RI	G-SD-1 (Dup)				1.7 *U*	16.2	105 *J*	6.7 *J*	13.7 *J*	17.4 *J*	3,000 *J*	20 *U*
PTI, RI	G-SD-1, ave				1.8 *U*	17.6	104 *J*	8.4 *J*	15.5 *J*	19.5 *J*	1,605 *J*	20 *U*

Qualifier: *J* - estimated value
U - undetected above reported detection limit

Table F-14. Background surface water data—Circleville Site

Reference	Station	Stream Flow (cfs)	Dissolved Lead (μg/L)	Total Lead (μg/L)	Hardness (mg/L)	pH (pH units)	Conductivity (*m*mho/cm)	Dissolved Oxygen (ppm)	Temper-ature (^{o}C)	TSS (mg/L)
PTI, RI. Low-Flow Event (12/95)	SW-SD-1	0.19	3.0 *U*	3.0 *U*	460	NA	731	2.8	39.2	--
PTI, RI. High-Flow Event (5/96)	SW-SD-1	1.15	3.0 *U*	3.0 *U*	490	7.67	770	9.60	19.2	160

Note: -- not analyzed; preserved samples received at laboratory
cfs - cubic feet per second
NA - not analyzed due to field instrument failure
TSS - total suspended solids

Qualifier: *U* - undetected at detection limit shown

Table F-15. Summary of exposure point concentrations for Circleville areas of interest

	Antimony			Arsenic			Lead		
Location / Depth	n	EPC (mg/kg)	Source	n	EPC (mg/kg)	Source	n	EPC (mg/kg)	Source
East Fenced Area sludge									
All data	10	68	max	13	177	UCL	13	5,795	am
East Swale soil/sediment									
All data	31	165	UCL	26	117	UCL	90	985	am
Surface data (0–6")	11	237	UCL	14	210	UCL	37	2,093	am
Subsurface data (>6")	20	25.0	UCL	12	35.3	UCL	--	--	
Subsurface data (6–12")	--	--		--	--		24	178	am
Subsurface data (12–18")	--	--		--	--		21	172	am
Subsurface data (18–24")	--	--		--	--		4	451	am
South Ditch soil/sediment*									
All data	4	51.5	max	19	102	UCL	192	672	am
Surface data (0–6")	1	51.5	max	13	119	UCL	101	1,026	am
Subsurface data (>6")	3	19.2	max	6	143	max	--	--	
Subsurface data (6–12")	--	--		--	--		71	314	am
Subsurface data (12–18")	--	--		--	--		14	64.9	am
Subsurface data (18–24")	--	--		--	--		3	582	am
Outfall 001, surface data (0–6")	--	--		2	146	max	8	1,415	am
Outfall 001, subsurface data (>6")	--	--		1	42.5	max	6	41.7	am
Outfall 004, surface data (0–6")	--	--		--	--		14	1,273	am
Outfall 004, subsurface data (>6")	--	--		--	--		10	1,373	am
Offsite Creek Area soil/sediment									
All data	42	34.0	UCL	77	67.9	UCL	--	--	
Surface data (0–6")	19	32.5	UCL	40	53.2	UCL	--	--	
Subsurface data (>6")	23	70.7	UCL	37	130	UCL	--	--	
Upper Creek, all data	--	--		--	--		199	563	am
Upper Creek, Surface data (0–6")	--	--		--	--		74	884	am
Upper Creek, Subsurface data (6–12")	--	--		--	--		69	453	am
Upper Creek, Subsurface data (12–18")	--	--		--	--		48	164	am
Upper Creek, Subsurface data (18–24")	--	--		--	--		5	800	am
Non-Deltaic, all data	--	--		--	--		707	116	am
Non-Deltaic, Surface data (0–6")	--	--		--	--		244	127	am
Non-Deltaic, Subsurface data (6–12")	--	--		--	--		219	135	am
Non-Deltaic, Subsurface data (12–18")	--	--		--	--		197	85.6	am
Non-Deltaic, Subsurface data (18–24")	--	--		--	--		25	134	am
Deltaic area, all data	--	--		--	--		348	1,396	am
Deltaic area, surface data (0–6")	--	--		--	--		99	2,221	am
Deltaic area, subsurface data (6–12")	--	--		--	--		84	2,080	am
Deltaic area, subsurface data (12–18")	--	--		--	--		65	848	am
Deltaic area, subsurface data (18–24")	--	--		--	--		52	630	am

*In addition, EPCs for organics in South Ditch soil/sediment are as follows (data were available for surface soil only):

Compound:	n	EPC (mg/kg)	Source
Benz[a]anthracene	7	2.7	UCL
Benzo[a]pyrene	7	7.2	max
Benzo[b]fluoranthene	7	11.0	max
Dibenz[a,h]anthracene	7	0.26	max
Indeno[1,2,3-cd]pyrene	7	1.9	UCL

Note:

Source - source of EPC, as follows:
- am - arithmetic mean
- max - maximum detected concentration
- ucl - upper 95 percent confidence limit on the arithmetic mean

n - number of samples

EPC - exposure point concentration

Outfall 001 area includes data from the following locations: 12+30, G-SD-2, CCS-2, 3A, 4A

Outfall 004 area includes data from the following locations: 2A, 21M, 19+30, TSD 19+30, SS-SED-1, 1A, 20M

See Table F-15F for sample locations included in the Upper Creek, Non-Deltaic, and Deltaic areas.

Table F-15A. Exposure point concentrations for East Fenced Area sludge

Reference	Station	Date	Max Depth (in.)	Total Antimony (mg/kg)	Total Arsenic (mg/kg)	Total Lead (mg/kg)
AD Little 1993	CSD3	3/10/1988	48	136 *U*	73	3,200
AD Little 1993	CSD3	3/10/1988	108	124 *U*	119	5,720
AD Little 1993	CSD3	3/10/1988	168	92 *U*	10.8 *U*	676
AD Little 1993	CSD4	3/10/1988	48	126 *U*	269	13,800
AD Little 1993	CSD5	3/10/1988	48	124 *U*	180	8,930
AD Little 1993	CSD5	3/10/1988	60	121 *U*	358	9,430
AD Little 1993	CSD6	3/10/1988	48	102 *U*	53	604
E&E 1989	S1	6/28/1988	72	68 *JN*	150	5,970
E&E 1989	S2	6/28/1988	36	63 *JN*	188	8,630
E&E 1989	S3	6/28/1988	12	9 *JNB*	45	1,770
OEPA 1991	RC-S1	2/28/1991	24		25	8,800
OEPA 1991	RC-S3	2/28/1991	30		100	4,900
OEPA 1991	RC-S4	2/28/1991	30		80	2,900
All Data	Number of samples in dataset			10	13	13
	Number of detects			3	12	13
	Frequency of detect			30%	92%	100%
	Maximum detected value			68	358	13,800
	Arithmetic mean			55.3	127	5,795
	95% UCL			81.3	177	n/a
	EPC/source			68 max	177 UCL	5,795 am

Note: am - arithmetic mean
EPC - exposure point concentration
UCL - upper 95% confidence limit on the arithmetic mean
n/a - UCL not used for lead risk assessment

Qualifier: *B* - above instrument detection limit and below contract-required detection limit
J - estimated value
N - outside quality control protocols
U - undetected at detection limit shown

Table F-15B. Exposure point concentrations for East Swale soils/sediments

Reference	Station	Location	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)	Arsenic (mg/kg)	Lead (mg/kg)
Historical	ED-1	A	Surface			68.7	1,890
Historical	ED-1	B	0	6			48.9
Historical	ED-1	C1L	0	6			882
Historical	ED-1	C1R	0	6			12.3
Historical	ED-1	C2L	0	6		17.0	152
Historical	ED-1	C2R	0	6		90.4	254
Historical	ED-1	C1L	6	12			44.2
Historical	ED-2	A	Surface				23,500
Historical	ED-2	B	0	6			674
Historical	ED-2	C1L	0	6		41.0	588
Historical	ED-2	C1R	0	6		33.1	895
Historical	ED-2	C2L	0	6			613
Historical	ED-2	C2R	0	6			132
Historical	ED-2	C1L	6	12		42.3	106
Historical	ED-2	C1R	6	12		21.4	445
Historical	RC-S6	--	0	4		380	6,100
PTI, RI	T-ES-1	A	0	6	604 *J*	530	17,600 *J*
PTI, RI	T-ES-1	B	0	6	14.0 *J*		312 *J*
PTI, RI	T-ES-1	C1L	0	6	25.4 *J*	58.1	1,030 *J*
PTI, RI	T-ES-1	C1R	0	6	79.5 *J*	59.7	2,490 *J*
PTI, RI	T-ES-1	C2L	0	6	5.5 *J*		83.1 *J*
PTI, RI	T-ES-1	C2R	0	6	3.3 *J*		57.3 *J*
PTI, RI	T-ES-1	B	6	12	39.1 *J*		968 *J*
PTI, RI	T-ES-1	C1L	6	12	15.2 *J*		347 *J*
PTI, RI	T-ES-1	C1R	6	12	28.5 *J*	17.5	752 *J*
PTI, RI	T-ES-1	C2L	6	12	2.4 *J*		33.5 *J*
PTI, RI	T-ES-1	C2R	6	12	1.7 *J*	13.8	57.3 *J*
PTI, RI	T-ES-1	B	12	18	24.9 *J*		545 *J*
PTI, RI	T-ES-1	C1L	12	18	11.4 *J*		289 *J*
PTI, RI	T-ES-1	C1L	12	18	9.5 *J*		274 *J*
PTI, RI	T-ES-1	C1R	12	18	15.8 *J*		550 *J*
PTI, RI	T-ES-1	C2L	12	18	1.3 *J*		15.1 *J*
PTI, RI	T-ES-1	C2R	12	18	1.5 *J*		28.7 *J*
PTI, RI	T-ES-1	B	18	24	43.1 *J*	73.1	1,170 *J*
PTI, RI	T-ES-1	B	24	30	20.0 *J*		419 *J*
PTI, RI	T-ES-2	A	0	6	121	129	4,640 *J*
PTI, RI	T-ES-2	B	0	6	13.0	25.0	266 *J*
PTI, RI	T-ES-2	C1L	0	6			72.4 *J*
PTI, RI	T-ES-2	C1R	0	6			169 *J*
PTI, RI	T-ES-2	C2L	0	6			191 *J*
PTI, RI	T-ES-2	C2R	0	6			117 *J*
PTI, RI	T-ES-2	B	6	12			63.9 *J*
PTI, RI	T-ES-2	C1L	6	12			28 *J*
PTI, RI	T-ES-2	C1R	6	12			216 *J*
PTI, RI	T-ES-2	C2L	6	12			51.8 *J*
PTI, RI	T-ES-2	C2R	6	12	7.3	18.5	20.4 *J*

Table F-15B. (cont.)

Reference	Station	Location[a]	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)	Arsenic (mg/kg)	Lead (mg/kg)
PTI, RI	T-ES-2	B	12	18			195 *J*
PTI, RI	T-ES-2	C1L	12	18			29.6 *J*
PTI, RI	T-ES-2	C1R	12	18			12.9 *J*
PTI, RI	T-ES-2	C2L	12	18			30.9 *J*
PTI, RI	T-ES-2	C2R	12	18			183 *J*
PTI, RI	T-ES-2	B	18	24	0.5 *U*	12.9	21.5 *J*
PTI, RI	T-ES-2	B	24	30			25.2 *J*
PTI, RI	T-ES-3	A	0	6	136	160	5,850 *J*
PTI, RI	T-ES-3	B	0	6			356 *J*
PTI, RI	T-ES-3	C1L	0	6			117
PTI, RI	T-ES-3	C1R	0	6			24.3 *J*
PTI, RI	T-ES-3	C2L	0	6			937 *J*
PTI, RI	T-ES-3	C2R	0	6			240 *J*
PTI, RI	T-ES-3	B	6	12			108 *J*
PTI, RI	T-ES-3	C1L	6	12			304 *J*
PTI, RI	T-ES-3	C1L	6	12			179 *J*
PTI, RI	T-ES-3	C1R	6	12	1.3	13.9	30.1 *J*
PTI, RI	T-ES-3	C2L	6	12			23.2 *J*
PTI, RI	T-ES-3	C2R	6	12			59.7 *J*
PTI, RI	T-ES-3	B	12	18	7.7	23.2	392 *J*
PTI, RI	T-ES-3	C1L	12	18			50.9 *J*
PTI, RI	T-ES-3	C1R	12	18			26.9 *J*
PTI, RI	T-ES-3	C2L	12	18			333 *J*
PTI, RI	T-ES-3	C2R	12	18			165
PTI, RI	T-ES-3	B	18	24			61.7 *J*
PTI, RI	T-ES-3	B	24	30	11.6	32.5	561 *J*
PTI, RI	T-ES-4	A	0	6	17.8	51.7	1,720 *J*
PTI, RI	T-ES-4	B	0	6	39.0	121.8	5,010 *J*
PTI, RI	T-ES-4	C1L	0	6			61.6
PTI, RI	T-ES-4	C1R	0	6			85.1 *J*
PTI, RI	T-ES-4	C2L	0	6			198
PTI, RI	T-ES-4	C2R	0	6			74.5 *J*
PTI, RI	T-ES-4	B	6	12			115 *J*
PTI, RI	T-ES-4	C1L	6	12	2.2	15.0	58.5
PTI, RI	T-ES-4	C1R	6	12			42.7 *J*
PTI, RI	T-ES-4	C2L	6	12			198
PTI, RI	T-ES-4	C2R	6	12			13.6 *J*
PTI, RI	T-ES-4	B	12	18			272 *J*
PTI, RI	T-ES-4	C1L	12	18			145
PTI, RI	T-ES-4	C1R	12	18			35.6 *J*
PTI, RI	T-ES-4	C2L	12	18			14
PTI, RI	T-ES-4	C2R	12	18			14.2
PTI, RI	T-ES-4	B	18	24	7.7	25.9	551 *J*
PTI, RI	T-ES-4	B	24	30			540 *J*

Table F-15B. (cont.)

Reference	Station	Location[a]	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)		Arsenic (mg/kg)		Lead (mg/kg)	
All Data (0–30")	Number of samples in dataset				31		26		90	
	Number of detects				30		26		90	
	Frequency of detect				97%		100%		100%	
	Maximum detected value				604		530		23,500	
	Arithmetic mean				42.3		79.8		985	
	95% UCL				165		117		n/a	
	EPC/source				165	UCL	117	UCL	985	am
Surface (0–6")	Number of samples in dataset				11		14		37	
	Number of detects				11		14		37	
	Frequency of detect				100%		100%		100%	
	Maximum detected value				604		530		23,500	
	Arithmetic mean				96.2		126		2,093	
	95% UCL				237		210		n/a	
	EPC/source				237	UCL	210	UCL	2,093	am
Subsurface (>6")	Number of samples in dataset				20		12		--	
	Number of detects				19		12		--	
	Frequency of detect				95%		100%		--	
	Maximum detected value				43.1		73.1		--	
	Arithmetic mean				12.6		25.8		--	
	95% UCL				25.0		35.3		--	
	EPC/source				25.0	UCL	35.3	UCL	--	
Subsurface (6–12")	Number of samples in dataset				--		--		24	
	Number of detects				--		--		24	
	Frequency of detect				--		--		100%	
	Maximum detected value				--		--		968	
	Arithmetic mean				--		--		178	
	EPC/source				--		--		178	am
Subsurface (12–18")	Number of samples in dataset				--		--		21	
	Number of detects				--		--		21	
	Frequency of detect				--		--		100%	
	Maximum detected value				--		--		550	
	Arithmetic mean				--		--		172	
	EPC/source				--		--		172	am
Subsurface (18–24")	Number of samples in dataset				--		--		4	
	Number of detects				--		--		4	
	Frequency of detect				--		--		100%	
	Maximum detected value				--		--		1,170	
	Arithmetic mean				--		--		451	
	EPC/source				--		--		451	am

Note: am - arithmetic mean
EPC - exposure point concentration
UCL - upper 95% confidence limit on the arithmetic mean

Qualifier: *J* - estimated value
U - undetected at detection limit shown

Table F-15C-1. Exposure point concentrations for South Ditch soils/sediments–antimony and arsenic

Reference	Station	Location	Date	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)		Arsenic (mg/kg)	
Historical	0+25M	A	10/4/1988	0	2			30.9	
Historical	12+30M[a]	A	10/4/1988	0	2			146	
Historical	19+30M	A	10/4/1988	0	2			239	
Historical	29+75M	A	10/4/1988	0	2			17.2	
Historical	33+15M	A	10/4/1988	0	2			121	
Historical	0+25ND	C2L	10/1/1990	0	6			17.9	
Historical	12+30SD[a]	C2R	10/1/1990	0	6			26.0	
Historical	16A	A	10/2/1990	0	6			30.5	
Historical	19+30M	B	10/4/1988	0	6			106	
Historical	19M	A	10/2/1990	0	6			104	
Historical	22M	A	10/2/1990	0	6			46.0	
Historical	25M	A	10/2/1990	0	6			29.1	
PTI, RI	TSD0+25	C1L		0	6	51.5		73.0	
Historical	0+25SD	C2R	10/1/1990	6	12			14.6	
Historical	12+30SD[a]	C2R	10/1/1990	6	12			42.5	
Historical	7+25ND	C2L	10/1/1990	6	12			17.1	
PTI, RI	TSD0+25	C1L		6	12	2.4		9.6	
PTI, RI	TSD19+30	B		6	12	5.2	*J*	109	
PTI, RI	TSD19+30	B		12	18	19.2	*J*	143	
All Data (0–18")	Number of samples in dataset					4		19	
	Number of detects					4		19	
	Frequency of detect					100%		100%	
	Maximum detected value					51.5		239	
	Arithmetic mean					19.6		69.6	
	95% UCL					n/a		102	
	EPC/source					51.5	max	102	UCL
Surface (0–6")	Number of samples in dataset					1		13	
	Number of detects					1		13	
	Frequency of detect					100%		100%	
	Maximum detected value					51.5		239	
	Arithmetic mean					51.5		75.9	
	95% UCL					n/a		119	
	EPC/source					51.5	max	119	UCL
Subsurface (>6")	Number of samples in dataset					3		6	
	Number of detects					3		6	
	Frequency of detect					100%		100%	
	Maximum detected value					19.2		143	
	Arithmetic mean					8.9		56.0	
	95% UCL					n/a		164	
	EPC/source					19.2	max	143	max

Note: EPC - exposure point concentration
UCL - upper 95% confidence limit on the arithmetic mean

Qualifier: *J* - estimated value
U - undetected at detection limit shown

[a] Outfall 001

Table F-15C-2. Exposure point concentrations for South Ditch soils/sediments—lead

Reference	Station	Date	Depth Range (in.)	Lead (mg/kg)
Historical	0+25-A	10/04/88	0–2	576
Historical	12+30-A	10/04/88	0–2	4,680
Historical	13+60-A	10/04/88	0–2	750
Historical	15+70-A	10/04/88	0–2	10,500
Historical	19+30-A	10/04/88	0–2	1,720
Historical	1A	11/30/87	0–2	361
Historical	21+05-A	10/04/88	0–2	441
Historical	25+05-A	10/04/88	0–2	125
Historical	29+75-A	10/04/88	0–2	116
Historical	2A	11/30/87	0–2	8,770
Historical	33+15-A	10/04/88	0–2	43.4
Historical	3A	11/30/87	0–2	2,240
Historical	40+05-A	10/04/88	0–2	14
Historical	4A	11/30/87	0–2	2,500
Historical	5A	11/30/87	0–2	2,770
Historical	7+25-A	10/04/88	0–2	681
Historical	SS-SED-1-A	05/01/92	0–2	2,720
Historical	SS-SED-2-A	05/01/92	0–2	1,650
Historical	0+25-C1L	10/04/88	0–6	16,200
Historical	0+25-C1R	10/04/88	0–6	13.7
Historical	0+25-C2L	10/01/90	0–6	312
Historical	0+25-C2R	10/01/90	0–6	1,060
Historical	12+30-C1L	10/04/88	0–6	1,620
Historical	12+30-C1R	10/04/88	0–6	138
Historical	12+30-C2L	10/04/88	0–6	88.1
Historical	12+30-C2R	10/04/88	0–6	22.3 *L*
Historical	13+60-C1L	10/04/88	0–6	2,080
Historical	13+60-C1R	10/04/88	0–6	8.8
Historical	15+70-C1L	10/04/88	0–6	9.3
Historical	15+70-C1R	10/04/88	0–6	1,210
Historical	16A	10/20/90	0–6	90.1
Historical	17A	10/20/90	0–6	375
Historical	18A	10/20/90	0–6	59.7
Historical	19+30-C1L	10/04/88	0–6	807
Historical	19+30-C1R	10/04/88	0–6	439
Historical	19+30-C2L	10/04/88	0–6	32.2
Historical	19+30-C2R	10/04/88	0–6	95.4
Historical	19A	10/20/90	0–6	303
Historical	20	10/20/90	0–6	111
Historical	21+05-C1L	10/04/88	0–6	3,500
Historical	21+05-C1R	10/04/88	0–6	15.7
Historical	21A	10/20/90	0–6	454
Historical	22A	10/20/90	0–6	533
Historical	23A	10/20/90	0–6	160
Historical	24A	10/20/90	0–6	112
Historical	25+05-C1L	10/04/88	0–6	264
Historical	25+05-C1R	10/04/88	0–6	9.1
Historical	25A	10/20/90	0–6	75.4
Historical	29+75-C1L	10/04/88	0–6	48.7
Historical	29+75-C1R	10/04/88	0–6	8.1
Historical	33+15-C1L	10/04/88	0–6	27.6
Historical	33+15-C1R	10/04/88	0–6	7.2
Historical	40+05-C1L	10/04/88	0–6	10.6
Historical	40+05-C1R	10/04/88	0–6	28.3
Historical	7+25-C1L	10/04/88	0–6	44.4
Historical	7+25-C1R	10/04/88	0–6	75.9
Historical	7+25-C2L	10/01/90	0–6	52.8
Historical	7+25-C2R	10/01/90	0–6	21.9

Table F-15C-2. (cont.)

