Appendix B

Core Logs

APPENDIX B

Core Logs

This appendix contains an electronic copy of core logs for each of the Bolsa Chica Confirmatory sample locations. The core logs are divided into three separate folders: Random locations sampled during the ERA and Focused Sampling (as well as selected focused sites sampled during 1998 and 1999); 2) CAR Sites; and 3) Partially Characterized Sites.

Random cores are sequenced numerically within each cell, and cells are in numerical order (i.e., core logs are DCRD-01-01 to DCRD-67-01). Core logs for Random locations in Inner Bolsa Bay and Outer Bolsa Bay are sequenced numerically within each of those areas. Core logs for selected Focused sites are presented in alphabetical order (i.e., AOT-04D to WH-03). CAR sites are sequenced numerically. Partially Characterized Sites are presented in alphabetical order.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-08-1

Location: Cells 55, 67

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1452566.33 feet
Drilling Method:	Vibracore	Northing:	564137.12 feet
Sampling Method:	Extraction	Ground Elevation:	3.29 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, dense, moist, dark brown. Sand fine to medium, micaceous.*
						SP		*SAND, loose, moist, tan, fine to medium, micaceous.*
						CL		*CLAY, soft, wet, brown. Some sand, very fine, micaceous. Slight H2S odor, some lenses of decomposed organic material. Color transition to dark grey at 1.7'.*
		0.0 ppm		Suite B-mid				
0								
	5	0.0 ppm		Suite B-bottom				
						SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous.*
-5								

Comments:

1.65' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-08-2

Location: Cells 55, 67

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1452105.83 feet
Drilling Method:	Vibracore	Northing:	564010.18 feet
Sampling Method:	Extraction	Ground Elevation:	19.29 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, moist, dark brown, fine and micaceous. Top 5" has abundant organics (roots). Color transition to light brown at 5".*
		0.0 ppm		Suite B-mid		SW		*SAND, loose, dry, tan, fine and micaceous. Some silt. Decrease in silt percentage at 3.5', color changes to light tan.*
15	5	0.0 ppm		Suite B-bottom				

Comments:

2.25' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-08-3

Location: Cells 55, 67

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1452280.18 feet
Drilling Method:	Vibracore	Northing:	564061.23 feet
Sampling Method:	Extraction	Ground Elevation:	4.62 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, dense, moist, brown, fine to medium. Top 2" loose, abundant organic material.*
						SC		*CLAYEY SAND, soft, wet, brown, fine, micaceous, medium plasticity.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose, wet, dark grey, fine to medium, micaceous.*
0	5	0.0 ppm		Suite B-bottom		SW		*SAND, loose, wet, dark grey, fine, micaceous. Trace silt. Color transition to tan at 5.5'.*

Comments:

2.1' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-08-4

Location: Cells 55, 67

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1452597.76 feet
Drilling Method:	Vibracore	Northing:	564000.17 feet
Sampling Method:	Extraction	Ground Elevation:	3.77 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		SILTY CLAYEY SAND, moderate density, moist, dark brown. Sand fine to medium, micaceous. Abundant root material.
						SP		SAND, loose, wet, tan, fine to medium, micaceous. Some silt. Some lenses of oxidation.
		0.0 ppm		Suite B-mid		CL		CLAY, soft, wet, dark grey. Some sand, very fine, micaceous. Some lenses of organic material. Slight H2S odor. Slight increase in sand percentage to depth.
0								
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-09-1

Location: Cells 53, 55

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454249.64 feet
Drilling Method:	Vibracore	Northing:	564571.01 feet
Sampling Method:	Extraction	Ground Elevation:	0.86 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SAND, loose, moist, tan, fine to coarse, micaceous. Some gravel top 2". Abundant organics, dark brown (fill).
0						CL		CLAY, very stiff, moist, olive grey. Some sand, very fine, micaceous. High plasticity.
						SP		SAND, loose, moist, tan, fine to coarse, micaceous. Some gravel (fill).
		0.0 ppm		Suite B-mid				
						OH		ORAGANIC CLAY, moderately stiff, wet, mottled dark olive grey/black. Abundant decomposed roots and organic material. Medium plasticity. Some sand, very fine, micaceous.
	5							
		0.0 ppm		Suite B-bottom				
-5						CL		SANDY CLAY, soft, wet, dark olive grey, very fine, micaceous.
						SC		CLAYEY SAND, loose, wet, dark olive grey, very fine, micaceous. Low plasticity.

Comments:

1.9' and 3.05' pre-bores

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-09-2

Location: Cells 53, 55

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454162.30 feet
Drilling Method:	Vibracore	Northing:	564859.92 feet
Sampling Method:	Extraction	Ground Elevation:	-0.37 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, soft, wet, dark brown. Some sand, fine to medium, micaceous. Abundant decomposed roots, slight hydrocarbon odor, black. Low plasticity.*
-5	5	0.0 ppm		Suite B-mid		SC		*SILTY CLAYEY SAND, soft, wet, dark olive grey, very fine, micaceous. Slight increase in sand percentage to 4.9'. Low to medium plasticity.*
		0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-09-3

Location: Cells 53, 55

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454123.86 feet
Drilling Method:	Vibracore	Northing:	564710.18 feet
Sampling Method:	Extraction	Ground Elevation:	0.98 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*Asphalt, top 0.2'. Petroleum odor. Petroleum/root conglomeration.*
0						OL		*ORGANIC SILTY CLAY, moderate density, moist, dark brown. Some sand, very fine, micaceous. Low plasticity.*
		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, soft, wet, dark olive grey. Some sand, fine, micaceous, medium plasticity. Some roots, lenses of decomposed roots.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous.*
-5								

Comments:

1.0' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-10-1

Location: Cell 53

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454376.03 feet
Drilling Method:	Vibracore	Northing:	564669.14 feet
Sampling Method:	Extraction	Ground Elevation:	-1.12 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, soft, wet, dark brown. Some sand, fine, micaceous. Low to moderate plasticity.*
						CL		*SILTY CLAY, soft, wet, dark olive grey. Some sand, very fine, micaceous. Medium plasticity. Some organic material. Slight increase in sand percentage to 2.1'.*
		0.0 ppm		Suite B-mid		SM		*SAND, loose, wet, grey, fine, micaceous, trace silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-10-2

Location: Cell 53

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454310.56 feet
Drilling Method:	Vibracore	Northing:	564703.89 feet
Sampling Method:	Extraction	Ground Elevation:	0.01 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, soft, wet, dark brown. Trace sand, very fine, micaceous. Abundant decomposed rootlets.*
						CL		*SANDY CLAY, soft, wet, dark olive grey, fine, micaceous. Lenses of decomposed rootlets.*
		0.0 ppm		Suite B-mid		SM		*SAND, loose, wet, dark grey, fine, micaceous, some silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-10-3

Location: Cell 53

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1461198.67 feet
Drilling Method:	Vibracore	Northing:	560500.38 feet
Sampling Method:	Extraction	Ground Elevation:	2.12 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, soft, wet, dark brown. Trace sand, very fine, micaceous. Abundant decomposed root material. Low plasticity.*
0		0.0 ppm		Suite B-mid		SC		*SILTY CLAYEY SAND, loose, wet, dark olive grey, very fine, micaceous. Low plasticity. Some rootlets and lenses of decomposed roots.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose, wet, dark grey, very fine, micaceous. Some stratified layers of silt from 4.0' to 5.4'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-14-1

Location: Cells 58, 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1453917.17 feet
Drilling Method:	Vibracore	Northing:	563938.80 feet
Sampling Method:	Extraction	Ground Elevation:	3.48 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		CLAYEY SAND, dark brown, fine to coarse sand, dry, loose, root material, low plasticity. Increasing clay content with depth.
						SW		SAND, light brown,fine to coarse, dry, loose.
						CL		SANDY CLAY, dark brown, very stiff, fine to coarse sand, moderate to high plasticity, moist.
						CH		CLAY, brown, very stiff, high plasticity, moist.
		0.0 ppm		Suite B-mid				SAND, light brown, wet, fine to medium, some yellow mottling, very dense.
0								
						SP		As above, dark grey, no mottling, wet.
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

2.2' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-14-2

Location: Cells 58, 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454160.75 feet
Drilling Method:	Vibracore	Northing:	563930.79 feet
Sampling Method:	Extraction	Ground Elevation:	2.46 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, moist, fine to medium sand 40%, moderate plasticity, root material.*
0		0.0 ppm		Suite B-mid		SP		*SAND, brown with orange mottling, very dense, very fine sand, wet.*
	5	0.0 ppm		Suite B-bottom				*SAND, dark grey, very dense, very fine to fine sand.*
-5								

Comments:

2.5' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-14-3

Location: Cells 58, 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454136.59 feet
Drilling Method:	Vibracore	Northing:	563831.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.11 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SP		SAND, dark brown, very fine to fine, wet, very dense, orange mottling.
		0.0 ppm		Suite B-mid				SAND, dark grey, as above.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-15-1

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454867.12 feet
Drilling Method:	Vibracore	Northing:	563968.65 feet
Sampling Method:	Extraction	Ground Elevation:	1.85 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, stiff, moist, fine to medium sand, root material.*
						SP		*SAND, brown with orange mottling, very fine sand, micaceous, nodules present, moist, dense, grades into sandy clay. A finger of clay about 1" thick runs to 4'.*
0		0.0 ppm		Suite B-mid		CL		*SANDY CLAY, dark grey, moist, moderate plasticity, soft, sand is up to 30%, very fine.*
						SM		*SILTY SAND, dark grey, moist, low plasticity, cohesive, very fine sand, micaceous, shell hash, some clay.*
	5	0.0 ppm		Suite B-bottom		SP		*SAND, dark grey, moist, very fine sand, increase in shells, micaceous, non-plastic.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-15-2

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454882.31 feet
Drilling Method:	Vibracore	Northing:	563895.95 feet
Sampling Method:	Extraction	Ground Elevation:	1.55 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		SANDY CLAY, dark brown, moist, stiff, moderate to high plasticity, 20% fine sand.
						SP		SAND, brown with orange mottling, moderate density, very moist, very fine to fine sand. Finger of clayey silt from 1.6' to 3'.
0		0.0 ppm		Suite B-mid				
						ML		CLAYEY SILT, dark grey, moist to wet, low to moderate plasticity, some shell hash, soft.
	5	0.0 ppm		Suite B-bottom		SP		SAND, dark grey, very fine sand, moist, non-plastic, shell hash, dense.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-16-1

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455303.00 feet
Drilling Method:	Vibracore	Northing:	564045.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.18 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*CLAYEY SAND, brown, fine to coarse sand, up to 30% clay, very dense, moist, cohesive.*
0								*Dark brown layer with shells*
						SC		*CLAYEY SAND, brown, fine to medium sand, some layers of orange clayey sand, very dense, moist, cohesive.*
		0.0 ppm		Suite B-mid		SW		*SAND, light brown, loose, wet, fine to coarse sand.*
						CL		*SILTY CLAY, brown, grades to grey, soft, moderate plasticity, orange mottling, micaceous, wet.*
	5	0.0 ppm		Suite B-bottom		SM		*SANDY SILT, grey with orange mottling, micaceous, dense, wet, low plasticity.*
-5						SP		*SAND, grey, very fine sand, very dense, moist.*

Comments:

1.55' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-16-2

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455370.00 feet
Drilling Method:	Vibracore	Northing:	564085.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.94 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		CLAYEY SAND, dark brown, loose, damp, gravel up to 2", root material.
0						SW		SAND, light brown, fine to coarse sand, 20% fine sand, 20% medium sand, 50% coarse sand, 10% gravel up to 1". Loose, damp, some shell material.
		0.0 ppm		Suite B-mid				
	5					CH		CLAY, dark grey with brown and black mottling, wet, highly plastic.
-5		0.0 ppm		Suite B-bottom		SM		SILTY SAND, dark grey, moist, dense, micaceous, some organic material.

Comments:

2.5' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-17-1

Location: Cell 60

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1453480.34 feet
Drilling Method:	Vibracore	Northing:	562356.29 feet
Sampling Method:	Extraction	Ground Elevation:	4.53 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose, moist to wet, tan, fine to medium grain, micaceous. Abundant oxidized root channels from 1.9' to 2.4'. Color transition to dark grey at 2.4'.*
		0.0 ppm		Suite B-mid				
0						SM		*SILTY SAND, loose to moderately dense, dark grey, fine, micaceous.*
	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderately dense, wet, dark grey, medium, micaceous.*

Comments:

2.45' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-17-2

Location: Cell 60

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1453520.93 feet
Drilling Method:	Vibracore	Northing:	562396.61 feet
Sampling Method:	Extraction	Ground Elevation:	6.33 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		*SAND, loose, dry, light tan, fine, micaceous. Top 2" an ice plant mat. Some roots to 0.4'. Gradation change to medium grain from 1.9' to 4.7'.*
5		0.0 ppm		Suite B-mid				
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, medium brown, fine, micaceous. Color transition to dark grey at 4.9'.*
0								

Comments:

2.8' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-18-1

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455111.35 feet
Drilling Method:	Vibracore	Northing:	563411.24 feet
Sampling Method:	Extraction	Ground Elevation:	1.89 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, moist, loose, moderate plasticity, fine to medium sand 40%, root material.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, brown with orange mottling, moist, very dense, grades to sand at ~1.5'.*
	5	0.0 ppm		Suite B-bottom		CL		*SILTY CLAY, dark grey, wet, very soft, moderately plastic, micaceous, decreasing silt content downward, grades to clay at 5'-6'. Shell hash at 4.5'.*
-5						SP		*SAND, dark grey, wet, very fine sand, very dense, shell hash, micaceous.*

Comments:

1.65' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-18-2

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455004.05 feet
Drilling Method:	Vibracore	Northing:	563455.88 feet
Sampling Method:	Extraction	Ground Elevation:	3.03 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, dry to moist, medium to coarse sand, moderate to high plasticity, stiff.*
		0.0 ppm		Suite B-mid		SP		*SAND, light brown with orange mottling, moist, very dense, very fine sand.*
0								*As above, dark grey to bottom.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

1.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-19-1

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455078.63 feet
Drilling Method:	Vibracore	Northing:	563667.07 feet
Sampling Method:	Extraction	Ground Elevation:	1.88 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		GC		*CLAYEY SAND AND GRAVEL, dark brown, moist, 40% clay, gravel up to 2", rounded.*
0						CL		*SANDY CLAY, brown with orange mottling, grades to grey at 2'. Very fine sand 40%, low plasticity, decrease in sand to 10% at 2', soft, wet.*
		0.0 ppm		Suite B-mid				*SAND, grey, grades to brown, very fine sand, micaceous, very dense, wet.*
	5					SP		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-19-2

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455025.21 feet
Drilling Method:		Northing:	563573.16 feet
Sampling Method:	Extraction	Ground Elevation:	2.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		SANDY CLAY, dark brown, stiff, moist, very plastic, fine grained sand 20%.
								SAND, brown with orange mottling, fine to medium sand, dense, moist.Finger of clayey silt 1.5' to 3.25'.
						SP		
0		0.0 ppm		Suite B-mid				
						ML		CLAYEY SILT, dark grey, soft, some mottling, moderate plasticity, micaceous.
								SAND, dark grey, very fine to fine sand, very dense, micaceous.
	5					SP		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-20-1

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455379.00 feet
Drilling Method:	Vibracore	Northing:	563663.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.17 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		SILTY SAND, brown, fine to coarse sand, loose, moist.
0						SP		SAND, light brown, fine to medium sand 90%, 10% coarse sand with some gravel, damp, loose.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, brown, very fine sand, dense, moist, some orange mottling.
						SP		SAND, light brown, very fine to fine sand, dense, mottled orange, damp.
	5					SM		SILTY SAND, as above.
		0.0 ppm		Suite B-bottom		CL		SANDY CLAY, dark grey, mottled with dark brown, moderate plasticity, wet, fine sand 20%, stiff.
-5						SM		SILTY SAND, dark grey, micaceous, wet, loose.

Comments:

1.9' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-20-2

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455302.00 feet
Drilling Method:	Vibracore	Northing:	563438.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.96 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		CLAYEY SAND, dark brown, damp, loose, fine to medium sand, clay 30%, root material.
0								SAND, medium brown, fine to medium sand, loose, dry, hardened tar, some clay.
								SAND, light brown, fine to medium, dense, shell hash, damp.
		0.0 ppm		Suite B-mid		SP		
						CH		CLAY, grey, very stiff, high plasticity, moist.
	5					SP		SAND, brown, wet, medium to coarse with fine gravel, shell hash, dense.
						CL		SILTY CLAY, dark grey, wet, soft, moderate plasticity.
		0.0 ppm		Suite B-bottom		SP		SAND, dark grey, wet, dense, shell hash, fine to very fine sand.
-5								

Comments:

1.9' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-20-3

Location: Cell 58

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455275.80 feet
Drilling Method:	Vibracore	Northing:	563705.75 feet
Sampling Method:	Extraction	Ground Elevation:	4.92 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dark brown, moist, fine to medium sand, clay 20%, loose, root material.*
						SW		*SAND, brown, fine to coarse sand, some fine gravel, moderately loose, damp, some staining.*
						SP		*SAND, light brown, fine to medium sand, 10% coarse sand to fine gravel, shell hash, damp, loose.*
		0.0 ppm		Suite B-mid		CH		*CLAY, light brown, very stiff, highly plastic, damp.*
						SP		*SAND, as above.*
						SM		*SILTY SAND, dark brown, moist, very fine sand, dense.*
						SP		*SAND, as above.*
0	5					CH		*CLAY, dark brown, grades to brown, orange and black mottling, stiff, high plasticity, moist.*
		0.0 ppm		Suite B-bottom		ML		*CLAYEY SILT, brown with orange mottling, micaceous, low plasticity, damp, soft.*
						SM		*SILTY SAND, light brown with yellow and orange mottling, moderate density, damp, very fine sand.*

Comments:

2.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-21-1

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455785.84 feet
Drilling Method:	Vibracore	Northing:	564217.16 feet
Sampling Method:	Extraction	Ground Elevation:	0.83 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dense, moist, dark brown, fine to medium, micaceous.* *Top 1" very dark brown, abundant organics.*
0						CL		*CLAY, stiff, moist, dark brown, trace sand, very fine, micaceous. High plasticity.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderately dense, wet, dark olive grey, fine, micaceous. Some lenses of oxidation.*
	5					SW		*SAND, loose, wet, light tan, fine, micaceous, trace silt.* *Color transition to grey at 4.9'.*
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-21-2

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455774.16 feet
Drilling Method:	Vibracore	Northing:	564203.55 feet
Sampling Method:	Extraction	Ground Elevation:	1.18 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SAND, loose, moist, dark brown, fine to coarse, micaceous.
0						CL		CLAY, very stiff, moist, dark brown, trace sand, micaceous. Medium plasticity.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, loose to moderately dense, olive grey, fine, micaceous. Some lenses of oxidation.
						CL		SANDY CLAY, soft, wet, dark olive grey, very fine, micaceous. Medium plasticity. Some oxidized root channels..
						SM		SILTY SAND, same as above.
	5	0.0 ppm		Suite B-bottom		SW		SAND, loose, wet, light tan, fine, micaceous, trace silt.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-22-1

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455881.00 feet
Drilling Method:	Vibracore	Northing:	564070.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown to brown, organic material in the top 6", orange mottling at 10-12", stiff, moderate to high plasticity, damp.*
								SILTY CLAY, brown, soft, wet, moderate plasticity.
						CH		*CLAY, brown, stiff, wet, high plasticity, orange mottling.*
						CL		*SILTY CLAY, as above.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, brown, orange mottling, moist, micaceous, very dense, very fine to fine sand, grades to grey with no mottling.*
						CL		*SILTY CLAY, brown, very soft, wet, moderate plasticity.*
-5	5	0.0 ppm		Suite B-bottom		SP		*SAND, dark grey, wet, dense, very fine to fine sand.*

Comments:

1.1' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-22-2

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455808.00 feet
Drilling Method:	Vibracore	Northing:	564058.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, brown, fine to medium sand, moderate plasticity, soft, dry.*
						CH		*CLAY, dark brown, very stiff, high plasticity, very mottled with orange, damp, root material throughout.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, light brown, mottled orange, micaceous, very fine to fine sand, dense, moist, low plasticity.*
	5					SM		*SILTY SAND, brown, mottled orange, micaceous, very fine to fine sand, very dense, moist, non-plastic.*
-5		0.0 ppm		Suite B-bottom				*Grades to dark grey, no mottling.*
								Interbedded with fine sand and clay, dark grey, laminations are ~0.01' thick.

Comments:

1.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-23-1

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455809.00 feet
Drilling Method:	Vibracore	Northing:	563956.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.48 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, dark brown grading to brown at 0.7', moist, stiff, moderately plastic clay, mottled orange, root material throughout, grades to sandy clay.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, brown, mottled brown, very fine sand, very dense, moist, some root material.*
						CH		*CLAY, brown, grades to dark grey at 3.5', moderately firm, wet, highly plastic. Oxidized shell layer of clams and worms at 4.25' with increased silt content.*
	5					ML		*SANDY SILT, dark grey, dense, moist, micaceous, very fine sand, low plasticity.*
-5		0.0 ppm		Suite B-bottom		SM		*SILTY SAND, dark grey, dense, moist, micaceous, very fine sand, non-plastic.*

Comments:

2' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-23-2

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/29/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1455880.00 feet
Drilling Method:	Vibracore	Northing:	563922.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.62 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILT, dark brown to black, highly organic topsoil, some small gravel, damp, loose.*
0						SW		*SAND, light brown, fine to coarse sand and gravel. Fine sand 10%, medium sand 30%, coarse sand 40%, fine gravel 20%. Gravel is smooth and well rounded, moist, dense. Gravel up to 2".*
		0.0 ppm		Suite B-mid				
						CH		*CLAY, dark brown, high plasticity, very stiff, orange mottling, discolored layer (rust) from 3.3' to 3.4', moist. Silt content increases near 4'.*
	5					SM		*SILTY SAND, brown, fine to medium sand, black mottling, dense, moist.*
-5		0.0 ppm		Suite B-bottom				

Comments:

4.55' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-24-1

Location: Cell 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455825.57 feet
Drilling Method:	Vibracore	Northing:	563632.44 feet
Sampling Method:	Extraction	Ground Elevation:	1.03 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SILTY CLAY, stiff, moist, dark brown. Some sand, very fine, micaceous. Some rootlets and oxidized root channels. Medium plasticity. Abundant organics in top 1".*
0								*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Some oxidized root channels to 4'.*
		0.0 ppm		Suite B-mid				
						SM		*Color transition to dark grey at 3.7'.*
	5							*Abundant shell fragments from 5' to 5.5'.*
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-24-2

Location: Cell 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455990.21 feet
Drilling Method:	Vibracore	Northing:	563682.51 feet
Sampling Method:	Extraction	Ground Elevation:	0.51 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0							
0		0.0 ppm		Suite C		CL		*SILTY CLAY, stiff, moist, dark brown. Some sand, fine, micaceous. Abundant roots. Medium plasticity. Abundant organics in top 1".*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Some lenses of oxidation to 5.1'.*
								Color transition to dark grey at 4.4'.
	5							
-5		0.0 ppm		Suite B-bottom				*Abundant shell fragments from 5.3' to 5.6'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-24-3

Location: Cell 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455788.37 feet
Drilling Method:	Vibracore	Northing:	563753.60 feet
Sampling Method:	Extraction	Ground Elevation:	0.62 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderately dense, dark brown, very fine, micaceous. Medium plasticity. Some organic material (rootlets).*
0								
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Some lenses of oxidation to 3.5'. Color transition to very dark grey at 3.1'.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-25-1

Location: Cell 48

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456413.00 feet
Drilling Method:	Vibracore	Northing:	563939.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.21 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SP		*SAND, fine sand, dark brown with white spotting, dry, loose, root hairs.*
								CLAYEY SILT, brown, dry, non-plastic, dense, no odor.
								SILT, dark brown with mottling, moist, non-plastic, medium dense, no odor.
		0.0 ppm		Suite B-mid				
								As above, dense.
						ML		
								CLAYEY SILT, brown, moist, low plasticity, soft.
								SILT, dark grey, wet, non-plastic, medium dense, no odor.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Core divided into 2 tubes. pre-bore 0-4.7', 2nd tube 4.7-7.2'.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-25-2

Location: Cell 48

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456410.00 feet
Drilling Method:	Vibracore	Northing:	563974.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.23 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*SILT, brown, dry, silt and silt clumps (up to 1/3"), loose, twigs and other organic matter.*
						ML		*CLAYEY SILT, dark brown, dry, non-plastic to low plasticity, stiff, mottling.*
		0.0 ppm		Suite B-mid				
						CL		*LEAN CLAY, dark grey, moist, medium plasticity, soft.*
-5	5	0.0 ppm		Suite B-bottom		ML		*SILT, dark grey, moist, non-plastic, medium stiff, trace clay.*

Comments:

Top 1.6' from hand core.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-26-1

Location: Cell 47

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457247.07 feet
Drilling Method:	Vibracore	Northing:	564217.92 feet
Sampling Method:	Extraction	Ground Elevation:	2.92 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, stiff, dry to moist, dark green, very fine, micaceous.*
						CL		*SANDY CLAY, very stiff, dry to moist, olive grey, vey fine, micaceous. High plasticity. Some oxidized root channels.*
0		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, stiff, dry to moist, brown, fine, micaceous. Some lenses of oxidation.*
						CL		*SANDY CLAY, moderately stiff to stiff, wet, very fine, micaceous, olive grey. High plasticity. Some lenses of oxidation.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderately stiff to stiff, wet, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-26-2

Location: Cell 47

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457138.64 feet
Drilling Method:	Vibracore	Northing:	564244.24 feet
Sampling Method:	Extraction	Ground Elevation:	1.05 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, very soft, wet, fine, micaceous, sticky. Some root material.*
0						CL		*SANDY CLAY, stiff, wet, olive grey, very fine, micaceous. Some lenses of oxidation.*
		0.0 ppm		Suite B-mid				*CLAYEY SAND, moderately stiff, wet, olive grey, fine, micaceous. Some lenses of oxidation.*
						SC		*Stratified layer of clay from 3.7' to 4.1' and 5.3' to 5.5'.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-27-1

Location: Cell 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455246.01 feet
Drilling Method:	Vibracore	Northing:	563181.22 feet
Sampling Method:	Extraction	Ground Elevation:	-0.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, loose, wet, dark brown, fine, micaceous, blocky.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, tan, fine, micaceous.* *Color transition to very dark grey at 2.6'.* *Some oxidized root channels to 3.4'.* *Some shell fragments from 5.9' to 6'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-27-2

Location: Cell 59

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455239.36 feet
Drilling Method:	Vibracore	Northing:	563122.19 feet
Sampling Method:	Extraction	Ground Elevation:	-1.14 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous. Strong hydrocarbon odor. Some oxidized root channels.* *Color transition to dark grey at 2'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-28-1

Location: Cell 60

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454602.00 feet
Drilling Method:	Vibracore	Northing:	562681.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.16 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dark brown, grades to brown, fine to coarse sand, dense, fines downward, root material in top 6", damp.*
0								*SAND, light brown, very dense, very fine sand, orange mottling, micaceous, damp.*
		0.0 ppm		Suite B-mid				
						SP		*Color change at 3.5'--dark grey, no mottling, shell hash in sediment*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

1.25' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-28-2

Location: Cell 60

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/1/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1454568.00 feet
Drilling Method:	Vibracore	Northing:	562682.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.35 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dark brown, medium to coarse sand, clay 40%, root material, dry.*
0						SW		*SAND, light brown, fine to coarse, some fine gravel, loose, dry.*
						CH		*CLAY, brown, stiff, moist, high plasticity.*
		0.0 ppm		Suite B-mid				*SAND, brown, moist, very fine sand, mottled black and orange, damp, very dense.*
						SP		*Grades to grey, wet, shell hash.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

1.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-29-1

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/15/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1454820.00 feet
Drilling Method:	Vibracore	Northing:	562610.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.75 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILTY SAND, dark brown, dry, dense, fine sand and silt, root hairs from 0-2".*
0						SM		*SILTY SAND, green grey, moist, fine sand and silt, medium dense.*
		0.0 ppm		Suite B-mid				*SILT, trace of fine sand, medium grey, moist, non-plastic, soft, micaceous silts.*
						MH		*As above, narrow band (1") with shells.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

0-6" sample composited with same from CAR-29-2, mid and bottom samples composited with same from CAR-29-2.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-29-2

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/15/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1454863.00 feet
Drilling Method:	Vibracore	Northing:	562582.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.66 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		CLAYEY SILT, olive grey, slightly moist, low plasticity, soft.
0						SP		SAND, fine sand with a trace of silt, medium grey, moist, medium dense, mottling throughout.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, fine sand with some silt, dark grey, moist, medium dense, well sorted.
	5							As above, with broken shells (1/8" to 1/4").
-5		0.0 ppm		Suite B-bottom				

Comments:

0-6" sample composited with same from CAR-29-1, mid and bottom samples composited wth same from CAR-29-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-30-1

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1454779.00 feet
Drilling Method:	Vibracore	Northing:	562480.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.74 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*SANDY SILT, stiff, moist, brown, low plasticity, organic rich, some glass shavings.*
0						ML		*SANDY SILT and silt with no sand in alternating layers. Stiff, moist, tan with rust mottling. Low plasticity with sand, high plasticity without sand. Sand is fine, micaceous.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tan with rust mottling from oxidation to 2.4', grey below 2.4', fine, micaceous, well sorted.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

Composited with CAR-30-2.
Duplicate on composite.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-30-2

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1454758.00 feet
Drilling Method:	Vibracore	Northing:	562451.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.73 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*SANDY SILT, dense, stiff, moist, brown, low plasticity, organic, some glass shavings.*
0						ML		*Alternating layers of SANDY SILT`and silt with no sand, stiff, moist. Low plasticity for the sandier material, high plasticity for the silt, sand is fine, micaceous, tan with rust mottling.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tan with rust mottling to 2.4', grey below 2.4'. fine, micaceous, well sorted.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

Composited with CAR-30-1.
Duplicate on bottom.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-31-1

Location: Cell 5

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	8/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454512.86 feet
Drilling Method:	Vibracore	Northing:	562235.06 feet
Sampling Method:	Extraction	Ground Elevation:	0.94 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILTY SAND, moderate density, moist to wet, olive grey with rust mottling, fine, micaceous.* *Color transition to very dark grey at 0.8'.* *Abundant shell fragments from 2.2' to 2.6' and some shell fragments from 5.4' to 5.6'.*
0								
		0.0 ppm		Suite B-mid		SM		
	5							
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-31-2

Location: Cell 5

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454363.21 feet
Drilling Method:	Vibracore	Northing:	562206.36 feet
Sampling Method:	Extraction	Ground Elevation:	1.47 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, moist to wet, dark olive grey, some rust mottling to 0.8', very fine, micaceous. Black stratified layer of petroleum from 0.2' to 0.25' and 1' to 1.1'. Strong petroleum odor. Abundant shell fragments from 0.5' to 0.8' and 2.3' to 3.9'. Color transition to dark grey at 0.8'.*
0		0.0 ppm		Suite B-mid				
	5	0.0 ppm		Suite B-bottom		SW		*SAND, loose, wet, grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-31-3

Location: Cell 5

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	8/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454445.35 feet
Drilling Method:	Vibracore	Northing:	562176.95 feet
Sampling Method:	Extraction	Ground Elevation:	-0.92 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, wet, very dark grey, fine, micaceous.* *Abundant shell fragments from 3.2' to 4.1', 5' to 5.3' and 5.6' to 6.7'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-32-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454559.93 feet
Drilling Method:	Vibracore	Northing:	561862.61 feet
Sampling Method:	Extraction	Ground Elevation:	0.49 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, very fine, micaceous.*
		0.0 ppm		Suite B-mid		SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Some silt.* *Some shell fragments from 3.9' to 4.3'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-32-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454560.16 feet
Drilling Method:	Vibracore	Northing:	561861.90 feet
Sampling Method:	Extraction	Ground Elevation:	0.32 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, dark grey, very fine, micaceous. Slight H2S odor, common organic material from 0.0 to 0.3'.*
		0.0 ppm		Suite B-mid		SW		*SAND, dense, wet, dark grey, fine, micaceous, trace of silt.*
-5	5	0.0 ppm		Suite B-bottom				*Some shell fragments from 6.3' to 6.6'.*

Comments:

Reserve CAR-32-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-32-3

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454484.02 feet
Drilling Method:	Vibracore	Northing:	561889.42 feet
Sampling Method:	Extraction	Ground Elevation:	0.31 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense, wet, dark olive grey, very fine, micaceous. Some oxidized root channels. Color transition to dark grey at 0.5'. Some shell fragments from 2.0' to 2.2'.*
		0.0 ppm		Suite B-mid		SW		*SAND, dense, wet, dark grey, fine, micaceous, trace silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-33-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454603.14 feet
Drilling Method:	Vibracore	Northing:	561910.09 feet
Sampling Method:	Extraction	Ground Elevation:	0.90 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderately dense, wet, very dark grey, very fine, micaceous. Strong H2S odor. Very soft at top 0.2'.*
0								
		0.0 ppm		Suite B-mid				*Abundant shell fragments from 2.4' to 3.1'.*
						SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous, some silt.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-33-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-33-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454658.75 feet
Drilling Method:	Vibracore	Northing:	561671.39 feet
Sampling Method:	Extraction	Ground Elevation:	0.15 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderately dense, wet, dark grey, very fine, micaceous. Strong H2S odor. Top 0.1' very soft.*
		0.0 ppm		Suite B-mid		SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous, some silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-33-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-34-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454658.87 feet
Drilling Method:	Vibracore	Northing:	561670.71 feet
Sampling Method:	Extraction	Ground Elevation:	0.01 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense, wet, very dark grey, very fine, micaceous.*
						CL		*CLAY layer from 1.2' to 1.35'.*
								SAND, dense, wet, dark grey, fine, micaceous, trace silt.
		0.0 ppm		Suite B-mid				
						SW		
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-34-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-34-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454638.34 feet
Drilling Method:	Vibracore	Northing:	561645.31 feet
Sampling Method:	Extraction	Ground Elevation:	-0.41 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, wet, very dark grey, very fine, micaceous. Lenses of soft brown clay from 1.4' to 1.65'.*
		0.0 ppm		Suite B-mid		SW		*SAND, loose to moderate density, wet, dark grey, fine, micaceous, trace silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-34-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-35-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454562.54 feet
Drilling Method:	Vibracore	Northing:	561589.07 feet
Sampling Method:	Extraction	Ground Elevation:	0.27 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, very dark grey, fine, micaceous. Strong H2S odor.*
		0.0 ppm		Suite B-mid				*SAND, loose, wet, dark grey, fine, micaceous, some silt. Silt percentage decreases with depth. Some shell fragments from 3.2' to 3.7'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-35-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-35-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454573.87 feet
Drilling Method:	Vibracore	Northing:	561570.58 feet
Sampling Method:	Extraction	Ground Elevation:	0.43 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SAND, loose, wet, dark grey, fine, micaceous, some silt. Silt percentage decrease with depth. Some shell fragments from 1.1' to 1.7' and from 2.7' to 3.5'. Strong H2S odor.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-35-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-36-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454780.81 feet
Drilling Method:	Vibracore	Northing:	561642.47 feet
Sampling Method:	Extraction	Ground Elevation:	-0.59 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SW		SAND, loose to moderately dense, moist to wet, dark grey, fine, micaceous. Strong H2S odor. Slight silt percentage decreasing with depth. Some shell fragments from 1.5' to 1.7'.
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-36-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-36-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1454782.29 feet
Drilling Method:	Vibracore	Northing:	561616.84 feet
Sampling Method:	Extraction	Ground Elevation:	0.07 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*SAND, loose, moist to wet, dark grey, fine, micaceous, some silt. Strong H2S odor. Silt percentage decreasing with depth. Shell fragments from 1.3' to 1.4'.*
		0.0 ppm		Suite B-mid		SW		
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-36-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-37-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1453879.36 feet
Drilling Method:	Vibracore	Northing:	561077.53 feet
Sampling Method:	Extraction	Ground Elevation:	3.71 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, moderately dense, moist, tan, fine to medium, micaceous.*
						SP		*SAND, loose, wet, tan, fine to medium, micaceous.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous.*
0								
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-37-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1453780.01 feet
Drilling Method:	Vibracore	Northing:	560933.59 feet
Sampling Method:	Extraction	Ground Elevation:	6.87 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose, wet, tan, fine to medium, micaceous, some silt. Some rootlets in top 4". Trace silt below. Color transition to grey.*
5		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Color transition to dark grey at 3.4'.*
	5	0.0 ppm		Suite B-bottom				
0								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-38-1

Location: Cell 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455089.96 feet
Drilling Method:	Vibracore	Northing:	561491.88 feet
Sampling Method:	Extraction	Ground Elevation:	1.43 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		SAND, loose to moderately dense, moist to wet, tan, very fine, micaceous, some silt. Some oxidized root channels to 2.1'.
0								Color transition to dark grey at 2.1'.
		0.0 ppm		Suite B-mid				Some shell fragments from 3.0' to 4.2'. Slight sand gradation change from very fine to fine from 3.8' to 4.2'.
	5	0.0 ppm		Suite B-bottom		SM		SILTY SAND, loose, moist, dark grey, very fine, micaceous. Shell fragments common from 4.5' to 7.0'.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-38-2

Location: Cell 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455073.62 feet
Drilling Method:	Vibracore	Northing:	561591.98 feet
Sampling Method:	Extraction	Ground Elevation:	1.98 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense, moist to dry, mottled, medium brown and dark brown, fine, micaceous. Dark brown band of sand from 0.5' to 0.6'.*
								Oxidized band of sand from 0.7' to 0.8'.
								SAND, loose, moist to wet, dark olive, fine, micaceous, trace of silt. Oxidized root channels to 2.5'. Color transition to dark grey from 2.5' to depth. Some shell fragments 3.4' to 3.6'.
0		0.0 ppm		Suite B-mid		SW		
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-39-1

Location: Cell 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1455140.00 feet
Drilling Method:	Vibracore	Northing:	562059.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.04 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		SANDY SILT, soft, moist, brown, medium plasticity, micaceous, medium grained sand. Considerable organic material.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, moderate density, moist to wet, grey, fine, micaceous, well sorted. Decreasing silt content below 2.5'.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-39-2

Location: Cell 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1455174.00 feet
Drilling Method:	Vibracore	Northing:	561900.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.23 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, moist, tan with rust mottling to 1.2', grey below, fine, well sorted, micaceous.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-40-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/23/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455645.14 feet
Drilling Method:	Vibracore	Northing:	562438.19 feet
Sampling Method:	Extraction	Ground Elevation:	2.27 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderately dense, moist, dark brown, very fine, micaceous, some rootlets.*
						SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some oxidized root channels to 2.5'.*
0		0.0 ppm		Suite B-mid		SC		*SANDY CLAY, soft, wet, dark grey, very fine, micaceous. Medium plasticity, sticky. Some rootlets. Strong H2S odor.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderately dense, wet, dark grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-40-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/23/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455665.43 feet
Drilling Method:	Vibracore	Northing:	562400.87 feet
Sampling Method:	Extraction	Ground Elevation:	2.15 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderately dense, moist, dark brown, fine, micaceous.*
0		0.0 ppm		Suite B-mid		CL		*SANDY CLAY, soft, wet, olive grey, very fine, micaceous. Medium plasticity. Color transition to dark grey at 1.2'. Some oxidized root channels.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous. Slight decrease in silt percentage to depth. Vertical injection of tan silty sand ~1/3 width of core from 4.2' to 5.6'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-41-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/23/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455657.98 feet
Drilling Method:	Vibracore	Northing:	562591.17 feet
Sampling Method:	Extraction	Ground Elevation:	-0.90 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some oxidized root channels to 1'. Color transition to dark grey at 1.1'. Slight decrease in silt percentage to depth.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-41-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/23/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455680.77 feet
Drilling Method:	Vibracore	Northing:	562667.72 feet
Sampling Method:	Extraction	Ground Elevation:	2.57 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderately dense, moist, dark brown, very fine, micaceous. Abundant rootlets.*
								SILTY SAND, loose to moderately dense, wet, fine, micaceous. *Some oxidized root channels to 3.4'.* *Decrease with silt percentage to depth.*
0		0.0 ppm		Suite B-mid				
						SM		*Abundant shell fragments 3' to 3.2'.* *Color transition to dark grey at 3.5'.* *Stratified layer of soft clayey sand from 3.5' to 3.7'.*
	5	0.0 ppm		Suite B-bottom				
-5								*Comments:*

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-42-1

Location: Cell 48

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Lamothe	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456150.01 feet
Drilling Method:	Vibracore	Northing:	563094.81 feet
Sampling Method:	Extraction	Ground Elevation:	0.53 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*CLAYEY SILTY SAND, loose to moderately dense, moist to dry, dark brown, very fine, micaceous, crumbly, low to medium plasticity, some rootlets. Heavy oxidation from 1.1' to 1.4'.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, tan, fine, micaceous. Slight decrease in silt percentage to depth. Some lenses of oxidation to 3.4'. Color transition to olive grey at 3.2'. Statified layer of sandy clay, soft, medium plasticity, some rootlets, from 3.3' to 3.4'. Color transition to dark grey at 4.2'. Trace rootlets from 4.2' to 4.9'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-42-2

Location: Cell 48

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456205.87 feet
Drilling Method:	Vibracore	Northing:	562914.28 feet
Sampling Method:	Extraction	Ground Elevation:	1.43 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, moderate density, moist, very fine, micaceous, low plasticity, dark brown. Some oxidized root channels.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderate density, moist to wet, fine, micaceous. Some oxidized root channels to 4.0'. Color transition to dark grey at 4.0'.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-43-1

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1455779.00 feet
Drilling Method:	Vibracore	Northing:	561449.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.03 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*SANDY ORGANIC RICH SILT, loose and dry to 9". Moist below 9". Low plasticity to 1.3'. Medium plasticity below 1.3'. Brown, plant material, some gravel.*
0								
		0.0 ppm		Suite B-mid		SM		*SILTY FINE SAND, moderate density, moist, tan with rust mottling to 3.8', grey below, fine, micaceous, well sorted.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

Hand core to 1.75'

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-43-2

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1455651.00 feet
Drilling Method:	Vibracore	Northing:	561610.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.89 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, dry, tan, fine to coarse, poorly sorted, some rocks. Plant roots, trace micaceous.*
0						OL		*SANDY SILT, stiff, moist, low plasticity. Organic material, brown.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, becoming less dense with depth, moist, tan to 3.4', grey below. Rust mottling to 4'. Fine, micaceous, well sorted.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

Hand core to 1.5'

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-44-1

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455937.96 feet
Drilling Method:	Vibracore	Northing:	561727.65 feet
Sampling Method:	Extraction	Ground Elevation:	2.25 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose, dry to moist, medium brown, fine to medium grain size, micaceous, some clay. Common organic material (rootlets) to 0.5'. Top 0.5' tan, dark brown and organic rich to 1', then medium brown. Some organic material, dark brown, from 2.2' to 2.5'.*
0		0.0 ppm		Suite B-mid				
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous. Some lenses of oxidation to 4.0'. Some organic matter, dark brown, from 2.2' to 2.5'. Lens of clay from 2.6' to 2.7'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-44-2

Location: Cell 17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455892.90 feet
Drilling Method:	Vibracore	Northing:	561894.27 feet
Sampling Method:	Extraction	Ground Elevation:	1.06 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose, moist, tan, fine to medium sand, micaceous. Common organics top 1", dark brown. Laminated organic layer, some clay, from 1.27' to 1.3'.*
0								*SILTY SAND, loose, wet, dark olive grey, fine, micaceous. Some lenses of oxidation from 1.6' to 2.7'. Color transistion to dark grey at 2.2'. Some shell fragments from 3.6' to 5.0'.*
		0.0 ppm		Suite B-mid		SM		
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-45-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456139.70 feet
Drilling Method:	Vibracore	Northing:	562413.54 feet
Sampling Method:	Extraction	Ground Elevation:	1.39 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, moderate density, moist, very fine, micaceous, low plasticity. Some oxidized root channels.*
0						SM		*SILTY SAND, loose, wet, dark brown, fine, micaceous. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous, sticky. Some shell fragments from 3.3' to 3.4'.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, dense, wet, dark grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-45-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456187.76 feet
Drilling Method:	Vibracore	Northing:	562485.92 feet
Sampling Method:	Extraction	Ground Elevation:	1.39 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, moderate density, moist, dark brown, very fine, micaceous, low plasticity. Some oxidized root channels.*
0						SM		*SILTY SAND, loose to moderately dense, moist to wet, tan, fine, micaceous.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous, sticky.*
	5					SM		*SILTY SAND, dense, wet, dark grey, fine, micaceous.*
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-46-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456303.68 feet
Drilling Method:	Vibracore	Northing:	562291.74 feet
Sampling Method:	Extraction	Ground Elevation:	1.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, moderate density, wet, dark brown, very fine, micaceous, many roots.*
0						SM		*SILTY SAND, loose, wet, tan, fine, micaceous. Some rootlets to 1.5'. Some oxidized root channels to 3.0'. Color transition to dark grey at 2.8'.*
		0.0 ppm		Suite B-mid				
						ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous. Some shell fragments from 3.6' to 3.8'.*
	5					SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous.*
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-46-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456301.76 feet
Drilling Method:	Vibracore	Northing:	562181.89 feet
Sampling Method:	Extraction	Ground Elevation:	1.42 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILTY SAND, loose, moist to wet, fine, micaceous, tan. Some oxidized root channels. Color transition to dark grey at 2.4'.*
0						SM		
		0.0 ppm		Suite B-mid				
						ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous.*
								SILTY SAND, moderate density, wet, dark grey, fine, micaceous. Some shell fragments from 3.9' to 4.1'.
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-47-1

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456548.73 feet
Drilling Method:	Vibracore	Northing:	562556.37 feet
Sampling Method:	Extraction	Ground Elevation:	1.57 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC CLAYEY SILTY SAND, dense, moist, medium brown, fine, micaceous, some roots.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous.* *Some rootlets to 1.1'.* *Some oxidized root channels to 3.1'.* *Color transition to very dark grey at 2.8'.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-47-2

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456633.47 feet
Drilling Method:	Vibracore	Northing:	562642.12 feet
Sampling Method:	Extraction	Ground Elevation:	1.17 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderate density, moist, fine, micaceous. Some rootlets. Dark brown organic silt at top 1".*
0						SM		*SILTY SAND, loose to moderately dense, wet, light olive grey. Some oxidized root channels. Some rootlets.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, very fine, micaceous, very dark grey.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous, very dark.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-48-1

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456622.07 feet
Drilling Method:	Vibracore	Northing:	562959.94 feet
Sampling Method:	Extraction	Ground Elevation:	-0.19 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		SILTY SAND, moderate density, moist, tan, fine, micaceous. Some oxidized root channels.
						CL		SANDY CLAY, very soft, wet, very fine, micaceous, medium plasticit
		0.0 ppm		Suite B-mid		SM		SILTY SAND, moderate density, wet, fine, micaceous. Some oxidized root channels to 3.1'. Color transition to very dark grey at 3.1'. Trace lenses of oxidation to 4.2'.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-48-2