Reference	Station	Date	Depth Range (in.)	Lead (mg/kg)
RI	G-SD-1	10/24/95	0–6	15.5 *J*
RI	TSD0+25-C1L	10/25/95	0–6	2,470 *J*
Supplemental	T-SD-1-A	10/06/03	0–6	364
Supplemental	T-SD-1-C1L	10/06/03	0–6	99.1
Supplemental	T-SD-1-C1R	10/06/03	0–6	20.2
Supplemental	T-SD-1-C2L	10/06/03	0–6	45.7
Supplemental	T-SD-1-C2R	10/06/03	0–6	102
Supplemental	T-SD-2-A	10/02/03	0–6	4,320
Supplemental	T-SD-2-C1L	10/02/03	0–6	324
Supplemental	T-SD-2-C1R	10/02/03	0–6	9.8
Supplemental	T-SD-2-C2L	10/02/03	0–6	2,640
Supplemental	T-SD-2-C2R	10/02/03	0–6	92.8
Supplemental	T-SD-3-A	10/02/03	0–6	375 *J*
Supplemental	T-SD-3-C1L	10/02/03	0–6	120 *J*
Supplemental	T-SD-3-C1R	10/02/03	0–6	272.75 *J*
Supplemental	T-SD-3-C2L	10/02/03	0–6	114 *J*
Supplemental	T-SD-3-C2R	10/02/03	0–6	48.9
Supplemental	T-SD-4-A	10/02/03	0–6	1,320 *J*
Supplemental	T-SD-4-C1L	10/02/03	0–6	434.5 *J*
Supplemental	T-SD-4-C1R	10/02/03	0–6	2,390 *J*
Supplemental	T-SD-4-C2L	10/02/03	0–6	1,240
Supplemental	T-SD-4-C2R	10/02/03	0–6	266 *J*
Supplemental	T-SD-5-A	10/02/03	0–6	1,370
Supplemental	T-SD-5-C1L	10/02/03	0–6	1,870
Supplemental	T-SD-5-C1R	10/02/03	0–6	384
Supplemental	T-SD-5-C2L	10/06/03	0–6	310
Supplemental	T-SD-5-C2R	10/06/03	0–6	75.1
Supplemental	T-SD-6-A	10/02/03	0–6	1,040
Supplemental	T-SD-6-C1L	10/02/03	0–6	188
Supplemental	T-SD-6-C1R	10/02/03	0–6	1,125
Supplemental	T-SD-6-C2L	10/02/03	0–6	238
Supplemental	T-SD-6-C2R	10/02/03	0–6	359
Historical	0+25-B	10/04/88	2–8	416
Historical	12+30-B	10/04/88	2–8	33.5
Historical	13+60-B	10/04/88	2–8	130
Historical	15+70-B	10/04/88	2–8	2,460
Historical	19+30-B	10/04/88	2–8	4,050
Historical	21+05-B	10/04/88	2–8	684
Historical	25+05-B	10/04/88	2–8	23.6
Historical	29+75-B	10/04/88	2–8	37.5
Historical	33+15-B	10/04/88	2–8	6.0
Historical	40+05-B	10/04/88	2–8	9.4
Historical	7+25-B	10/04/88	2–8	531
Supplemental	T-SD-3-B	10/02/03	6–8	620 *J*
Supplemental	T-SD-5-B	10/02/03	6–10	516
Supplemental	T-SD-4-B	10/02/03	6–11	656 *J*
Historical	0+25-C1L	10/04/88	6–12	4,350
Historical	0+25-C1R	10/04/88	6–12	13.2
Historical	0+25-C2L	10/01/90	6–12	15.8
Historical	0+25-C2R	10/01/90	6–12	33.5
Historical	12+30-C1L	10/04/88	6–12	201
Historical	12+30-C1R	10/04/88	6–12	19.9
Historical	12+30-C2L	10/04/88	6–12	4.9 *U*
Historical	12+30-C2R	10/04/88	6–12	4.7
Historical	13+60-C1L	10/04/88	6–12	221
Historical	13+60-C1R	10/04/88	6–12	7.8
Historical	15+70-C1L	10/04/88	6–12	23.5
Historical	15+70-C1R	10/04/88	6–12	9.8
Historical	19+30-C1L	10/04/88	6–12	209

Table F-15C-2. (cont.)

Reference	Station	Date	Depth Range (in.)	Lead (mg/kg)
Historical	19+30-C1R	10/04/88	6–12	7.7
Historical	21+05-C1L	10/04/88	6–12	77
Historical	21+05-C1R	10/04/88	6–12	7.9
Historical	25+05-C1L	10/04/88	6–12	9.2
Historical	25+05-C1R	10/04/88	6–12	8.1
Historical	29+75-C1L	10/04/88	6–12	8.1
Historical	29+75-C1R	10/04/88	6–12	7.1
Historical	33+15-C1L	10/04/88	6–12	9.5
Historical	33+15-C1R	10/04/88	6–12	6.4
Historical	40+05-C1L	10/04/88	6–12	8.7
Historical	40+05-C1R	10/04/88	6–12	12.2
Historical	7+25-C1L	10/04/88	6–12	17.5
Historical	7+25-C1R	10/04/88	6–12	9.1
Historical	7+25-C2L	10/01/90	6–12	35
Historical	7+25-C2R	10/01/90	6–12	10.2
RI	TSD0+25-C1L	10/25/95	6–12	144 *J*
RI	TSD19+30-B	11/17/95	6–12	329.5 *J*
Supplemental	T-SD-1-B	10/06/03	6–12	28.7
Supplemental	T-SD-1-C1L	10/06/03	6–12	12.8
Supplemental	T-SD-1-C1R	10/06/03	6–12	7.8
Supplemental	T-SD-1-C2L	10/06/03	6–12	259
Supplemental	T-SD-1-C2R	10/06/03	6–12	43.8
Supplemental	T-SD-2-B	10/02/03	6–12	12,100
Supplemental	T-SD-2-C1L	10/02/03	6–12	345
Supplemental	T-SD-2-C1R	10/02/03	6–12	6.0
Supplemental	T-SD-2-C2L	10/02/03	6–12	96.8
Supplemental	T-SD-2-C2R	10/02/03	6–12	16.0
Supplemental	T-SD-3-C1L	10/02/03	6–12	9.9 *J*
Supplemental	T-SD-3-C1R	10/02/03	6–12	9.0
Supplemental	T-SD-3-C2L	10/02/03	6–12	13.3 *J*
Supplemental	T-SD-3-C2R	10/02/03	6–12	19.9
Supplemental	T-SD-4-C1L	10/02/03	6–12	30.9 *J*
Supplemental	T-SD-4-C1R	10/02/03	6–12	8.1 *J*
Supplemental	T-SD-4-C2L	10/02/03	6–12	202
Supplemental	T-SD-4-C2R	10/02/03	6–12	18.9 *J*
Supplemental	T-SD-5-C1L	10/02/03	6–12	16.7
Supplemental	T-SD-5-C1R	10/02/03	6–12	50.5
Supplemental	T-SD-5-C2L	10/06/03	6–12	71.3
Supplemental	T-SD-5-C2R	10/06/03	6–12	16.8
Supplemental	T-SD-6-B	10/02/03	6–12	553
Supplemental	T-SD-6-C1L	10/02/03	6–12	16.8
Supplemental	T-SD-6-C1R	10/02/03	6–12	94.7
Supplemental	T-SD-6-C2L	10/02/03	6–12	18.3
Supplemental	T-SD-6-C2R	10/02/03	6–12	21.4
Historical	0+25-B	10/04/88	8–14	11.0
Historical	12+30-B	10/04/88	8–14	9.7
Historical	13+60-B	10/04/88	8–14	71.2
Historical	15+70-B	10/04/88	8–14	57.5
Historical	19+30-B	10/04/88	8–14	331
Historical	21+05-B	10/04/88	8–14	25.2
Historical	25+05-B	10/04/88	8–14	18.2
Historical	29+75-B	10/04/88	8–14	46.7
Historical	33+15-B	10/04/88	8–14	8.0
Historical	40+05-B	10/04/88	8–14	10.2
Historical	7+25-B	10/04/88	8–14	10.0
RI	TSD0+25-C1L	10/25/95	12–18	27.5 *J*
RI	TSD19+30-B	11/17/95	12–18	52.6 *J*
Supplemental	T-SD-1-B	10/06/03	12–18	6.6
Supplemental	T-SD-2-B	10/02/03	12–18	18.8

Table F-15C-2. (cont.)

Reference	Station	Date	Depth Range (in.)	Lead (mg/kg)
Supplemental	T-SD-6-B	10/02/03	12–18	122
Historical	0+25-B	10/04/88	14–20	10.8
Historical	12+30-B	10/04/88	14–20	12.6
Historical	13+60-B	10/04/88	14–20	6.8
Historical	19+30-B	10/04/88	14–20	601
Historical	21+05-B	10/04/88	14–20	24.5
Historical	25+05-B	10/04/88	14–20	4.8
Historical	29+75-B	10/04/88	14–20	6.0
Historical	40+05-B	10/04/88	14–20	0.69 *U*
Historical	7+25-B	10/04/88	14–20	13.6
Supplemental	T-SD-6-B	10/02/03	18–21	6.0
RI	TSD0+25-C1L	10/25/95	18–24	10.8 *J*
RI	TSD19+30-B	11/17/95	18–24	1,730 *J*
RI	TSD0+25-C1L	10/25/95	24–30	9.8 *J*
RI	TSD19+30-B	11/17/95	24–30	148 *J*
RI	TSD19+30-B	11/17/95	30–36	333 *J*
All Data	Number of samples			192
(0–36")	Maximum detected value			16,200
	Arithmetic mean			672
Surface	Number of samples			101
(0–6")	Maximum detected value			16,200
	Arithmetic mean			1,026
Subsurface	Number of samples			71
(6–12")	Maximum detected value			12,100
	Arithmetic mean			314
Subsurface	Number of samples			14
(12–18")	Maximum detected value			601
	Arithmetic mean			64.9
Subsurface	Number of samples			3
(18–24")	Maximum detected value			1,730
	Arithmetic mean			582
Outfall 001	Number of samples			14
All Data	Maximum detected value			4,680
(0–20")	Arithmetic mean			827
Outfall 001	Number of samples			8
Surface	Maximum detected value			4,680
(0–6")	Arithmetic mean			1,415
Outfall 001	Number of samples			6
Subsurface	Maximum detected value			201
(>6")	Arithmetic mean			41.7
Outfall 004	Number of samples			24
All Data	Maximum detected value			12,100
(0–20")	Arithmetic mean			1,314
Outfall 004	Number of samples			14
Surface	Maximum detected value			4,320
(0–6")	Arithmetic mean			1,273
Outfall 004	Number of samples			10
Subsurface	Maximum detected value			12,100
(>6")	Arithmetic mean			1,373

Note: Outfall 001 area includes data from the following locations: 12+30, G-SD-2, CCS-2, 3A,
Outfall 004 area includes data from the following locations: 2A, 21M, 19+30, TSD 19+30
SSSED-1, 1A, 20M

Qualifier: *J* - estimated value
L - Reported concentration is the average of detected and undetected value from sample and field duplicate; actual value is less than reported value.
U - undetected at detection limit shown

Table F-15D. Exposure point concentrations for South Ditch soil/sediment—organics

Reference	Near former OSP outfall	Date	Depth (in.)	Benz[a]-anthracene (mg/kg)	Benz[a]-pyrene (mg/kg)	Benzo[b]-fluoranthene (mg/kg)	Dibenz(a,h)-anthracene (mg/kg)	Indeno-[1,2,3-cd]-pyrene (mg/kg)
PTI, RI	G-SD-2	10/24/95	6	3.9 *J*	5.20 *J*	7.40 *J*	14.0 *UJ*	2.5 *J*
PTI, RI	G-SD-3, dup ave	10/24/95	6	2.5 *J*	7.20 *J*	11.0 *J*	21.0 *UJ*	2.5
PTI, RI	CSD13-AO	09/09/97	Surface	0.29 *J*	0.46 *J*	0.68 *J*	1.0 *U*	0.37 *J*
PTI, RI	CSD14-AO	09/09/97	Surface	2.30	2.00	3.30	0.26 *J*	1.30
PTI, RI	CSD15-AO	09/03/97	Surface	2.00	2.10	2.60	0.20 *J*	0.88 *J*
PTI, RI	CSD16-AO	09/06/97	Surface	0.18 *J*	0.13 *J*	0.22 *J*	0.62 *U*	0.62 *U*
PTI, RI	CSD17-AO	09/09/97	Surface	0.46 *J*	0.63 *J*	0.85 *J*	0.11 *J*	0.44 *J*
All Data (0–6")	Number of samples in dataset			7	7	7	7	7
	Number of detects			7	7	7	3	6
	Maximum detected value			3.9	7.20	11.0	0.26	2.5
	Arithmetic mean			1.66	2.53	3.72	2.70	1.19
	95% UCL			2.7	9.4	13.3	0.28	1.9
	EPC/source			2.7 UCL	7.20 max	11.0 max	0.26 max	1.9 UCL

Note: Field duplicate samples for location G-SD-3 were handled as follows:
when both samples were detected, the values were averaged;
when both samples were nondetected, the minimum detection limit was used;
when one sample was detected and one nondetected, and the detection limit of the nondetected sample did not exceed the maximum detected concentration, the detected sample and one-half of the detection limit were averaged; and
when one sample was detected and one nondetected, and the detection limit of the nondetected sample exceeded the maximum detected concentration, the concentration of the detected sample was used.

EPC - exposure point concentration
UCL - upper 95% confidence limit on the arithmetic mean

Qualifier: *J* - estimated value
U - undetected at detection limit shown

Table F-15E. Exposure point concentrations for Offsite Creek Area soils/sediments—antimony and arsenic

Reference	Station	Location[a]	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)	Arsenic (mg/kg)
Hist., Streambed	MD-1	A	Surface			31
Hist., Streambed	OS-1	A	Surface			43.3
PTI, RI,Core	C-OCA-1		0	6	113	103
PTI, RI,Core	C-OCA-8		0	6	74.7 *J*	92.5
PTI, RI,Core	C-OCA-9		0	6	11.6 *J*	13.3
PTI, RI,Core	C-OCA-10		0	6	27.8	29.8
PTI, RI,Core	C-OCA-12		0	6	13.4	25.1
PTI,RI, Transect	T-OCA-3	A	0	6	3.7 *J*	19.1
PTI,RI, Transect	T-OCA-4	A	0	6	5.1 *J*	15.2
PTI,RI, Transect	T-OCA-5	A	0	6	19.4 *J*	37.2
PTI,RI, Transect	T-OCA-6	A	0	6	7.4 *J*	22.0
PTI,RI, Transect	T-OCA-1	B	0	6	0.87 *UJ*	15.6
PTI,RI, Transect	T-OCA-3	B	0	6	7.7 *J*	15.7
PTI,RI, Transect	T-OCA-6	B	0	6	13.9 *J*	25.6
PTI,RI, Transect	T-OCA-1	C1L	0	6	6.6 *J*	14.4
PTI,RI, Transect	T-OCA-2	C1L	0	6	3.1 *J*	16.9
PTI,RI, Transect	T-OCA-2	C1R	0	6	5.8 *J*	21.6
PTI,RI, Transect	T-OCA-5	C1R	0	6	4.9 *J*	27.5
PTI,RI, Transect	T-OCA-6	C1R	0	6	2.0 *J*	20.0
PTI,RI, Transect	T-OCA-2	C2L	0	6	1.4 *J*	15.5
PTI,RI, Transect	T-OCA-3	C2R	0	6	2.4 *J*	21.5
Hist., Streambed	T-1	A	0	6		10.3
Hist., Streambed	T-3	A	0	6		7.45
Hist., Streambed	T-8	A	0	6		18.5
Hist., Streambed	T-1	B	0	6		7.51
Hist., Streambed	T-6	B	0	6		24.8
Hist., Streambed	T-2	C1L	0	6		8.93
Hist., Streambed	T-5	C1L	0	6		28.4
Hist., Streambed	T-7	C1L	0	6		167
Hist., Streambed	T-2	C1R	0	6		6.34
Hist., Streambed	T-4	C1R	0	6		10.9
Hist., Streambed	T-5	C1R	0	6		23.6
Hist., Streambed	T-7	C1R	0	6		35.3
Hist., Overbank	J-1	B	0	6		10.0
Hist., Overbank	M-1	B	0	6		108
Hist., Overbank	M-5	B	0	6		74.7
Hist., Overbank	J-2	C2L	0	6		10.5
Hist., Overbank	T-4	C2L	0	6		16.9
Hist., Overbank	T-9	C2L	0	6		8.41
Hist., Overbank	T-9	C2R	0	6		6.34
PTI, RI,Core	C-OCA-2		6	12	61.2	127
PTI, RI,Core	C-OCA-3		6	12	77.9	135
PTI, RI,Core	C-OCA-6		6	12	60.3 *J*	67.1
PTI, RI,Core	C-OCA-7		6	12	3.5 *J*	24.9
PTI, RI,Core	C-OCA-10		6	12	82.8	79.3
PTI, RI,Core	C-OCA-12		6	12	6.5	23.0
PTI,RI, Transect	T-OCA-5	B	6	12	4.4 *J*	18.6
PTI,RI, Transect	T-OCA-2	C1L	6	12	2.8 *J*	29.0
PTI,RI, Transect	T-OCA-3	C1L	6	12	0.67 *UJ*	14.2
PTI,RI, Transect	T-OCA-1	C2L	6	12	0.77 *UJ*	15.1
PTI,RI, Transect	T-OCA-3	C2R	6	12	0.88 *UJ*	15.4
PTI,RI, Transect	T-OCA-6	C2R	6	12	1.7 *J*	20.2
Hist., Streambed	T-6	B	6	12		22.0
Hist., Streambed	T-5	C1L	6	12		116
Hist., Streambed	T-7	C1L	6	12		17.2

Table F-15E. (cont.)