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456429.60 feet
Drilling Method:	Vibracore	Northing:	563041.55 feet
Sampling Method:	Extraction	Ground Elevation:	0.43 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, dense to soft, dry to wet, medium brown, very fine, micaceous. Color transistion to tan at 0.6'. Some oxidized root channels.*
						CH		*SANDY CLAY, very soft, wet, dark brown, very fine, micaceous, sticky. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, wet, tan, fine, micaceous. Some oxidized root channels. Color transistion to dark grey at 3.8'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-48-3

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456614.58 feet
Drilling Method:	Vibracore	Northing:	562873.48 feet
Sampling Method:	Extraction	Ground Elevation:	-0.03 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, soft to moderately stiff, moist, dark brown, very fine, micaceous. Some root material.*
						SM		*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Trace of oxidized root channels.*
						CL		*CLAYEY SAND, soft, wet, olive grey, very fine, micaceous. Low to medium plasticity. Trace of oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, olive grey, fine, micaceous. Trace of oxidized root channels.*
						CL		*CLAYEY SAND, soft, wet, very dark grey, very fine, micaceous. Low to medium plasticity.*
-5	5					SM		*SILTY SAND, moderate density, very dark grey, fine, micaceous. Slight decrease in silt percentage to depth.*
		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-49-1

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456921.91 feet
Drilling Method:	Vibracore	Northing:	563139.23 feet
Sampling Method:	Extraction	Ground Elevation:	0.58 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, dense, moist, dark brown, very fine, micaceous. Low plasticity. Some rootlets.*
0						SM		*SILTY SAND, moderate density, moist to wet, olive grey, fine, micaceous. Some oxidized root channels.*
						CL		*CLAYEY SAND, soft, wet, olive grey, very fine, micaceous. Medium plasticity. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, wet, olive grey, fine, micaceous. Some oxidized root channels. Color transition to very dark grey at 5.1'.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-49-2

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456875.84 feet
Drilling Method:	Vibracore	Northing:	562928.01 feet
Sampling Method:	Extraction	Ground Elevation:	-0.36 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderate density, moist, olive grey, very fine, micaceous. Low plasticity. Some oxidized root channels*
						SM		*SILTY SAND, moderately dense to loose, wet, olive grey, fine, micaceous. Some root channels. Some shell fragments from 1.2' to 1.3'.*
						ML		*SANDY SILT, very soft, wet, olive grey, very fine, micaceous. Low plasticity, sticky. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, wet, olive grey, fine, micaceous. Some oxidized root channels. Color transition to very dark grey at 2.5'.*
						ML		*SANDY SILT, very soft, wet, very dark grey, very fine, micaceous. Low plasticity, sticky.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, very dark grey, fine, micaceous. Abundant shell fragments from 4.4' to 6.65'. Laminated tan silty sand from 4.4' to 4.6'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-50-1

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456822.89 feet
Drilling Method:	Vibracore	Northing:	562472.16 feet
Sampling Method:	Extraction	Ground Elevation:	-0.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, light olive grey, fine, micaceous. Top 2" dark brown, abundant organics. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, soft, wet, dark grey, fine, micaceous. Medium plasticity, sticky. Some oxidized root channels.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Some shell fragments from 6.2' to 6.4'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-50-2

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456862.16 feet
Drilling Method:	Vibracore	Northing:	562416.56 feet
Sampling Method:	Extraction	Ground Elevation:	0.79 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Some fine rootlets. Some oxidized root channels.*
0								
		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, soft, wet, dark grey, fine, micaceous. Some oxidized root channels.*
						SM		*SILTY SAND, loose to moderately dense, dark grey, fine, micaceous. Slight decrease in silt percentage to depth.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-51-1

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457270.99 feet
Drilling Method:	Vibracore	Northing:	562653.30 feet
Sampling Method:	Extraction	Ground Elevation:	-0.09 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense to moderately dense, moist to wet, olive grey, fine, micaceous. Some oxidized root channels to 4.1'. Slight decrease in silt percentage to depth.*
		0.0 ppm		Suite B-mid				*Color transition to very dark grey at 4.1'. Abundant shell fragments from 4.4' to 4.8'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-51-2

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457212.60 feet
Drilling Method:	Vibracore	Northing:	562549.07 feet
Sampling Method:	Extraction	Ground Elevation:	0.25 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense to moderately dense, moist to wet, light olive grey, fine, micaceous.* *Some oxidized root channels to 4'.* *Slight decrease in silt percentage to depth.*
		0.0 ppm		Suite B-mid				*Color transition to very dark grey at 4.0'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-52-1

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457115.43 feet
Drilling Method:	Vibracore	Northing:	561416.23 feet
Sampling Method:	Extraction	Ground Elevation:	-0.58 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous.* *Top 1" highly organic, medium sand.* *Some root channels to 1.8'.* *Color transition to very dark grey at 1.6'.* *Abundant shell fragments from 2.15' to 2.3' and 4.2' to 4.3'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-52-2

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455285.86 feet
Drilling Method:	Vibracore	Northing:	560586.49 feet
Sampling Method:	Extraction	Ground Elevation:	-0.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some lenses of oxidation to 2'. Color transition to dark grey at 1.6'.*
		0.0 ppm		Suite B-mid				
						ML		*SANDY SILT, soft, wet, dark grey, fine, micaceous. Low plasticity.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-52-3

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457238.00 feet
Drilling Method:	Vibracore	Northing:	561385.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.79 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose to moderately dense, wet, tan, fine to medium, micaceous. Trace silt, trace shell fragments. Top 1" abundant shell fragments, stratified layer of dark brown organic silt, soft.*
0								
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, olive grey, fine, micaceous. Some oxidized root channels to 3.2'. Color transition to very dark grey at 2.9'. Abundant shell fragments from 5.6' to 6.2'.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-53-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455106.50 feet
Drilling Method:	Hand Auger	Northing:	560351.85 feet
Sampling Method:	Extraction	Ground Elevation:	3.74 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	*0.0 ppm*		*Suite C*		SM		*SILTY SAND, dense, moist, mottled olive grey and oxidation, very fine.* *Gradation change from very fine to medium sands from 1.5' to 2'.* *Transition to dark grey fine sand at 2'.*
		0.0 ppm		*Suite B-mid*				
0								
	5							

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-53-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455224.49 feet
Drilling Method:	Hand Auger	Northing:	560099.32 feet
Sampling Method:	Extraction	Ground Elevation:	5.24 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
5	0	0.0 ppm		Suite C		SW		*SAND, loose to dense, dry, light tan, very fine to fine grain, micaceous, trace of silt.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, dense, moist, mottled olive grey and oxidation, very fine, micaceous.*
0	5							

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-53-3

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455173.01 feet
Drilling Method:	Hand Auger	Northing:	560206.68 feet
Sampling Method:	Extraction	Ground Elevation:	4.44 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	*0.0 ppm*		*Suite C*		SW		*SAND, loose, dry, light tan, very fine to fine grain, micaceous, trace of silt.*
						SM		*SILTY SAND, dense, moist, mottled olive grey and oxidation, very fine, micaceous.*
		0.0 ppm		*Suite B-mid*				
0								
	5							

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-54-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1455321.29 feet
Drilling Method:	Vibracore	Northing:	560557.52 feet
Sampling Method:	Extraction	Ground Elevation:	1.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILT, black, wet, very loose.*
0						ML		*SILT with fine sand, trace of clay, wet, non-plastic, medium stiff, mottling.*
		0.0 ppm		Suite B-mid		SP		*SILTY SAND, fine sand with silt, dark grey, wet, medium stiff, well sorted.*
								As above, with broken shells.
	5	0.0 ppm		Suite B-bottom		ML		*SANDY SILT, micaceous silt with fine sand, non-plastic, medium dense.*
-5								*As above, with 1/4" broken shells.*

Comments:

Top 0-0.8' from hand core (very loose material).
0-6" sample composited with same from CAR-54-2.
Mid and bottom samples composited with same from CAR-54-2.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-54-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1455285.86 feet
Drilling Method:	Vibracore	Northing:	560586.49 feet
Sampling Method:	Extraction	Ground Elevation:	-0.29 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, inorganic silt, black, very wet, very loose.*
								SAND, fine sand, wet, grey with red mottling, medium dense, micaceous sand.
		0.0 ppm		Suite B-mid				*SAND, fine sand, wet, brown, micaceous sand, medium sand.*
								SAND, fine sand, wet, brown, medium dense, broken 1/4" to 1" shells.
						SP		*As above with increased shells.*
-5	5							*SAND, fine sand, medium grey, medium dense, broken 1/4" to 1" shells.*
		0.0 ppm		Suite B-bottom				

Comments:
Top 1" from separate hand core (very liquid).
0-6" sample composited with same from CAR-54-1.
Mid and bottom samples composited with same from CAR-54-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-55-1

Location: Cells 4, 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455657.96 feet
Drilling Method:	Vibracore	Northing:	560814.89 feet
Sampling Method:	Extraction	Ground Elevation:	5.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
5	0	0.0 ppm		Suite C		SC		CLAYEY SAND, dense, dry, dark brown, some silt, crumbly.
								Color transition to mottled black and light grey, weather petroleum product, very dense, strong hydrocarbon odor, crumbly from 0.6' to 1.9'.
		0.0 ppm		Suite B-mid		SP		SAND, moderate density, moist to dry, fine to medium grain size, micaceous, some gravel, trace coarse gravel to 2".
								Statified clayey silt layer, dense, crumbly.
								Statified dark brown/oxidized organic layer, no odor from 4.4' to 4.5'.
0	5							SILTY SAND, moderate density, wet, fine, micaceous.
		0.0 ppm		Suite B-bottom		SM		

Comments:

3.2' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-55-2

Location: Cells 4, 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455623.00 feet
Drilling Method:	Vibracore	Northing:	560851.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dense, dry, medium to dark brown, fine, micaceous (fill), crumbly. Stratified layer of black petroleum product, dense, crumbly, from 0.9' to 1.0'.*
		0.0 ppm		Suite B-mid		SP		*SAND, dense, dry to moist, tan, fine to medium grain size, micaceous, some grave, trace clay. Stratified layer of clayey silt from 2.3' to 2.5', dense, low plasticity. Trace gravel throughout. Trace shell fragments throughout.*
0	5	0.0 ppm		Suite B-bottom		ML		*SILTY SAND, dense, wet, dark grey, fine, non-plastic. Shell fragments from 6.0' to 6.3'.*

Comments:

1.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-55-1

Location: Cells 4, 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455657.96 feet
Drilling Method:	Vibracore	Northing:	560814.89 feet
Sampling Method:	Extraction	Ground Elevation:	5.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
5	0	0.0 ppm		Suite C		SC		CLAYEY SAND, dense, dry, dark brown, some silt, crumbly.
								Color transition to mottled black and light grey, weather petroleum product, very dense, strong hydrocarbon odor, crumbly from 0.6' to 1.9'.
		0.0 ppm		Suite B-mid		SP		SAND, moderate density, moist to dry, fine to medium grain size, micaceous, some gravel, trace coarse gravel to 2".
								Statified clayey silt layer, dense, crumbly.
								Statified dark brown/oxidized organic layer, no odor from 4.4' to 4.5'.
0	5							SILTY SAND, moderate density, wet, fine, micaceous.
		0.0 ppm		Suite B-bottom		SM		

Comments:

3.2' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-55-2

Location: Cells 4, 6

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455623.00 feet
Drilling Method:	Vibracore	Northing:	560851.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dense, dry, medium to dark brown, fine, micaceous (fill), crumbly. Stratified layer of black petroleum product, dense, crumbly, from 0.9' to 1.0'.*
		0.0 ppm		Suite B-mid		SP		*SAND, dense, dry to moist, tan, fine to medium grain size, micaceous, some grave, trace clay. Stratified layer of clayey silt from 2.3' to 2.5', dense, low plasticity. Trace gravel throughout. Trace shell fragments throughout.*
0	5	0.0 ppm		Suite B-bottom		ML		*SILTY SAND, dense, wet, dark grey, fine, non-plastic. Shell fragments from 6.0' to 6.3'.*

Comments:

1.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-56-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455656.28 feet
Drilling Method:	Vibracore	Northing:	560475.86 feet
Sampling Method:	Extraction	Ground Elevation:	-0.52 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, very fine, micaceous.*
		0.0 ppm		Suite B-mid		SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Some silt.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-56-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455723.93 feet
Drilling Method:	Vibracore	Northing:	560505.92 feet
Sampling Method:	Extraction	Ground Elevation:	-0.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, very fine, micaceous. Some oxidized root channels to 0.7'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom		SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Some silt.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-57-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455775.82 feet
Drilling Method:	Vibracore	Northing:	560539.18 feet
Sampling Method:	Extraction	Ground Elevation:	-0.57 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, very fine, micaceous. Slight H2S odor. Abundant shell fragments from 1' to 1.5'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-57-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1455845.78 feet
Drilling Method:	Vibracore	Northing:	560476.60 feet
Sampling Method:	Extraction	Ground Elevation:	-1.12 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, black, fine, micaceous. Very strong H2S odor. Color transition to very dark grey at 0.6'. Some shell fragments from 1.6' to 2.1'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-58-1

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456093.96 feet
Drilling Method:	Vibracore	Northing:	559934.26 feet
Sampling Method:	Extraction	Ground Elevation:	-1.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*SILTY SAND, loose to moderately dense, wet, dark grey, very fine, micaceous. Slight H2S odor. Abundant shell fragments from 4.6' to 5.6'.*
		0.0 ppm		Suite B-mid		SM		
-5								
	5	0.0 ppm		Suite B-bottom		SW		*SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Some silt.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-58-2

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456107.90 feet
Drilling Method:	Vibracore	Northing:	560106.19 feet
Sampling Method:	Extraction	Ground Elevation:	-0.87 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, dark olive grey, very fine, micaceous. Slight H2S/Hydrocarbon odor. Color transition to very dark grey at 0.7'. Abundant shell fragments from 1.5' to 2.6'. Some shell fragments from 3.3' to 3.5'.*
		0.0 ppm		Suite B-mid				
-5						SW		*SAND, loose, wet, dark grey, fine, micaceous. Some silt.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous. Stratified silt layer from 5.1' to 5.15'. Some shell fragments from 6' to 6.3'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-58-3

Location: Cell 4

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456127.01 feet
Drilling Method:	Vibracore	Northing:	559792.94 feet
Sampling Method:	Extraction	Ground Elevation:	0.47 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, very soft, wet, black. Some sand, very fine, micaceous. Low plasticity. Strong H2S odor, some root material.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, olive grey, very fine, micaceous.* *Color to very dark grey at 1.2'.* *Abundant shell fragments from 1.6' to 1.9'; 3.1' to 3.3' and 5.3' to 5.4'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-59-1

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1456274.00 feet
Drilling Method:	Vibracore	Northing:	560585.29 feet
Sampling Method:	Extraction	Ground Elevation:	2.83 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*SANDY ORGANIC SILT, moderately stiff, slightly moist, brown, very low plasticity. Sand is fine. Considerable plant roots and debris.*
						SP		*SAND, moderately dense, moist, multi-colored alternating layers of coarse and fine sand with some gravel. Poorly sorted, micaceous. Some plant roots.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tan to brown-yellow with rust mottling due to oxidation of plant material, grey below. Trace of shell fragments, micaceous. Most shell fragments between 5.4' and 5.6'.*
	5	0.0 ppm		Suite B-bottom				
-5								*Comments:*

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-59-2

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1456277.20 feet
Drilling Method:	Vibracore	Northing:	560520.92 feet
Sampling Method:	Extraction	Ground Elevation:	1.26 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL ML		*SILT, soft, moist, black, medium plasticity. Some plant roots.* *SANDY SILT, soft, moist, grey, medium plasticity, micaceous. Some fine sand and plant material.*
0								*SILTY SAND, moderately dense, moist, tan with rust mottling (oxidation) to 2.8', grey below 2.8', micaceous. Some shell fragments at 3', 3.5' and 5'.*
		0.0 ppm		Suite B-mid		SM		
	5	0.0 ppm		Suite B-bottom		ML		*CLAYEY SILT, soft, moist, grey, high plasticity, no sand. Large shell fragments at bottom of layer.*
-5						SM		*SILTY SAND, moderately dense, moist, grey, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-60-1

Location: Cell 16

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1456226.93 feet
Drilling Method:	Vibracore	Northing:	561029.88 feet
Sampling Method:	Extraction	Ground Elevation:	-0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, moist, medium stiffness, grey, medium to high plasticity. Cemented silt on the very top. Some plant material. Some sand near bottom, trace micaceous.*
						OL		*ORGANIC SILT, soft, moist, dark brown, low plasticity. Some plant material.*
						SW		*SAND, moderate density, moist, grey, fine to medium, some mica, well sorted. Trace of silt, more silt near the top and bottom than in the middle. Considerable shell fragments from 1.3' to 2.1'. Slight H2S odor below 5'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-60-2

Location: Cell 16

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1456272.54 feet
Drilling Method:	Vibracore	Northing:	560999.64 feet
Sampling Method:	Extraction	Ground Elevation:	0.19 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		PT		PEAT, silt and plant material, soft, wet. Very thin layer of cemented silt at bottom of layer, dark brown. Some worms and small shell fragments.
						ML		
						SP		SILT, soft, moist, greyish tan, medium plasticity. Trace of sand, micaceous. some plant material.
						ML		SAND, loose, wet, coarse, multicolored, some pebbles.
						PT		SILT, same as 0.2'-0.5'.
								PEAT, soft, brown, wet, low plasticity, plant material in very small pieces.
						SM		SILTY SAND, moderately dense, wet, tanish grey. Sand is fine, well sorted, micaceous. Considerable shell fragments from 1.75' to 2.4'.
		0.0 ppm		Suite B-mid				SAND, moderately dense, moist, grey, micaceous, fine, well sorted.
						SW		
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-61-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457118.72 feet
Drilling Method:	Vibracore	Northing:	561589.38 feet
Sampling Method:	Extraction	Ground Elevation:	1.62 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderate density, moist, olive grey, fine, micaceous. Top 1" dark brown organic silt, abundant roots.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Some oxidized roots channels to 4.2'. Color transition to very dark grey at 4.2'.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-61-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457244.80 feet
Drilling Method:	Vibracore	Northing:	561646.07 feet
Sampling Method:	Extraction	Ground Elevation:	0.75 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILTY SAND, loose to moderately dense, wet, fine, micaceous.* *Some oxidized root channels to 3.1'.* *Color transition to very dark grey at 2.8'.* *Abundant shell fragments from 1.9' to 5.5'.* *Statified layer of sandy silt from 4.6' to 4.7'.*
0								
		0.0 ppm		Suite B-mid		SM		
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-62-1

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457395.83 feet
Drilling Method:	Vibracore	Northing:	561922.68 feet
Sampling Method:	Extraction	Ground Elevation:	-0.74 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT AND CLAY, soft, wet, dark brown/olive, some very fine sand, micaceous. Blocky silt/clay from 0.1' to 0.2'. Dry dark brown organic lamination from 0.6' to 0.7', low plasticity.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive, fine, micaceous. Some oxidized root channels to 3.5'. Silt percentage decreases to depth.*
-5	5	0.0 ppm		Suite B-bottom				*Color transition to very dark grey at 3.5'.*
								Abundant shell fragments from 4.4' to 4.9'.
								Abundant shell fragments from 6.4' to 6.5'.

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-62-2

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/23/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457393.16 feet
Drilling Method:	Vibracore	Northing:	561810.58 feet
Sampling Method:	Extraction	Ground Elevation:	3.13 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND WITH GRAVEL, loose to dense, dry to moist, light brown to dark brown, very fine. (Fill) Gradation change to fine to medium sand at 1'.*
						CL		*SILTY CLAY, stiff, moist, dark brown/black, low plasticity. Degraded petroleum, crumbly, strong hydrocarbon odor.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, dense, moist, tan, fine to medium, micaceous. Some lenses of oxidation to 5.3'.*
						SC		*CLAYEY SAND, soft, moist, brown, fine, micaceous.*
	5					SM		*SILTY SAND, dense, moist, grey, fine, micaceous.*
		0.0 ppm		Suite B-bottom		SW		*SAND, loose, moist, light grey, fine, micaceous, trace of silt.*
-5								

Comments:

1.5' and 3' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-63-1

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457558.15 feet
Drilling Method:	Vibracore	Northing:	562468.64 feet
Sampling Method:	Extraction	Ground Elevation:	2.25 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderate density, dry, dark brown/black, fine to medium, micaceous. Some gravel, degraded asphalt.*
0		0.0 ppm		Suite B-mid		SP		*SAND, loose, dry to moist, tan, fine to medium, micaceous, trace silt.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, light olive grey, fine, micaceous. Some lenses of oxidation throughout. Slight decrease in silt percentage to depth. Color transition to dark grey at 6.3'.*
-5								

Comments:

2.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-63-2

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457665.85 feet
Drilling Method:	Vibracore	Northing:	562463.57 feet
Sampling Method:	Extraction	Ground Elevation:	-1.17 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, moderate density, moist to wet, dark brown/olive grey, low plasticity, very fine, micaceous. Some oxidized root channels, some rootlets.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some oxidized root channels to 3.8'.*
-5								*Color transition to very dark grey at 3.8'.*
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-64-1

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458020.63 feet
Drilling Method:	Vibracore	Northing:	562234.57 feet
Sampling Method:	Extraction	Ground Elevation:	-0.41 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, dense to moderately dense, dry to moist, brown/olive grey. Some sand, fine, micaceous. Low to medium plasticity.*
						SC		*SILTY CLAYEY SAND, moderately dense, wet, olive grey, low to medium plasticity, very fine, micaceous. Some root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some oxidized root channels to 4.2'.*
-5	5	0.0 ppm		Suite B-bottom				*Color transition to dark grey at 4.2'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-64-2

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458036.10 feet
Drilling Method:	Vibracore	Northing:	562320.48 feet
Sampling Method:	Extraction	Ground Elevation:	-0.90 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, stiff to medium stiff, olive grey, very fine, micaceous. Some rootlets.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, olive grey, fine, micaceous. Some oxidized root channels to 5.2'.*
-5	5	0.0 ppm		Suite B-bottom				*Color transition to very dark grey at 5.8'. Some shell fragments from 5.8' to 5.9',*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-65-1

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458017.10 feet
Drilling Method:	Vibracore	Northing:	561530.95 feet
Sampling Method:	Extraction	Ground Elevation:	0.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, dense, dry to moist, dark olive grey, very fine, micaceous, medium plasticity. Top 3" hard root/petroleum conglomeration. Some rootlets ot 0.7'.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Some oxidized root channels to 3.1'. Color transition to very dark grey at 2.4'. Abundant shell fragments from 4.5' to 4.7'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

1.0' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-65-3

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458004.59 feet
Drilling Method:	Vibracore	Northing:	561381.29 feet
Sampling Method:	Extraction	Ground Elevation:	-0.12 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, dense, dry to moist, olive grey. Top 1" hard root/petroleum conglomeration. Some rootlets, some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Some oxidized root channels to 3.6'. Stratified layer of sandy clay from 2' to 2.15', very fine, micaceous.* *Color transition to very dark grey at 3.6'. Abundant shell fragments from 4.4' to 4.6'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-65-2

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457839.38 feet
Drilling Method:	Vibracore	Northing:	561891.01 feet
Sampling Method:	Extraction	Ground Elevation:	-0.69 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*CLAYEY SILTY SAND, moderate density, moist to wet, olive grey, very fine, micaceous. Some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous. Oxidized root channels to 4.3'. Abundant shell fragments from 2.7' to 3' and 4.9' to 5.1'. Color transition at 3.9'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-65-4

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457845.26 feet
Drilling Method:	Vibracore	Northing:	561664.11 feet
Sampling Method:	Extraction	Ground Elevation:	-0.32 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, dense to moderately dense, olive grey, very fine, micaceous, medium plasticity. Some rootlets, trace of sand.*
						SM		*SILTY SAND, loose to moderately dense, olive grey, fine, micaceous. Some oxidized root channels.*
						SC		*CLAYEY SAND, soft, olive grey, very fine, micaceous. Some oxidized root channels, some rootlets. Low to medium plasticity.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, wet, olive grey, fine, micaceous. Some root channels to 3'. Color transiton ot very dark grey at 3'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-1

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459244.36 feet
Drilling Method:	Vibracore	Northing:	562290.19 feet
Sampling Method:	Extraction	Ground Elevation:	1.63 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*SANDY SILT, hard and crumbly, dry, tan to 0.75', dark brown to 1'. Considerable organics, some small rocks, non-plastic (soil like). Considerable plant material.*
0						SP		*SAND, dense, moist, orange, fine to coarse, poorly sorted, some small rocks.*
		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, soft to medium stiff, moist. Top 2cm black, rest grey with rust mottling (oxidation of plant material). Medium plasticity, trace of fine sand, micaceous, some plant roots.*
						SM		*SILTY SAND, moderate density, moist, fine, micaceous, light grey, rust mottling throughout.*
						CL		*CLAY, stiff, moist, light grey, plastic.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, fine, micaceous, light grey, rust mottling throughout.*
-5								

Comments:

2.25' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-7

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1458900.83 feet
Drilling Method:	Vibracore	Northing:	561650.80 feet
Sampling Method:	Extraction	Ground Elevation:	0.69 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SILTY SANDY CLAY, stiff, slightly moist, brownish grey, low plasticity. Sand is very fine, micaceous. 2" layer of rust colored oxidation around 0.5' to 1.6'.*
0		0.0 ppm		Suite B-mid				
	5					SM		*SILTY SAND, moderate density, moist, fine, micaceous, tannish grey to 4.9', dark grey below. Rust mottling from oxidation to 5.5'.*
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-6

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459026.77 feet
Drilling Method:	Vibracore	Northing:	562634.84 feet
Sampling Method:	Extraction	Ground Elevation:	-1.25 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, loose, wet, dark grey.*
						CL		*SILTY SANDY CLAY, stiff, moist, tannish grey. Sand is fine, some mica.*
						SM		*SILTY SAND, moderate density, moist, tannish grey with rust mottling, fine, micaceous, well sorted.*
						CL		*SILTY SANDY CLAY, stiff, moist, tannish grey. Sand is fine, some mica.*
						SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted. Rust mottling from oxidation to 3.5'.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, stiff to soft, moist, grey, medium plasticity, micaceous. Sand is fine.*
-5						SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted.*
	5					ML		*SANDY SILT, stiff to soft, moist, grey, medium plasticity, micaceous. Sand is fine.*
		0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-5

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459201.22 feet
Drilling Method:	Vibracore	Northing:	561911.04 feet
Sampling Method:	Extraction	Ground Elevation:	0.24 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, stiff, moist, tannish grey, low plasticity. Trace of sand, some mica. Some white, small pieces of calcium or salt.*
						SP		*SAND, moderate density, moist, tan, medium grain, micaceous.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tan with rust mottling (oxidation) to 4.5', grey below. Micaceous, well sorted.*
-5	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderate density, moist, dark grey, fine to medium, micaceous, well sorted.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-4

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1458843.41 feet
Drilling Method:	Vibracore	Northing:	562564.06 feet
Sampling Method:	Extraction	Ground Elevation:	-0.78 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, loose, dry, tan, non-plastic, trace of fine sand.*
						CL		*SILTY CLAY, stiff, dry, tan, low plasticity, trace of fine sand, micaceous.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tan to 4', grey below. Rust colored oxidation mottling throughout. Sand fine, micaceous. Shell fragments below 6.8', well sorted. Wetter with depth.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

2.25' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-3

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459083.32 feet
Drilling Method:	Vibracore	Northing:	561725.57 feet
Sampling Method:	Extraction	Ground Elevation:	-0.44 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY CLAYEY SILT, loose on very top, soft otherwise; wet to moist; top inch black, rest tannish grey; medium plasticity. Sand is very fine, some mica. Some rust oxidation.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, wet to moist, moderate density, tannish grey with some rust mottling (oxidation), fine, micaceous, well sorted. Turns dark below 3.5'.*
-5	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderate density, moist, grey, fine, micaceous, well sorted. Shell fragments below 6'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-2

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459192.04 feet
Drilling Method:	Vibracore	Northing:	562073.90 feet
Sampling Method:	Extraction	Ground Elevation:	1.59 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SILTY CLAY, stiff, moist, tan with some rust mottling, low to medium plasticity, micaceous. Some salt granules near top, trace fine sand.*
0		0.0 ppm		Suite B-mid		SM		*SILTY FINE SAND, moderate density, becomes loose below 5.5'. Moist to 5.5', wet below. Tan to light grey, rust colored oxidation to 4.5', turns blackish below 5.5'. Silt content increases below 5', micaceous, well sorted. Slight hydrocarbon odor near bottom.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

4.75' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-66-8

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459071.01 feet
Drilling Method:	Vibracore	Northing:	562502.55 feet
Sampling Method:	Extraction	Ground Elevation:	-0.84 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, stiff, moist, light grey, low to medium plasticity, rust oxidized mottling, micaceous.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist, tannish grey with rust mottling to 3.6', fine, micaceous.*
-5	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderate density, moist, fine, micaceous, light grey turning dark grey, rust mottling to 5'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-67-1

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456342.00 feet
Drilling Method:	Vibracore	Northing:	560084.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.88 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILT and fine sand with a trace of clay, black, hydrocarbon streaking, low plasticity, medium stiffness, moist, odor.*
0								*As above, dark brown and black, strong hydrocarbon odor, heavy hydrocarbon zone.*
		0.0 ppm		Suite B-mid		ML		*CLAYEY SILT with fine sand, dark brown with black streaks, moist, low plasticity, medium stiffness, mottling from 3' to 4.5'.*
	5	0.0 ppm		Suite B-bottom				*SILT with fine sand, dark grey, moist, low plasticity, medium stiffness, no black streaking.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-67-2

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456448.00 feet
Drilling Method:	Vibracore	Northing:	559972.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.76 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILT with liquid hydrocarbons, dark brown and black, wet, non-plastic to low plasticity, soft.*
0						CL		*SILTY CLAY, moist, dark brown, low plasticity, medium stiffness, hydrocarbon (black) streaking, roots and fine hairs.*
								CLAY, dark brown, medium plasticity, medium stiffness, roots and fine hairs.
		0.0 ppm		Suite B-mid				*CLAYEY SILT, dark brown, wet, low plasticity, medium stiffness, mottling to 4.2'.*
								As above, dark grey.
						ML		
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-68-1

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456613.00 feet
Drilling Method:	Vibracore	Northing:	559819.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.19 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	81.8 ppm		Suite C				*SANDY SILT, silt with fine sand, moist, dark brown, low plasticity, medium stiffness, black hydrocarbon spotting beginning at 0.5'.*
0						ML		*SILT with fine sand, moist, dark brown with black streaks, low plasticity, medium stiffness, hydrocarbon odor.*
		18.1 ppm		Suite B-mid				*As above, black (heavy hydrocarbons).*
						SP		*SAND, fine sand with trace of medium sand, moist, brown with black streaks, medium dense, strong odor.*
						CL		*SILTY CLAY, moist, dark brown, medium plasticity, soft.*
	5					SP		*SAND, fine sand with silt, moist, dark brown with black spotting, medium dense.*
		0.0 ppm		Suite B-bottom		CL		*SILTY CLAY, moist, dark brown, medium plasticity, soft, black (hydrocarbon) streaking.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-68-2

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1456555.58 feet
Drilling Method:	Vibracore	Northing:	559874.06 feet
Sampling Method:	Extraction	Ground Elevation:	3.63 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILT, moist, dark brown with black streaking, non-plastic, medium stiffness.*
								CLAYEY SILT, moist, dark brown, low plasticity, medium stiffness.
								As above, dark brown and black (thick hydrocarbons).
		0.0 ppm		Suite B-mid		CL		*LEAN CLAY, slightly moist, dark brown, medium plasticity, medium stiffness.*
0								*CLAYEY SILT, moist, dark brown with mottling, low plasticity, medium stiffness, root hairs.*
								As above, dark grey.
	5	0.0 ppm		Suite B-bottom		ML		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-69-1

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456825.60 feet
Drilling Method:	Vibracore	Northing:	559981.02 feet
Sampling Method:	Extraction	Ground Elevation:	0.42 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous, olive grey.* *Top 2" black, loose silt.* *Some oxidized root channels to 1.8'.* *Color transition to very dark grey at 1.8'.* *Some shell fragments from 1.8' to 3.5'.*
		0.0 ppm		Suite B-mid				
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-69-2

Location: Cell 7

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456819.25 feet
Drilling Method:	Vibracore	Northing:	560006.21 feet
Sampling Method:	Extraction	Ground Elevation:	1.19 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAYEY SAND, loose, wet, dark brown, very fine, micaceous. Abundant rootlets.*
0		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, olive grey, fine, micaceous.* *Some oxidized root channels to 2.6'.* *Color transition to very dark grey at 2.3'.* *Decrease in silt percentage to depth.* *Abundant shell fragments from 4.9' to 5.3'.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-70-1

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457502.86 feet
Drilling Method:	Vibracore	Northing:	560729.88 feet
Sampling Method:	Extraction	Ground Elevation:	0.17 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, moist to wetter with depth. Tan to 1.8', grey below, rust mottling to 1.2'. Fine, micaceous, well sorted. Large shells at 1.7'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-70-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-70-2

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457520.32 feet
Drilling Method:	Vibracore	Northing:	560703.94 feet
Sampling Method:	Extraction	Ground Elevation:	0.18 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderately dense, moist, turning wet, fine, micaecous. Tan to 2', grey below, rust mottling to 2'. Some shell fragments to 1.8'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composite with CAR-70-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-71-1

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457555.11 feet
Drilling Method:	Vibracore	Northing:	560623.03 feet
Sampling Method:	Extraction	Ground Elevation:	0.34 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, moist, fine, micaceous. Tan to 1.7', grey below. Rust mottling from oxidation at the tan interval. Some shell fragments at 1.4', 2.2', and 5.8'. Some plant roots to 1'. H2S odor.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-71-2

Location: Cell 18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/28/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457553.72 feet
Drilling Method:	Vibracore	Northing:	560650.99 feet
Sampling Method:	Extraction	Ground Elevation:	0.31 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, moist, tan to 2', grey below, fine, micaceous.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-72-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1455681.00 feet
Drilling Method:	Vibracore	Northing:	558558.00 feet
Sampling Method:	Extraction	Ground Elevation:	6.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SAND, loose, dry, tan, fine to coarse, micaceous. (Fill)* *Some clay, some gravel to 3'.* *Gradation change to fine at 3'.* *Color transition to dark grey at 3'.* *Trace silt from 3' to 5.4'.*
5								
		0.0 ppm		Suite B-mid		SP		
	5							
		0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous.*
0								

Comments:

1.6' pre-bore.
Composite with CAR-72-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-72-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1455657.00 feet
Drilling Method:	Vibracore	Northing:	558561.00 feet
Sampling Method:	Extraction	Ground Elevation:	6.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose, wet, grey, fine to medium, micaceous, some silt.* *Top 3" silty sand (soft), some roots.*
5		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, fine, micaceous, very dark grey.* *Abundant shell fragments from 3.5' to 3.6'.* *Some shell fragments fro 4.6' to 5.1'.*
	5	0.0 ppm		Suite B-bottom		SW		*SAND, loose, wet, dark grey, fine, micaceous, some silt.*
0								

Comments:

Composite with CAR-72-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-75-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456733.27 feet
Drilling Method:	Vibracore	Northing:	558841.81 feet
Sampling Method:	Extraction	Ground Elevation:	3.64 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		*SAND, moderate density, moist, light brown, very fine, micaceous, some oxidized root channels.*
						SM		*SILTY SAND, dense, moist to wet, dark grey, fine, micaceous. Black statified organic layer from 2.6' to 2.8', moderate hydrocarbon odor.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft to moderately dense, dark grey, very fine, micaceous. Some black tubules throughout.*
0								*SILTY SAND, moderately dense, wet, dark grey, fine, micaceous.*
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-75-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456652.66 feet
Drilling Method:	Vibracore	Northing:	558543.07 feet
Sampling Method:	Extraction	Ground Elevation:	4.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose to moderately dense, dry to moist, light brown, very fine to fine grain, micaceous, some silt. Some oxidized root channels.*
						SM		*SILTY SAND, moist to wet, dark grey, fine, micaceous. Black stratified organic layer from 1.8' to 3'. Moderate hydrocarbon odor.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous. Some black tubules throughout.*
0	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-75-3

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456609.60 feet
Drilling Method:	Vibracore	Northing:	558697.69 feet
Sampling Method:	Extraction	Ground Elevation:	3.49 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, loose to moderately dense, dry to moist, light brown, very fine to fine grain, micaceous, some silt. Trace oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moist to wet, moderate density, dark grey, fine, micaceous. Black stratified organic layer from 3' to 3.2', moderate hydrocarbon odor.*
0						ML		*SANDY SILT, soft, wet, dark grey, very fine, micaceous. Some black tubules throughout.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-76-1

Location: Cells 3, 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1457019.29 feet
Drilling Method:	Vibracore	Northing:	559176.16 feet
Sampling Method:	Extraction	Ground Elevation:	1.01 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, very dark grey, fine, micaceous. Color transition to grey at 0.6'. Some shell fragments from 1.3' to 1.4'. Strong H2S odor.*
0								
		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, dense, wet, olive grey, fine to medium, micaceous, some gravel.*
						SM		*SILTY SAND, loose to moderately dense, dark grey, fine, micaceous. Some shell fragments from 4.2' to 4.8'.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-76-4

Location: Cells 3, 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1457015.91 feet
Drilling Method:	Vibracore	Northing:	559300.87 feet
Sampling Method:	Extraction	Ground Elevation:	1.22 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, very dark grey, fine, micaceous. Color transition to grey at 0.3'. Strong H2S odor.*
0						SC		*CLAYEY SAND, moderately dense, wet, mottled olive grey/black, fine to medium grain, micaceous, low plasticity. Strong hydrocarbon odor.*
		0.0 ppm		Suite B-mid				*SILTY SAND, loose to moderately dense, mottled olive grey black, fine micaceous. Strong hydrocarbon odor.*
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-76-3

Location: Cells 3, 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457525.68 feet
Drilling Method:	Vibracore	Northing:	559112.16 feet
Sampling Method:	Extraction	Ground Elevation:	0.53 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*CLAYEY SILT, soft, wet, dark brown/black, low plasticity, blocky, strong hydrocarbon odor. Trace sand, very fine, micaceous. Slight sheen on surface water. Stratified layer of silt from 0.5' to 0.7', very soft.*
0								*SILTY SAND, moderate density, wet, dark olive grey, fine, micaceous.*
		0.0 ppm		Suite B-mid		SM		
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-76-2

Location: Cells 3, 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457282.07 feet
Drilling Method:	Vibracore	Northing:	559124.96 feet
Sampling Method:	Extraction	Ground Elevation:	1.87 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	<5.5 ppm		Suite C		ML		SANDY SILT, soft, wet, black, fine, micaceous, strong H2S odor.
0		<5.5 ppm		Suite B-mid		SM		SILTY CLAYEY SAND, moderate density, wet, dark grey,fine, micaceous, low to medium plasticity. Stratified layer of clay at 0.9' to 0.95'. Some lenses of brown clay to 2.5'. Color transition to mottled black/dark grey/brown at 2.5'. Very strong hydrocarbon odor. Some gravel from 2.5' to 6.1'. Asphalt material/oil product conglomeration from 2.5' to 4.3'. Heavy from 2.5' to 3.2' and from 3.8' to 4.3'. Trace coarse gravel from 3.1' to 3.3'.
	5	<5.5 ppm		Suite B-bottom				SILTY SAND, moderate density, wet, mottled black/dark grey, fine, micaceous. Strong hydrocarbon odor. Trace gravel to 6.1'.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-76-5

Location: Cells 3, 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/7/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457419.96 feet
Drilling Method:	Vibracore	Northing:	559280.56 feet
Sampling Method:	Extraction	Ground Elevation:	0.15 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, olive grey, fine, micaceous. Some lenses of oxidation.*
						CL		*SILTY CLAY, soft, wet, black. Trace sand, very fine, micaceous. Strong hydrocarbon odor. Soft petroleum product conglomeration from 0.7' to 1.4', medium plasticity.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous. Some shell fragments from 3.0' to 3.3'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-77-1

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457399.00 feet
Drilling Method:	Vibracore	Northing:	559596.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*CLAYEY SILT, trace of fine sand, dark brown, wet, slightly plastic, soft, organic matter.*
0								*SILT, some fine sand, dark grey, wet, non-plastic, medium stiffness, shells from 2.3' to 2.7'.*
		0.0 ppm		Suite B-mid		ML		
								CLAYEY SILT, dark grey, moist, soft, slightly plastic.
	5							*SILTY SAND, fine sand and silt, dark grey, moist, dense.*
-5		0.0 ppm		Suite B-bottom		SM		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-77-2

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/2/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1457285.00 feet
Drilling Method:	Vibracore	Northing:	559678.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, black, stiff, large tar ball, damp.*
						SC		*CLAYEY SAND, brown, medium to coarse sand, 30% clay, cohesive, moist, very dense. Increased clay content downward.*
						CL		*SANDY CLAY, orangish brown, moist, moderately stiff, fine to medium sand, moderate plasticity.*
		0.0 ppm		Suite B-mid		SP		*SAND, dark grey, black mottling in upper 3", very fine sand, micaceous, wet, some silts. Shell hash 4' and below.*
0	5	0.0 ppm		Suite B-bottom		SM		*SANDY SILT, dark grey, saturated (wet), very fine sand, micaceous, cohesive.*
						SP		*SAND, dark grey, saturated (wet), very fine sand, micaceous, wet, some silts..*

Comments:

1.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-77-3

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457249.00 feet
Drilling Method:	Vibracore	Northing:	559793.00 feet
Sampling Method:	Extraction	Ground Elevation:	3.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		SANDY SILT, fine to medium sand, a couple of rocks (fine gravel) in top 3", dune grass mat at top, damp, moderate density.
						CL		LEAN CLAY, dark brown, damp, slightly plastic, soft.
						ML		SANDY SILT, fine to medium sand, damp, moderate density.
						CL		SILTY CLAY, medium brown to black, laminations of black, slight plasticity, soft, strong hydrocarbon odor, damp.
								SAND, fine sand with some silt (15%), olive grey, wet, mottling, zone of shells 4.1' to 4.5', no odor over length of core.
0		0.0 ppm		Suite B-mid		SP		
	5							SILT, some fine sand, olive grey, wet, non-plastic, soft, micaceous silts.
		0.0 ppm		Suite B-bottom		ML		
-5								

Comments:

1.35' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-78-1

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457687.00 feet
Drilling Method:	Vibracore	Northing:	559608.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SANDY SILT, silt and fine sand, medium brown, moist, non-plastic, soft, reddish brown vertical streaking, no odor, trace of micaceous sand/silt.*
0								
						ML		*SILT, trace of fine sand, olive grey, moist, non-plastic, soft. Shells from 2' to 2.1'. Micaceous silts, fine detritus between 3.2' and 4.9'.*
								As above, wet.
		0.0 ppm		Suite B-mid				*SILTY SAND, silt and fine sand, olive grey, wet, moderate density, micaceous silts/sand.*
	5					SM		
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-78-2

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457561.00 feet
Drilling Method:	Vibracore	Northing:	559677.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SAND, fine to fine/medium sand, trace of coarse sand, light to dark brown, moist, loose.
						ML		SANDY SILT, fine sand and silt, olive grey to medium grey, moist, non-plastic, soft, mottling, detritus, some micaceous silts.
0								As above, medium grey.
		0.0 ppm		Suite B-mid		SP		SAND, fine sand, trace of silt, medium grey, wet, medium density.
	5							As above, occasional pockets of silt.
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-79-1

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1457605.96 feet
Drilling Method:	Vibracore	Northing:	558922.22 feet
Sampling Method:	Extraction	Ground Elevation:	1.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*Weathered asphalted oil with some silt and sand, strong odor.*
0								*SILT, dark grey, wet, low plasticity, medium stiffness, black (hydrocarbon) streaking.*
								As above, nonplastic, mottling from 1.8' to 2.5'.
		0.0 ppm		Suite B-mid		ML		
	5							
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-79-2

Location: Cell 8

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457805.63 feet
Drilling Method:	Vibracore	Northing:	559010.84 feet
Sampling Method:	Extraction	Ground Elevation:	0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILT, greyish brown, wet, soft, slightly plastic, hydrocarbon streaks, slight odor.*
0								
								SILT, trace of fine sand, greyish brown, moist, non-plastic, medium stiffness, mottling.
								SILT, dark grey, moist, slightly plastic, soft, small shells throughout
		0.0 ppm		Suite B-mid		ML		
	5							*SILTY FINE SAND, dark grey, moist, medium density.*
-5		0.0 ppm		Suite B-bottom		SM		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-80-1

Location: Cell 14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1458074.00 feet
Drilling Method:	Vibracore	Northing:	559704.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SP		SAND, fine sand with silt, brown, wet, loose, well sorted, micaceous silt.
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom		ML		CLAYEY SILT, dark brown, moist, silt with trace of clay, low plasticity, soft.