Reference	Station	Location[a]	Depth (in.) Min	Depth (in.) Max	Antimony (mg/kg)		Arsenic (mg/kg)	
Hist., Streambed	T-5	C1R	6	12			222	
Hist., Streambed	T-7	C1R	6	12			113	
Hist., Overbank	M-1	B	6	12			195	
Hist., Overbank	M-5	B	6	12			17.9	
PTI, RI,Core	C-OCA-5		12	18	1.4	*UJ*	14.7	
PTI, RI,Core	C-OCA-8		12	18	0.98	*UJ*	16.4	
PTI,RI, Transect	T-OCA-4	B	12	18	0.72	*U*	13.4	
PTI,RI, Transect	T-OCA-6	B	12	18	1.9	*UJ*	13.5	
PTI,RI, Transect	T-OCA-4	C1R	12	18	4.0		29.8	
PTI,RI, Transect	T-OCA-3	C2L	12	18	1.4	*J*	15.9	
PTI,RI, Transect	T-OCA-4	C2L	12	18	1.4		16.9	
PTI,RI, Transect	T-OCA-4	C2R	12	18	3.9		22.5	
Hist., Streambed	T-6	B	12	18			27.2	
Hist., Overbank	M-1	B	12	18			50.4	
Hist., Overbank	M-5	B	12	18			0.97	
PTI, RI,Core	C-OCA-9		18	24	2.1		14.9	
Hist., Overbank	M-1	B	18	24			20.9	
Hist., Overbank	M-5	B	18	24			27.0	
PTI,RI, Transect	T-OCA-5	B	24	30	1.6	*UJ*	18.9	
PTI,RI, Transect	T-OCA-6	B	24	30	1.8	*UJ*	9.4	
Hist., Overbank	M-1	B	24	30			1.11	
Hist., Overbank	M-5	B	24	30			1.1	
All Data (0–30")	Number of samples in dataset				42		77	
	Number of detects				32		77	
	Frequency of detect				76%		100%	
	Maximum detected value				113		222	
	Arithmetic mean				15.3		36.3	
	95% UCL				34.0		67.9	
	EPC/source				34.0	UCL	67.9	UCL
Surface (0–6")	Number of samples in dataset				19		40	
	Number of detects				18		40	
	Frequency of detect				95%		100%	
	Maximum detected value				113		167	
	Arithmetic mean				17.1		30.2	
	95% UCL				32.5		53.2	
	EPC/source				32.5	UCL	53.2	UCL
Subsurface (>6")	Number of samples in dataset				23		37	
	Number of detects				14		37	
	Frequency of detect				61%		100%	
	Maximum detected value				82.8		222	
	Arithmetic mean				13.9		42.9	
	95% UCL				70.7		130	
	EPC/source				70.7	UCL	130	UCL

Note: EPC - exposure point concentration
UCL - upper 95% confidence limit on the arithmetic mean

Qualifier: *J* - estimated value
U - undetected at detection limit shown

[a] Location symbols mean:
A - refers to composite surface sample of ditch sediments
B - refers to core samples taken below sediments
C - refers to samples taken on the left (L) or right (R) side of the streambed.

Table F-15F. Exposure point concentration calculations for Offiste Creek Area soils/sediments—lead

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Historical	SS-2/3	03/11/92	0–1	1,360
Deltaic	Historical	SS-4/5	03/11/92	0–1	2,730
Deltaic	Historical	SS-6/7	03/11/92	0–1	3,310
Deltaic	Historical	SS-01	03/11/92	0–2	87.8
Deltaic	RI	C-OCA-1	11/29/95	0–6	4,410
Deltaic	RI	C-OCA-10	11/29/95	0–6	1,090 *J*
Deltaic	RI	C-OCA-11	11/30/95	0–6	169 *J*
Deltaic	Supplemental	C-OCA-13	10/14/03	0–6	4,550 *J*
Deltaic	Supplemental	C-OCA-14	10/14/03	0–6	1,890 *J*
Deltaic	Supplemental	C-OCA-15	10/14/03	0–6	1,620
Deltaic	Supplemental	C-OCA-16	10/14/03	0–6	1,100 *J*
Deltaic	Supplemental	C-OCA-17	10/14/03	0–6	3,460 *J*
Deltaic	Supplemental	C-OCA-18	10/14/03	0–6	706 *J*
Deltaic	Supplemental	C-OCA-19	10/14/03	0–6	10,100 *J*
Deltaic	RI	C-OCA-2	11/29/95	0–6	9,920 *J*
Deltaic	Supplemental	C-OCA-20	10/14/03	0–6	8,510
Deltaic	Supplemental	C-OCA-21	10/14/03	0–6	3,160
Deltaic	Supplemental	C-OCA-22	10/14/03	0–6	1,670 *J*
Deltaic	RI	C-OCA-3	11/29/95	0–6	8,080 *J*
Deltaic	RI	C-OCA-4	11/29/95	0–6	7,740 *J*
Deltaic	RI	C-OCA-5	11/29/95	0–6	7,490 *J*
Deltaic	RI	C-OCA-6	11/29/95	0–6	5,270
Deltaic	RI	C-OCA-7	11/29/95	0–6	7,980
Deltaic	RI	C-OCA-8	11/29/95	0–6	3,640
Deltaic	RI	C-OCA-9	11/29/95	0–6	365
Deltaic	Interim Action	IA-01	10/01/02	0–6	21.3
Deltaic	Interim Action	IA-02	10/01/02	0–6	27.45
Deltaic	Interim Action	IA-03	10/01/02	0–6	30.7
Deltaic	Interim Action	IA-04	10/01/02	0–6	24.4
Deltaic	Interim Action	IA-05	10/01/02	0–6	38.1
Deltaic	Interim Action	IA-06	10/02/02	0–6	264
Deltaic	Interim Action	IA-07	10/02/02	0–6	25.1
Deltaic	Interim Action	IA-10	10/02/02	0–6	22.5
Deltaic	Interim Action	IA-11	10/02/02	0–6	16.9
Deltaic	Interim Action	IA-15	10/02/02	0–6	169
Deltaic	Historical	M-1	09/26/90	0–6	6,380
Deltaic	Historical	M-2	09/26/90	0–6	1,310
Deltaic	Historical	M-3	09/26/90	0–6	4,040
Deltaic	Historical	M-4	09/26/90	0–6	709
Deltaic	Historical	M-5	09/26/90	0–6	1,880
Deltaic	Historical	MD-1	10/01/90	0–6	947
Deltaic	Historical	MD-2	10/01/90	0–6	1,230
Deltaic	Historical	OS-2	10/04/88	0–6	1,160
Deltaic	Historical	OS-3	10/04/88	0–6	179
Deltaic	Historical	T-4-C2R	09/26/90	0–6	1,740
Deltaic	Historical	T-5-A	09/26/90	0–6	633
Deltaic	Historical	T-5-C1L	09/26/90	0–6	1,200
Deltaic	Historical	T-5-C1R	09/26/90	0–6	1,270
Deltaic	Historical	T-5-C2L	09/26/90	0–6	62.6
Deltaic	Historical	T-6-A	10/01/90	0–6	1,060
Deltaic	Historical	T-6-C1L	10/01/90	0–6	1,610
Deltaic	Historical	T-6-C1R	10/01/90	0–6	14.6
Deltaic	Supplemental	T-OCA-17-OB1L	10/14/03	0–6	704 *J*
Deltaic	Supplemental	T-OCA-18-OB1L	10/14/03	0–6	3,505
Deltaic	Supplemental	T-OCA-19-OB1R	10/15/03	0–6	7,950
Deltaic	Supplemental	T-OCA-19-OB2R	10/15/03	0–6	136

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Supplemental	T-OCA-21-OB1R	10/15/03	0–6	1,830
Deltaic	Supplemental	T-OCA-22-OB1R	10/14/03	0–6	7,870 *J*
Deltaic	Supplemental	T-OCA-23-OB1R	10/14/03	0–6	12,100 *J*
Deltaic	Supplemental	T-OCA-24-OB1R	10/14/03	0–6	8,040
Deltaic	Supplemental	T-OCA-25-OB1R	10/13/03	0–6	1,370 *J*
Deltaic	Supplemental	T-OCA-26-OB1R	10/13/03	0–6	1,115 *J*
Deltaic	Supplemental	T-OCA-27-OB1R	10/09/03	0–6	1,110
Deltaic	Supplemental	T-OCA-29-C2R	10/09/03	0–6	836
Deltaic	Supplemental	T-OCA-29-OB1L	10/09/03	0–6	74.5
Deltaic	Supplemental	T-OCA-29-OB1R	10/09/03	0–6	1,860
Deltaic	Supplemental	T-OCA-29-OB2R	10/09/03	0–6	259
Deltaic	Supplemental	T-OCA-29-OB3R	10/09/03	0–6	160
Deltaic	Supplemental	T-OCA-30-C2R	09/23/03	0–6	826
Deltaic	Supplemental	T-OCA-30-OB1R	09/23/03	0–6	527
Deltaic	Supplemental	T-OCA-30-OB2R	09/23/03	0–6	199
Deltaic	Supplemental	T-OCA-30-OB3R	09/23/03	0–6	116
Deltaic	Supplemental	T-OCA-48-A	10/09/03	0–6	83.4
Deltaic	Supplemental	T-OCA-48-C1L	10/09/03	0–6	192
Deltaic	Supplemental	T-OCA-48-C1R	10/09/03	0–6	23.3
Deltaic	Supplemental	T-OCA-48-C2L	10/09/03	0–6	3,080
Deltaic	Supplemental	T-OCA-48-C2R	10/09/03	0–6	2,690
Deltaic	Supplemental	T-OCA-48-OB1R	10/09/03	0–6	127
Deltaic	Supplemental	T-OCA-48-OB2R	10/09/03	0–6	66.1
Deltaic	Supplemental	T-OCA-49-A	10/09/03	0–6	15.6
Deltaic	Supplemental	T-OCA-49-C1L	10/09/03	0–6	64.6
Deltaic	Supplemental	T-OCA-49-C1R	10/09/03	0–6	73.5
Deltaic	Supplemental	T-OCA-49-C2L	10/09/03	0–6	1,290
Deltaic	Supplemental	T-OCA-49-C2R	10/09/03	0–6	8,600
Deltaic	Supplemental	T-OCA-49-OB1R	10/09/03	0–6	40.8
Deltaic	Supplemental	T-OCA-49-OB2R	10/09/03	0–6	13.0
Deltaic	Supplemental	T-OCA-50-A	10/15/03	0–6	137
Deltaic	Supplemental	T-OCA-50-C2L	10/15/03	0–6	4,450
Deltaic	Supplemental	T-OCA-50-C2R	10/15/03	0–6	4,220
Deltaic	Supplemental	T-OCA-50-OB1L	10/15/03	0–6	4,510
Deltaic	Supplemental	T-OCA-50-OB2L	12/10/03	0–6	15.1 *J*
Deltaic	Supplemental	T-OCA-51-A	10/15/03	0–6	386
Deltaic	Supplemental	T-OCA-51-C2L	10/15/03	0–6	2,740
Deltaic	Supplemental	T-OCA-51-C2R	10/15/03	0–6	68.2
Deltaic	Supplemental	T-OCA-51-OB1L	10/15/03	0–6	4,390
Deltaic	Supplemental	T-OCA-51-OB2L	12/10/03	0–6	12.7 *J*
Deltaic	Historical	SS-2/3	03/11/92	2–5	3,670
Deltaic	Historical	SS-4/5	03/11/92	2–6	1,340
Deltaic	Historical	SS-6/7	03/11/92	2–6	559
Deltaic	RI	C-OCA-1	11/29/95	6–12	46
Deltaic	RI	C-OCA-10	11/29/95	6–12	5,535 *J*
Deltaic	RI	C-OCA-11	11/30/95	6–12	70.3 *J*
Deltaic	Supplemental	C-OCA-13	10/14/03	6–12	7,200 *J*
Deltaic	Supplemental	C-OCA-14	10/14/03	6–12	1,340 *J*
Deltaic	Supplemental	C-OCA-15	10/14/03	6–12	5,240
Deltaic	Supplemental	C-OCA-16	10/14/03	6–12	580 *J*
Deltaic	Supplemental	C-OCA-17	10/14/03	6–12	10,500 *J*
Deltaic	Supplemental	C-OCA-18	10/14/03	6–12	585 *J*
Deltaic	Supplemental	C-OCA-19	10/14/03	6–12	12,450 *J*
Deltaic	RI	C-OCA-2	11/29/95	6–12	8,500 *J*
Deltaic	Supplemental	C-OCA-20	10/14/03	6–12	7,350
Deltaic	Supplemental	C-OCA-21	10/14/03	6–12	3,070

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Supplemental	C-OCA-22	10/14/03	6–12	615 *J*
Deltaic	RI	C-OCA-3	11/29/95	6–12	7,210 *J*
Deltaic	RI	C-OCA-4	11/29/95	6–12	26.1 *J*
Deltaic	RI	C-OCA-5	11/29/95	6–12	274 *J*
Deltaic	RI	C-OCA-6	11/29/95	6–12	2,080
Deltaic	RI	C-OCA-7	11/29/95	6–12	491
Deltaic	RI	C-OCA-8	11/29/95	6–12	167
Deltaic	RI	C-OCA-9	11/29/95	6–12	79.1 *J*
Deltaic	Interim Action	IA-01	10/01/02	6–12	12.9
Deltaic	Interim Action	IA-02	10/01/02	6–12	10.7
Deltaic	Interim Action	IA-03	10/01/02	6–12	14.3
Deltaic	Interim Action	IA-04	10/01/02	6–12	9.4
Deltaic	Interim Action	IA-05	10/01/02	6–12	83.6
Deltaic	Interim Action	IA-06	10/02/02	6–12	30.3
Deltaic	Interim Action	IA-07	10/02/02	6–12	9.8
Deltaic	Interim Action	IA-10	10/02/02	6–12	8.4
Deltaic	Interim Action	IA-11	10/02/02	6–12	8.9
Deltaic	Interim Action	IA-15	10/02/02	6–12	439
Deltaic	Historical	M-1	09/26/90	6–12	2,720
Deltaic	Historical	M-2	09/26/90	6–12	6,370
Deltaic	Historical	M-3	09/26/90	6–12	48.6
Deltaic	Historical	M-4	09/26/90	6–12	5,840
Deltaic	Historical	M-5	09/26/90	6–12	126
Deltaic	Historical	T-5-B	09/26/90	6–12	429
Deltaic	Historical	T-5-C1L	09/26/90	6–12	7,620
Deltaic	Historical	T-5-C1R	09/26/90	6–12	6,930
Deltaic	Historical	T-6-B	10/01/90	6–12	964
Deltaic	Historical	T-6-C1L	10/01/90	6–12	14.5
Deltaic	Supplemental	T-OCA-17-OB1L	10/14/03	6–12	594 *J*
Deltaic	Supplemental	T-OCA-18-OB1L	10/14/03	6–12	14,400
Deltaic	Supplemental	T-OCA-19-OB1R	10/15/03	6–12	1,120
Deltaic	Supplemental	T-OCA-19-OB2R	10/15/03	6–12	17.1
Deltaic	Supplemental	T-OCA-21-OB1R	10/15/03	6–12	298
Deltaic	Supplemental	T-OCA-22-OB1R	10/14/03	6–12	15,000
Deltaic	Supplemental	T-OCA-23-OB1R	10/14/03	6–12	15,800
Deltaic	Supplemental	T-OCA-24-OB1R	10/14/03	6–12	7,780
Deltaic	Supplemental	T-OCA-25-OB1R	10/13/03	6–12	128
Deltaic	Supplemental	T-OCA-26-OB1R	10/13/03	6–12	544 *J*
Deltaic	Supplemental	T-OCA-27-OB1R	10/09/03	6–12	50.4
Deltaic	Supplemental	T-OCA-29-C2R	10/09/03	6–12	734
Deltaic	Supplemental	T-OCA-29-OB1R	10/09/03	6–12	294
Deltaic	Supplemental	T-OCA-29-OB2R	10/09/03	6–12	35.4
Deltaic	Supplemental	T-OCA-29-OB3R	10/09/03	6–12	47.7
Deltaic	Supplemental	T-OCA-30-C2R	09/23/03	6–12	605
Deltaic	Supplemental	T-OCA-30-OB1R	09/23/03	6–12	353
Deltaic	Supplemental	T-OCA-30-OB2R	09/23/03	6–12	72.2
Deltaic	Supplemental	T-OCA-30-OB3R	09/23/03	6–12	15.5
Deltaic	Supplemental	T-OCA-48-B	10/09/03	6–12	65.9
Deltaic	Supplemental	T-OCA-48-C1L	10/09/03	6–12	23.7
Deltaic	Supplemental	T-OCA-48-C1R	10/09/03	6–12	17.4
Deltaic	Supplemental	T-OCA-48-C2L	10/09/03	6–12	2,400
Deltaic	Supplemental	T-OCA-48-C2R	10/09/03	6–12	275
Deltaic	Supplemental	T-OCA-48-OB1R	10/09/03	6–12	98.3
Deltaic	Supplemental	T-OCA-48-OB2R	10/09/03	6–12	130
Deltaic	Supplemental	T-OCA-49-B	10/09/03	6–12	15.5
Deltaic	Supplemental	T-OCA-49-C1L	10/09/03	6–12	18.6
Deltaic	Supplemental	T-OCA-49-C1R	10/09/03	6–12	19.3

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Supplemental	T-OCA-49-C2L	10/09/03	6–12	2,680
Deltaic	Supplemental	T-OCA-49-C2R	10/09/03	6–12	1,260
Deltaic	Supplemental	T-OCA-49-OB1R	10/09/03	6–12	224
Deltaic	Supplemental	T-OCA-49-OB2R	10/09/03	6–12	29.2
Deltaic	Supplemental	T-OCA-50-B	10/15/03	6–12	32.4
Deltaic	Supplemental	T-OCA-50-C2L	10/15/03	6–12	121
Deltaic	Supplemental	T-OCA-50-C2R	10/15/03	6–12	77.5
Deltaic	Supplemental	T-OCA-50-OB1L	10/15/03	6–12	219
Deltaic	Supplemental	T-OCA-50-OB2L	12/10/03	6–12	15.7 *J*
Deltaic	Supplemental	T-OCA-51-B	10/15/03	6–12	21.2
Deltaic	Supplemental	T-OCA-51-C2L	10/15/03	6–12	3,250
Deltaic	Supplemental	T-OCA-51-C2R	10/15/03	6–12	31.6
Deltaic	Supplemental	T-OCA-51-OB1L	10/15/03	6–12	686
Deltaic	Supplemental	T-OCA-51-OB2L	12/10/03	6–12	13.7 *J*
Deltaic	RI	C-OCA-1	11/29/95	12–18	116 *J*
Deltaic	RI	C-OCA-10	11/29/95	12–18	483 *J*
Deltaic	RI	C-OCA-11	11/30/95	12–18	20.3 *J*
Deltaic	Supplemental	C-OCA-13	10/14/03	12–18	4,540 *J*
Deltaic	Supplemental	C-OCA-14	10/14/03	12–18	17.5 *J*
Deltaic	Supplemental	C-OCA-15	10/14/03	12–18	10,800
Deltaic	Supplemental	C-OCA-16	10/14/03	12–18	1,740 *J*
Deltaic	Supplemental	C-OCA-17	10/14/03	12–18	155 *J*
Deltaic	Supplemental	C-OCA-18	10/14/03	12–18	20.9 *J*
Deltaic	Supplemental	C-OCA-19	10/14/03	12–18	247 *J*
Deltaic	RI	C-OCA-2	11/29/95	12–18	2,310 *J*
Deltaic	Supplemental	C-OCA-20	10/14/03	12–18	71.5
Deltaic	Supplemental	C-OCA-21	10/14/03	12–18	81.1
Deltaic	Supplemental	C-OCA-22	10/14/03	12–18	25.8 *J*
Deltaic	RI	C-OCA-3	11/29/95	12–18	24 *J*
Deltaic	RI	C-OCA-4	11/29/95	12–18	23 *J*
Deltaic	RI	C-OCA-5	11/29/95	12–18	42.6
Deltaic	RI	C-OCA-6	11/29/95	12–18	23.8
Deltaic	RI	C-OCA-7	11/29/95	12–18	268
Deltaic	RI	C-OCA-8	11/29/95	12–18	19
Deltaic	RI	C-OCA-9	11/29/95	12–18	23.3 *J*
Deltaic	Interim Action	IA-05	10/01/02	12–18	9,880
Deltaic	Interim Action	IA-15	10/02/02	12–18	1,350
Deltaic	Historical	M-1	09/26/90	12–18	145
Deltaic	Historical	M-2	09/26/90	12–18	32.3
Deltaic	Historical	M-3	09/26/90	12–18	27.2
Deltaic	Historical	M-4	09/26/90	12–18	5,950
Deltaic	Historical	M-5	09/26/90	12–18	15.1
Deltaic	Historical	T-5-B	09/26/90	12–18	1,400
Deltaic	Historical	T-6-B	10/01/90	12–18	733
Deltaic	Supplemental	T-OCA-17-OB1L	10/14/03	12–18	424 *J*
Deltaic	Supplemental	T-OCA-18-OB1L	10/14/03	12–18	8,680
Deltaic	Supplemental	T-OCA-19-OB1R	10/15/03	12–18	50.4
Deltaic	Supplemental	T-OCA-19-OB2R	10/15/03	12–18	14.9
Deltaic	Supplemental	T-OCA-21-OB1R	10/15/03	12–18	29.4
Deltaic	Supplemental	T-OCA-22-OB1R	10/14/03	12–18	1,230
Deltaic	Supplemental	T-OCA-23-OB1R	10/14/03	12–18	418
Deltaic	Supplemental	T-OCA-24-OB1R	10/14/03	12–18	16.8
Deltaic	Supplemental	T-OCA-25-OB1R	10/13/03	12–18	22
Deltaic	Supplemental	T-OCA-26-OB1R	10/13/03	12–18	40.1 *J*
Deltaic	Supplemental	T-OCA-27-OB1R	10/09/03	12–18	31.7
Deltaic	Supplemental	T-OCA-29-C2R	10/09/03	12–18	62.6

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Supplemental	T-OCA-29-OB1R	10/09/03	12–18	59.1
Deltaic	Supplemental	T-OCA-30-C2R	09/23/03	12–18	742
Deltaic	Supplemental	T-OCA-30-OB1R	09/23/03	12–18	89.2
Deltaic	Supplemental	T-OCA-48-B	10/09/03	12–18	880
Deltaic	Supplemental	T-OCA-48-C1L	10/09/03	12–18	14.9
Deltaic	Supplemental	T-OCA-48-C1R	10/09/03	12–18	19.9
Deltaic	Supplemental	T-OCA-48-C2L	10/09/03	12–18	71.8
Deltaic	Supplemental	T-OCA-48-C2R	10/09/03	12–18	24.6
Deltaic	Supplemental	T-OCA-48-OB1R	10/09/03	12–18	45.8
Deltaic	Supplemental	T-OCA-49-B	10/09/03	12–18	16.1
Deltaic	Supplemental	T-OCA-49-C1L	10/09/03	12–18	16.6
Deltaic	Supplemental	T-OCA-49-C1R	10/09/03	12–18	21.7
Deltaic	Supplemental	T-OCA-49-C2L	10/09/03	12–18	916
Deltaic	Supplemental	T-OCA-49-C2R	10/09/03	12–18	65.2
Deltaic	Supplemental	T-OCA-49-OB1R	10/09/03	12–18	189
Deltaic	Supplemental	T-OCA-50-B	10/15/03	12–18	24
Deltaic	Supplemental	T-OCA-50-C2L	10/15/03	12–18	50.1
Deltaic	Supplemental	T-OCA-50-C2R	10/15/03	12–18	45.6
Deltaic	Supplemental	T-OCA-50-OB1L	10/15/03	12–18	42
Deltaic	Supplemental	T-OCA-51-B	10/15/03	12–18	12
Deltaic	Supplemental	T-OCA-51-C2L	10/15/03	12–18	113
Deltaic	Supplemental	T-OCA-51-C2R	10/15/03	12–18	24.7
Deltaic	Supplemental	T-OCA-51-OB1L	10/15/03	12–18	32.4
Deltaic	Supplemental	T-OCA-49-B	10/09/03	18–20	14.3
Deltaic	RI	C-OCA-1	11/29/95	18–24	7 *J*
Deltaic	RI	C-OCA-10	11/29/95	18–24	22.9 *J*
Deltaic	RI	C-OCA-11	11/30/95	18–24	22.9 *J*
Deltaic	Supplemental	C-OCA-13	10/14/03	18–24	49 *J*
Deltaic	Supplemental	C-OCA-14	10/14/03	18–24	14.9 *J*
Deltaic	Supplemental	C-OCA-15	10/14/03	18–24	198
Deltaic	Supplemental	C-OCA-16	10/14/03	18–24	6,310 *J*
Deltaic	Supplemental	C-OCA-17	10/14/03	18–24	26.8 *J*
Deltaic	Supplemental	C-OCA-18	10/14/03	18–24	22.9 *J*
Deltaic	Supplemental	C-OCA-19	10/14/03	18–24	41.1 *J*
Deltaic	RI	C-OCA-2	11/29/95	18–24	17.7 *J*
Deltaic	Supplemental	C-OCA-20	10/14/03	18–24	31.7
Deltaic	Supplemental	C-OCA-21	10/14/03	18–24	31.1
Deltaic	Supplemental	C-OCA-22	10/14/03	18–24	23 *J*
Deltaic	RI	C-OCA-3	11/29/95	18–24	18.6 *J*
Deltaic	RI	C-OCA-4	11/29/95	18–24	14.4 *J*
Deltaic	RI	C-OCA-5	11/29/95	18–24	22
Deltaic	RI	C-OCA-6	11/29/95	18–24	22.8
Deltaic	RI	C-OCA-7	11/29/95	18–24	56.1
Deltaic	RI	C-OCA-8	11/29/95	18–24	28.2
Deltaic	RI	C-OCA-9	11/29/95	18–24	127 *J*
Deltaic	Interim Action	IA-05	10/01/02	18–24	13,300
Deltaic	Interim Action	IA-15	10/02/02	18–24	2,460
Deltaic	Historical	M-1	09/26/90	18–24	397
Deltaic	Historical	M-2	09/26/90	18–24	12.8
Deltaic	Historical	M-3	09/26/90	18–24	32.2
Deltaic	Historical	M-4	09/26/90	18–24	23.1
Deltaic	Historical	M-5	09/26/90	18–24	119
Deltaic	Historical	T-5-B	09/26/90	18–24	46
Deltaic	Historical	T-6-B	10/01/90	18–24	781
Deltaic	Supplemental	T-OCA-17-OB1L	10/14/03	18–24	210 *J*
Deltaic	Supplemental	T-OCA-18-OB1L	10/14/03	18–24	5,370
Deltaic	Supplemental	T-OCA-19-OB1R	10/15/03	18–24	24

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Supplemental	T-OCA-19-OB2R	10/15/03	18–24	14.3
Deltaic	Supplemental	T-OCA-21-OB1R	10/15/03	18–24	23
Deltaic	Supplemental	T-OCA-22-OB1R	10/14/03	18–24	29.6
Deltaic	Supplemental	T-OCA-23-OB1R	10/14/03	18–24	46.5
Deltaic	Supplemental	T-OCA-24-OB1R	10/14/03	18–24	14
Deltaic	Supplemental	T-OCA-26-OB1R	10/13/03	18–24	24.9 *J*
Deltaic	Supplemental	T-OCA-27-OB1R	10/09/03	18–24	30.8
Deltaic	Supplemental	T-OCA-30-C2R	09/23/03	18–24	1,570
Deltaic	Supplemental	T-OCA-48-B	10/09/03	18–24	816
Deltaic	Supplemental	T-OCA-49-C1L	10/09/03	18–24	14.9
Deltaic	Supplemental	T-OCA-49-C1R	10/09/03	18–24	16.9
Deltaic	Supplemental	T-OCA-49-C2L	10/09/03	18–24	49.6
Deltaic	Supplemental	T-OCA-49-C2R	10/09/03	18–24	69.9
Deltaic	Supplemental	T-OCA-50-OB1L	10/15/03	18–24	40.9
Deltaic	Supplemental	T-OCA-51-B	10/15/03	18–24	10.3
Deltaic	Supplemental	T-OCA-51-C2L	10/15/03	18–24	20.2
Deltaic	Supplemental	T-OCA-51-C2R	10/15/03	18–24	20.2
Deltaic	Supplemental	T-OCA-51-OB1L	10/15/03	18–24	36.9
Deltaic	RI	C-OCA-1	11/29/95	24–30	16.5 *J*
Deltaic	RI	C-OCA-10	11/29/95	24–30	22.1 *J*
Deltaic	RI	C-OCA-11	11/30/95	24–30	20.6 *J*
Deltaic	Supplemental	C-OCA-13	10/14/03	24–30	37.8 *J*
Deltaic	Supplemental	C-OCA-14	10/14/03	24–30	9.1 *J*
Deltaic	Supplemental	C-OCA-15	10/14/03	24–30	24.2 *J*
Deltaic	Supplemental	C-OCA-16	10/14/03	24–30	102 *J*
Deltaic	Supplemental	C-OCA-18	10/14/03	24–30	21.1 *J*
Deltaic	Supplemental	C-OCA-19	10/14/03	24–30	37.3 *J*
Deltaic	RI	C-OCA-2	11/29/95	24–30	5.6 *J*
Deltaic	Supplemental	C-OCA-20	10/14/03	24–30	49.1
Deltaic	Supplemental	C-OCA-21	10/14/03	24–30	24.6
Deltaic	RI	C-OCA-5	11/29/95	24–30	22.6
Deltaic	RI	C-OCA-6	11/29/95	24–30	14.4
Deltaic	RI	C-OCA-8	11/29/95	24–30	21.7
Deltaic	RI	C-OCA-9	11/29/95	24–30	14.4 *J*
Deltaic	Interim Action	IA-05	10/23/02	24–30	158
Deltaic	Interim Action	IA-15	10/02/02	24–30	85.4
Deltaic	Historical	M-1	09/26/90	24–30	10.9
Deltaic	Historical	M-2	09/26/90	24–30	129
Deltaic	Historical	M-3	09/26/90	24–30	25.1
Deltaic	Historical	M-4	09/26/90	24–30	79.7
Deltaic	Historical	M-5	09/26/90	24–30	21.5
Deltaic	Historical	T-6-B	10/01/90	24–30	910
Deltaic	Supplemental	T-OCA-17-OB1L	10/14/03	24–30	36 *J*
Deltaic	Supplemental	T-OCA-18-OB1L	10/14/03	24–30	30.5
Deltaic	Supplemental	T-OCA-26-OB1R	10/13/03	24–30	21 *J*
Deltaic	Supplemental	T-OCA-30-C2R	09/23/03	24–30	783
Deltaic	Supplemental	T-OCA-48-B	10/09/03	24–30	23.3
Deltaic	Supplemental	T-OCA-48-C2L	10/09/03	24–30	20.6
Deltaic	Supplemental	T-OCA-49-C1L	10/09/03	24–30	14.4
Deltaic	Supplemental	T-OCA-49-C1R	10/09/03	24–30	16.7
Deltaic	Supplemental	T-OCA-49-C2L	10/09/03	24–30	20.5
Deltaic	Supplemental	T-OCA-49-C2R	10/09/03	24–30	17.9
Deltaic	Supplemental	C-OCA-16	10/14/03	30–36	22.4
Deltaic	Interim Action	IA-05	10/23/02	30–36	17.6
Deltaic	Interim Action	IA-15	10/02/02	30–36	8.8
Deltaic	Historical	T-6-B	10/01/90	30–36	120
Deltaic	Supplemental	T-OCA-30-C2R	12/10/03	30–36	27.9 *J*

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Deltaic	Interim Action	IA-05	10/23/02	36–42	14.5
Deltaic	Interim Action	IA-05	10/23/02	42–48	16.1
Deltaic	Interim Action	IA-05	10/23/02	48–54	94.6
Deltaic	Interim Action	IA-05	10/23/02	54–60	19.4
Deltaic	Interim Action	IA-05	10/23/02	60–66	12.2
Deltaic	Interim Action	IA-05	10/23/02	66–72	7.8
Deltaic	Interim Action	IA-05	10/23/02	72–78	123
Deltaic	Interim Action	IA-05	10/23/02	78–84	15.6
Deltaic	Interim Action	IA-05	10/23/02	84–90	5.1
Non-Deltaic	RI	C-OCA-12	11/30/95	0–6	633 *J*
Non-Deltaic	Supplemental	C-OCA-23	12/10/03	0–6	406 *J*
Non-Deltaic	Historical	FD-1	10/01/90	0–6	98.9
Non-Deltaic	Historical	FD-2	10/01/90	0–6	58.9
Non-Deltaic	Historical	LS-1	10/01/90	0–6	144
Non-Deltaic	Historical	OS-4	10/04/88	0–6	170
Non-Deltaic	Historical	OS-5	10/04/88	0–6	375
Non-Deltaic	Historical	RS-1A	10/04/88	0–6	51.9
Non-Deltaic	Historical	T-1-A	09/25/90	0–6	53.3
Non-Deltaic	Historical	T-1-C1L	09/25/90	0–6	20.1
Non-Deltaic	Historical	T-1-C1R	09/25/90	0–6	65.2
Non-Deltaic	Historical	T-1-C2L	09/25/90	0–6	29.1
Non-Deltaic	Historical	T-1-C2R	09/25/90	0–6	12.5
Non-Deltaic	Historical	T-2-A	09/25/90	0–6	32.7
Non-Deltaic	Historical	T-2-C1L	09/25/90	0–6	12.4
Non-Deltaic	Historical	T-2-C1R	09/25/90	0–6	35.1
Non-Deltaic	Historical	T-3-A	09/26/90	0–6	60.5
Non-Deltaic	Historical	T-3-C1L	09/26/90	0–6	26.2
Non-Deltaic	Historical	T-3-C1R	09/26/90	0–6	50.2
Non-Deltaic	Historical	T-4-A	09/26/90	0–6	69.9
Non-Deltaic	Historical	T-4-C1L	09/26/90	0–6	178
Non-Deltaic	Historical	T-4-C1R	09/26/90	0–6	14.9
Non-Deltaic	Historical	T-4-C2L	09/26/90	0–6	106
Non-Deltaic	Supplemental	T-OCA-19-A	10/15/03	0–6	61.3
Non-Deltaic	Supplemental	T-OCA-19-C1L	10/15/03	0–6	12.7
Non-Deltaic	Supplemental	T-OCA-19-C1R	10/15/03	0–6	21.8
Non-Deltaic	Supplemental	T-OCA-19-C2L	10/15/03	0–6	50.3
Non-Deltaic	Supplemental	T-OCA-19-C2R	10/15/03	0–6	48.1
Non-Deltaic	Supplemental	T-OCA-19-OB1L	10/15/03	0–6	60
Non-Deltaic	RI	T-OCA-1-A	11/22/95	0–6	41.3
Non-Deltaic	RI	T-OCA-1-C1L	11/22/95	0–6	204
Non-Deltaic	RI	T-OCA-1-C1R	11/22/95	0–6	83.1
Non-Deltaic	RI	T-OCA-1-C2L	11/22/95	0–6	27.2
Non-Deltaic	RI	T-OCA-1-C2R	11/22/95	0–6	45.5
Non-Deltaic	Supplemental	T-OCA-20-A	10/15/03	0–6	209
Non-Deltaic	Supplemental	T-OCA-20-C1L	10/15/03	0–6	197
Non-Deltaic	Supplemental	T-OCA-20-C1R	10/15/03	0–6	12.8
Non-Deltaic	Supplemental	T-OCA-20-C2L	10/15/03	0–6	54.9
Non-Deltaic	Supplemental	T-OCA-20-C2R	10/15/03	0–6	23.8
Non-Deltaic	Supplemental	T-OCA-21-A	10/15/03	0–6	90.9
Non-Deltaic	Supplemental	T-OCA-21-C1L	10/15/03	0–6	16.1
Non-Deltaic	Supplemental	T-OCA-21-C1R	10/15/03	0–6	37.6
Non-Deltaic	Supplemental	T-OCA-21-C2L	10/15/03	0–6	111
Non-Deltaic	Supplemental	T-OCA-21-C2R	10/15/03	0–6	36
Non-Deltaic	Supplemental	T-OCA-21-OB1L	10/15/03	0–6	43
Non-Deltaic	Supplemental	T-OCA-22-A	10/14/03	0–6	61.6 *J*
Non-Deltaic	Supplemental	T-OCA-22-C1L	10/14/03	0–6	52 *J*

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-22-C1R	10/14/03	0–6	14.3 *J*
Non-Deltaic	Supplemental	T-OCA-22-C2L	10/14/03	0–6	36.2 *J*
Non-Deltaic	Supplemental	T-OCA-22-C2R	10/14/03	0–6	29 *J*
Non-Deltaic	Supplemental	T-OCA-22-HWL	10/14/03	0–6	25.7 *J*
Non-Deltaic	Supplemental	T-OCA-23-A	10/14/03	0–6	60.5
Non-Deltaic	Supplemental	T-OCA-23-C1L	10/14/03	0–6	70.25
Non-Deltaic	Supplemental	T-OCA-23-C1R	10/14/03	0–6	16.7
Non-Deltaic	Supplemental	T-OCA-23-C2L	10/14/03	0–6	40
Non-Deltaic	Supplemental	T-OCA-23-C2R	10/14/03	0–6	34.4
Non-Deltaic	Supplemental	T-OCA-23-OB1L	10/13/03	0–6	33.8
Non-Deltaic	Supplemental	T-OCA-24-A	10/14/03	0–6	73.8 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1L	10/14/03	0–6	27.2 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1R	10/14/03	0–6	21.4 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2L	10/14/03	0–6	77.2 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2R	10/14/03	0–6	36.9 *J*
Non-Deltaic	Supplemental	T-OCA-24-OB1L	10/13/03	0–6	47.1 *J*
Non-Deltaic	Supplemental	T-OCA-25-A	10/13/03	0–6	71.4 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1L	10/13/03	0–6	16.6 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1R	10/13/03	0–6	35.3 *J*
Non-Deltaic	Supplemental	T-OCA-25-C2L	10/13/03	0–6	59.7 *J*
Non-Deltaic	Supplemental	T-OCA-25-C2R	10/13/03	0–6	51.4 *J*
Non-Deltaic	Supplemental	T-OCA-25-OB1L	10/13/03	0–6	47 *J*
Non-Deltaic	Supplemental	T-OCA-27-A	10/13/03	0–6	60.1
Non-Deltaic	Supplemental	T-OCA-27-C1L	10/13/03	0–6	16.2
Non-Deltaic	Supplemental	T-OCA-27-C1R	10/13/03	0–6	101
Non-Deltaic	Supplemental	T-OCA-27-C2L	10/13/03	0–6	62.2
Non-Deltaic	Supplemental	T-OCA-27-C2R	10/13/03	0–6	53.3
Non-Deltaic	Supplemental	T-OCA-27-OB1L	10/13/03	0–6	47.9
Non-Deltaic	Supplemental	T-OCA-28-A	10/09/03	0–6	59.4
Non-Deltaic	Supplemental	T-OCA-28-C1L	10/09/03	0–6	21.7
Non-Deltaic	Supplemental	T-OCA-28-C1R	10/09/03	0–6	18.2
Non-Deltaic	Supplemental	T-OCA-28-C2L	10/09/03	0–6	32.7
Non-Deltaic	Supplemental	T-OCA-28-C2R	10/09/03	0–6	28.05
Non-Deltaic	Supplemental	T-OCA-28-OB1L	10/09/03	0–6	43.1
Non-Deltaic	Supplemental	T-OCA-29-A	10/09/03	0–6	121.05
Non-Deltaic	Supplemental	T-OCA-29-C1L	10/09/03	0–6	21.4
Non-Deltaic	Supplemental	T-OCA-29-C1R	10/09/03	0–6	305
Non-Deltaic	Supplemental	T-OCA-29-C2L	10/09/03	0–6	295
Non-Deltaic	RI	T-OCA-2-A	11/22/95	0–6	83.6
Non-Deltaic	RI	T-OCA-2-C1L	11/28/95	0–6	80.6
Non-Deltaic	RI	T-OCA-2-C1R	11/28/95	0–6	254
Non-Deltaic	RI	T-OCA-2-C2L	11/28/95	0–6	53.1
Non-Deltaic	RI	T-OCA-2-C2R	11/28/95	0–6	36.3
Non-Deltaic	Supplemental	T-OCA-30-A	09/23/03	0–6	438
Non-Deltaic	Supplemental	T-OCA-30-C1L	09/23/03	0–6	29
Non-Deltaic	Supplemental	T-OCA-30-C1R	09/23/03	0–6	16.1
Non-Deltaic	Supplemental	T-OCA-30-HWL	09/23/03	0–6	188
Non-Deltaic	Supplemental	T-OCA-31-A	09/23/03	0–6	36.9
Non-Deltaic	Supplemental	T-OCA-31-C1L	09/23/03	0–6	455
Non-Deltaic	Supplemental	T-OCA-31-C1R	09/23/03	0–6	319
Non-Deltaic	Supplemental	T-OCA-31-C2R	09/23/03	0–6	368
Non-Deltaic	Supplemental	T-OCA-31-HWL	09/23/03	0–6	78.9
Non-Deltaic	Supplemental	T-OCA-31-OB1R	09/23/03	0–6	43
Non-Deltaic	Supplemental	T-OCA-31-OB2R	09/23/03	0–6	195
Non-Deltaic	Supplemental	T-OCA-31-OB3R	09/23/03	0–6	189
Non-Deltaic	Supplemental	T-OCA-32-A	09/23/03	0–6	10.6
Non-Deltaic	Supplemental	T-OCA-32-C1L	09/23/03	0–6	39.4