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-80-2

Location: Cell 14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/15/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458123.00 feet
Drilling Method:	Vibracore	Northing:	559679.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*SILT with fine sand, wet, brown, non-plastic, medium stiff, some micaceous silt.*
						MH		*As above, shells (~1/2").*
		0.0 ppm		Suite B-mid				*SILT with fine sand, dark grey, wet, non-plastic, medium stiffness, occasional shells to 4'.*
	5					ML		*CLAYEY SILT, dark grey, wet, low plasticity, soft.*
-5		0.0 ppm		Suite B-bottom		MH		*SILT with fine sand, dark grey, wet, non-plastic, medium stiffness, sulpher odor.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-81-1

Location: Cell 19

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458118.00 feet
Drilling Method:	Vibracore	Northing:	560128.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		ORGANIC SILT, black, damp, non-plastic to slightly plastic, soft.
						ML		CLAYEY SILT, trace of fine sand, brown, moist, slightly plastic, soft, mottling.
						SC		CLAYEY SILTY SAND, greyish brown, moist to wet, medium dense.
		0.0 ppm		Suite B-mid				SAND, fine with trace of silt, dark grey, moist to wet, trace amounts of detritus, shells throughout.
						SP		SAND, fine with some silt, dark grey, moist to wet, medium dense to dense, shells to 5.7'.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-81-2

Location: Cell 19

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458103.00 feet
Drilling Method:	Vibracore	Northing:	560236.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		CLAYEY SILT, trace of fine sand, brown to dark brown, moist, slight plasticity, soft to medium stiff, root hairs and detritus thoughout.
0						SP		SAND, fine, trace of silt, light brown, moist, medium density, mottling, root hairs to 2'.
		0.0 ppm		Suite B-mid				As above, wet.
								As above, medium grey, no mottling, zone of shells 3.5' to 3.7'.
						SM		SILTY SAND, fine sand and silt, dark grey, wet, medium dense to dense, some shells from 4.8' to 5.0'.
	5	0.0 ppm		Suite B-bottom		ML		SILT, trace of fine sand, dark grey, wet, non-plastic, medium stiff to stiff.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-81-3

Location: Cell 19

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458217.00 feet
Drilling Method:	Vibracore	Northing:	560145.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SILTY CLAY, dark brown, moist, soft, low plasticity.*
0						SC		*CLAYEY SILTY SAND, fine sand, light brown, moist, non-plastic, medium density, mottling, fine root hairs.*
						SP		*SAND, well sorted fine sand, trace of silt, moist, medium density, mottling, trace of detritus, occasional shells from 2' to 2.6'.*
		0.0 ppm		Suite B-mid		ML		*SILT, some fine sand, dark grey, wet, non-plastic, soft to medium dense.*
						SM		*SAND with some silt, dark grey, wet, medium density.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-82-1

Location: Cells 19, 29

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458838.00 feet
Drilling Method:	Vibracore	Northing:	559989.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, fine sand with silt, medium to dark brown, moist, mottling throughout, medium density, some micaceous sand and silt.*
		0.0 ppm		Suite B-mid		ML		*SILT, dark grey, moist, non-plastic, medium stiffness, mottling, some micaceous silts, trace detritus.*
								As above, with broken shells.
-5	5	0.0 ppm		Suite B-bottom		SP		*SAND, fine, dark grey, moist, medium density,*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-82-2

Location: Cells 19, 29

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458773.00 feet
Drilling Method:	Vibracore	Northing:	560102.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		PT		PEAT, organic topsoil, black, damp, loose clumps, roots and fine hairs throughout.
0						SM		SILTY SAND, fine sand, olive grey, moist, medium dense, mottling and fine root hairs throughout, shells from 2.2' to 2.4'.
		0.0 ppm		Suite B-mid				
						ML		SILT, trace of fine sand, dark grey, wet, non-plastic, medium stiff.
						CL		LEAN CLAY, olive grey, moist, slight plasticity, soft.
	5							SILTY SAND, fine sand and silt, dark grey, wet, dense.
-5		0.0 ppm		Suite B-bottom		SM		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-82-3

Location: Cells 19, 29

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458649.00 feet
Drilling Method:	Vibracore	Northing:	560171.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, some fine sand, light brown, moist, non-plastic, medium stiffness, mottling and root hairs throughout.*
		0.0 ppm		Suite B-mid		SP		*SAND, fine, trace of silt, medium to light brown, moist, medium density, root hairs to 2'.*
								Transition zone of thick broken shells.
						ML		*SILT, dark grey, moist, non-plastic, soft to medium stiff.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-83-1

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	1/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1459281.04 feet
Drilling Method:	Vibracore	Northing:	560768.63 feet
Sampling Method:	Extraction	Ground Elevation:	2.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*LEAN CLAY, dark brown, moist, medium plasticity, soft, organic material in first 7", mottling around 8".*
0		0.0 ppm		Suite B-mid				*As above with 1/8" shell fragments.*
								LEAN CLAY, dark brown, moist, medium plasticity, soft.
						ML		*CLAYEY SILT, dark brown, moist, low plasticity, soft, light sulpher odor.*
	5	0.0 ppm		Suite B-bottom				*As above, with increased amount of broken shells.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-83-2

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	1/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	Crane
Logged By:	S. Drinkard	Easting:	1459333.00 feet
Drilling Method:	Vibracore	Northing:	560674.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, wet, soft, fine to medium sand, some orange mottling, cohesive, plastic, micaceous.*
								SILTY CLAY, medium brown, wet, soft to slightly firm, micaceous, mottled, moderate plasticity.
0								*CLAYEY SILT, grey, moist, firm, mottled, micaceous, very plastic, cohesive.*
		0.0 ppm		Suite B-mid		MH		
								SILTY SAND, grey, moist, tight, micaceous, 30% silt, 70% very fine sand, contains shell fragments.
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

Hand core to 2'.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-84-1

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459227.98 feet
Drilling Method:	Vibracore	Northing:	560605.18 feet
Sampling Method:	Extraction	Ground Elevation:	0.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*Sand (?), organic material (wood) with tar, little or no sediment, wet.*
						CL		*SANDY CLAY, dark brown with orange mottling, very plastic, stiff, wet, 20% sand.*
						ML		*SILT, dark grey, mottled with black, moderate plasticity, micaceous, dense, wet.*
		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, dark grey, wet, moderate plasticity, soft.*
-5	5	0.0 ppm		Suite B-bottom		SP		*SAND, grey, very fine to fine sand, wet, dense.*

Comments:

0.45' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-84-2

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459210.00 feet
Drilling Method:	Vibracore	Northing:	560552.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, dark brown, fine to medium sand, roots, dry, moderate plasticity.*
								CLAY, tan, laminated, moderate plasticity, moist.
0						SP		*SAND, dark brown, fine to medium sand, loose, wet, becomes dense at ~1.2'.*
						CL		*SILTY CLAY, grey with orange mottling, wet, soft, moderate plasticity, micaceous.*
		0.0 ppm		Suite B-mid		CH		*CLAY, grey, some mottling, high plasticity, stiff, little or no silt, wet.*
						ML		*SILT, brownish grey, mottled with orange, wet, dense, low plasticity.*
	5					CL		*SILTY CLAY, dark grey,micaceous, moderate plasticity, wet, soft.*
		0.0 ppm		Suite B-bottom				
-5						SP		*SAND, grey, wet, very fine to fine sand, dense.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-85-1

Location: Cell 32

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459436.00 feet
Drilling Method:	Vibracore	Northing:	560231.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.70 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		CLAYEY SAND, organic material, wood and roots, dark brown.
						ML		CLAYEY SILT, brown with orange mottling, wet, low plasticity, micaceous.
						SM		SILTY SAND, brown, wet, orange mottling, root material, very fine sand.
		0.0 ppm		Suite B-mid				SAND, grey, orange mottling, very fine to fine sand, wet, dense, micaceous.
-5						SP		No mottling.
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-85-2

Location: Cell 32

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459351.00 feet
Drilling Method:	Vibracore	Northing:	560494.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, well graded, fine to coarse sand, wet, dark brown, loose.*
0						GC		*CLAYEY GRAVEL, brown, fine gravel, loose, well rounded.*
						SW		*SAND, light brown fine to coarse sand, wet, dense, well rounded.*
						CL		*CLAY, black, strong petroleum odor, plastic, stiff, moist.*
		0.0 ppm		Suite B-mid		OL		*CLAYEY SILT, dark grey, mottled black, wet, dense, low plasticity, micaceous.*
						SM		*SILTY SAND, dark grey, very fine to fine sand, wet, dense.*
	5							*SAND, dark grey, very fine to fine sand, dense, shell hash.*
-5		0.0 ppm		Suite B-bottom		SP		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-85-3

Location: Cell 32

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459331.80 feet
Drilling Method:	Vibracore	Northing:	560603.55 feet
Sampling Method:	Extraction	Ground Elevation:	2.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dark brown, moist, fine to medium sand, dense, root material.*
						SW		*SAND, yellowish brown, wet, loose, fine to coarse sand, some fine gravel.*
						SM		*SILTY SAND, dark brown, wet, fine to medium sand, moderate density.*
0		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, dark grey, wet, stiff, micaceous, low plasticity, mottled with black.*
						SP		*SILTY SAND, dark grey, very fine sand, mottled with black, dense.*
	5	0.0 ppm		Suite B-bottom				*Shells in sediment.*
								Increased number of shells.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-86-1

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459213.00 feet
Drilling Method:	Vibracore	Northing:	560385.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.70 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, dark brown to black, damp, low plasticity, soft to medium stiff, fine root hairs throughout.*
0								*Solid rock-broken boulder, matrix as above, light hydrocarbon odor, mottling.*
		0.0 ppm		Suite B-mid		CL		*LEAN CLAY, medium grey (with black streaking to 2.9'), dry, soft, low plasticity, strong hydrocarbon odor.*
	5					SP		*SAND, fine, trace silt (<5%), dark grey, medium density, wet, well sorted, sulphur and hydrocarbon odor.*
-5		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-86-2

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459212.00 feet
Drilling Method:	Vibracore	Northing:	560439.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0			*Suite C*		SW		*SAND, poorly sorted, fine to medium grain, trace of silt, dark brown, trace of organic matter.*
								Semi-consolidated siltstone with some fine to medium sand, dry, hard.
0								*Clay and weathered asphalted hydrocarbon, dry, dark brown to black, hard, light hydrocarbon odor.*
				Suite B-mid		CL		*LEAN CLAY, medium plasticity, dry, medium stiff to stiff, light brown.*
								LEAN CLAY, medium plasticiy, dry, medium stiff to stiff, black and light brown, strong hydrocarbon odor, thick streaking and pitted areas.
	5							*SILT, olive grey, moist, low plasticity, soft, micaceous silts, mild sulphur and hydrocarbon odor.*
				Suite B-bottom		ML		
-5								

Comments:

1.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-87-1

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459173.00 feet
Drilling Method:	Vibracore	Northing:	560140.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*LEAN CLAY, light brown, wet (soupy), medium plasticity, soft.*
						OL		*ORGANIC SILT, dark brown to black, low plasticity, very stiff.*
						CL		*LEAN CLAY, medium brown, moist, low to medium plasticity, soft.*
								SILT, medium brown, moist, low plasticity, soft, mottling, micaceous sand and silt, trace of fine sand, light sulphur odor.
								SILT, dark grey, moist, trace of fine sand, non-plastic, soft, black streaking and light hydrocarbon odor to 2.2'. Short layer of shells at 2.1, sulphur odor also.
		0.0 ppm		Suite B-mid				
						ML		*CLAYEY SILT, dark grey, moist, medium plasticity, soft, light sulphur odor.*
-5	5							*SILT, dark grey, moist, trace of fine sand, slightly plastic, soft, sulphur odor.*
		0.0 ppm		Suite B-bottom				

Comments:

O-6" composited with same from CAR-87-2, 30-36" and 66-72" samples composited with same from CAR-87-2.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-87-2

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459182.00 feet
Drilling Method:	Vibracore	Northing:	560113.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*CLAYEY SILT, dark grey, dry, low plasticity, soft, roots throughout, no odor.*
0								*SILT with some clay, olive grey, moist, low plasticity, mottling and fine root hairs to 3.3', zone of shells (about 15%) from 2.7' to 3.3', no odor.*
		0.0 ppm		Suite B-mid		ML		
								SILT, with some clay, medium grey, moist, low plasticity, no odor.
	5							*SAND, fine with trace of silt, moist, dark grey, medium density, mild sulphur odor.*
-5		0.0 ppm		Suite B-bottom		SP		

Comments:
O-6" composited with same from CAR-87-1, 30-36" and 66-72" samples composited with same from CAR-87-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-88-1

Location: Cell 32

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459376.00 feet
Drilling Method:	Vibracore	Northing:	560053.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, dark brown, low plasticity, soft, some fine to medium sand (15%).*
0						ML		*SILT, medium brown, wet, low plasticity, soft, trace of fine sand.*
		0.0 ppm		Suite B-mid		SP		*SAND, poorly graded with silt (30%), wet, non-plastic, soft, fine grain, shell fragments (<5%) below 3.8', mild sulphur odor.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

O-6" composited with same from CAR-88-2, 30-36" and 66-72" samples composited with same from CAR-88-2.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-88-2

Location: Cell 32

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459354.00 feet
Drilling Method:	Vibracore	Northing:	560034.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.70 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILT, medium brown, wet, low plasticity, soft, trace of fine sand, micaceous silt/sand. Thick organic matter in top 2", trace of fine root hairs below 2", mottling below 1', no odor.*
0		0.0 ppm		Suite B-mid		SP		*SAND, fine, poorly graded with silt (30%), wet, non-plastic, soft. Shell fragments (<5%) below 3.8', mild sulphur odor.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

O-6" composited with same from CAR-88-1, 30-36" and 66-72" samples composited with same from CAR-88-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-89-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457014.59 feet
Drilling Method:	Hand Auger	Northing:	558434.95 feet
Sampling Method:	Extraction	Ground Elevation:	1.96 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	*0.0 ppm*		*Suite C*		OL		*SILT, top 2", very soft, wet, black. Some sand, very fine, micaceous. Detritus.*
						ML		*CLAYEY SILT, soft, wet, olive grey. Some sand, very fine, micaceous. Medium plasticity. Some organic material in stratified layers throughout.*
0								
	5							
-5								

Comments:

Truck stuck on way to CAR-89-1, CAR-89-2. No way to currently access. Surface sample required per Carol Gorbics. No Suite B.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-89-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	8/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457040.57 feet
Drilling Method:	Hand Auger	Northing:	558376.68 feet
Sampling Method:	Extraction	Ground Elevation:	2.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	*0.0 ppm*		*Suite C*		OL		*SILT, top 2", very soft, wet, black. Some sand, very fine, micaceous. Detritus.*
						ML		*CLAYEY SILT, soft, wet, olive grey. Some sand, very fine, micaceous. Medium plasticity. Some organic material stratified throughout.*
0								
	5							
-5								

Comments:

Truck stuck on way to CAR-89-1, CAR-89-2. No way to currently access. Surface sample required per Carol Gorbics. No Suite B.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-90-1

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457104.00 feet
Drilling Method:	Vibracore	Northing:	557218.00 feet
Sampling Method:	Extraction	Ground Elevation:	5.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, poorly graded, medium brown, damp, loose, trace of fines, roots, no odor.*
5								*Weathered asphalt, black, 1/2" to 3/4" chunks.*
						SW		*SAND, well graded, medium brown, dense, fine to medium sand with fine to medium gravel, trace of silt, slight odor at 2.1'.*
		0.0 ppm		Suite B-mid		SP		*SAND, poorly graded, dark brown, dense, fine and medium grain with a trace of clay.* *SAND, as above, dark grey, strong hydrocarbon odor.*
	5					SC		*CLAYEY SAND, poorly sorted, dark grey with black areas, fine to medium sand, trace of fine to medium gravel, strong hydrocarbon odor.*
0		0.0 ppm		Suite B-bottom				
						CL		*LEAN CLAY, dark grey, moist, slightly plastic, medium stiff to stiff.*

Comments:

1.7' pre-bore.
O-6" composited with same from CAR-90-2, 30-36" and 66-72" samples composited with same from CAR-90-2.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-90-2

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457412.00 feet
Drilling Method:	Vibracore	Northing:	557094.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, dark brown and black, wet, trace of fine to medium sand, thick organic matter, strong hydrocarbon odor.*
						SP		*SAND, fine to medium grain, dark grey to olive grey, wet, thick detritus, medium density, strong odor.*
						OL		*SILT, fine organic matter, dark brown, wet, non-plastic, soft, strong odor.*
						SC		*CLAYEY SAND, fine sand, medium grey, wet, medium density, root hairs and detritus.*
0								*SAND, fine to medium grain, dark grey, wet, medium density. Thick shells from 2.5' to 3.3', occasional shells below 3.3', strong odor to 2.5'.*
		0.0 ppm		Suite B-mid				
						SP		
	5							
		0.0 ppm		Suite B-bottom				
-5								

Comments:

O-6" composited with same from CAR-90-1, 30-36" and 66-72" samples composited with same from CAR-90-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-91-1

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457823.00 feet
Drilling Method:	Vibracore	Northing:	557785.00 feet
Sampling Method:	Extraction	Ground Elevation:	2.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC CLAYEY SILT, dark brown, dry to damp, non-plastic, medium stiffness, roots and root hairs throughout.*
						CL		*SILTY CLAY, medium to dark brown, black layering, dry to moist, slightly plastic, medium stiffness, root hairs, mild odor.*
								LEAN CLAY, light brown, soft, moist, low plasticity, trace detritus.
0		0.0 ppm		Suite B-mid		ML		*SILT, trace of fine sand, olive grey, moist, non-plastic, soft.*
	5	0.0 ppm		Suite B-bottom		SP		*SAND, fine with trace of silt, olive grey, moist, medium density, trace of organic matter to 4.5'.*
-5								

Comments:

1.4' pre-bore, hard to cut core to remove.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-91-2

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1457761.00 feet
Drilling Method:	Vibracore	Northing:	557822.00 feet
Sampling Method:	Extraction	Ground Elevation:	2.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*CLAYEY SILT mixed with weathered petroleum product, slightly plastic, medium stiffness, moderate odor, grey/black and brown.*
								SILT, trace of fine sand, dark grey, moist, slightly plastic, soft, moderate odor to 2.0'.
0		0.0 ppm		Suite B-mid		SP		*SAND, fine with trace of silt, dark grey, moist to wet.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-92-1

Location: Cell 10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458292.00 feet
Drilling Method:	Vibracore	Northing:	557868.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		LEAN CLAY, medium brown, damp, low plasticity, medium stiffness, some root hairs and detritus.
								SAND, fine with some silt, brown, wet, medium density.
								SAND, fine, light brown, wet, medium density, mottling from 2' to 2.2'.
0		0.0 ppm		Suite B-mid				
						SP		SAND, fine with trace of silt (10%), medium brown, wet, medium density.
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-92-2

Location: Cell 10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458340.00 feet
Drilling Method:	Vibracore	Northing:	557870.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		CLAYEY SAND, fine sand and clay (35%), loose wet, olive grey, mottling throughout.
0								SAND with some silt, dark grey, wet, loose, some micaceous sands.
		0.0 ppm		Suite B-mid		SM		
	5							
-5		0.0 ppm		Suite B-bottom				As above, with broken shells.

Comments:

O-6" composited with O-6" sample from CAR-92-1 30-36" and 66-72" samples composited with mid and bottom samples of CAR-92-1.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-93-1

Location: Cell 10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458347.00 feet
Drilling Method:	Vibracore	Northing:	558038.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		SILTY SAND, fine sand and silt (40%), dark brown, wet, loose to medium density, some micaceous sands, no odor.
0						SP		SAND, fine with trace of silt, light brown/grey, wet, loose to medium density, micaceous sands.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, fine sand and silt (40%), dark grey, wet, medium density, micaceous sands.
						ML		SANDY SILT, silt with fine sand, dark grey, wet, non-plastic, soft to medium stiffness.
	5					SM		SILTY SAND, fine sand and silt (40%), dark grey, wet, medium density, micaceous sands.
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-93-2

Location: Cell 10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/17/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1458318.00 feet
Drilling Method:	Vibracore	Northing:	558098.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.70 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SAND, fine, greyish brown, wet, medium density, mottling, well sorted, no odor.*
0								*As above, trace of silt.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, fine sand with some silt, dark grey, wet, medium density, slight odor.*
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-94-1

Location: Cell 9

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458646.00 feet
Drilling Method:	Vibracore	Northing:	558211.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*ORGANIC SILTY SAND, loose, dry, light brown, fine to medium grain, micaceous. (Fill) Abundant roots.*
		0.0 ppm		Suite B-mid		SP		*SAND, loose, dry, mottled brown/tan, fine to medium grain, micaceous. Some gravel, some silt. Stratified layer of silty clay, low to medium plasticity from 1.7' to 1.9' and 2.6' to 2.7', stiff, some rootlets. (Fill)*
						SM		*SILTY SAND, moderate density, wet, olive grey, fine, micaceous. Some oxidized root channels.*
						CL		*CLAY, soft, sticky, wet, olive grey, medium plasticity.*
0	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, light olive grey, fine, micaceous. Some oxidized root channels at 5.5'.*

Comments:

2.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-94-2

Location: Cell 9

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458493.00 feet
Drilling Method:	Vibracore	Northing:	558264.00 feet
Sampling Method:	Extraction	Ground Elevation:	3.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, dry, light brown, fine to medium grain, micaceous, some roots. (Fill)*
						SP		*SAND, loose, moist to wet, mottled brown and tan, fine to medium grain. Some gravel, some silt. (Fill)*
		0.0 ppm		Suite B-mid				
0								*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous.* *Some oxidized root channels to 5.2'.* *Some petroleum globules from 3.8' to 4.5'. Moderate hydrocarbon odor.*
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

2.45' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-96-1

Location: Cell 28

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1459221.87 feet
Drilling Method:	Vibracore	Northing:	559730.76 feet
Sampling Method:	Extraction	Ground Elevation:	2.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		SANDY SILT, moderate density, moist, dark brown, low plasticity. Sand is coarse, some pebbles. Slight hydrocarbon odor. Some plant material.
						SM		SILTY SAND, moderate density, wet, grey, fine, micaceous, well sorted.
						ML		Sand and rusted metal formed into a very dense (rock hard) layer. Rust colored sand is coarse.
								SILT, soft, moist, dark grey, low to medium plasticity, trace micaceous. Slight hydrocarbon odor.
0		0.0 ppm		Suite B-mid		SM		SILTY SAND, moderate density, wet, grey with some black mottling to 3', fine, micaceous, well sorted. Slight H2S odor to 3'. The black could be hydrocarbons.
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-96-2

Location: Cell 28

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1459165.83 feet
Drilling Method:	Vibracore	Northing:	559738.72 feet
Sampling Method:	Extraction	Ground Elevation:	-2.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SANDY SILT, soft with chunks of cemeted oxidized material, wet, reddish brown. Black hydrocarbons present.*
						ML		*SILT, soft, moist to wet, plastic, some mica, trace fine sand. Layer of heavy hydrocarbons and peat from 0.9' to 1.4'.*
-5		0.0 ppm		Suite B-mid				
								SILTY SAND, moderate density, wet, grey, fine, micaceous, well sorted, trace small shell fragments to 3.5'.
	5					SM		
		0.0 ppm		Suite B-bottom				
-10								*Comments:*

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-1

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1459827.73 feet
Drilling Method:	Vibracore	Northing:	559218.08 feet
Sampling Method:	Extraction	Ground Elevation:	3.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, loose to dense, dry, dark brown, fine, trace micaceous. (Fill) Some gravel throughout. Non-plastic to low plasticity. Color transition to black at 1.2', petroleum saturated. Very strong hydrocarbon odor.*
0		0.0 ppm		Suite B-mid				
	5	0.0 ppm		Suite B-bottom		CL		*SANDY CLAY, medium stiffness, wet, dark olive grey, very fine, micaceous, medium plasticity. Abundant globules of black petroleum product, strong hydrocarbon odor.*
-5								

Comments:

2.05' and 3.6' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-5

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/1/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1459315.00 feet
Drilling Method:	Vibracore	Northing:	559259.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, black (top 6") to dark brown, orange mottling throughout, soft, wet, plastic to highly plastic, fine sand 30%.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, grades to sand, dark grey, very dense, moist, micaceous, very fine to fine sand.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-4

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459453.89 feet
Drilling Method:	Vibracore	Northing:	559494.68 feet
Sampling Method:	Extraction	Ground Elevation:	3.70 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, dark brown, dry, medium density, fine sand and clay.*
						CL		*LEAN CLAY, dark grey, dry, medium plasticity, stiff, trace of fine sand (8%), strong hydrocarbon odor (burnt oil smell).*
		15.7 ppm		Suite B-mid				
0						SC		*CLAYEY SAND, dark grey, dry, dense, strong hydrocarbon odor.*
	5					CH		*FAT CLAY, olive grey, dry, medium to high plasticity, stiff, strong hydrocarbon odor.*
		0.0 ppm		Suite B-bottom		ML		*SILT, olive grey, moist, non-plastic, soft, trace of clay and fine sand, mild hydrocarbon odor.*

Comments:

1.35' pre-bore.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-3

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1459427.00 feet
Drilling Method:	Vibracore	Northing:	559610.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, dark brown, dry, low plasticity, soft, some clay, root hairs and organic matter.*
						CL		*LEAN CLAY, olive grey, dry, medium stiff, low plasticity, yellow orange mottling.*
		0.0 ppm		Suite B-mid				*LEAN CLAY, olive grey, dry, medium plasticity, soft, mottling to 2.2'.*
	5					ML		*SILT, dark grey, moist, soft to medium stiff, non-plastic, micaceous silts.*
-5		0.0 ppm		Suite B-bottom				

Comments:

1.8' pre-bore.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-2

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1459280.00 feet
Drilling Method:	Vibracore	Northing:	559146.00 feet
Sampling Method:	Extraction	Ground Elevation:	-1.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, dark olive grey, fine, micaceous. Some oxidized root channels to 1.2'. Some black globules from 1' to 1.8'. Color transition to dark grey at 1.2'.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-97-6

Location: Cells 21, 27, 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1459498.23 feet
Drilling Method:	Vibracore	Northing:	559283.90 feet
Sampling Method:	Extraction	Ground Elevation:	-5.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
-5								
	0	0.0 ppm		Suite C				SAND, loose, wet, dark grey, fine, micaceous, some silt. Top 3" silty sand, soft. Slight gradation change to fine-to-medium at 3'. Slight increase in silt percentage to depth.
		0.0 ppm		Suite B-mid		SW		
-10								
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-98-1

Location: Cell 33

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/4/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1459945.00 feet
Drilling Method:	Vibracore	Northing:	559748.00 feet
Sampling Method:	Extraction	Ground Elevation:	-1.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				SILT, soft, moist, plastic, brown, trace of sand and plant fibers, thin layer of salt crystals. Some black anoxic material.
						ML		SANDY SILT, soft to firm, moist, medium plasticity, grey. Sand is fine, micaceous. Tan above 1.2'.
		0.0 ppm		Suite B-mid				
-5						SM		SILTY SAND, moderate density, moist, fine, micaceous, well sorted.
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-98-2

Location: Cell 33

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1460027.00 feet
Drilling Method:	Vibracore	Northing:	559780.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense, moist, dark brown, coarse, poorly sorted, organic content (plant matter).*
0						SP		*SAND, moderate density, moist, tan, fine to coarse, poorly sorted, micaceous, trace of silt content.*
						ML		*SANDY SILT, firm, moist, dark grey with black hydrocarbon mottling, moderate hydrocarbon odor, medium plasticity. Sand is fine, micaceous.*
		0.0 ppm		Suite B-mid				*SILTY SAND, moderate density, moist to wet, grey, fine, micaceous, well sorted. Some shell fragments around 3.5'.*
	5					SM		
		0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-99-1

Location: Cell 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1459935.65 feet
Drilling Method:	Vibracore	Northing:	559341.33 feet
Sampling Method:	Extraction	Ground Elevation:	0.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, soft, dark brown. Some sand, very fine, micaceous. Low plasticity.*
						CL		*SILTY CLAY, soft, wet, olive grey. Some sand, very fine, micaceous. Some lenses of oxidation and oxidized root channels. Medium plasticity.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, olive grey, very fine, micaceous, low plasticity, sticky. Strong H2S odor.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, olive grey, fine, micaceous, non-plastic.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-99-2

Location: Cell 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/19/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460028.26 feet
Drilling Method:	Vibracore	Northing:	559332.26 feet
Sampling Method:	Extraction	Ground Elevation:	0.29 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SP		*SAND, loose to moderately dense, wet, dark brown, fine to medium, micaceous. Some silt, some gravel, some oxidation.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, wet, mottled dark olive grey and dark grey. Strong H2S odor. Some oxidized root channels to 2.5'. Some black globules to 1.6'.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-1

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460016.48 feet
Drilling Method:	Vibracore	Northing:	560945.68 feet
Sampling Method:	Extraction	Ground Elevation:	2.09 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, medium density, moist, brown. Medium grain size (poorly sorted), micaceous. Some plant roots near top. Hydrocarbons below 1.3'.*
0		0.0 ppm		Suite B-mid		ML		*SANDY SILT, stiff, moist, black to 2.5', grey below. Medium plasticity, micaceous. Hydrocarbon odor.*
						CL		*SILTY CLAY, soft, moist, grey, medium plasticity, micaceous, rust mottling due to oxidation.*
						SM		*SILTY SAND, moderate density, moist (wet near bottom), grey, fine, micaceous. Well sorted, trace of plant material.*
						CL		*SILTY CLAY, as at 3'-4.3'.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, as at 4.4'-4.7'*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-2

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460655.58 feet
Drilling Method:	Vibracore	Northing:	560949.75 feet
Sampling Method:	Extraction	Ground Elevation:	2.23 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		SAND, dense, slightly moist, tan, fine, micaceous. Plant roots, trace of silt.
								Asphalted sand and gravel.
						CL		CLAY, very stiff, moist, light grey, medium plasticity, trace micaceous.
0		0.0 ppm		Suite B-mid				SANDY SILT, stiff, moist, dark grey, medium plasticity. Sand is fine, micaceous.
								SANDY CLAYEY SILT, soft to stiff, moist, dark grey mottled with black hydrocarbons. Medium plasticity. Sand is fine, micaceous. Hydrocarbon odor.
						ML		
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-3

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460434.62 feet
Drilling Method:	Vibracore	Northing:	561017.03 feet
Sampling Method:	Extraction	Ground Elevation:	1.88 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		GP		SANDY GRAVEL, very hard, dry, dark brown. Rocks. Thin layer (0.5") of asphalt near top. Fill material.
								Asphalted sand.
						SP		GRAVELY SAND, dense, oily, moist, dark orangish brown. Coarse, some gravel. Hydrocarbon odor. Slightly asphalted near top and bottom of interval.
0						SM		SILTY SAND, dense, moist, dark grey and black layers. Fine, micaceous, well sorted. Hydrocarbon odor.
		0.0 ppm		Suite B-mid		CL		SILTY SANDY CLAY, stiff, moist, dark grey and black to 3.7', grey below with some rust mottling. Medium plasticity. Thin layer of sand and micaceous aroung 4.5'. Wetter near bottom.
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-4

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460717.00 feet
Drilling Method:	Vibracore	Northing:	560529.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, black, dry, nonplastic,soft.*
						CH		*FAT CLAY, olive grey, dry, high plasticity, stiff, trace of fine root hairs, mottling below 0.5', no odor.*
		0.0 ppm		Suite B-mid				*SAND, poorly graded, yellow orangish grey, moist, dense. Sand very fine, some silt (15%), mottling.*
						SP		*SAND, poorly graded, fine, yellow orange, moist, medium density, mottling.*
-5	5	0.0 ppm		Suite B-bottom		ML		*SILT with fine sand (20%), dark grey, moist, non-plastic, soft. Shells below 5.8' (intact clam shells).*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-5

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460850.35 feet
Drilling Method:	Vibracore	Northing:	560709.85 feet
Sampling Method:	Extraction	Ground Elevation:	-0.34 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, moist, brown, fine to medium, poorly sorted. Considerable roots, few pebbles.*
								Asphalted sand.
						CL		*SILTY CLAY, stiff, moist, tan with some black mottling below 1.7'. Low plasticity, micaceous, trace roots.*
						ML		*SILT, soft, moist, black, medium plasticity. Considerable plant material (roots).*
		0.0 ppm		Suite B-mid				*SILTY CLAY, stiff, moist. From 2.5'-3.2' tan with rust colored mottling (oxidation). Turns dark grey below 3.2'.*
						CL		
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-100-6

Location: Cells 32, 33, 63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460850.31 feet
Drilling Method:	Vibracore	Northing:	560839.11 feet
Sampling Method:	Extraction	Ground Elevation:	-0.05 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY SILT, loose on very top to stiff near bottom. Dry, turning moist. Brown to 0.4', tan below. Low plasticity, plasticity increases with depth. Organic plant material above 0.5', some mica.*
								Asphalted sandy silt - weathered oil. Hydrocarbon odor. Embedded plants.
		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, soft to stiff, moist, dark grey to 3.5', light grey below. Medium plasticity. Fine sand, micaceous. Hydrocarbon odor above 3.5'. Small pieces of oxidized material below 5.2' (rust colored). Trace sand.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, medium density, moist, tan and rust mottling. Fine, micaceous, well sorted.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-101-1

Location: Cell 37

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1461142.00 feet
Drilling Method:	Vibracore	Northing:	560960.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		CLAYEY SAND,dark brown, organic, damp.
						CL		SANDY CLAY, light brown, fine sand 20%, cohesive, high plasticity, stiff, moist.
						SP		SAND, light brown, very fine to fine sand, dense, moist.
		0.0 ppm		Suite B-mid				
						CL		CLAY, brown with orange mottling, stiff, moderate to high plasticity
						SP		SAND, light grey, very fine to fine sand, dense, moist, orange mottling to 5', after 5' grain size increases to medium.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

1.55' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-101-2

Location: Cell 37

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/28/2000	Surveyed By:	Psomas, Inc.
Cored By:		Vessel:	4 X 4 Truck
Logged By:	S. Drinkard	Easting:	1461180.00 feet
Drilling Method:	Vibracore	Northing:	560979.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C				*Top 1" tarball, asphalt-like material, then laminated tar material, black, moist, a lot of wood and organics.*
						SP		*SAND, light brown, mottled with orange, fine sand, dense, damp.*
		0.0 ppm		Suite B-mid		CH		*CLAY, brown, stiff, highly plastic, cohesive, damp, some mottling.*
								SAND, brown with orange mottling, dense, very fine to fine sand, micaceous.
-5								*SAND, light grey with mottling.*
	5					SP		
		0.0 ppm		Suite B-bottom				*SAND, dark grey, no mottling, shell hash.*

Comments:

2.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-102-1

Location: Cell 37

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1461030.00 feet
Drilling Method:	Vibracore	Northing:	560798.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*LEAN CLAY, medium brown to black, dry, slightly plastic, medium stiffness, trace of roots and organic matter.*
						ML		*CLAYEY SILT, medium brown, dry, non-plastic, medium stiffness, trace of fine sand.*
		0.0 ppm		Suite B-mid		CH		*FAT CLAY, medium brown, dry, medium plasticity, stiff, mottling.*
						SP		*SAND, poorly graded, yellow orange, damp, loose. Some fine sand, well sorted, mottling.*
-5	5	0.0 ppm		Suite B-bottom		ML		*SANDY SILT, greenish grey to dark grey, moist, non-plastic, stiff.*

Comments:

Three core tubes: 0-3.6', 3.6'-5.3', 5.3'-7.4'

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-102-2

Location: Cell 37

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1461060.00 feet
Drilling Method:	Vibracore	Northing:	560727.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dark brown to black, slightly moist, dense organic matter in top 2", fine organic matter and roots throughout.*
						OL		*ORGANIC SILT, black, dry, non-plastic, stiff, fine root hairs.*
						CH		*FAT CLAY, dark brown, dry, plastic, stiff.*
		0.0 ppm		Suite B-mid		ML		*SILT, light brown, dry, non-plastic, stiff, trace of fine sand, mottling.*
						CH		*FAT CLAY, dark brown, dry, plastic, stiff.*
-5	5	0.0 ppm		Suite B-bottom		ML		*SILT, light brown, dry, non-plastic, stiff, trace of fine sand, mottling.*

Comments:

Pre-bore to 1.5'.
Core tubes were cut.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-103-1

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460991.08 feet
Drilling Method:	Vibracore	Northing:	560560.69 feet
Sampling Method:	Extraction	Ground Elevation:	0.98 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, stiff, dry, dark brown. Low plasticity. Considerable plant roots. Some organics.*
0						SW		*SAND, tan, loose, slightly moist, medium, micaceous.*
		0.0 ppm		Suite B-mid		CL		*CLAY, very stiff, moist, grey and black layering. Medium to highly plastic. Thin layer of black silt on top near 2'. Thin layer of sand embedded at 2.5'.*
	5	0.0 ppm		Suite B-bottom		ML		*SANDY SILT, stiff, moist, tan with some rust mottling. Sand is very fine, some mica.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-103-2

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	3/30/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460771.90 feet
Drilling Method:	Vibracore	Northing:	559937.28 feet
Sampling Method:	Extraction	Ground Elevation:	-1.46 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, fill, dense, moist, brown. Fine to coarse, poorly sorted. Small rocks, chunks of metal and asphalt. Couple of layers of fine sorted sand (1" around 0.7' and 1.2'). Thin layer of light grey dry clay around 0.5' to 0.6'.*
		0.0 ppm		Suite B-mid		CL		*SILTY CLAY, stiff, moist, black to 2.5', grey below. Some mica. Low plasticity. Black appears to be hydrocarbons.*
-5						SM		*SILTY SAND, moderate density, moist, light greyish tan. Fine, micaceous.*
						CL		*SILTY SANDY CLAY, stiff, moist, tannish grey. Low plasticity, micaceous. Few rust colored streaks (root chases).*
	5	0.0 ppm		Suite B-bottom		ML		*SANDY SILT, stiff, moist, tannish grey. Low plasticity, micaceous. From 5.4' to 5.7' it is black, appears like weathered oil, but no odor.*
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-104-1

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460682.62 feet
Drilling Method:	Vibracore	Northing:	559753.06 feet
Sampling Method:	Extraction	Ground Elevation:	-1.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, medium stiff, wet, dark brown, very fine, micaceous. Abundant organic rootlets. Low to medium plasticity. Some consolidated asphalt.*
						SC		*CLAYEY SAND, moderate density, wet, dark olive grey, fine, micaceous. Low plasticity, some oxidized root channels.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderate in density, wet, dark olive grey. Some lenses of oxidation to 4.2'. Decrease in silt percentage to depth. Color transition to very dark grey at 4.2'.*
-5	5	0.0 ppm		Suite B-bottom				
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-104-2

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1461183.74 feet
Drilling Method:	Vibracore	Northing:	560055.82 feet
Sampling Method:	Extraction	Ground Elevation:	-1.34 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		SANDY CLAY, soft, wet, dark olive grey, very fine, micaceous. Some oxidized root channels.
						SM		SILTY SAND, soft, wet, dark olive grey, fine, micaceous. Some oxidized root channels.
		0.0 ppm		Suite B-mid		SW		SAND, loose to moderate in density, wet, dark grey, fine, micaceous. Some silt.
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-105-1

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461179.68 feet
Drilling Method:	Vibracore	Northing:	560105.28 feet
Sampling Method:	Extraction	Ground Elevation:	1.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		*SILTY, GRAVELY SAND, dense, dry, dark brown with layers of black. Uneven grain sizes, small rocks, chunks of asphalt. Slight hydrocarbon odor, weathered oil in layers.*
0								*SILT, very hard, dry, light grey to tan. Non-plastic. Cemented almost like mudstone.*
		0.0 ppm		Suite B-mid		ML		*SANDY SILT, soft, moist, brown to 3', grey below. Medium plasticity. Some micaceous hydrocarbons to 2.8'.*
						SM		*SILTY SAND.*
						CL		*SILTY CLAY, stiff, moist, grey mottled with rust oxidation.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, medium density, moist, grey, fine, micaceous.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-105-2

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461180.00 feet
Drilling Method:	Vibracore	Northing:	560105.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SILTY, GRAVELY SAND, fill. Dense, dry, turning slightly moist, dark brown.
0						ML		CLAYEY SILT, stiff, moist. Black from 0.7' to 1.2', grey with black streaks 1.2'-2.7'. Sediment or soil is slightly asphalted from 0.7' to 1.7'. Fine sand occurrence in layers. Transition to fine sand from 2.5' to 3'.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, moderate density, moist, tan, very fine.
						CL		SILTY CLAY, stiff, moist, tan with rust mottling, moderate plasticity. Trace micaceous.
	5							SILTY SAND, moderate density, moist. Tan to 5.7', grey below. Rust mottling, fine, micaceous.
-5		0.0 ppm		Suite B-bottom		SM		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-106-1

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1461182.00 feet
Drilling Method:	Vibracore	Northing:	559906.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, loose to moderately dense, dry, brown, fine to medium. Some gravel and cobble to 3".*
0		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, dense, moist, olive grey, fine, micaceous. Some oxidized root channels. Black material from 1.3' to 1.4'.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Some oxidized root channels. Abundant shell fragments from 5.2' to 5.3'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-106-2

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1461118.00 feet
Drilling Method:	Vibracore	Northing:	559893.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.90 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, dense, moist, dark brown, fine to medium. Some gravel. Some consolidated hard black petroleum product.*
0						SC		*CLAYEY SAND, dense, moist, light olive grey, very fine, micaceous. Some oxidized root channels.*
		0.0 ppm		Suite B-mid				
						SM		*SILTY SAND, loose to moderately dense, olive grey, fine, micaceous. Some oxidized root channels.*
	5							
-5		0.0 ppm		Suite B-bottom				*Color transition to dark grey at 5.6'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-107-1

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1457759.00 feet
Drilling Method:	Vibracore	Northing:	556915.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.38 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, very wet, dark brown/black, very loose.*
						PT		*PEAT, silty sandy oily peat, dark brown, wet, soft.*
						OH		*ORGANIC SILT, dark grey, soft, low plasticity, root hairs.*
		0.0 ppm		Suite B-mid		SP		*SILTY SAND, dark grey, wet, loose, layer of shells 2.1-2.3'.*
-5	5	0.0 ppm		Suite B-bottom				*SILTY SAND, dense shells from 4.8' on (shells 1/8" to 3/4").*

Comments:

top 6" composited with top 6" of CAR-107-2
mid and bottom samples composited with
mid and bottom samples of CAR-107-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-107-2

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/2/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	E. Aronson	Easting:	1457770.00 feet
Drilling Method:	Vibracore	Northing:	556880.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.65 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SILT, black, wet, loose, twigs and roots, strong hydrocarbon odor.*
0						ML		*As above, medium dense.*
								SILT, dark grey, wet, medium dense to dense, nonplastic, micaceous silt with decaying plant material.
		0.0 ppm		Suite B-mid				*SAND, fine sand with silt, grey, moist, medium dense, decaying plant material.*
						SP		
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:
top 6" composited with top 6" of CAR-107-1
mid and bottom samples composited with
mid and bottom samples of CAR-107-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-108-1

Location: Cell 1A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent, K. Atkinson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457741.28 feet
Drilling Method:	Vibracore	Northing:	556796.56 feet
Sampling Method:	Extraction	Ground Elevation:	3.98 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		SANDY SILT, loose, wet, dark brown.
								SILT, soft, wet, dark brown, plastic.
						SP		SILTY GRAVELY SAND, fill. Dense, wet or moist, dark brown, oily. Hydrocarbon odor, chunks of asphalt.
						ML		SANDY SILT, stiff, moist, black, oily, medium plasticity. Strong hydrocarbon odor. Several layers (~1" thick) of asphalted soil. Oily peat from 3' to 3.2'. Less sand and more plastic from 3.2' to 3.5'.
		0.0 ppm		Suite B-mid				
0						SM		SILTY SAND, moderate density, moist to wet, dark grey with black streaks. Hydrocarbon odor. Sand is fine, micaceous, well sorted.
	5							SAND, loose, wet, grey, fine to medium, micaceous, well sorted.
		0.0 ppm		Suite B-bottom		SW		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-108-2

Location: Cell 1A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	3/31/2000	Surveyed By:	Psomas, Inc.
Cored By:	D. Parent	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457779.83 feet
Drilling Method:	Vibracore	Northing:	556774.61 feet
Sampling Method:	Extraction	Ground Elevation:	3.78 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SILTY GRAVELY SAND, fill material. Dense, wet, dark brown. Oily below 0.4', slightly asphalted.
						CL		CLAY, stiff, moist, plastic, light grey.
						SP		SILTY GRAVELY SAND, fill material. Dense, wet, dark brown.
						ML		SANDY SILT, stiff to 2.8', soft below, moist. Dark brown and black, medium plasticity. Strong hydrocarbon odor. Layer of oily plant material around 2.8'.
		0.0 ppm		Suite B-mid				
0						SW		SAND, loose, wet, grey, fine to medium, micaceous. Strong H2S odor.
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-110-1

Location: Cell 12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460560.00 feet
Drilling Method:	Vibracore	Northing:	557721.00 feet
Sampling Method:	Extraction	Ground Elevation:	2.50 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		*SAND, well graded, trace of fine gravel (5%), light to medium brown, moist, loose. Pockets of sandy clay (not layered), trace of shell hash.*
0		0.0 ppm		Suite B-mid				*SAND, well graded, fine to coarse grain, trace of fine gravel, light brown, moist, loose. Light odor from 4' to 4.6'.*
	5	0.0 ppm		Suite B-bottom		ML		*SILT, dark grey, moist, non-plastic, medium stiffness, black staining and mild hydrocarbon odor from 4.6' to 4.9'.*
-5								

Comments:

1.55' pre-bore.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-110-2

Location: Cell 12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460512.00 feet
Drilling Method:	Vibracore	Northing:	557757.00 feet
Sampling Method:	Extraction	Ground Elevation:	2.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		*SAND, poorly sorted, fine to medium grain, trace of fine to medium gravel, light brown, loose, damp, no odor.*
						SC		*CLAYEY SAND, light brown, damp, fine to medium sand, no odor.*
0		0.0 ppm		Suite B-mid		SW		*SAND, poorly sorted, fine to medium grain, trace of coarse sand and fine to medium gravel, light brown, moist, medium density, no odor.*
								Weathered hydrocarbon, black.
	5					CL		*SILTY CLAY, dark grey, moist, slightly plastic, soft, black spotting and streaking, mild hydrocarbon odor.*
		0.0 ppm		Suite B-bottom		ML		*SILT, olive grey, moist, slightly plastic, soft, mild sulphur odor.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-110-3

Location: Cell 12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460483.00 feet
Drilling Method:	Vibracore	Northing:	557799.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		ORGANIC SILT, black, moist, non-plastic, medium stiffness, topsoil.
						SW		SAND, well graded, moist, loose, fine to medium grain, trace of fine to medium gravel.
0								CLAYEY SILT, dark grey, moist, slightly plastic, medium stiffness, trace of fine to medium sand (5%), fine root hairs.
								SILT, medium grey, moist, non-plastic, medium stiffness, mottling.
		0.0 ppm		Suite B-mid				CLAYEY SILT, olive grey, moist, slightly plastic, soft, black pitting and streaking with mild hydrocarbon odor. Weathered asphalt layer with strong hydrocarbon odor from 2.1' to 2.2'.
						ML		SILT, olive grey, moist, non-plastic, medium stiffness, trace of fine sand, mottling and light sulphur odor.
	5	0.0 ppm		Suite B-bottom				As above, no mottling or odor.
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-111-1

Location: Cell 36

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460929.00 feet
Drilling Method:	Vibracore	Northing:	557485.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.04 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OH		*ORGANIC SILT, dark grey to black, wet (oil on surface of liquid water), soft, non-plastic, heavy hydrocarbon odor.*
		0.0 ppm		Suite B-mid		ML		*SILT, greenish grey, moist, soft to medium stiff, slightly plastic, black spotting to 1.7', mild hydrocarbon odor to 3'. 0.3' zone of shells at 4.9'.*
-5	5	0.0 ppm		Suite B-bottom				*SILT, trace of fine sand, dark grey, moist, medium stiffness, slightly plastic.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-111-2

Location: Cell 36

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/22/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460796.00 feet
Drilling Method:	Vibracore	Northing:	557359.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.75 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, fine to medium sand, brown, moist, trace of black organic matter.*
0		0.0 ppm		Suite B-mid		SW		*SAND, well graded, fine to medium grain, some fines (25%), olive grey, moist, mild odor from 3.5' to 4'.*
	5							*SILTY CLAY, dark grey, moist, slightly plastic, medium stiffness, black streaking from 4' to 6' with mild odor.*
-5		0.0 ppm		Suite B-bottom		CL		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-1

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1461016.30 feet
Drilling Method:	Vibracore	Northing:	558703.59 feet
Sampling Method:	Extraction	Ground Elevation:	2.63 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY SAND. loose, dry, dark brown, fine, micaceous. Abundant rootlets. (Fill)*
0		0.0 ppm		Suite B-mid		SP		*SAND, loose, moist to wet, tan, fine to medium, micaceous. Some rootlets to 1.3'. Abundant oxidation from 3.3' to 3.8'. (Fill)*
	5	0.0 ppm		Suite B-bottom		CL		*SANDY CLAY, soft, wet, dark olive grey, very fine, micaceous. Moderate hydrocarbon odor. Abundant globules of black.*
-5								

Comments:

2.7' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-10

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460629.00 feet
Drilling Method:	Vibracore	Northing:	558540.53 feet
Sampling Method:	Extraction	Ground Elevation:	-1.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		SANDY CLAY, stiff, wet, mottled dark brown/olive grey, very fine, micaceous, medium plasticity. Color transition to dark olive grey at 0.8'. Some black globules of petroleum to 1.0'. Strong hydrocarbon odor. Some oxidized root channels.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, loose to moderately dense, dark brown, wet, fine, micaceous.
-5	5	0.0 ppm		Suite B-bottom				
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-11

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461118.46 feet
Drilling Method:	Vibracore	Northing:	558315.82 feet
Sampling Method:	Extraction	Ground Elevation:	2.43 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, wet, soft, black, medium plasticity. Sand is fine, micaceous. Hydrocarbon odor. Vegetation.*
						SW		*SAND, moderately dense, moist, grey, fine, micaceous.*
0		0.0 ppm		Suite B-mid		ML		*SILT, soft, moist, grey, medium to high plasticity, micaceous.*
						SM		*SILTY SAND, moderately dense, moist, grey, fine, micaceous, well sorted.*
								Shell fragments from 3.8' to 4'.
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-12

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1461119.04 feet
Drilling Method:	Vibracore	Northing:	558816.77 feet
Sampling Method:	Extraction	Ground Elevation:	-1.06 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, soft, wet, dark brown. Some sand, very fine, micaceous. Low plasticity.*
						CL		*SANDY CLAY, soft, wet, dark olive grey. Some sand, fine, micaceous. Medium plasticity. Some oxidized root channels. Some black globules. Moderate hydrocarbon odor.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous.* *Abundant shell fragments from 2.5' to 2.6' and 3.0' to 3.1'.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-13

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1461094.11 feet
Drilling Method:	Vibracore	Northing:	558562.85 feet
Sampling Method:	Extraction	Ground Elevation:	-3.32 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		*SANDY CLAY, moderately stiff to stiff, wet, mottled olive grey/black, very fine, micaceous, medium plasticity. Some oxidized root channels to 1.5'. Moderate hydrocarbon odor. Some shell fragments from 1.7' to 1.8'.*
-5		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, very dark grey, fine, micaceous.*
								Some shell fragments from 3.6' to 4.9'
	5	0.0 ppm		Suite B-bottom				*Abundant shell fragments from 5.6' to 6.1'.*
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-2

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460546.40 feet
Drilling Method:	Vibracore	Northing:	558617.88 feet
Sampling Method:	Extraction	Ground Elevation:	-1.64 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, top 2" soft then becoming stiff. Wet, dark olive grey, very fine, micaceous, high plasticity. Some black petroleum globules to 2.2'. Strong petroleum odor.*
-5		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderate in density, wet, dark olive grey, fine, micaceous. Trace oxidized root channels.*
	5	0.0 ppm		Suite B-bottom				*Color transition to dark grey at 4.4'.*
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-3

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460932.35 feet
Drilling Method:	Vibracore	Northing:	558820.96 feet
Sampling Method:	Extraction	Ground Elevation:	-0.96 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY CLAY, very soft, wet, dark brown. Some sand, fine, micaceous. Low plasticity. Abundant decomposed organic and root material.*
		0.0 ppm		Suite B-mid		CL		*SANDY CLAY, soft, wet, dark olive grey. Some sand, very fine, micaceous. Medium plasticity. Some oxidized root channels.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-4

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461233.43 feet
Drilling Method:	Vibracore	Northing:	558174.52 feet
Sampling Method:	Extraction	Ground Elevation:	-0.68 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY SILT and SILT, loose on very top then soft. Low to medium plasticity, with higher plasticity between 1.2' and 2'. Dark brown and black to 2.8', grey with black mottling from hydrocarbons below. Hydrocarbon odor. Considerable plant material above 1.5'.Top was wet, moist below.*
		0.0 ppm		Suite B-mid				
-5	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderate density, moist to wet, grey, fine, micaceous. Some shell fragments near 5'.*

Comments:

Site was moved 20' off AOL

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-5

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460730.26 feet
Drilling Method:	Vibracore	Northing:	558353.48 feet
Sampling Method:	Extraction	Ground Elevation:	-1.97 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		CL		Top 2" algae, soft. SANDY CLAY, stiff, wet, dark olive grey/black, very fine, micaceous, medium plasticity. Very strong hydrocarbon odor.
		0.0 ppm		Suite B-mid		SM		SILTY SAND, loose, wet, dark olive grey, fine to coarse. Stratified layers of silty sand. Gradation changes--1.3' to 1.5' coarse. Fine--1.5' to 1.7' Medium--1.7' to 1.9' Fine--1.9' to 2.5'
-5								Coarse with gravel--3.1' to 3.4'. Very strong hydrocarbon odor. SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.
	5	0.0 ppm		Suite B-bottom				Abundant shell fragments from 4.5' to 5.0'.
-10								Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-6

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460989.63 feet
Drilling Method:	Vibracore	Northing:	558612.58 feet
Sampling Method:	Extraction	Ground Elevation:	-1.55 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, stiff, wet, black, very fine, micaceous. Very strong hydrocarbon odor. High plasticity. Olive grey from 1.2' to 1.4'. Some algae on top.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, dark grey, fine, micaceous.*
-5								
	5							*Abundant shell fragments from 4.7' to 5.6'.*
		0.0 ppm		Suite B-bottom				*Some shell fragments from 5.6' to 5.8'.*
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-7

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460500.27 feet
Drilling Method:	Vibracore	Northing:	558509.78 feet
Sampling Method:	Extraction	Ground Elevation:	-0.92 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, soft to stiff, wet, dark brown/black, very fine, micaceous. Hard, top 2", some rootlets. Color transition to dark olive grey at 0.5'. Abundant globules of black petroleum product to 1.6'.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose to moderately dense, wet, dark olive grey, fine, micaceous. Trace oxidized root channels.*
-5								*Color transition to dark grey at 4.5'.*
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-8

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461019.62 feet
Drilling Method:	Vibracore	Northing:	558446.92 feet
Sampling Method:	Extraction	Ground Elevation:	-2.09 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, soft, wet to moist, light grey with black streaks, hydrocarbon odor, low plasticity. Sand is fine, micaceous.*
-5		0.0 ppm		Suite B-mid		SM		*SILTY SAND, gradually turning to sand. Moderate density, moist, grey, fine, micaceous.*
	5	0.0 ppm		Suite B-bottom				*Considerable shell fragments below 4.8',*
-10								*Comments:*

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-112-9

Location: Cells 23, 24

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460928.40 feet
Drilling Method:	Vibracore	Northing:	558301.91 feet
Sampling Method:	Extraction	Ground Elevation:	-2.59 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		SILT, loose, saturated, black, oily. Hydrocarbon odor. Some plant material.
						CL		CLAY, wet, stiff, black, very plastic, oily, very stinky.
						ML		SILT, soft, moist, black, medium to high plasticity, trace micaceous, oil, hydrocarbon odor.
								SILTY SAND, gradually turning to sand. Very little silt at 4'. Hydrocarbons near top of interval. Fine, micaceous, well sorted.
-5		0.0 ppm		Suite B-mid				
						SM		Considerable shell fragments below 4.2'.
	5	0.0 ppm		Suite B-bottom				
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-113-1

Location: Cell 33

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/4/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1460356.00 feet
Drilling Method:	Vibracore	Northing:	559386.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.28 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SILT, firm, moist, brown, medium plasticity, some rust oxidation, trace hydrocarbon odor.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderate density, moist to wet, grey except tar at 5", fine, micaceous, well sorted. Thin peat layer at 8". Black mottling to 1.8', looks like hydrocarbons but no odor. Shell fragments from 3.0' to 4.5'. Silt content decreases with depth*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composited with CAR-113-2

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-113-2

Location: Cell 33

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/4/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1460366.00 feet
Drilling Method:	Vibracore	Northing:	559439.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.36 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY CLAYEY SILT, stiff, moist, brown, moderate plasticity. Some organics, some plant fibers, some oxidized granules. Several thin layers of rust oxidation. Micaceous.*
						SM		*SILTY SAND, moderate density, moist, grey with black mottling, fine, micaceous, high silt content.*
		0.0 ppm		Suite B-mid				
						ML		*SANDY SILT, stiff, moist, medium plasticity. Sand is fine, micaceous. Trace of shell fragments.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

Composited with CAR-113-1

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-114-1

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460526.17 feet
Drilling Method:	Vibracore	Northing:	559229.09 feet
Sampling Method:	Extraction	Ground Elevation:	-0.06 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SP		*SAND, loose, wet, tan, fine to medium, micaceous. Some gravel, trace of silt. some lenses of oxidation. Heavily oxidized from 1.1' to 1.2'.*
		0.0 ppm		Suite B-mid		SC		*CLAYEY SAND, moderate density, wet, dark olive grey/black, very fine, micaceous, medium to low plasticity. Stratified layer of dark brown organic sandy clay. Abundant black globules of petroleum. Moderate hydrocarbon odor.*
-5	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, moderately dense, wet, dark olive grey, fine, micaceous, low plasticity.* *Color transition to dark grey at 4.0'. Stratified layer of sandy silt from 4.2' to 4.4',*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-114-2

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460502.42 feet
Drilling Method:	Vibracore	Northing:	559343.62 feet
Sampling Method:	Extraction	Ground Elevation:	1.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SAND, loose, moist to wet, tan, fine to medium, micaceous. Some gravel. Some silt in top 1", some rootlets. Some small shell fragments throughout.
0		0.0 ppm		Suite B-mid		SC		CLAYEY SAND, medium stiffness, wet, dark olive/black, fine, micaceous. Abundant black globules of petroleum.Moderate hydrocarbon odor.
	5	0.0 ppm		Suite B-bottom		SM		SILTY SAND, loose, wet, dark olive grey, fine, micaceous.
-5								Color transition to dark grey at 6.3'.

Comments:

1.3' pre-bore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-115-1

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/15/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1460934.00 feet
Drilling Method:	Vibracore	Northing:	559086.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.90 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SILTY CLAY, dark brown, dry, low plasticity, medium stiff, fine root hairs.*
						CH		*FAT CLAY, brown, damp, medium to high plasticity, medium stiff.*
						CL		*LEAN CLAY, medium brown, damp, medium plasticity, soft, fine root hairs throughout.*
		0.0 ppm		Suite B-mid		MH		*INORGANIC SILT with some fine sand, medium plasticity, soft, some micaceous sand.*
						CL		*SILTY CLAY, dark grey, moist, medium plasticity, soft.*
-5								*SILT, dark grey, moist, nonplastic, medium stiff.*
	5					ML		*As above, some fine sand.*
		0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-115-2

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	1/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1461063.34 feet
Drilling Method:	Vibracore	Northing:	559215.87 feet
Sampling Method:	Extraction	Ground Elevation:	-0.30 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dark brown, moist, moderate density, fine to coarse, poorly sorted, some gravel.*
						CL		*SILTY CLAY, light grey, moist, soft, medium plasticity, trace organic material, trace fine sand from 1.1' to 1.75'.*
						CH		*FAT CLAY, tan/grey, moist, stiff, plastic.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, light grey, moist, moderate density, rust mottling, fine to medium, well sorted, micaceous.*
						CH		*FAT CLAY, grey, moist, stiff, plastic.*
						SM		*SILTY SAND, grey, moist, moderate density, fine, well sorted, micaceous.*
-5	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-129-1

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	2/15/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	E. Aronson	Easting:	1455072.00 feet
Drilling Method:	Vibracore	Northing:	562801.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.83 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SAND, dark brown, dry, medium density, fine to medium grainsize, root hairs and detritus (topsoil).*
0						SP		*SAND, fine, trace of silt, greenish grey, moist, loose.*
		0.0 ppm		Suite B-mid				*SAND with some silt, dark grey, moist, medium dense, well sorted fine sand and silt, mottling from 2.4' to 3.3', micaceous silts.*
						SM		*As above, wet.*
	5							
-5		0.0 ppm		Suite B-bottom				

Comments:

0-2.2' pre-bore, 2.2-6.7' very difficult to extrude, pounded out with hammer

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-129-2

Location: Cell 44

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	2/3/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	K. Kronschnabl	Easting:	1455167.00 feet
Drilling Method:	Vibracore	Northing:	562806.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.14 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		*ORGANIC SILTY SANDY SOIL, loose, dry brown, roots, non-plastic, micaceous.*
0								*SILTY SAND, dense on top to moderate density on bottom, slightly moist (dry on the very top). Brown to 1', tan to 4', grey below. Fine, well sorted, micaceous throughout, organic content to 1'. Rust mottling to 3'. Plant material throughout with considerable roots to 1.5'.*
		0.0 ppm		Suite B-mid		SM		
	5	0.0 ppm		Suite B-bottom				
-5								

Comments:

3.7' step 1 vibracore

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-130-1

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456387.00 feet
Drilling Method:	Vibracore	Northing:	558245.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.40 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, moderately dense, moist, olive grey, fine to medium, micaceous. Some pebbles.*
						SW		*SAND, moderately dense, wet, black, fine, micaceous. Mostly petroleum product. Very strong hydrocarbon odor. Sticky, some silt.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, moderately dense, wet, olive grey, fine, micaceous. Some petroleum globbules from 2.0' to 2.6'. Strong odor--odor decreases with depth to 3.0'. Decrease in silt percentage to depth.*
0								
	5	0.0 ppm		Suite B-bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-130-2

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456550.46 feet
Drilling Method:	Vibracore	Northing:	558010.61 feet
Sampling Method:	Extraction	Ground Elevation:	4.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, brown, fine to medium, micaceous. Some roots, some small gravel. Color transition to olive grey at 0.8'. Statified layer of organic silt (dark brown) from 1.2' to 1.3', low plasticity. Stratified layer of organic clay (brown) from 2.1' to 2.3', moderately stiff, medium plasticity, some sand.*
		0.0 ppm		Suite B-mid				
0	5	0.0 ppm		Suite B-bottom		SW		*SAND, moderately dense, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING CAR-130-3

Location: Cell 1B

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/18/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1456492.00 feet
Drilling Method:	Vibracore	Northing:	558131.00 feet
Sampling Method:	Extraction	Ground Elevation:	4.00 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*SILTY CLAYEY SAND, loose, wet, fine, micaceous. Abundant roots.*
		0.0 ppm		Suite B-mid		SM		*SILTY SAND, loose, wet, olive grey, fine, micaceous, some roots. Stratified layer of dark brown organic silt from 1.6 to 1.8'*
0						SP		*SAND, loose, wet, grey, fine to medium, micaceous, trace of silt.*
	5	0.0 ppm		Suite B-bottom		SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING AOT-04D-A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SC		SANDY CLAY, hard, moist, olive tan, medium plasticity, fine micaceous sand.		X	Suite C	NT
		SM		SILTY SAND, dense, moist, olive gray, fine, micaceous, subangular.				
1	-1				-1			
						X	Suite B	NT
2	-2				-2			
3	-3				-3			
						X	Suite B	NT
4	-4				-4			
				Unrecovered interval.				
5	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING AOT-05D-A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558374.088
Drilling Method	: Vibracore	Easting	: 1461219.856
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0.061	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.061	Samples	Sample No.	PID (ppm)
0	0	PT		PEAT, very loose, wet, low plasticity, considerable silt, trace fine micaceous sand.	0	X	Suite C	NT
1	-1	ML		SILT, soft, wet, light gray, medium plasticity, some peat, trace fine micaceous sand, slight hydrogen sulfide odor.	-1	X	Suite B	NT
2	-2				-2			
3	-3	SM		SILTY SAND, moderately dense, moist to wet, light gray, fine, micaceous, some small roots, oxidized.	-3	X	Suite B	NT
4	-4				-4			
				Unrecovered interval.				
5								

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08-23-1999

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING EO-30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very loose, wet, olive tan with oxidized mottling, medium plasticity, fine micaceous sand, blocky oxidized material, the slight hydrogen sulfide odor. Consistency changing to stiff at 0.5 feet.		X	Suite C	NT
1	-1				-1			
						X	Suite B	NT
2	-2				-2			
		SM		SILTY SAND, moderately dense, moist, olive, fine, micaceous, slight hydrogen sulfide odor.				
3	-3				-3			
				Color transition to gray with black mottling at 3.5 feet.		X	Suite B	NT
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING PC-01-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 557718.935
Drilling Method	: Vibracore	Easting	: 1461145.145
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0.203	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.203	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, very loose, wet, black, considerable silt and hydrocarbon materials.	0	X	Suite C	NT
1	-1	ML		SILT, soft, wet, gray and black mottling, medium plasticity, considerable free oil to 3.5 feet, some peat or plant material, trace sand.	-1			
2	-2				-2			
3	-3			Color transition to gray at 3.5.	-3	X	Suite A	NT
4	-4				-4			
5	-5	SM		SILTY SAND, moderately dense, wet, gray, fine, micaceous, some plant or peat material.	-5	X	Suite A	NT
6	-6			Unrecovered interval.	-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING PC-01-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 557659.105
Drilling Method	: Vibracore	Easting	: 1461123.885
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. -0.287	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.287	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, black, medium to coarse with some gravel, subangular, considerable peat or detritus and hydrocarbon materials.		X	Suite C	NT
	-1				-1			
1		ML		SILT, soft, wet, black, medium plasticity, considerable peat and plant material to 3.0 feet, some plant material to 4.0 feet, considerable hydrocarbon materials to 3.0 feet, trace shell fragments.				
	-2				-2			
2								
	-3				-3	X	Suite A	NT
3								
	-4			Some shell fragments from 3.8 to 4.0 feet.	-4			
4								
	-5				-5			
5		SM		SILTY SAND, moderately dense, wet, gray, fine to medium, subangular, micaceous, trace hydrocarbon odor.		X	Suite A	NT
	-6				-6			
6				Unrecovered interval.				
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING PC-03-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Kronschnabl	Northing	: 561175.552
Drilling Method	: Vibracore	Easting	: 1460817.747
Sampling Method	: Extraction	Elapsed Time	: 25 min.

Depth in Feet	Surf. Elev. 2.992	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.992	Samples	Sample No.	PID (ppm)
0		FL		FILL, very hard, dry, fine micaceous sand with gravel, concrete debris, considerable roots.			Suite C	NT
1	2				2			
				Coring rejected at 1.5 feet.				
2	1				1			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RB-42 (NAIL)

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Kronschnabl	Northing	: 559205.396
Drilling Method	: Vibracore	Easting	: 1457279.503
Sampling Method	: Extraction	Elapsed Time	: 32 min.

Depth in Feet	Surf. Elev. 4.037	USCS Code	Hatching	Lithologic Description	Surf. Elev. 4.037	Samples	Sample No.	PID (ppm)
0	4	SM		SILTY SAND, dense, moist, grayish tan, fine, micaceous.	4		Suite C	NT
		FL		FILL (asphalt).				
		SP		SAND, dense, moist, orangeish black, fine to coarse with some gravel, considerable hydrocarbon materials.				
1	3	SW		SAND, moderately dense, moist, yellowish tan, medium, micaceous.	3		Suite A	NT
				Sand becoming wet.				
2	2				2		Suite B	NT
3	1			Color transition to gray at 3.0 feet.	1			
4								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RB-63

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 40 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		FL		FILL, very dense, dry, brown, silt, poorly sorted sand, gravel, some asphalt to 0.25 ft.			Suite C	NT
				Color transition to tan at 0.75 feet, no silt.				
1	-1				-1		Suite A	NT
2	-2			Moisture content increasing to wet at 2.0 ft.	-2		Suite B	NT
3	-3				-3			
4	-4				-4			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-34-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/18/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560603.052
Drilling Method	: Vibracore	Easting	: 1460638.417
Sampling Method	: Extraction	Elapsed Time	: 29 min.

Depth in Feet	Surf. Elev. 1.175	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.175	Samples	Sample No.	PID (ppm)
0	1	PT		ORGANIC SILT, medium hard, dry, dark brown, considerable sand.	1	X	Suite C	NT
1	0	FL		FILL, hard, dry, sand and gravel.	0			
		CL		CLAY, hard, dry, tan, non-plastic.		X	Suite A	NT
2	-1	GP		SANDY GRAVEL, dense, black, free viscous oil, very strong hydrocarbon odor.	-1			
3	-2	SM		SILTY SAND, moderately dense, moist, gray, medium, well sorted, micaceous, free oil to 3.2 feet, hydrocarbon odor.	-2	X	Suite A	NT
4	-3			Silt content decreases with depth.	-3			
5	-4			Unrecovered interval.	-4			
6	-5				-5			
7								

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08-23-1999

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-34-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/18/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560206.108
Drilling Method	: Vibracore	Easting	: 1460745.267
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0.210	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.210	Samples	Sample No.	PID (ppm)
0	0	ML		SILT, hard, slightly moist, olive gray, low plasticity, considerable organic material near surface, trace sand.	0	X	Suite C	NT
1	-1	ML		sand content increasing with depth to a SANDY SILT, as above except color transition to olive and lenses of oxidized material.	-1	X	Suite A	NT
2	-2	SM		SILTY SAND, moderately dense, moist, olive gray with oxidized mottling, well sorted, medium, micaceous.	-2			
3	-3	SW		SAND, moderately dense, moist, olive gray, medium, micaceous, some silt, oxidation mottling.	-3	X	Suite A	NT
4	-4			Unrecovered interval.	-4			
5								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-34-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/12/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 560052.8069
Drilling Method	: Vibracore	Easting	: 1460460.334
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.145	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.145	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose to moderately dense, moist to wet, dark olive, fine, micaceous, considerable organic material to 0.5 feet, slight hydrogen sulfide odor. Lenses of oxidation from 0.5 to 2.5 feet.		X	Suite C	NT
1	-2				-2			
2	-3				-3	X	Suite A	NT
3	-4			Color transition to dark gray at 2.5 feet.	-4			
4	-5				-5	X	Suite A	NT
5	-6				-6			
				Unrecovered interval.				
6	-7				-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-34-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559779.0509
Drilling Method	: Vibracore	Easting	: 1460569.926
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.805	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.805	Samples	Sample No.	PID (ppm)
0	-2	ML		SILT, soft, moist, dark olive, slight hydrogen sulfide odor.	-2	X	Suite C	NT
1	-3	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, slight hydrogen sulfide odor.	-3	X	Suite A	NT
2	-4				-4			
3	-5				-5	X	Suite A	NT
4	-6				-6			
5	-7				-7			
6	-8			Unrecovered interval.	-8			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-34-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559283.5577
Drilling Method	: Vibracore	Easting	: 1460712.391
Sampling Method	: Extraction	Elapsed Time	: 1 min.