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-32-C1R	09/23/03	0–6	586
Non-Deltaic	Supplemental	T-OCA-32-C2R	09/23/03	0–6	23.5
Non-Deltaic	Supplemental	T-OCA-32-HWL	09/23/03	0–6	175
Non-Deltaic	Supplemental	T-OCA-32-OB1R	09/23/03	0–6	340
Non-Deltaic	Supplemental	T-OCA-32-OB2R	09/23/03	0–6	169
Non-Deltaic	Supplemental	T-OCA-33-A	10/08/03	0–6	91.8
Non-Deltaic	Supplemental	T-OCA-33-C1L	10/08/03	0–6	83.1
Non-Deltaic	Supplemental	T-OCA-33-C1R	10/08/03	0–6	16.65
Non-Deltaic	Supplemental	T-OCA-33-C2R	10/08/03	0–6	65.6
Non-Deltaic	Supplemental	T-OCA-33-HWL	10/08/03	0–6	228
Non-Deltaic	Supplemental	T-OCA-33-OB1R	10/08/03	0–6	624
Non-Deltaic	Supplemental	T-OCA-33-OB2R	10/08/03	0–6	254
Non-Deltaic	Supplemental	T-OCA-34-A	10/08/03	0–6	99
Non-Deltaic	Supplemental	T-OCA-34-C1L	10/08/03	0–6	614
Non-Deltaic	Supplemental	T-OCA-34-C1R	10/08/03	0–6	12.2
Non-Deltaic	Supplemental	T-OCA-34-C2R	10/08/03	0–6	50.1
Non-Deltaic	Supplemental	T-OCA-34-HWL	10/08/03	0–6	127
Non-Deltaic	Supplemental	T-OCA-34-OB1R	10/08/03	0–6	728
Non-Deltaic	Supplemental	T-OCA-34-OB2R	10/08/03	0–6	244
Non-Deltaic	Supplemental	T-OCA-35-A	10/08/03	0–6	74.5
Non-Deltaic	Supplemental	T-OCA-35-C1L	10/08/03	0–6	77.85
Non-Deltaic	Supplemental	T-OCA-35-C1R	10/08/03	0–6	17
Non-Deltaic	Supplemental	T-OCA-35-C2R	10/08/03	0–6	166
Non-Deltaic	Supplemental	T-OCA-35-HWL	10/08/03	0–6	50.5
Non-Deltaic	Supplemental	T-OCA-35-OB1R	10/08/03	0–6	244
Non-Deltaic	Supplemental	T-OCA-35-OB2R	10/08/03	0–6	117
Non-Deltaic	Supplemental	T-OCA-35-OB3R	10/08/03	0–6	8.4
Non-Deltaic	Supplemental	T-OCA-36-A	10/08/03	0–6	141
Non-Deltaic	Supplemental	T-OCA-36-C1L	10/08/03	0–6	16.5
Non-Deltaic	Supplemental	T-OCA-36-C1R	10/08/03	0–6	62.5
Non-Deltaic	Supplemental	T-OCA-36-C2R	10/08/03	0–6	131
Non-Deltaic	Supplemental	T-OCA-36-HWL	10/08/03	0–6	21
Non-Deltaic	Supplemental	T-OCA-36-OB1R	10/08/03	0–6	33.6
Non-Deltaic	Supplemental	T-OCA-37-A	10/08/03	0–6	219
Non-Deltaic	Supplemental	T-OCA-37-C1L	10/08/03	0–6	552
Non-Deltaic	Supplemental	T-OCA-37-C1R	10/08/03	0–6	36.8
Non-Deltaic	Supplemental	T-OCA-37-C2L	10/08/03	0–6	39.3
Non-Deltaic	Supplemental	T-OCA-37-C2R	10/08/03	0–6	37.1
Non-Deltaic	Supplemental	T-OCA-37-HWL	10/08/03	0–6	41.5
Non-Deltaic	Supplemental	T-OCA-37-OB1R	10/08/03	0–6	52.9
Non-Deltaic	Supplemental	T-OCA-38-A	10/07/03	0–6	180
Non-Deltaic	Supplemental	T-OCA-38-C1L	10/07/03	0–6	132
Non-Deltaic	Supplemental	T-OCA-38-C1R	10/07/03	0–6	13.6
Non-Deltaic	Supplemental	T-OCA-38-C2R	10/07/03	0–6	161
Non-Deltaic	Supplemental	T-OCA-38-HWL	10/07/03	0–6	38.4
Non-Deltaic	Supplemental	T-OCA-38-OB1R	10/07/03	0–6	158
Non-Deltaic	Supplemental	T-OCA-39-A	10/07/03	0–6	127
Non-Deltaic	Supplemental	T-OCA-39-C1L	10/07/03	0–6	481
Non-Deltaic	Supplemental	T-OCA-39-C1R	10/07/03	0–6	78.1
Non-Deltaic	Supplemental	T-OCA-39-C2R	10/07/03	0–6	195
Non-Deltaic	Supplemental	T-OCA-39-HWL	10/07/03	0–6	34
Non-Deltaic	Supplemental	T-OCA-39-OB1R	10/07/03	0–6	88.5
Non-Deltaic	Supplemental	T-OCA-39-OB2R	10/07/03	0–6	128
Non-Deltaic	Supplemental	T-OCA-39-OB3R	10/07/03	0–6	104.5
Non-Deltaic	RI	T-OCA-3-A	11/28/95	0–6	120
Non-Deltaic	RI	T-OCA-3-C1L	11/28/95	0–6	167
Non-Deltaic	RI	T-OCA-3-C1R	11/28/95	0–6	41.7

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	RI	T-OCA-3-C2L	11/28/95	0–6	46.1
Non-Deltaic	RI	T-OCA-3-C2R	11/28/95	0–6	286
Non-Deltaic	Supplemental	T-OCA-40-A	10/07/03	0–6	139
Non-Deltaic	Supplemental	T-OCA-40-C1L	10/07/03	0–6	38.8
Non-Deltaic	Supplemental	T-OCA-40-C1R	10/07/03	0–6	131
Non-Deltaic	Supplemental	T-OCA-40-C2R	10/07/03	0–6	42.6
Non-Deltaic	Supplemental	T-OCA-40-HWL	10/07/03	0–6	48.3
Non-Deltaic	Supplemental	T-OCA-40-OB1R	10/07/03	0–6	223
Non-Deltaic	Supplemental	T-OCA-41-A	10/07/03	0–6	236
Non-Deltaic	Supplemental	T-OCA-41-C1L	10/07/03	0–6	28.7
Non-Deltaic	Supplemental	T-OCA-41-C1R	10/07/03	0–6	97
Non-Deltaic	Supplemental	T-OCA-41-C2R	10/07/03	0–6	155
Non-Deltaic	Supplemental	T-OCA-41-HWL	10/07/03	0–6	39.6
Non-Deltaic	Supplemental	T-OCA-41-OB1R	10/07/03	0–6	341
Non-Deltaic	Supplemental	T-OCA-41-OB2R	10/07/03	0–6	102
Non-Deltaic	Supplemental	T-OCA-41-OB3R	10/07/03	0–6	97.5
Non-Deltaic	Supplemental	T-OCA-42-A	10/07/03	0–6	217.5
Non-Deltaic	Supplemental	T-OCA-42-C1L	10/07/03	0–6	13.4
Non-Deltaic	Supplemental	T-OCA-42-C1R	10/07/03	0–6	71.8
Non-Deltaic	Supplemental	T-OCA-42-C2R	10/07/03	0–6	104
Non-Deltaic	Supplemental	T-OCA-42-HWL	10/07/03	0–6	23.3
Non-Deltaic	Supplemental	T-OCA-42-OB1R	10/07/03	0–6	181
Non-Deltaic	Supplemental	T-OCA-42-OB2R	10/07/03	0–6	81.7
Non-Deltaic	Supplemental	T-OCA-43-A	10/06/03	0–6	252
Non-Deltaic	Supplemental	T-OCA-43-C1L	10/06/03	0–6	17.9
Non-Deltaic	Supplemental	T-OCA-43-C1R	10/06/03	0–6	177
Non-Deltaic	Supplemental	T-OCA-43-C2R	10/06/03	0–6	162
Non-Deltaic	Supplemental	T-OCA-43-HWL	10/06/03	0–6	22
Non-Deltaic	Supplemental	T-OCA-43-OB1R	10/06/03	0–6	198
Non-Deltaic	Supplemental	T-OCA-43-OB2R	10/06/03	0–6	94.35
Non-Deltaic	Supplemental	T-OCA-43-OB3R	10/06/03	0–6	106
Non-Deltaic	Supplemental	T-OCA-44-A	10/06/03	0–6	303.5
Non-Deltaic	Supplemental	T-OCA-44-C1L	10/06/03	0–6	101
Non-Deltaic	Supplemental	T-OCA-44-C1R	10/06/03	0–6	63.9
Non-Deltaic	Supplemental	T-OCA-44-C2R	09/22/03	0–6	515
Non-Deltaic	Supplemental	T-OCA-44-HWL	09/22/03	0–6	81.6
Non-Deltaic	Supplemental	T-OCA-44-OB1R	09/22/03	0–6	96.9
Non-Deltaic	Supplemental	T-OCA-44-OB2R	09/22/03	0–6	104
Non-Deltaic	Supplemental	T-OCA-44-OB3R	09/22/03	0–6	77.9
Non-Deltaic	Supplemental	T-OCA-45-A	09/22/03	0–6	168.5
Non-Deltaic	Supplemental	T-OCA-45-C1L	09/22/03	0–6	30.7
Non-Deltaic	Supplemental	T-OCA-45-C1R	09/22/03	0–6	622
Non-Deltaic	Supplemental	T-OCA-45-C2R	09/22/03	0–6	136
Non-Deltaic	Supplemental	T-OCA-45-HWL	09/22/03	0–6	86.4
Non-Deltaic	Supplemental	T-OCA-45-OB1R	09/22/03	0–6	190
Non-Deltaic	Supplemental	T-OCA-45-OB2R	09/22/03	0–6	112
Non-Deltaic	Supplemental	T-OCA-46-A	09/21/03	0–6	454.5
Non-Deltaic	Supplemental	T-OCA-46-C1L	09/21/03	0–6	55.6
Non-Deltaic	Supplemental	T-OCA-46-C1R	09/21/03	0–6	56.7 *J*
Non-Deltaic	Supplemental	T-OCA-46-C2R	09/21/03	0–6	530 *J*
Non-Deltaic	Supplemental	T-OCA-46-HWL	09/21/03	0–6	232
Non-Deltaic	Supplemental	T-OCA-46-OB1R	09/21/03	0–6	245 *J*
Non-Deltaic	Supplemental	T-OCA-46-OB2R	09/21/03	0–6	108 *J*
Non-Deltaic	Supplemental	T-OCA-46-OB3R	09/21/03	0–6	104 *J*
Non-Deltaic	Supplemental	T-OCA-47-A	09/20/03	0–6	673.5 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1L	09/20/03	0–6	49.9 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1R	09/20/03	0–6	58 *J*

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-47-C2L	09/20/03	0–6	65.6 *J*
Non-Deltaic	Supplemental	T-OCA-47-C2R	09/20/03	0–6	258
Non-Deltaic	Supplemental	T-OCA-47-OB1R	09/20/03	0–6	144
Non-Deltaic	Supplemental	T-OCA-47-OB2R	09/20/03	0–6	88.4
Non-Deltaic	Supplemental	T-OCA-47-OB3R	09/20/03	0–6	70.2
Non-Deltaic	RI	T-OCA-4-A	11/28/95	0–6	188
Non-Deltaic	RI	T-OCA-4-C1L	11/28/95	0–6	66.3
Non-Deltaic	RI	T-OCA-4-C1R	11/28/95	0–6	57.4
Non-Deltaic	RI	T-OCA-4-C2L	11/28/95	0–6	45.6
Non-Deltaic	RI	T-OCA-4-C2R	11/28/95	0–6	42.1
Non-Deltaic	Supplemental	T-OCA-52-OB1R	12/10/03	0–6	113 *J*
Non-Deltaic	Supplemental	T-OCA-52-OB2R	12/10/03	0–6	578 *J*
Non-Deltaic	Supplemental	T-OCA-52-OB3R	12/10/03	0–6	28.1
Non-Deltaic	Supplemental	T-OCA-53-OB1R	12/10/03	0–6	75.8
Non-Deltaic	Supplemental	T-OCA-53-OB2R	12/10/03	0–6	33.3
Non-Deltaic	Supplemental	T-OCA-53-OB3R	12/10/03	0–6	24.4
Non-Deltaic	RI	T-OCA-5-A	07/31/96	0–6	675
Non-Deltaic	RI	T-OCA-5-C1L	07/31/96	0–6	56.4
Non-Deltaic	RI	T-OCA-5-C1R	07/31/96	0–6	313
Non-Deltaic	RI	T-OCA-5-C2L	07/31/96	0–6	29.3
Non-Deltaic	RI	T-OCA-5-C2R	07/31/96	0–6	23
Non-Deltaic	RI	T-OCA-6-A	07/31/96	0–6	267
Non-Deltaic	RI	T-OCA-6-C1L	07/31/96	0–6	48
Non-Deltaic	RI	T-OCA-6-C1R	07/31/96	0–6	82.4
Non-Deltaic	RI	T-OCA-6-C2L	07/31/96	0–6	70
Non-Deltaic	RI	T-OCA-6-C2R	07/31/96	0–6	101
Non-Deltaic	RI	C-OCA-12	11/30/95	6–12	241.5 *J*
Non-Deltaic	Supplemental	C-OCA-23	12/10/03	6–12	383 *J*
Non-Deltaic	Historical	T-1-B	09/25/90	6–12	40.8
Non-Deltaic	Historical	T-2-B	09/25/90	6–12	60.8
Non-Deltaic	Historical	T-3-B	09/26/90	6–12	35.1
Non-Deltaic	Historical	T-4-B	09/26/90	6–12	12.4
Non-Deltaic	Historical	T-4-C1L	09/26/90	6–12	18
Non-Deltaic	Supplemental	T-OCA-19-B	10/15/03	6–12	50.5
Non-Deltaic	Supplemental	T-OCA-19-C1L	10/15/03	6–12	11.7
Non-Deltaic	Supplemental	T-OCA-19-C1R	10/15/03	6–12	12.2
Non-Deltaic	Supplemental	T-OCA-19-C2L	10/15/03	6–12	32.1
Non-Deltaic	Supplemental	T-OCA-19-C2R	10/15/03	6–12	63.1
Non-Deltaic	RI	T-OCA-1-B	11/22/95	6–12	16.9
Non-Deltaic	RI	T-OCA-1-C1L	11/22/95	6–12	45.1
Non-Deltaic	RI	T-OCA-1-C1R	11/22/95	6–12	10.3
Non-Deltaic	RI	T-OCA-1-C2L	11/22/95	6–12	23.9
Non-Deltaic	RI	T-OCA-1-C2R	11/22/95	6–12	63.4
Non-Deltaic	Supplemental	T-OCA-20-B	10/15/03	6–12	226
Non-Deltaic	Supplemental	T-OCA-20-C1L	10/15/03	6–12	28.4
Non-Deltaic	Supplemental	T-OCA-20-C1R	10/15/03	6–12	12.4
Non-Deltaic	Supplemental	T-OCA-20-C2L	10/15/03	6–12	32.9
Non-Deltaic	Supplemental	T-OCA-20-C2R	10/15/03	6–12	35.6
Non-Deltaic	Supplemental	T-OCA-21-B	10/15/03	6–12	241
Non-Deltaic	Supplemental	T-OCA-21-C1L	10/15/03	6–12	14
Non-Deltaic	Supplemental	T-OCA-21-C1R	10/15/03	6–12	17.2
Non-Deltaic	Supplemental	T-OCA-21-C2L	10/15/03	6–12	29.5
Non-Deltaic	Supplemental	T-OCA-21-C2R	10/15/03	6–12	30.5
Non-Deltaic	Supplemental	T-OCA-22-B	10/14/03	6–12	32.1 *J*
Non-Deltaic	Supplemental	T-OCA-22-C1L	10/14/03	6–12	13.8 *J*
Non-Deltaic	Supplemental	T-OCA-22-C1R	10/14/03	6–12	14.2 *J*
Non-Deltaic	Supplemental	T-OCA-22-C2R	10/14/03	6–12	27.5 *J*

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-22-HWL	10/14/03	6–12	22.3 *J*
Non-Deltaic	Supplemental	T-OCA-23-B	10/14/03	6–12	175
Non-Deltaic	Supplemental	T-OCA-23-C1L	10/14/03	6–12	26.9
Non-Deltaic	Supplemental	T-OCA-23-C1R	10/14/03	6–12	12.8
Non-Deltaic	Supplemental	T-OCA-23-C2L	10/14/03	6–12	29.6
Non-Deltaic	Supplemental	T-OCA-23-C2R	10/14/03	6–12	28.8 *J*
Non-Deltaic	Supplemental	T-OCA-24-B	10/14/03	6–12	169 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1L	10/14/03	6–12	14.6 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1R	10/14/03	6–12	18.6 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2L	10/14/03	6–12	51.1 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2R	10/14/03	6–12	64.8
Non-Deltaic	Supplemental	T-OCA-25-B	10/13/03	6–12	67.4 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1L	10/13/03	6–12	23.25 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1R	10/13/03	6–12	14.4 *J*
Non-Deltaic	Supplemental	T-OCA-25-C2L	10/13/03	6–12	32.4 *J*
Non-Deltaic	Supplemental	T-OCA-25-C2R	10/13/03	6–12	25.1 *J*
Non-Deltaic	Supplemental	T-OCA-27-B	10/13/03	6–12	82.1
Non-Deltaic	Supplemental	T-OCA-27-C1L	10/13/03	6–12	14.7
Non-Deltaic	Supplemental	T-OCA-27-C1R	10/13/03	6–12	10.9
Non-Deltaic	Supplemental	T-OCA-27-C2L	10/13/03	6–12	108
Non-Deltaic	Supplemental	T-OCA-27-C2R	10/13/03	6–12	53.5 *J*
Non-Deltaic	Supplemental	T-OCA-28-B	10/09/03	6–12	58.9
Non-Deltaic	Supplemental	T-OCA-28-C1L	10/09/03	6–12	15.4
Non-Deltaic	Supplemental	T-OCA-28-C1R	10/09/03	6–12	14.1
Non-Deltaic	Supplemental	T-OCA-28-C2L	10/09/03	6–12	19.7
Non-Deltaic	Supplemental	T-OCA-28-C2R	10/09/03	6–12	24.8
Non-Deltaic	Supplemental	T-OCA-29-B	10/09/03	6–12	121
Non-Deltaic	Supplemental	T-OCA-29-C1L	10/09/03	6–12	16.5
Non-Deltaic	Supplemental	T-OCA-29-C1R	10/09/03	6–12	260
Non-Deltaic	Supplemental	T-OCA-29-C2L	10/09/03	6–12	75.1
Non-Deltaic	RI	T-OCA-2-B	11/22/95	6–12	16.3
Non-Deltaic	RI	T-OCA-2-C1L	11/28/95	6–12	152
Non-Deltaic	RI	T-OCA-2-C1R	11/28/95	6–12	19.9
Non-Deltaic	RI	T-OCA-2-C2L	11/28/95	6–12	29.4
Non-Deltaic	RI	T-OCA-2-C2R	11/28/95	6–12	22.4
Non-Deltaic	Supplemental	T-OCA-30-B	09/23/03	6–12	20.3
Non-Deltaic	Supplemental	T-OCA-30-C1L	09/23/03	6–12	27.8
Non-Deltaic	Supplemental	T-OCA-30-C1R	09/23/03	6–12	19.4
Non-Deltaic	Supplemental	T-OCA-30-HWL	09/23/03	6–12	23.2
Non-Deltaic	Supplemental	T-OCA-31-B	09/23/03	6–12	114
Non-Deltaic	Supplemental	T-OCA-31-C1L	09/23/03	6–12	78.1
Non-Deltaic	Supplemental	T-OCA-31-C1R	09/23/03	6–12	21.9
Non-Deltaic	Supplemental	T-OCA-31-C2R	09/23/03	6–12	278
Non-Deltaic	Supplemental	T-OCA-31-HWL	09/23/03	6–12	25.6
Non-Deltaic	Supplemental	T-OCA-31-OB1R	09/23/03	6–12	223
Non-Deltaic	Supplemental	T-OCA-31-OB2R	09/23/03	6–12	32.4
Non-Deltaic	Supplemental	T-OCA-31-OB3R	09/23/03	6–12	23
Non-Deltaic	Supplemental	T-OCA-32-B	09/23/03	6–12	8.9
Non-Deltaic	Supplemental	T-OCA-32-C1L	09/23/03	6–12	9.8
Non-Deltaic	Supplemental	T-OCA-32-C1R	09/23/03	6–12	607
Non-Deltaic	Supplemental	T-OCA-32-C2R	09/23/03	6–12	21.2
Non-Deltaic	Supplemental	T-OCA-32-HWL	09/23/03	6–12	18.6
Non-Deltaic	Supplemental	T-OCA-32-OB1R	09/23/03	6–12	2,220
Non-Deltaic	Supplemental	T-OCA-32-OB2R	09/23/03	6–12	42.7
Non-Deltaic	Supplemental	T-OCA-33-B	10/08/03	6–12	161
Non-Deltaic	Supplemental	T-OCA-33-C1L	10/08/03	6–12	15.2
Non-Deltaic	Supplemental	T-OCA-33-C1R	10/08/03	6–12	13.5

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-33-C2R	10/08/03	6–12	27.9
Non-Deltaic	Supplemental	T-OCA-33-HWL	10/08/03	6–12	326
Non-Deltaic	Supplemental	T-OCA-33-OB1R	10/08/03	6–12	1,820
Non-Deltaic	Supplemental	T-OCA-33-OB2R	10/08/03	6–12	105
Non-Deltaic	Supplemental	T-OCA-34-B	10/08/03	6–12	204
Non-Deltaic	Supplemental	T-OCA-34-C1L	10/08/03	6–12	358
Non-Deltaic	Supplemental	T-OCA-34-C1R	10/08/03	6–12	12.4
Non-Deltaic	Supplemental	T-OCA-34-C2R	10/08/03	6–12	26.6
Non-Deltaic	Supplemental	T-OCA-34-HWL	10/08/03	6–12	237
Non-Deltaic	Supplemental	T-OCA-34-OB1R	10/08/03	6–12	1,850
Non-Deltaic	Supplemental	T-OCA-34-OB2R	10/08/03	6–12	86.6
Non-Deltaic	Supplemental	T-OCA-35-B	10/08/03	6–12	262
Non-Deltaic	Supplemental	T-OCA-35-C1L	10/08/03	6–12	11.9
Non-Deltaic	Supplemental	T-OCA-35-C1R	10/08/03	6–12	22.1
Non-Deltaic	Supplemental	T-OCA-35-C2R	10/08/03	6–12	30
Non-Deltaic	Supplemental	T-OCA-35-HWL	10/08/03	6–12	18
Non-Deltaic	Supplemental	T-OCA-35-OB1R	10/08/03	6–12	2,730
Non-Deltaic	Supplemental	T-OCA-35-OB2R	10/08/03	6–12	173
Non-Deltaic	Supplemental	T-OCA-35-OB3R	10/08/03	6–12	49.3
Non-Deltaic	Supplemental	T-OCA-36-B	10/08/03	6–12	30.9
Non-Deltaic	Supplemental	T-OCA-36-C1L	10/08/03	6–12	11.3
Non-Deltaic	Supplemental	T-OCA-36-C1R	10/08/03	6–12	12.1
Non-Deltaic	Supplemental	T-OCA-36-C2R	10/08/03	6–12	71.5
Non-Deltaic	Supplemental	T-OCA-36-HWL	10/08/03	6–12	15.5
Non-Deltaic	Supplemental	T-OCA-36-OB1R	10/08/03	6–12	187
Non-Deltaic	Supplemental	T-OCA-37-B	10/08/03	6–12	25.6
Non-Deltaic	Supplemental	T-OCA-37-C1L	10/08/03	6–12	67.1
Non-Deltaic	Supplemental	T-OCA-37-C1R	10/08/03	6–12	19.7
Non-Deltaic	Supplemental	T-OCA-37-C2R	10/08/03	6–12	63.9
Non-Deltaic	Supplemental	T-OCA-37-HWL	10/08/03	6–12	20.5
Non-Deltaic	Supplemental	T-OCA-37-OB1R	10/08/03	6–12	11.3
Non-Deltaic	Supplemental	T-OCA-38-B	10/07/03	6–12	73.5
Non-Deltaic	Supplemental	T-OCA-38-C1L	10/07/03	6–12	24
Non-Deltaic	Supplemental	T-OCA-38-C1R	10/07/03	6–12	20.1
Non-Deltaic	Supplemental	T-OCA-38-C2R	10/07/03	6–12	76.5
Non-Deltaic	Supplemental	T-OCA-38-HWL	10/07/03	6–12	30.5
Non-Deltaic	Supplemental	T-OCA-38-OB1R	10/07/03	6–12	106
Non-Deltaic	Supplemental	T-OCA-39-B	10/07/03	6–12	200
Non-Deltaic	Supplemental	T-OCA-39-C1L	10/07/03	6–12	346.5
Non-Deltaic	Supplemental	T-OCA-39-C1R	10/07/03	6–12	17.8
Non-Deltaic	Supplemental	T-OCA-39-C2R	10/07/03	6–12	61.7
Non-Deltaic	Supplemental	T-OCA-39-HWL	10/07/03	6–12	23.6
Non-Deltaic	Supplemental	T-OCA-39-OB1R	10/07/03	6–12	89.2
Non-Deltaic	Supplemental	T-OCA-39-OB2R	10/07/03	6–12	99.6
Non-Deltaic	Supplemental	T-OCA-39-OB3R	10/07/03	6–12	51.8
Non-Deltaic	RI	T-OCA-3-B	11/28/95	6–12	281
Non-Deltaic	RI	T-OCA-3-C1L	11/28/95	6–12	30.2
Non-Deltaic	RI	T-OCA-3-C1R	11/28/95	6–12	21.7
Non-Deltaic	RI	T-OCA-3-C2L	11/28/95	6–12	79.4
Non-Deltaic	RI	T-OCA-3-C2R	11/28/95	6–12	42.7
Non-Deltaic	Supplemental	T-OCA-40-B	10/07/03	6–12	143.5
Non-Deltaic	Supplemental	T-OCA-40-C1L	10/07/03	6–12	12.8
Non-Deltaic	Supplemental	T-OCA-40-C1R	10/07/03	6–12	44.2
Non-Deltaic	Supplemental	T-OCA-40-C2R	10/07/03	6–12	23
Non-Deltaic	Supplemental	T-OCA-40-HWL	10/07/03	6–12	25.7
Non-Deltaic	Supplemental	T-OCA-40-OB1R	10/07/03	6–12	380
Non-Deltaic	Supplemental	T-OCA-41-B	10/07/03	6–12	171

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-41-C1L	10/07/03	6–12	23.3
Non-Deltaic	Supplemental	T-OCA-41-C1R	10/07/03	6–12	18.7
Non-Deltaic	Supplemental	T-OCA-41-C2R	10/07/03	6–12	84.9
Non-Deltaic	Supplemental	T-OCA-41-HWL	10/07/03	6–12	25.2
Non-Deltaic	Supplemental	T-OCA-41-OB1R	10/07/03	6–12	564
Non-Deltaic	Supplemental	T-OCA-41-OB2R	10/07/03	6–12	42.5
Non-Deltaic	Supplemental	T-OCA-41-OB3R	10/07/03	6–12	135
Non-Deltaic	Supplemental	T-OCA-42-B	10/07/03	6–12	157
Non-Deltaic	Supplemental	T-OCA-42-C1L	10/07/03	6–12	10.4
Non-Deltaic	Supplemental	T-OCA-42-C1R	10/07/03	6–12	16.5
Non-Deltaic	Supplemental	T-OCA-42-C2R	10/07/03	6–12	63.3
Non-Deltaic	Supplemental	T-OCA-42-HWL	10/07/03	6–12	18.6
Non-Deltaic	Supplemental	T-OCA-42-OB1R	10/07/03	6–12	242
Non-Deltaic	Supplemental	T-OCA-42-OB2R	10/07/03	6–12	115
Non-Deltaic	Supplemental	T-OCA-43-B	10/06/03	6–12	230
Non-Deltaic	Supplemental	T-OCA-43-C1L	10/06/03	6–12	13.8
Non-Deltaic	Supplemental	T-OCA-43-C1R	10/06/03	6–12	79.6
Non-Deltaic	Supplemental	T-OCA-43-C2R	10/06/03	6–12	88.1
Non-Deltaic	Supplemental	T-OCA-43-HWL	10/06/03	6–12	21
Non-Deltaic	Supplemental	T-OCA-43-OB1R	10/06/03	6–12	221
Non-Deltaic	Supplemental	T-OCA-43-OB2R	10/06/03	6–12	44.8
Non-Deltaic	Supplemental	T-OCA-43-OB3R	10/06/03	6–12	39.2
Non-Deltaic	Supplemental	T-OCA-44-B	10/06/03	6–12	286
Non-Deltaic	Supplemental	T-OCA-44-C1L	10/06/03	6–12	31.3
Non-Deltaic	Supplemental	T-OCA-44-C1R	10/06/03	6–12	105
Non-Deltaic	Supplemental	T-OCA-44-C2R	09/22/03	6–12	809
Non-Deltaic	Supplemental	T-OCA-44-HWL	09/22/03	6–12	58.7
Non-Deltaic	Supplemental	T-OCA-44-OB1R	09/22/03	6–12	68.9
Non-Deltaic	Supplemental	T-OCA-44-OB2R	09/22/03	6–12	46.9
Non-Deltaic	Supplemental	T-OCA-44-OB3R	09/22/03	6–12	33.6
Non-Deltaic	Supplemental	T-OCA-45-B	09/22/03	6–12	364
Non-Deltaic	Supplemental	T-OCA-45-C1L	09/22/03	6–12	10.3
Non-Deltaic	Supplemental	T-OCA-45-C1R	09/22/03	6–12	543
Non-Deltaic	Supplemental	T-OCA-45-C2R	09/22/03	6–12	26.3
Non-Deltaic	Supplemental	T-OCA-45-HWL	09/22/03	6–12	45.2
Non-Deltaic	Supplemental	T-OCA-45-OB1R	09/22/03	6–12	98.5
Non-Deltaic	Supplemental	T-OCA-45-OB2R	09/22/03	6–12	37.1
Non-Deltaic	Supplemental	T-OCA-46-B	09/21/03	6–12	306
Non-Deltaic	Supplemental	T-OCA-46-C1L	09/21/03	6–12	42.5
Non-Deltaic	Supplemental	T-OCA-46-C1R	09/21/03	6–12	31.6 *J*
Non-Deltaic	Supplemental	T-OCA-46-C2R	09/21/03	6–12	309 *J*
Non-Deltaic	Supplemental	T-OCA-46-HWL	09/21/03	6–12	34.1
Non-Deltaic	Supplemental	T-OCA-46-OB1R	09/21/03	6–12	160 *J*
Non-Deltaic	Supplemental	T-OCA-46-OB2R	09/21/03	6–12	44.4 *J*
Non-Deltaic	Supplemental	T-OCA-46-OB3R	09/21/03	6–12	33.2 *J*
Non-Deltaic	Supplemental	T-OCA-47-B	09/20/03	6–12	803 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1L	09/20/03	6–12	36.2 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1R	09/20/03	6–12	53.1 *J*
Non-Deltaic	Supplemental	T-OCA-47-C2L	09/20/03	6–12	24.5 *J*
Non-Deltaic	Supplemental	T-OCA-47-C2R	09/20/03	6–12	253
Non-Deltaic	Supplemental	T-OCA-47-OB1R	09/20/03	6–12	109
Non-Deltaic	Supplemental	T-OCA-47-OB2R	09/20/03	6–12	112
Non-Deltaic	Supplemental	T-OCA-47-OB3R	09/20/03	6–12	34.3
Non-Deltaic	RI	T-OCA-4-B	11/28/95	6–12	23.6
Non-Deltaic	RI	T-OCA-4-C1L	11/28/95	6–12	64.5
Non-Deltaic	RI	T-OCA-4-C1R	11/28/95	6–12	145
Non-Deltaic	RI	T-OCA-4-C2L	11/28/95	6–12	99.9

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	RI	T-OCA-4-C2R	11/28/95	6–12	55.9
Non-Deltaic	Supplemental	T-OCA-52-OB1R	12/10/03	6–12	57.7 *J*
Non-Deltaic	Supplemental	T-OCA-52-OB2R	12/10/03	6–12	931.5
Non-Deltaic	Supplemental	T-OCA-52-OB3R	12/10/03	6–12	22.8
Non-Deltaic	Supplemental	T-OCA-53-OB1R	12/10/03	6–12	408
Non-Deltaic	Supplemental	T-OCA-53-OB2R	12/10/03	6–12	42.15
Non-Deltaic	Supplemental	T-OCA-53-OB3R	12/10/03	6–12	22.45
Non-Deltaic	RI	T-OCA-5-B	07/31/96	6–12	409
Non-Deltaic	RI	T-OCA-5-C1L	07/31/96	6–12	29.3
Non-Deltaic	RI	T-OCA-5-C1R	07/31/96	6–12	72.3
Non-Deltaic	RI	T-OCA-5-C2L	07/31/96	6–12	31.1
Non-Deltaic	RI	T-OCA-5-C2R	07/31/96	6–12	12.1
Non-Deltaic	RI	T-OCA-6-B	07/31/96	6–12	656
Non-Deltaic	RI	T-OCA-6-C1L	07/31/96	6–12	36
Non-Deltaic	RI	T-OCA-6-C1R	07/31/96	6–12	45
Non-Deltaic	RI	T-OCA-6-C2L	07/31/96	6–12	27.3
Non-Deltaic	RI	T-OCA-6-C2R	07/31/96	6–12	92.7
Non-Deltaic	RI	C-OCA-12	11/30/95	12–18	13.1 *J*
Non-Deltaic	Supplemental	C-OCA-23	12/10/03	12–18	52.8 *J*
Non-Deltaic	Supplemental	T-OCA-19-B	10/15/03	12–18	36.2
Non-Deltaic	Supplemental	T-OCA-19-C1L	10/15/03	12–18	11.6
Non-Deltaic	Supplemental	T-OCA-19-C1R	10/15/03	12–18	12.3
Non-Deltaic	Supplemental	T-OCA-19-C2L	10/15/03	12–18	26
Non-Deltaic	Supplemental	T-OCA-19-C2R	10/15/03	12–18	40.3
Non-Deltaic	RI	T-OCA-1-B	11/22/95	12–18	9.4
Non-Deltaic	RI	T-OCA-1-C1L	11/22/95	12–18	22.9
Non-Deltaic	RI	T-OCA-1-C1R	11/22/95	12–18	11
Non-Deltaic	RI	T-OCA-1-C2L	11/22/95	12–18	22.2
Non-Deltaic	RI	T-OCA-1-C2R	11/22/95	12–18	24.8
Non-Deltaic	Supplemental	T-OCA-20-B	10/15/03	12–18	54.5
Non-Deltaic	Supplemental	T-OCA-20-C1L	10/15/03	12–18	27.9
Non-Deltaic	Supplemental	T-OCA-20-C1R	10/15/03	12–18	11.8
Non-Deltaic	Supplemental	T-OCA-20-C2L	10/15/03	12–18	25.6
Non-Deltaic	Supplemental	T-OCA-20-C2R	10/15/03	12–18	44.2
Non-Deltaic	Supplemental	T-OCA-21-B	10/15/03	12–18	162
Non-Deltaic	Supplemental	T-OCA-21-C1L	10/15/03	12–18	14.9
Non-Deltaic	Supplemental	T-OCA-21-C1R	10/15/03	12–18	18.3
Non-Deltaic	Supplemental	T-OCA-21-C2L	10/15/03	12–18	21.3
Non-Deltaic	Supplemental	T-OCA-21-C2R	10/15/03	12–18	27.9
Non-Deltaic	Supplemental	T-OCA-22-B	10/14/03	12–18	10.8 *J*
Non-Deltaic	Supplemental	T-OCA-22-C1L	10/14/03	12–18	13.6 *J*
Non-Deltaic	Supplemental	T-OCA-22-C1R	10/14/03	12–18	13.5 *J*
Non-Deltaic	Supplemental	T-OCA-22-C2R	10/14/03	12–18	21.1 *J*
Non-Deltaic	Supplemental	T-OCA-22-HWL	10/14/03	12–18	21.9 *J*
Non-Deltaic	Supplemental	T-OCA-23-B	10/14/03	12–18	118
Non-Deltaic	Supplemental	T-OCA-23-C1L	10/14/03	12–18	25.3
Non-Deltaic	Supplemental	T-OCA-23-C1R	10/14/03	12–18	13.1
Non-Deltaic	Supplemental	T-OCA-23-C2L	10/14/03	12–18	23.9
Non-Deltaic	Supplemental	T-OCA-23-C2R	10/14/03	12–18	16.9 *J*
Non-Deltaic	Supplemental	T-OCA-24-B	10/14/03	12–18	68.6 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1L	10/14/03	12–18	13.6 *J*
Non-Deltaic	Supplemental	T-OCA-24-C1R	10/14/03	12–18	13.9 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2L	10/14/03	12–18	26.1 *J*
Non-Deltaic	Supplemental	T-OCA-24-C2R	10/14/03	12–18	502
Non-Deltaic	Supplemental	T-OCA-25-B	10/13/03	12–18	22.2 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1L	10/13/03	12–18	13.5 *J*
Non-Deltaic	Supplemental	T-OCA-25-C1R	10/13/03	12–18	12.2 *J*

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-25-C2L	10/13/03	12–18	23.9 *J*
Non-Deltaic	Supplemental	T-OCA-25-C2R	10/13/03	12–18	51.1 *J*
Non-Deltaic	Supplemental	T-OCA-27-B	10/13/03	12–18	80.7
Non-Deltaic	Supplemental	T-OCA-27-C1L	10/13/03	12–18	11.9
Non-Deltaic	Supplemental	T-OCA-27-C1R	10/13/03	12–18	19.9
Non-Deltaic	Supplemental	T-OCA-27-C2L	10/13/03	12–18	68.3
Non-Deltaic	Supplemental	T-OCA-27-C2R	10/13/03	12–18	25.5 *J*
Non-Deltaic	Supplemental	T-OCA-28-B	10/09/03	12–18	22.6
Non-Deltaic	Supplemental	T-OCA-28-C1L	10/09/03	12–18	14.1
Non-Deltaic	Supplemental	T-OCA-28-C1R	10/09/03	12–18	14.8
Non-Deltaic	Supplemental	T-OCA-28-C2L	10/09/03	12–18	20.5
Non-Deltaic	Supplemental	T-OCA-28-C2R	10/09/03	12–18	25.5
Non-Deltaic	Supplemental	T-OCA-29-B	10/09/03	12–18	85.5
Non-Deltaic	Supplemental	T-OCA-29-C1L	10/09/03	12–18	14.3
Non-Deltaic	Supplemental	T-OCA-29-C1R	10/09/03	12–18	141
Non-Deltaic	Supplemental	T-OCA-29-C2L	10/09/03	12–18	35.5
Non-Deltaic	RI	T-OCA-2-B	11/22/95	12–18	12.3
Non-Deltaic	RI	T-OCA-2-C1L	11/28/95	12–18	144
Non-Deltaic	RI	T-OCA-2-C1R	11/28/95	12–18	17.2
Non-Deltaic	RI	T-OCA-2-C2L	11/28/95	12–18	22.3
Non-Deltaic	RI	T-OCA-2-C2R	11/28/95	12–18	35.2
Non-Deltaic	Supplemental	T-OCA-30-B	09/23/03	12–18	18.8
Non-Deltaic	Supplemental	T-OCA-30-C1L	09/23/03	12–18	18.5
Non-Deltaic	Supplemental	T-OCA-30-C1R	09/23/03	12–18	19.9
Non-Deltaic	Supplemental	T-OCA-30-HWL	09/23/03	12–18	19.8
Non-Deltaic	Supplemental	T-OCA-31-B	09/23/03	12–18	411
Non-Deltaic	Supplemental	T-OCA-31-C1L	09/23/03	12–18	18.7
Non-Deltaic	Supplemental	T-OCA-31-C1R	09/23/03	12–18	16.2
Non-Deltaic	Supplemental	T-OCA-31-C2R	09/23/03	12–18	397
Non-Deltaic	Supplemental	T-OCA-31-HWL	09/23/03	12–18	22.2
Non-Deltaic	Supplemental	T-OCA-31-OB1R	09/23/03	12–18	20.7
Non-Deltaic	Supplemental	T-OCA-32-B	09/23/03	12–18	115
Non-Deltaic	Supplemental	T-OCA-32-C1L	09/23/03	12–18	5.9
Non-Deltaic	Supplemental	T-OCA-32-C1R	09/23/03	12–18	362
Non-Deltaic	Supplemental	T-OCA-32-C2R	09/23/03	12–18	10.3
Non-Deltaic	Supplemental	T-OCA-32-HWL	09/23/03	12–18	14.5
Non-Deltaic	Supplemental	T-OCA-32-OB1R	09/23/03	12–18	31.2
Non-Deltaic	Supplemental	T-OCA-33-B	10/08/03	12–18	11.8
Non-Deltaic	Supplemental	T-OCA-33-C1L	10/08/03	12–18	9.1
Non-Deltaic	Supplemental	T-OCA-33-C1R	10/08/03	12–18	9.9
Non-Deltaic	Supplemental	T-OCA-33-C2R	10/08/03	12–18	19.6
Non-Deltaic	Supplemental	T-OCA-33-HWL	10/08/03	12–18	47
Non-Deltaic	Supplemental	T-OCA-33-OB1R	10/08/03	12–18	124
Non-Deltaic	Supplemental	T-OCA-34-B	10/08/03	12–18	28.7
Non-Deltaic	Supplemental	T-OCA-34-C1L	10/08/03	12–18	24.1
Non-Deltaic	Supplemental	T-OCA-34-C1R	10/08/03	12–18	18.7
Non-Deltaic	Supplemental	T-OCA-34-C2R	10/08/03	12–18	25.6
Non-Deltaic	Supplemental	T-OCA-34-HWL	10/08/03	12–18	25.2
Non-Deltaic	Supplemental	T-OCA-34-OB1R	10/08/03	12–18	516
Non-Deltaic	Supplemental	T-OCA-34-OB2R	10/08/03	12–18	24.1
Non-Deltaic	Supplemental	T-OCA-35-B	10/08/03	12–18	19.2
Non-Deltaic	Supplemental	T-OCA-35-C1L	10/08/03	12–18	12.9
Non-Deltaic	Supplemental	T-OCA-35-C1R	10/08/03	12–18	11
Non-Deltaic	Supplemental	T-OCA-35-C2R	10/08/03	12–18	25
Non-Deltaic	Supplemental	T-OCA-35-HWL	10/08/03	12–18	19.8
Non-Deltaic	Supplemental	T-OCA-35-OB1R	10/08/03	12–18	2,760
Non-Deltaic	Supplemental	T-OCA-35-OB2R	10/08/03	12–18	136

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-35-OB3R	10/08/03	12–18	51.9
Non-Deltaic	Supplemental	T-OCA-36-B	10/08/03	12–18	12.5
Non-Deltaic	Supplemental	T-OCA-36-C1L	10/08/03	12–18	8.1
Non-Deltaic	Supplemental	T-OCA-36-C1R	10/08/03	12–18	17.2
Non-Deltaic	Supplemental	T-OCA-36-C2R	10/08/03	12–18	142
Non-Deltaic	Supplemental	T-OCA-36-HWL	10/08/03	12–18	15.4
Non-Deltaic	Supplemental	T-OCA-36-OB1R	10/08/03	12–18	132
Non-Deltaic	Supplemental	T-OCA-37-B	10/08/03	12–18	13.9
Non-Deltaic	Supplemental	T-OCA-37-C1L	10/08/03	12–18	16.5
Non-Deltaic	Supplemental	T-OCA-37-C1R	10/08/03	12–18	15
Non-Deltaic	Supplemental	T-OCA-37-C2R	10/08/03	12–18	307
Non-Deltaic	Supplemental	T-OCA-37-HWL	10/08/03	12–18	14.9
Non-Deltaic	Supplemental	T-OCA-37-OB1R	10/08/03	12–18	28.1
Non-Deltaic	Supplemental	T-OCA-38-B	10/07/03	12–18	87.6
Non-Deltaic	Supplemental	T-OCA-38-C1L	10/07/03	12–18	34.1
Non-Deltaic	Supplemental	T-OCA-38-C1R	10/07/03	12–18	8.3
Non-Deltaic	Supplemental	T-OCA-38-C2R	10/07/03	12–18	56.3
Non-Deltaic	Supplemental	T-OCA-38-HWL	10/07/03	12–18	23.4
Non-Deltaic	Supplemental	T-OCA-38-OB1R	10/07/03	12–18	118
Non-Deltaic	Supplemental	T-OCA-39-B	10/07/03	12–18	195
Non-Deltaic	Supplemental	T-OCA-39-C1L	10/07/03	12–18	20.7
Non-Deltaic	Supplemental	T-OCA-39-C1R	10/07/03	12–18	21.8
Non-Deltaic	Supplemental	T-OCA-39-C2R	10/07/03	12–18	32.3
Non-Deltaic	Supplemental	T-OCA-39-HWL	10/07/03	12–18	21.8
Non-Deltaic	Supplemental	T-OCA-39-OB1R	10/07/03	12–18	47.4
Non-Deltaic	RI	T-OCA-3-B	11/28/95	12–18	8.1
Non-Deltaic	RI	T-OCA-3-C1L	11/28/95	12–18	19.1
Non-Deltaic	RI	T-OCA-3-C1R	11/28/95	12–18	24.8
Non-Deltaic	RI	T-OCA-3-C2L	11/28/95	12–18	81.5
Non-Deltaic	RI	T-OCA-3-C2R	11/28/95	12–18	22.9
Non-Deltaic	Supplemental	T-OCA-40-B	10/07/03	12–18	183
Non-Deltaic	Supplemental	T-OCA-40-C1L	10/07/03	12–18	14.3
Non-Deltaic	Supplemental	T-OCA-40-C1R	10/07/03	12–18	7.7
Non-Deltaic	Supplemental	T-OCA-40-C2R	10/07/03	12–18	67.4
Non-Deltaic	Supplemental	T-OCA-40-HWL	10/07/03	12–18	23.4
Non-Deltaic	Supplemental	T-OCA-40-OB1R	10/07/03	12–18	490
Non-Deltaic	Supplemental	T-OCA-41-B	10/07/03	12–18	162
Non-Deltaic	Supplemental	T-OCA-41-C1L	10/07/03	12–18	16.8
Non-Deltaic	Supplemental	T-OCA-41-C1R	10/07/03	12–18	9
Non-Deltaic	Supplemental	T-OCA-41-C2R	10/07/03	12–18	24.7
Non-Deltaic	Supplemental	T-OCA-41-HWL	10/07/03	12–18	20.6
Non-Deltaic	Supplemental	T-OCA-41-OB1R	10/07/03	12–18	50.7
Non-Deltaic	Supplemental	T-OCA-42-B	10/07/03	12–18	203
Non-Deltaic	Supplemental	T-OCA-42-C1L	10/07/03	12–18	12.1
Non-Deltaic	Supplemental	T-OCA-42-C1R	10/07/03	12–18	16.1
Non-Deltaic	Supplemental	T-OCA-42-C2R	10/07/03	12–18	23.4
Non-Deltaic	Supplemental	T-OCA-42-HWL	10/07/03	12–18	18.1
Non-Deltaic	Supplemental	T-OCA-42-OB1R	10/07/03	12–18	99.9
Non-Deltaic	Supplemental	T-OCA-43-B	10/06/03	12–18	274
Non-Deltaic	Supplemental	T-OCA-43-C1L	10/06/03	12–18	18.8
Non-Deltaic	Supplemental	T-OCA-43-C1R	10/06/03	12–18	14.2
Non-Deltaic	Supplemental	T-OCA-43-C2R	10/06/03	12–18	81.4
Non-Deltaic	Supplemental	T-OCA-43-HWL	10/06/03	12–18	21
Non-Deltaic	Supplemental	T-OCA-43-OB1R	10/06/03	12–18	79.5
Non-Deltaic	Supplemental	T-OCA-44-B	10/06/03	12–18	217
Non-Deltaic	Supplemental	T-OCA-44-C1L	10/06/03	12–18	16.6
Non-Deltaic	Supplemental	T-OCA-44-C1R	10/06/03	12–18	29.4

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-44-C2R	09/22/03	12–18	73.8
Non-Deltaic	Supplemental	T-OCA-44-HWL	09/22/03	12–18	30
Non-Deltaic	Supplemental	T-OCA-44-OB1R	09/22/03	12–18	39.7
Non-Deltaic	Supplemental	T-OCA-45-B	09/22/03	12–18	368
Non-Deltaic	Supplemental	T-OCA-45-C1L	09/22/03	12–18	10.7
Non-Deltaic	Supplemental	T-OCA-45-C1R	09/22/03	12–18	260
Non-Deltaic	Supplemental	T-OCA-45-C2R	09/22/03	12–18	23.5
Non-Deltaic	Supplemental	T-OCA-45-HWL	09/22/03	12–18	18.5
Non-Deltaic	Supplemental	T-OCA-45-OB1R	09/22/03	12–18	37.3
Non-Deltaic	Supplemental	T-OCA-46-B	09/21/03	12–18	234
Non-Deltaic	Supplemental	T-OCA-46-C1L	09/21/03	12–18	24.8
Non-Deltaic	Supplemental	T-OCA-46-C1R	09/21/03	12–18	26.3 *J*
Non-Deltaic	Supplemental	T-OCA-46-C2R	09/21/03	12–18	153 *J*
Non-Deltaic	Supplemental	T-OCA-46-HWL	09/21/03	12–18	17.7
Non-Deltaic	Supplemental	T-OCA-46-OB1R	09/21/03	12–18	538 *J*
Non-Deltaic	Supplemental	T-OCA-47-B	09/20/03	12–18	1,020 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1L	09/20/03	12–18	22.5 *J*
Non-Deltaic	Supplemental	T-OCA-47-C1R	09/20/03	12–18	33.8 *J*
Non-Deltaic	Supplemental	T-OCA-47-C2L	09/20/03	12–18	24 *J*
Non-Deltaic	Supplemental	T-OCA-47-C2R	09/20/03	12–18	60
Non-Deltaic	Supplemental	T-OCA-47-OB1R	09/20/03	12–18	532
Non-Deltaic	Supplemental	T-OCA-47-OB2R	09/20/03	12–18	161
Non-Deltaic	RI	T-OCA-4-B	11/28/95	12–18	19.3
Non-Deltaic	RI	T-OCA-4-C1L	11/28/95	12–18	35.5
Non-Deltaic	RI	T-OCA-4-C1R	11/28/95	12–18	155
Non-Deltaic	RI	T-OCA-4-C2L	11/28/95	12–18	109
Non-Deltaic	RI	T-OCA-4-C2R	11/28/95	12–18	230
Non-Deltaic	Supplemental	T-OCA-52-OB1R	12/10/03	12–18	27.4
Non-Deltaic	Supplemental	T-OCA-52-OB2R	12/10/03	12–18	322
Non-Deltaic	Supplemental	T-OCA-52-OB3R	12/10/03	12–18	15.6
Non-Deltaic	Supplemental	T-OCA-53-OB1R	12/10/03	12–18	66.9
Non-Deltaic	Supplemental	T-OCA-53-OB2R	12/10/03	12–18	19.7
Non-Deltaic	Supplemental	T-OCA-53-OB3R	12/10/03	12–18	16.8
Non-Deltaic	RI	T-OCA-5-B	07/31/96	12–18	144
Non-Deltaic	RI	T-OCA-5-C1L	07/31/96	12–18	23.2
Non-Deltaic	RI	T-OCA-5-C1R	07/31/96	12–18	63.6
Non-Deltaic	RI	T-OCA-5-C2L	07/31/96	12–18	29.7
Non-Deltaic	RI	T-OCA-5-C2R	07/31/96	12–18	12.4
Non-Deltaic	RI	T-OCA-6-B	07/31/96	12–18	47.2
Non-Deltaic	RI	T-OCA-6-C1L	07/31/96	12–18	33.4
Non-Deltaic	RI	T-OCA-6-C1R	07/31/96	12–18	33.1
Non-Deltaic	RI	T-OCA-6-C2L	07/31/96	12–18	25.5
Non-Deltaic	RI	T-OCA-6-C2R	07/31/96	12–18	39.6
Non-Deltaic	RI	C-OCA-12	11/30/95	18–24	17.3
Non-Deltaic	Supplemental	C-OCA-23	12/10/03	18–24	20.2 *J*
Non-Deltaic	RI	T-OCA-1-B	11/22/95	18–24	9.5
Non-Deltaic	Supplemental	T-OCA-20-C2R	10/15/03	18–24	30.3
Non-Deltaic	Supplemental	T-OCA-24-C2R	10/14/03	18–24	257.5
Non-Deltaic	Supplemental	T-OCA-31-B	09/23/03	18–24	259
Non-Deltaic	Supplemental	T-OCA-34-OB1R	10/08/03	18–24	31.3
Non-Deltaic	Supplemental	T-OCA-34-OB2R	10/08/03	18–24	22.6
Non-Deltaic	Supplemental	T-OCA-35-OB1R	10/08/03	18–24	167.5
Non-Deltaic	Supplemental	T-OCA-35-OB2R	10/08/03	18–24	28.3
Non-Deltaic	Supplemental	T-OCA-35-OB3R	10/08/03	18–24	12.5
Non-Deltaic	RI	T-OCA-3-B	11/28/95	18–24	8.3
Non-Deltaic	Supplemental	T-OCA-40-OB1R	10/07/03	18–24	94.7
Non-Deltaic	Supplemental	T-OCA-41-B	10/07/03	18–24	131

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Non-Deltaic	Supplemental	T-OCA-42-B	10/07/03	18–24	249.5
Non-Deltaic	Supplemental	T-OCA-43-B	10/06/03	18–24	215
Non-Deltaic	Supplemental	T-OCA-44-B	10/06/03	18–24	322
Non-Deltaic	Supplemental	T-OCA-45-B	09/22/03	18–24	538
Non-Deltaic	Supplemental	T-OCA-46-B	09/21/03	18–24	486
Non-Deltaic	Supplemental	T-OCA-46-OB1R	09/21/03	18–24	128
Non-Deltaic	Supplemental	T-OCA-47-B	09/20/03	18–24	178
Non-Deltaic	Supplemental	T-OCA-47-OB1R	09/20/03	18–24	65.4
Non-Deltaic	RI	T-OCA-4-B	11/28/95	18–24	19
Non-Deltaic	RI	T-OCA-5-B	07/31/96	18–24	31.9
Non-Deltaic	RI	T-OCA-6-B	07/31/96	18–24	30.6
Non-Deltaic	RI	C-OCA-12	11/30/95	24–30	17.3
Non-Deltaic	Supplemental	C-OCA-23	12/10/03	24–30	16.7 *J*
Non-Deltaic	Supplemental	T-OCA-19-C2R	10/15/03	24–30	22.8
Non-Deltaic	RI	T-OCA-1-B	11/22/95	24–30	9.5
Non-Deltaic	Supplemental	T-OCA-24-C2R	10/14/03	24–30	27.1
Non-Deltaic	Supplemental	T-OCA-31-B	09/23/03	24–30	42.8
Non-Deltaic	Supplemental	T-OCA-34-OB1R	10/08/03	24–30	24.2
Non-Deltaic	Supplemental	T-OCA-34-OB2R	10/08/03	24–30	20.6
Non-Deltaic	Supplemental	T-OCA-35-OB1R	10/08/03	24–30	26.1
Non-Deltaic	Supplemental	T-OCA-40-OB1R	10/07/03	24–30	18.4
Non-Deltaic	Supplemental	T-OCA-45-B	09/22/03	24–30	438
Non-Deltaic	Supplemental	T-OCA-46-B	09/21/03	24–30	174
Non-Deltaic	Supplemental	T-OCA-46-OB1R	09/21/03	24–30	31
Non-Deltaic	Supplemental	T-OCA-47-B	09/20/03	24–30	127
Non-Deltaic	Supplemental	T-OCA-47-OB1R	09/20/03	24–30	28.1
Non-Deltaic	RI	T-OCA-4-B	11/28/95	24–30	18.2
Non-Deltaic	RI	T-OCA-5-B	07/31/96	24–30	30.3
Non-Deltaic	RI	T-OCA-6-B	07/31/96	24–30	19.9
Non-Deltaic	RI	T-OCA-1-B	11/22/95	30–36	9.5
Non-Deltaic	RI	T-OCA-4-B	11/28/95	30–36	17.1
Non-Deltaic	RI	T-OCA-5-B	07/31/96	30–36	27.7
Non-Deltaic	RI	T-OCA-6-B	07/31/96	30–36	18
Upper Creek	Historical	OS-1	10/04/88	0–6	216
Upper Creek	Historical	T-8-A	10/01/90	0–6	136
Upper Creek	Historical	T-8-C1L	10/01/90	0–6	4,870
Upper Creek	Historical	T-8-C1R	10/01/90	0–6	1,570
Upper Creek	Historical	T-9-A	10/01/90	0–6	204
Upper Creek	Historical	T-9-C1L	10/01/90	0–6	2,520
Upper Creek	Historical	T-9-C1R	10/01/90	0–6	15.1
Upper Creek	Historical	T-9-C2L	10/01/90	0–6	27.9
Upper Creek	Historical	T-9-C2R	10/01/90	0–6	12.9
Upper Creek	Supplemental	T-OCA-10-A	10/01/03	0–6	1,610
Upper Creek	Supplemental	T-OCA-10-C1L	10/01/03	0–6	7,820
Upper Creek	Supplemental	T-OCA-10-C1R	10/01/03	0–6	238.5
Upper Creek	Supplemental	T-OCA-10-C2L	10/01/03	0–6	2,860
Upper Creek	Supplemental	T-OCA-10-C2R	10/01/03	0–6	36.2
Upper Creek	Supplemental	T-OCA-10-OB1R	10/01/03	0–6	34.3
Upper Creek	Supplemental	T-OCA-11-A	10/01/03	0–6	625
Upper Creek	Supplemental	T-OCA-11-C1L	10/01/03	0–6	1,760
Upper Creek	Supplemental	T-OCA-11-C1R	10/01/03	0–6	392
Upper Creek	Supplemental	T-OCA-11-C2L	10/01/03	0–6	5,030
Upper Creek	Supplemental	T-OCA-11-C2R	10/01/03	0–6	59.9
Upper Creek	Supplemental	T-OCA-11-OB1L	10/01/03	0–6	71.8
Upper Creek	Supplemental	T-OCA-11-OB1R	10/01/03	0–6	18
Upper Creek	Supplemental	T-OCA-12-A	10/01/03	0–6	174

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Upper Creek	Supplemental	T-OCA-12-C1L	10/01/03	0–6	2,570
Upper Creek	Supplemental	T-OCA-12-C1R	10/01/03	0–6	6,020
Upper Creek	Supplemental	T-OCA-12-C2L	10/01/03	0–6	2,580
Upper Creek	Supplemental	T-OCA-12-C2R	10/01/03	0–6	50
Upper Creek	Supplemental	T-OCA-12-OB1L	10/01/03	0–6	55.3
Upper Creek	Supplemental	T-OCA-12-OB1R	10/01/03	0–6	22.9
Upper Creek	Supplemental	T-OCA-13-A	09/30/03	0–6	69.3
Upper Creek	Supplemental	T-OCA-13-C1L	09/30/03	0–6	357
Upper Creek	Supplemental	T-OCA-13-C1R	09/30/03	0–6	8.6
Upper Creek	Supplemental	T-OCA-13-C2L	09/30/03	0–6	4,290
Upper Creek	Supplemental	T-OCA-13-C2R	09/30/03	0–6	13.3
Upper Creek	Supplemental	T-OCA-13-OB1L	09/30/03	0–6	1,020
Upper Creek	Supplemental	T-OCA-13-OB1R	09/30/03	0–6	18.45
Upper Creek	Supplemental	T-OCA-14-A	09/30/03	0–6	36.9
Upper Creek	Supplemental	T-OCA-14-C1L	09/30/03	0–6	918
Upper Creek	Supplemental	T-OCA-14-C1R	09/30/03	0–6	1,050
Upper Creek	Supplemental	T-OCA-14-C2L	09/30/03	0–6	985
Upper Creek	Supplemental	T-OCA-14-C2R	09/30/03	0–6	2,350
Upper Creek	Supplemental	T-OCA-14-OB1R	09/30/03	0–6	24.35
Upper Creek	Supplemental	T-OCA-15-A	09/30/03	0–6	136
Upper Creek	Supplemental	T-OCA-15-C1L	09/30/03	0–6	282
Upper Creek	Supplemental	T-OCA-15-C1R	09/30/03	0–6	29.3
Upper Creek	Supplemental	T-OCA-15-C2L	09/30/03	0–6	1,400
Upper Creek	Supplemental	T-OCA-15-C2R	09/30/03	0–6	479.5
Upper Creek	Supplemental	T-OCA-15-OB1L	09/30/03	0–6	37.4
Upper Creek	Supplemental	T-OCA-15-OB1R	09/30/03	0–6	27.3
Upper Creek	Supplemental	T-OCA-16-A	09/30/03	0–6	174
Upper Creek	Supplemental	T-OCA-16-C1L	09/30/03	0–6	5,400
Upper Creek	Supplemental	T-OCA-16-C1R	09/30/03	0–6	611
Upper Creek	Supplemental	T-OCA-16-C2L	09/30/03	0–6	1,910
Upper Creek	Supplemental	T-OCA-16-C2R	09/30/03	0–6	148
Upper Creek	Supplemental	T-OCA-16-OB1L	09/30/03	0–6	24.5
Upper Creek	Supplemental	T-OCA-16-OB1R	09/30/03	0–6	61.35
Upper Creek	Supplemental	T-OCA-7-A	10/02/03	0–6	66.4
Upper Creek	Supplemental	T-OCA-7-C1L	10/02/03	0–6	83.7
Upper Creek	Supplemental	T-OCA-7-C1R	10/02/03	0–6	56.2
Upper Creek	Supplemental	T-OCA-7-C2L	10/02/03	0–6	117
Upper Creek	Supplemental	T-OCA-7-C2R	10/02/03	0–6	94.6
Upper Creek	Supplemental	T-OCA-7-OB1R	10/02/03	0–6	21.45
Upper Creek	Supplemental	T-OCA-8-A	10/01/03	0–6	120 *J*
Upper Creek	Supplemental	T-OCA-8-C1L	10/01/03	0–6	27.15 *J*
Upper Creek	Supplemental	T-OCA-8-C1R	10/01/03	0–6	23.1 *J*
Upper Creek	Supplemental	T-OCA-8-C2L	10/01/03	0–6	407 *J*
Upper Creek	Supplemental	T-OCA-8-C2R	10/01/03	0–6	32.4 *J*
Upper Creek	Supplemental	T-OCA-8-OB1R	10/01/03	0–6	24.7
Upper Creek	Supplemental	T-OCA-9-A	10/01/03	0–6	162
Upper Creek	Supplemental	T-OCA-9-C1L	10/01/03	0–6	47.6
Upper Creek	Supplemental	T-OCA-9-C1R	10/01/03	0–6	133
Upper Creek	Supplemental	T-OCA-9-C2L	10/01/03	0–6	34.3
Upper Creek	Supplemental	T-OCA-9-C2R	10/01/03	0–6	504
Upper Creek	Supplemental	T-OCA-9-OB1R	10/01/03	0–6	25.9
Upper Creek	Supplemental	T-OCA-14-B	09/30/03	6–8	6.9
Upper Creek	Historical	T-8-B	10/01/90	6–12	105
Upper Creek	Historical	T-8-C1L	10/01/90	6–12	182
Upper Creek	Historical	T-8-C1R	10/01/90	6–12	655
Upper Creek	Historical	T-9-C1L	10/01/90	6–12	442
Upper Creek	Supplemental	T-OCA-10-B	10/01/03	6–12	968

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Upper Creek	Supplemental	T-OCA-10-C1L	10/01/03	6–12	201
Upper Creek	Supplemental	T-OCA-10-C1R	10/01/03	6–12	17.3
Upper Creek	Supplemental	T-OCA-10-C2L	10/01/03	6–12	5,270
Upper Creek	Supplemental	T-OCA-10-C2R	10/01/03	6–12	7.8
Upper Creek	Supplemental	T-OCA-10-OB1R	10/01/03	6–12	8.2
Upper Creek	Supplemental	T-OCA-11-B	10/01/03	6–12	14.7
Upper Creek	Supplemental	T-OCA-11-C1L	10/01/03	6–12	178
Upper Creek	Supplemental	T-OCA-11-C1R	10/01/03	6–12	15.3
Upper Creek	Supplemental	T-OCA-11-C2L	10/01/03	6–12	132
Upper Creek	Supplemental	T-OCA-11-C2R	10/01/03	6–12	18.6
Upper Creek	Supplemental	T-OCA-11-OB1L	10/01/03	6–12	17.7
Upper Creek	Supplemental	T-OCA-11-OB1R	10/01/03	6–12	34.1
Upper Creek	Supplemental	T-OCA-12-B	10/01/03	6–12	97.9
Upper Creek	Supplemental	T-OCA-12-C1L	10/01/03	6–12	84.8
Upper Creek	Supplemental	T-OCA-12-C1R	10/01/03	6–12	3,760
Upper Creek	Supplemental	T-OCA-12-C2L	10/01/03	6–12	5,060
Upper Creek	Supplemental	T-OCA-12-C2R	10/01/03	6–12	13.3
Upper Creek	Supplemental	T-OCA-12-OB1L	10/01/03	6–12	13.9
Upper Creek	Supplemental	T-OCA-12-OB1R	10/01/03	6–12	9
Upper Creek	Supplemental	T-OCA-13-B	09/30/03	6–12	6.2
Upper Creek	Supplemental	T-OCA-13-C1L	09/30/03	6–12	13.4
Upper Creek	Supplemental	T-OCA-13-C1R	09/30/03	6–12	10.9
Upper Creek	Supplemental	T-OCA-13-C2L	09/30/03	6–12	4,000
Upper Creek	Supplemental	T-OCA-13-C2R	09/30/03	6–12	10.1
Upper Creek	Supplemental	T-OCA-13-OB1L	09/30/03	6–12	102
Upper Creek	Supplemental	T-OCA-13-OB1R	09/30/03	6–12	9.2
Upper Creek	Supplemental	T-OCA-14-C1L	09/30/03	6–12	94.2
Upper Creek	Supplemental	T-OCA-14-C1R	09/30/03	6–12	1,960
Upper Creek	Supplemental	T-OCA-14-C2L	09/30/03	6–12	340
Upper Creek	Supplemental	T-OCA-14-C2R	09/30/03	6–12	806
Upper Creek	Supplemental	T-OCA-14-OB1R	09/30/03	6–12	14
Upper Creek	Supplemental	T-OCA-15-B	09/30/03	6–12	116
Upper Creek	Supplemental	T-OCA-15-C1L	09/30/03	6–12	122
Upper Creek	Supplemental	T-OCA-15-C1R	09/30/03	6–12	8.1
Upper Creek	Supplemental	T-OCA-15-C2L	09/30/03	6–12	2,280
Upper Creek	Supplemental	T-OCA-15-C2R	09/30/03	6–12	27.5
Upper Creek	Supplemental	T-OCA-15-OB1L	09/30/03	6–12	24.4
Upper Creek	Supplemental	T-OCA-15-OB1R	09/30/03	6–12	14.8
Upper Creek	Supplemental	T-OCA-16-B	09/30/03	6–12	444
Upper Creek	Supplemental	T-OCA-16-C1L	09/30/03	6–12	1,580
Upper Creek	Supplemental	T-OCA-16-C1R	09/30/03	6–12	92.9
Upper Creek	Supplemental	T-OCA-16-C2L	09/30/03	6–12	843
Upper Creek	Supplemental	T-OCA-16-C2R	09/30/03	6–12	15
Upper Creek	Supplemental	T-OCA-16-OB1L	09/30/03	6–12	16.9
Upper Creek	Supplemental	T-OCA-16-OB1R	09/30/03	6–12	19.4
Upper Creek	Supplemental	T-OCA-7-B	10/02/03	6–12	59.3
Upper Creek	Supplemental	T-OCA-7-C1L	10/02/03	6–12	22.1
Upper Creek	Supplemental	T-OCA-7-C1R	10/02/03	6–12	20.5
Upper Creek	Supplemental	T-OCA-7-C2L	10/02/03	6–12	215
Upper Creek	Supplemental	T-OCA-7-C2R	10/02/03	6–12	87.5
Upper Creek	Supplemental	T-OCA-7-OB1R	10/02/03	6–12	39.4
Upper Creek	Supplemental	T-OCA-8-B	10/01/03	6–12	40.7 *J*
Upper Creek	Supplemental	T-OCA-8-C1L	10/01/03	6–12	12.9 *J*
Upper Creek	Supplemental	T-OCA-8-C1R	10/01/03	6–12	8.9 *J*
Upper Creek	Supplemental	T-OCA-8-C2L	10/01/03	6–12	9.4 *J*
Upper Creek	Supplemental	T-OCA-8-C2R	10/01/03	6–12	15.2 *J*
Upper Creek	Supplemental	T-OCA-8-OB1R	10/01/03	6–12	10.8

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Upper Creek	Supplemental	T-OCA-9-B	10/01/03	6–12	103
Upper Creek	Supplemental	T-OCA-9-C1L	10/01/03	6–12	10.5
Upper Creek	Supplemental	T-OCA-9-C1R	10/01/03	6–12	99.9
Upper Creek	Supplemental	T-OCA-9-C2L	10/01/03	6–12	27.3
Upper Creek	Supplemental	T-OCA-9-C2R	10/01/03	6–12	142
Upper Creek	Supplemental	T-OCA-9-OB1R	10/01/03	6–12	18.9
Upper Creek	Supplemental	T-OCA-13-C1R	09/30/03	12–14	7.9
Upper Creek	Supplemental	T-OCA-10-B	10/01/03	12–18	391
Upper Creek	Supplemental	T-OCA-10-C1L	10/01/03	12–18	18.8
Upper Creek	Supplemental	T-OCA-10-C1R	10/01/03	12–18	18.6
Upper Creek	Supplemental	T-OCA-10-C2L	10/01/03	12–18	23.4
Upper Creek	Supplemental	T-OCA-10-C2R	10/01/03	12–18	8.9
Upper Creek	Supplemental	T-OCA-11-C1L	10/01/03	12–18	14.5
Upper Creek	Supplemental	T-OCA-11-C1R	10/01/03	12–18	10.9
Upper Creek	Supplemental	T-OCA-11-C2L	10/01/03	12–18	20.5
Upper Creek	Supplemental	T-OCA-11-C2R	10/01/03	12–18	13.3
Upper Creek	Supplemental	T-OCA-12-B	10/01/03	12–18	86.3
Upper Creek	Supplemental	T-OCA-12-C1L	10/01/03	12–18	17.9
Upper Creek	Supplemental	T-OCA-12-C1R	10/01/03	12–18	259
Upper Creek	Supplemental	T-OCA-12-C2L	10/01/03	12–18	629
Upper Creek	Supplemental	T-OCA-12-C2R	10/01/03	12–18	6
Upper Creek	Supplemental	T-OCA-12-OB1L	10/01/03	12–18	6.4
Upper Creek	Supplemental	T-OCA-13-B	09/30/03	12–18	4.3
Upper Creek	Supplemental	T-OCA-13-C2L	09/30/03	12–18	331
Upper Creek	Supplemental	T-OCA-13-C2R	09/30/03	12–18	5.9
Upper Creek	Supplemental	T-OCA-13-OB1L	09/30/03	12–18	23.8
Upper Creek	Supplemental	T-OCA-14-C1L	09/30/03	12–18	23.7
Upper Creek	Supplemental	T-OCA-14-C2L	09/30/03	12–18	212
Upper Creek	Supplemental	T-OCA-14-C2R	09/30/03	12–18	75.9
Upper Creek	Supplemental	T-OCA-15-B	09/30/03	12–18	80.4
Upper Creek	Supplemental	T-OCA-15-C1L	09/30/03	12–18	13.2
Upper Creek	Supplemental	T-OCA-15-C1R	09/30/03	12–18	19.4
Upper Creek	Supplemental	T-OCA-15-C2L	09/30/03	12–18	2,400
Upper Creek	Supplemental	T-OCA-15-C2R	09/30/03	12–18	9.5
Upper Creek	Supplemental	T-OCA-16-B	09/30/03	12–18	1,670
Upper Creek	Supplemental	T-OCA-16-C1L	09/30/03	12–18	89.7
Upper Creek	Supplemental	T-OCA-16-C1R	09/30/03	12–18	7.3
Upper Creek	Supplemental	T-OCA-16-C2L	09/30/03	12–18	22.1
Upper Creek	Supplemental	T-OCA-16-C2R	09/30/03	12–18	8.7
Upper Creek	Supplemental	T-OCA-7-B	10/02/03	12–18	133
Upper Creek	Supplemental	T-OCA-7-C1L	10/02/03	12–18	412
Upper Creek	Supplemental	T-OCA-7-C1R	10/02/03	12–18	9.1
Upper Creek	Supplemental	T-OCA-7-C2L	10/02/03	12–18	17.9
Upper Creek	Supplemental	T-OCA-7-C2R	10/02/03	12–18	88.7
Upper Creek	Supplemental	T-OCA-8-B	10/01/03	12–18	23.2 *J*
Upper Creek	Supplemental	T-OCA-8-C1L	10/01/03	12–18	11.5 *J*
Upper Creek	Supplemental	T-OCA-8-C1R	10/01/03	12–18	10.2 *J*
Upper Creek	Supplemental	T-OCA-8-C2L	10/01/03	12–18	12.9 *J*
Upper Creek	Supplemental	T-OCA-8-C2R	10/01/03	12–18	11 *J*
Upper Creek	Supplemental	T-OCA-9-B	10/01/03	12–18	194
Upper Creek	Supplemental	T-OCA-9-C1L	10/01/03	12–18	4.8
Upper Creek	Supplemental	T-OCA-9-C1R	10/01/03	12–18	11.6
Upper Creek	Supplemental	T-OCA-9-C2L	10/01/03	12–18	11.1
Upper Creek	Supplemental	T-OCA-9-C2R	10/01/03	12–18	375
Upper Creek	Supplemental	T-OCA-12-C2L	10/01/03	18–20	109
Upper Creek	Supplemental	T-OCA-15-C2L	09/30/03	18–24	3,780
Upper Creek	Supplemental	T-OCA-16-B	09/30/03	18–24	60.5

Table F-15F. (cont.)

Area	Reference	Station	Sampling Date	Depth Range (in.)	Lead (mg/kg)
Upper Creek	Supplemental	T-OCA-16-C1L	09/30/03	18–24	17.7
Upper Creek	Supplemental	T-OCA-16-C2L	09/30/03	18–24	31.1
Upper Creek	Supplemental	T-OCA-15-C2L	09/30/03	24–30	3,520
Upper Creek	Supplemental	T-OCA-16-C1L	09/30/03	24–30	15.7
Upper Creek	Supplemental	T-OCA-16-C2L	09/30/03	24–30	10.7
Deltaic		Number of samples			348
All Data		Maximum detected value			15,800
(0–90")		Arithmetic mean			1,396
Deltaic		Number of samples			99
Surface		Maximum detected value			12,100
(0–6")		Arithmetic mean			2,221
Deltaic		Number of samples			84
Subsurface		Maximum detected value			15,800
(6–12")		Arithmetic mean			2,080
Deltaic		Number of samples			65
Subsurface		Maximum detected value			10,800
(12–18")		Arithmetic mean			848
Deltaic		Number of samples			52
Subsurface		Maximum detected value			13,300
(18–24")		Arithmetic mean			630
Non-Deltaic		Number of samples			707
All Data		Maximum detected value			2,760
(0–36")		Arithmetic mean			116
Non-Deltaic		Number of samples			244
Surface		Maximum detected value			728
(0–6")		Arithmetic mean			127
Non-Deltaic		Number of samples			219
Subsurface		Maximum detected value			2,730
(6–12")		Arithmetic mean			135
Non-Deltaic		Number of samples			197
Subsurface		Maximum detected value			2,760
(12–18")		Arithmetic mean			85.6
Non-Deltaic		Number of samples			25
Subsurface		Maximum detected value			538
(18–24")		Arithmetic mean			134
Upper Creek		Number of samples			199
All Data		Maximum detected value			7,820
(0–30")		Arithmetic mean			563
Upper Creek		Number of samples			74
Surface		Maximum detected value			7,820
(0–6")		Arithmetic mean			884
Upper Creek		Number of samples			69
Subsurface		Maximum detected value			5,270
(6–12")		Arithmetic mean			453
Upper Creek		Number of samples			48
Subsurface		Maximum detected value			2,400
(12–18")		Arithmetic mean			164
Upper Creek		Number of samples			5
Subsurface		Maximum detected value			3,780
(18–24")		Arithmetic mean			800

Qualifier: *J* - estimated value

Table F-16. Carcinogenic risk estimates and noncancer hazard indices for chemicals of interest at the Circleville site
Onsite worker (adult)

Area/Chemical	Exposure Point Concentration[a] (mg/kg)	Carcinogenic Effects					Noncarcinogenic Effects				
		CDI (mg/kg-day)		Oral CSF[b]	Risk		CDI (mg/kg-day)		Oral RfD[b]	Hazard Quotient	
		Monthly	Weekly	(mg/kg-day)$^{-1}$	Monthly	Weekly	Monthly	Weekly	(mg/kg-day)	Monthly	Weekly
EAST FENCED AREA SLUDGE											
Inorganic Compounds											
Antimony	68	5.7E-07	2.4E-06	ND	--	--	1.6E-06	6.7E-06	0.0004	0.004	0.02
Arsenic	177	1.5E-06	6.2E-06	1.5	2E-06	9E-06	4.2E-06	1.7E-05	0.0003	0.01	0.06
Total Cancer Risk:					**2E-06**	**9E-06**					
Total Hazard Index:										**0.02**	**0.07**
EAST SWALE											
Inorganic Compounds											
Antimony	165	1.4E-06	5.8E-06	ND	--	--	3.9E-06	1.6E-05	0.0004	0.01	0.04
Arsenic	117	9.8E-07	4.1E-06	1.5	1E-06	6E-06	2.7E-06	1.1E-05	0.0003	0.009	0.04
Total Cancer Risk:					**1E-06**	**6E-06**					
Total Hazard Index:										**0.02**	**0.08**
SOUTH DITCH											
Inorganic Compounds											
Antimony	51.5	4.3E-07	1.8E-06	ND	--	--	1.2E-06	5.0E-06	0.0004	0.003	0.01
Arsenic	102	8.6E-07	3.6E-06	1.5	1E-06	5E-06	2.4E-06	1.0E-05	0.0003	0.008	0.03
Organic Compounds (cPAH)											
Benz[a]anthracene	2.7	2.3E-08	9.4E-08	0.73	2E-08	7E-08	6.3E-08	2.6E-07	ND	--	--
Benzo[a]pyrene	7.2	6.0E-08	2.5E-07	7.3	4E-07	2E-06	1.7E-07	7.0E-07	ND	--	--
Benzo[b]fluoranthene	11	9.2E-08	3.8E-07	0.73	7E-08	3E-07	2.6E-07	1.1E-06	ND	--	--
Dibenz[ah]anthracene	0.26	2.2E-09	9.1E-09	7.3	2E-08	7E-08	6.1E-09	2.5E-08	ND	--	--
Indeno[1,2,3-cd]pyrene	1.9	1.6E-08	6.6E-08	0.73	1E-08	5E-08	4.5E-08	1.9E-07	ND	--	--
Total Cancer Risk:					**2E-06**	**8E-06**					
Total Hazard Index:										**0.01**	**0.05**

Note: -- - not applicable
ND - not determined by EPA
CDI - chronic daily intake
CSF - carcinogenic slope factor
RfD - reference dose

Equations:
Cancer: Risk = CDI × CSF
Noncancer: Hazard Quotient = CDI / RfD

[a] Values reflect the upper 95 percent confidence limit or maximum.
[b] Toxicity values obtained from EPA Integrated Risk Information System (IRIS) (U.S. EPA 2009).

Table F-17. Carcinogenic risk estimates and noncancer hazard indices for chemicals of interest at the Circleville site Recreational user/trespasser (older child)

	Exposure Point Concentration[a]	Carcinogenic Effects					Noncarcinogenic Effects				
		CDI (mg/kg-day)		Oral CSF[b]	Risk		CDI (mg/kg-day)		Oral RfD[b]	Hazard Quotient	
Area/Chemical	(mg/kg)	Monthly	Weekly	(mg/kg-day)$^{-1}$	Monthly	Weekly	Monthly	Weekly	(mg/kg-day)	Monthly	Weekly
SOUTH DITCH											
Inorganic Compounds											
Antimony	51.5	2.2E-07	9.3E-07	ND	--	--	1.7E-06	7.2E-06	0.0004	0.004	0.02
Arsenic	102	4.4E-07	1.8E-06	1.5	7E-07	3E-06	3.4E-06	1.4E-05	0.0003	0.01	0.05
Organic Compounds (cPAH)											
Benz[a]anthracene	2.7	1.2E-08	4.9E-08	0.73	9E-09	4E-08	9.1E-08	3.8E-07	ND	--	--
Benzo[a]pyrene	7.2	3.1E-08	1.3E-07	7.3	2E-07	9E-07	2.4E-07	1.0E-06	ND	--	--
Benzo[b]fluoranthene	11	4.7E-08	2.0E-07	0.73	3E-08	1E-07	3.7E-07	1.5E-06	ND	--	--
Dibenz[ah]anthracene	0.26	1.1E-09	4.7E-09	7.3	8E-09	3E-08	8.7E-09	3.6E-08	ND	--	--
Indeno[1,2,3-cd]pyrene	1.9	8.2E-09	3.4E-08	0.73	6E-09	2E-08	6.4E-08	2.7E-07	ND	--	--
Total Cancer Risk:					**9E-07**	**4E-06**					
Total Hazard Index:										**0.02**	**0.07**
OFFSITE CREEK AREA											
Inorganic Compounds											
Antimony	34.0	1.5E-07	6.1E-07	ND	--	--	1.1E-06	4.8E-06	0.0004	0.003	0.01
Arsenic	67.9	2.9E-07	1.2E-06	1.5	4E-07	2E-06	2.3E-06	9.5E-06	0.0003	0.008	0.03
Total Cancer Risk:					**4E-07**	**2E-06**					
Total Hazard Index:										**0.01**	**0.04**

Note: -- - not applicable
ND - not determined by EPA
CDI - chronic daily intake
CSF - carcinogenic slope factor
RfD - reference dose

Equations:
Cancer: Risk = CDI × CSF
Noncancer: Hazard Quotient = CDI / RfD

[a] Values reflect the upper 95 percent confidence limit or maximum.
[b] Toxicity values obtained from EPA Integrated Risk Information System (IRIS) (U.S. EPA 2009).