Depth in Feet	Surf. Elev. -0.765	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.765	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SILT, soft, moist, dark olive, medium plasticity, lenses of oxidation, slight hydrogen sulfide odor.	-1	X	Suite C	NT
1	-2				-2			
		SM		SILTY SAND, moderately dense, wet, dark gray, fine, micaceous, slight hydrogen sulfide odor.		X	Suite A	NT
2	-3				-3			
3	-4				-4	X	Suite A	NT
				Unrecovered interval.				
4	-5				-5			
5	-6				-6			
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING TF-NB-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Kronschnabl	Northing	: 561100.843
Drilling Method	: Vibracore	Easting	: 1460839.509
Sampling Method	: Extraction	Elapsed Time	: 40 min.

Depth in Feet	Surf. Elev. 1.086	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.086	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, dense to very dense, dry, light brown, fine with gravel to 1.2 feet, micaceous, some oxidation mottling, roots to 1.0 foot.	1	X	Suite C	NT
1	0	SM		Color transition to tan and sand becoming moist at 1.0 feet.	0	X	Suite B	NT
2	-1	CL		CLAY, very stiff, moist, gray, medium plasticity, micaceous.	-1			
		SW		SAND, dense, moist, tan, fine, micaceous, trace silt.				
3	-2	SC		SANDY CLAY, stiff, moist, oxidation mottling, medium plasticity, fine micaceous sand.	-2	X	Suite B	NT
4	-3	SM		SILTY SAND, moderately dense, wet, olive tan with oxidation mottling, some roots.	-3			
5								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING TF-NB-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Kronschnabl	Northing	: 561071.463
Drilling Method	: Vibracore	Easting	: 1460428.088
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. 2.589	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.589	Samples	Sample No.	PID (ppm)
0				FILL, sand and gravel.				
				Asphalt.				
							Suite C	NT
		FL		Sand and gravel, hydrocarbon materials.				
	2				2			
				Concrete. Coring rejected at 1.0 foot.				
1								
	1				1			
2								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING TF-SL-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	:
Logged By	: K. Kronschnabl	Northing	: 556407.291
Drilling Method	: Vibracore	Easting	: 1458061.152
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. 2.667	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.667	Samples	Sample No.	PID (ppm)
0		FL		FILL, dense, dry, grayish brown, fine to medium with some gravel, micaceous, considerable silt, roots to 0.75 feet.			Suite C	NT
1				Consistency changing to very dense, color transition to orange, no silt.			Suite B	NT
2								
3				Consistency changing to dense, moist.				
	-1				-1		Suite B	NT
4								
	-2				-2			
5								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WG-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562591.208
Drilling Method	: Vibracore	Easting	: 1457530.353
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. -0.376	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.376	Samples	Sample No.	PID (ppm)
0		FL		FILL (asphalt), hard, dry, black.				
		PT		ORGANIC SILT, medium stiff to very hard, dry changing to moist at 1 in., dark brown, non-plastic, considerable sand, peat and roots.			Suite C	NT
	-1	SW		SAND, moderately dense, moist to wet, tan, fine, subangular, micaceous, oxidation mottling to 4.8, some silt.	-1			
1								
	-2				-2			
2								
	-3				-3		Suite A	NT
3								
	-4				-4			
4								
	-5				-5			
5								
	-6				-6		Suite B	NT
6				Unrecovered interval.				
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WG-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562486.388
Drilling Method	: Vibracore	Easting	: 1457792.744
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. -0.668	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.668	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SANDY SILT, soft, moist, dark brown changing to tan mottled with oxidation at 2 in., medium plasticity, fine micaceous sand.	-1	X	Suite C	NT
1	-2	SM		SILTY SAND, moderately dense, wet, tan with oxidation mottling, fine, micaceous, silt content decreases with depth.	-2			
2	-3				-3	X	Suite A	NT
3	-4				-4			
4	-5			Color transition to gray at 4.5 feet.	-5			
5	-6				-6	X	Suite B	NT
6	-7				-7			
7				Unrecovered interval.				

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WG-34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Kronschnabl	Northing	: 560956.081
Drilling Method	: Vibracore	Easting	: 1460904.745
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 2.362	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.362	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, very dense, moist, brown, fine with some gravel, some organic material and roots.		X	Suite C	NT
	2				2			
1		SP		SAND, very dense, moist, oxidation, fine to coarse with some gravel, plant roots. Color transition to gray with trace roots.				
	1				1			
2								
	0	SM		SILTY SAND, moderately dense, moist, olive gray, fine, micaceous.	0	X	Suite A	NT
3								
	-1				-1			
				Unrecovered interval.				
4								
	-2				-2			
5								
	-3				-3			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WG-38

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 558687.128
Drilling Method	: Vibracore	Easting	: 1461341.599
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0.110	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.110	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, moderately dense, wet, olive brown with striated lenses of black and oxidized material, fine to coarse, subangular, micaceous, considerable roots to 3 in., some roots below.	0	X	Suite C	NT
				Thin asphalt layer at 0.75 feet.				
1	-1			One inch thick layer of asphalt at 1.3 feet.	-1			
		SL		SILT STONE, hard, moist, tan.				
		SM		SILTY SAND, moderately dense, wet, olive brown with striated lenses of black and oxidized material, fine to coarse, subangular, micaceous.				
2	-2	CL		CLAY, moist, gray with black mottling, medium plasticity, trace fine micaceous sand, some thin lenses of peat, oxidation top 0.25 feet.	-2	X	Suite A	NT
3	-3				-3			
		SM		SILTY SAND, moderately dense, moist, striated layers of gray and black, fine to medium, subangular, micaceous.				
4	-4				-4			
5	-5				-5			
6	-6				-6	X	Suite B	NT
		CL		CLAY, moist, gray, plastic.				
		SM		SILTY SAND, moderately dense, moist, striated layers of gray and black, fine to medium, subangular, micaceous.				
				Unrecovered interval.				
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WH-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/12/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Atkinson	Northing	: 558519.458
Drilling Method	: Vibracore	Easting	: 1460589.504
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.465	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.465	Samples	Sample No.	PID (ppm)
0		CL		SILTY CLAY, soft, moist, black, low plasticity, very strong hydrocarbon odor.		X	Suite C	5.6
	-2			Decreasing silt content to a CLAY, soft, moist, black, strong hydrocarbon odor.	-2			
1								
	-3				-3			
2		SM		SILTY SAND, moderately dense, moist, olive green, medium, very strong hydrocarbon odor.				
	-4				-4			
3						X	Suite A	0.4
	-5				-5			
4								
	-6			Color transition to greenish gray with very strong hydrogen sulfide odor.	-6			
5								
	-7				-7			
6						X	Suite A	0.4
	-8			Grading up to medium to coarse sands.	-8			
7				Unrecovered interval.				
	-9				-9			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WH-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/12/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Atkinson	Northing	: 558619.021
Drilling Method	: Vibracore	Easting	: 1460941.074
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. -2.657	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.657	Samples	Sample No.	PID (ppm)
0								
	-3	CL		SILTY CLAY, soft, moist, black changing to olive greenish gray at 0.5 feet, very strong hydrocarbon odor, considerable plant material to 0.25 feet.	-3	X	Suite C	13.02
1								
	-4	SM		SILTY SAND, moderately dense, moist, mottled olive green and gray changing to gray at 2.75 feet, medium, considerable hydrocarbon odor decreasing with depth.	-4			
2								
	-5				-5			
3						X	Suite A	0.1
	-6				-6			
4								
	-7				-7			
5								
	-8			Grading up to coarse sands.	-8			
6						X	Suite A	0.0
	-9			Unrecovered interval.	-9			
7								
	-10				-10			
8								

08-23-1999 C:\MTECH5\BOLSAL~1\WH-02.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING WH-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/12/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Atkinson	Northing	: 558428.177
Drilling Method	: Vibracore	Easting	: 1461035.187
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. -1.996	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.996	Samples	Sample No.	PID (ppm)
0	-2	CL		SILTY CLAY, soft, moist, black changing to olive green at 1.5 feet, medium plasticity, very strong hydrocarbon odor decreasing with depth.	-2	X	Suite C	8.4
1	-3				-3			
2	-4				-4	X	Suite A	0.0
3	-5	SM		SILTY SAND, moderately dense, moist, gray, medium, trace hydrocarbon odor to 4.75 feet.	-5			
4	-6				-6			
5	-7			Considerable shell fragments from 4.75 to 5.25 feet. Trace shell fragments from 5.25 to 6.75 feet.	-7			
6	-8				-8	X	Suite A	0.0
7	-9			Considerable shell fragments from 6.75 to total depth.	-9			
				Unrecovered interval.				
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/08/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 558214.564
Drilling Method	: Vibracore	Easting	: 1457482.67
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 1.5	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.5	Samples	Sample No.	PID (ppm)
0	1	SC		SANDY CLAY, medium stiff, mottled dark brown and black, medium plasticity, fine micaceous sand, strong hydrogen sulfide odor.	1			
1	0	SW		SAND, loose, wet, dark olive gray, medium, micaceous, some silt.	0			
2	-1			Color transition to very dark gray at 2.0 ft.	-1			
3	-2				-2			
4	-3				-3		Dredge	NT
5	-4				-4			
6	-5				-5			
7	-6			Considerable shell fragments from 7.4 to 8.0 feet, slight decrease in silt content with depth.	-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9				-9			
11	-10			Unrecovered interval.	-10			
12	-11				-11			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/08/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 558016.926
Drilling Method	: Vibracore	Easting	: 1457078.89
Sampling Method	: Extraction	Elapsed Time	: 23 min.

Depth in Feet	Surf. Elev. 3.263	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.263	Samples	Sample No.	PID (ppm)
0	3	SM		SILTY SAND, loose, moist, dark , fine to medium, micaceous, considerable roots to 0.25 feet decreasing to trace to 2.0 feet.	3			
1	2	SW		SAND, loose to dense, wet, mottled tan and oxidation, medium, micaceous, trace silt.	2			
2	1				1			
3	0				0			
4	-1			Color transition to dark gray at 4.1 feet. .	-1			
5	-2				-2		Dredge	NT
6	-3				-3			
7	-4			Considerable shell fragments from 7.2 to 7.5 feet.	-4			
8	-5			Considerable shell fragments from 8.2 to 8.? feet.	-5			
9	-6				-6			
10	-7				-7			
11	-8			Considerable shell fragments from 11.0 to 11.2 feet, slight decrease in silt content with depth.	-8		Suite C	NT
12	-9				-9			
13	-10			Unrecovered interval.	-10			
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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-01-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SW		SAND, loose, moist, dark brown, fine to medium, micaceous, considerable organic material and rootlets to 0.7 feet, trace silt, some lenses of oxidation to 3 feet.	0	X	Suite C	NT
1	-1				-1			
				Color transition to tan at 1.7 feet.		X	Suite A	NT
2	-2				-2			
3	-3				-3			
		SM		SILTY SAND, loose, wet, dark gray, fine, micaceous.		X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/08/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 557603.377
Drilling Method	: Vibracore	Easting	: 1457089.661
Sampling Method	: Extraction	Elapsed Time	: 67 min.

Depth in Feet	Surf. Elev. 4.273	USCS Code	Hatching	Lithologic Description	Surf. Elev. 4.273	Samples	Sample No.	PID (ppm)
0	4	SW		SAND, loose to dense, moist to wet, dark brown, medium, micaceous, some silt, considerable roots to 2 inches.	4			
1	3			Some roots from 1.0 to 1.6 feet.	3			
2	2			Color transition to dark gray at 1.6 feet, some lenses of oxidized root channels from 1.6 to 1.8 feet.	2			
3	1				1			
4	0				0			
5	-1				-1		Dredge	NT
6	-2				-2			
7	-3				-3			
8	-4				-4			
9	-5				-5			
10	-6			Sand grading down to fine at 9.8 feet.	-6			
11	-7				-7			
12	-8				-8		Suite C	NT
13	-9			Unrecovered interval.	-9			
14	-10				-10			
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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/08/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 557815.967
Drilling Method	: Vibracore	Easting	: 1457496.168
Sampling Method	: Extraction	Elapsed Time	: 95 min.

Depth in Feet	Surf. Elev. 1.784	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.784	Samples	Sample No.	PID (ppm)
0		SW		SAND, loose, moist, medium brown, medium, micaceous, trace rootlets.				
1	1				1			
1		SM		SILTY SAND, loose, wet, dark gray, fine to medium, micaceous.				
2	0				0			
3	-1				-1			
3		SW		SAND, loose to dense, wet, dark gray, medium, micaceous, trace silt.				
4	-2				-2			
5	-3				-3		Dredge	NT
6	-4				-4			
7	-5				-5			
8	-6				-6			
9	-7				-7			
10	-8				-8		Suite C	NT
11	-9				-9			
				Unrecovered interval.				
12	-10				-10			
13	-11				-11			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/05/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 1457696
Drilling Method	: Vibracore	Easting	: 558023
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 1.23	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.23	Samples	Sample No.	PID (ppm)
0	1	ML		SANDY SILT, loose, wet, mottled olive gray and oxidation, low plasticity, very fine micaceous sand.	1			
1	0	SM		SILTY SAND, loose, wet, dark gray, fine.	0			
2	-1				-1			
3	-2				-2			
4	-3				-3		Dredge	NT
5	-4				-4			
6	-5				-5			
7	-6			Considerable shell fragments from 7.3 to 9.7 feet.	-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9			Considerable shell fragments from 10.3 to 10.5 feet.	-9			
11	-10			Unrecovered interval.	-10			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-01-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 557760.700
Drilling Method	: Vibracore	Easting	: 1457957.057
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 1.604	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.604	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft to medium stiff, moist, brown with oxidation mottling, medium plasticity, fine micaceous sand, some organic material.		X	Suite C	NT
	1	SM		SILTY SAND, loose, wet, olive gray, thin lenses of striated black hydrocarbon material to 4 feet, slight hydrocarbon odor.	1			
1				Moisture content decreasing to moist, color transition to dark gray at 1.4 feet.				
	0				0	X	Suite A	NT
2								
	-1				-1			
3								
	-2				-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4				-4			
6								
	-5				-5			
7				Unrecovered interval.				
	-6				-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/05/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 557405.527
Drilling Method	: Vibracore	Easting	: 1457862.636
Sampling Method	: Extraction	Elapsed Time	: 26 min.

Depth in Feet	Surf. Elev. 1.301	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.301	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose, wet, dark brown changing to mottled tan and oxidation at 0.25 feet, fine, micaceous, considerable organic material.	1			
1	0	ML		SANDY SILT, soft, wet, olive gray, low plasticity, very fine micaceous sand.	0			
2	-1				-1			
3	-2	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-2			
4	-3				-3		Dredge	NT
5	-4				-4			
6	-5			Considerable shell fragments from 6.7 to 7.0 feet.	-5			
7	-6	SW		SAND, loose, wet, dark gray, medium, micaceous, trace silt.	-6			
8	-7				-7			
9	-8	SM		SILTY SAND, loose, wet, very dark gray, very fine, micaceous.	-8		Suite C	NT
10	-9				-9			
11	-10			Unrecovered interval.	-10			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-01-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/05/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 557228
Drilling Method	: Vibracore	Easting	: 1457316
Sampling Method	: Extraction	Elapsed Time	: 24 min.

Depth in Feet	Surf. Elev. 1.31	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.31	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose, wet, black, fine to medium, micaceous, organic odor.	1			
		SW		SAND, loose, wet, gray, medium, micaceous, trace silt.				
1	0				0			
2	-1				-1			
3	-2				-2		Dredge	NT
4	-3				-3			
5	-4				-4			
6	-5				-5			
7	-6				-6			
8	-7			Considerable shell fragments from 7.8 to 8.4 feet, slight hydrocarbon odor.	-7		Suite C	NT
9	-8				-8			
10	-9			Unrecovered interval.	-9			
11	-10				-10			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-01A-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/23/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 556647.406
Drilling Method	: Vibracore	Easting	: 1457809.832
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. 5.866	USCS Code	Hatching	Lithologic Description	Surf. Elev. 5.866	Samples	Sample No.	PID (ppm)
0		FL		FILL, dense, moist, brown and black, layers of silt, gravel, sand, asphalt, small fragments of weathered oil, tar, clay, plant material and wood debris, slight hydrocarbon odor.		X	Suite C	NT
1	5				5			
2	4				4	X	Suite A	NT
3	3				3			
4	2				2	X	Suite A	NT
		ML		SILT, medium stiff, moist, olive gray with black mottling, some fine sand.				
5	1				1			
		SM		SILTY SAND, loose, wet, dark gray, medium, some plant material, thin lenses of free oil, hydrocarbon odor.				
6	0				0			
7	-1				-1			
8	-2				-2			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-01A-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 556588.092
Drilling Method	: Vibracore	Easting	: 1457468.755
Sampling Method	: Extraction	Elapsed Time	: 18 min.

Depth in Feet	Surf. Elev. 3.849	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.849	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, moderately dense, wet, dark gray, fine to medium, semi sorted, subangular, micaceous. Plant roots to 1.0 foot. Trace shell fragments. Color becoming gray at 1.0 foot.			Dredge	NT
1	3				3			
2	2				2			
3	1	ML		SANDY SILT, soft, moist, gray, medium plasticity, fine micaceous sand, sand is subangular, trace plant material.	1			
4	0				0			
5	-1	SM		SILTY SAND, moderately dense, wet, gray, micaceous, subangular. Trace shell fragments between 6.0 and 6.5 feet.	-1			
6	-2				-2			
7	-3	SP		SAND, loose, moist, gray and tan, fine to coarse, unsorted, subangular to rounded, micaceous, trace silt.	-3			
8	-4				-4			
9	-5				-5			
10	-6			Unrecovered interval.	-6			
11	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-02-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/04/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 557265.9899
Drilling Method	: Vibracore	Easting	: 1458052.113
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.182	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.182	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, olive brown with striated lenses of black organic material to 0.5 feet, low plasticity, coarse micaceous sand, some organic debris. Color transition to mottled red and olive brown, consistency increasing to stiff. Sand grading down to fine below 1.0 ft.		X	Suite C	NT
1	-1				-1			
2	-2	SM		SILTY SAND, moderately dense, wet, medium, micaceous, subangular, well sorted, some shell fragments and plant material.	-2	X	Suite A	NT
3	-3				-3			
4	-4			Lens of shell fragments and increasing silt content from 3.5 to 4.2 feet.	-4	X	Suite A	NT
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-02-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/04/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 557561.6446
Drilling Method	: Vibracore	Easting	: 1458348.006
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -0.357	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.357	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, very soft, wet, low plasticity, considerable plant and organic material, fibrous mat on surficial sediment, strong hydrogen sulfide odor. Consistency increasing to stiff.		X	Suite C	NT
	-1				-1			
1		SC		SILTY CLAY, stiff, wet, gray, plastic, trace fine sand and plant material.				
	-2			SANDY SILT, soft, wet, medium plasticity, fine micaceous sand, some plant material.	-2	X	Suite A	NT
2		ML						
	-3			Considerable shell fragments from 2.75 to 3.25 feet.	-3			
3								
		SM		SILTY SAND, moderately dense, wet, gray, fine, micaceous.				
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5				Unrecovered interval.				
	-6				-6			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-03-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/03/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 559808
Drilling Method	: Vibracore	Easting	: 1457158
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, very soft, wet, black, considerable sand, considerable organic material, hydrogen sulfide odor.		X	Suite C	NT
		SM		SILTY SAND, moderately dense, wet, gray, fine, micaceous, well sorted.				
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
				Silt content increases between 2.75 and 3.5 feet.				
3	-3				-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-03-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/03/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 533337
Drilling Method	: Vibracore	Easting	: 1456196
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, black changing to gray low 0.5 feet, low plasticity, trace fine sand, free oil and hydrocarbon odor to 0.5 feet, some plants debris.		X	Suite C	NT
1	-1				-1	X	Suite A	NT
2	-2	SM		SILTY SAND, moderately dense, wet, gray, fine, micaceous.	-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
				Unrecovered interval.				
5	-5				-5			
6	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-03-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/03/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 529479
Drilling Method	: Vibracore	Easting	: 1456237
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft to soft, wet, gray, low plasticity, trace fine sand.		X	Suite C	NT
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
3	-3	SW		SAND, loose, moist, gray, fine, micaceous, trace silt.	-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7	-7				-7			

08-23-1999 C:\MTECH5\BOLSAL~1\RD-03-03.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-03-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 558872
Drilling Method	: Vibracore	Easting	: 1457094
Sampling Method	: Extraction	Elapsed Time	: 39 min.

Depth in Feet	Surf. Elev. 2.4	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.4	Samples	Sample No.	PID (ppm)
0	2	CL		SILTY CLAY, very soft, wet, mottled black and olive gray, low plasticity, trace micaceous sand.	2			
1	1	SM		SILTY SAND, loose, wet, dark gray, low plasticity, very fine, micaceous, lenses of oxidation.	1			
2	0				0			
3	-1	SW		SAND, loose, wet, dark gray, fine, micaceous, some silt.	-1		Dredge	NT
4	-2				-2			
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6				-6		Suite C	NT
9	-7				-7			
10	-8			Unrecovered interval.	-8			
11	-9				-9			
12								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-03-04.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-03-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 558665
Drilling Method	: Vibracore	Easting	: 1457301
Sampling Method	: Extraction	Elapsed Time	: 24 min.

Depth in Feet	Surf. Elev. 1.6	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.6	Samples	Sample No.	PID (ppm)
0		CL		SILTY CLAY, very soft, wet, black, low plasticity, trace fine micaceous sand, considerable organic material, strong hydrogen sulfide odor. Color transition to mottled black and olive gray at 0.8 feet.				
1	1				1			
1	0				0			
2		SW		SAND, loose, wet, dark gray, fine, micaceous, some silt increasing in content with depth.			Dredge	NT
2	-1				-1			
3	-2				-2			
4	-3				-3		Suite C	NT
5	-4				-4			
6				Unrecovered interval.				
6	-5				-5			
7	-6				-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-03-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/01/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 558437.952
Drilling Method	: Vibracore	Easting	: 1457701.362
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. -3.135	USCS Code	Hatching	Lithologic Description	Surf. Elev. -3.135	Samples	Sample No.	PID (ppm)
0		CL		CLAY, very soft, wet, medium brown, low plasticity, trace fine micaceous sand, lenses of black organic material.				
1	-4	SM		SILTY SAND, loose, wet, olive gray, low plasticity, very fine, micaceous.	-4			
2	-5				-5			
3	-6	SW		SAND, loose, wet, dark gray, fine, micaceous, some silt.	-6			
4	-7				-7		Dredge	NT
5	-8				-8			
6	-9				-9			
7	-10				-10			
8	-11				-11			
9	-12				-12		Suite C	NT
10	-13				-13			
				Unrecovered interval.				
11	-14				-14			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-03-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/23/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558163.904
Drilling Method	: Vibracore	Easting	: 1457964.442
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0.925	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.925	Samples	Sample No.	PID (ppm)
0		ML		SILT, medium stiff, moist, striated light and dark brown, medium plasticity, trace fine sand, some organic plant and fibrous material. Consistency changing to soft and color transition to olive gray from 0.1 to 0.3 feet. Consistency changing to medium stiff and color transition to striated light and dark brown at 0.3 feet.		X	Suite C	NT
1	0	SM		SILTY SAND, loose, wet, dark gray, fine to medium, micaceous.	0			
2	-1				-1	X	Suite A	NT
3	-2				-2			
4	-3				-3	X	Suite A	NT
5	-4				-4			
6	-5			Shell fragments below 6.0 feet to total depth.	-5			
7	-6			Unrecovered interval.	-6			
8	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/19/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561793.4618
Drilling Method	: Vibracore	Easting	: 1454771.374
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. 0.026	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.026	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, mottled tan and oxidation, fine to medium, micaceous. Color transition to very dark gray at 0.25 feet.	0	X	Suite C	NT
1	-1				-1			
2	-2			Slight decrease in silt content to 5.0 feet, increasing silt content from 5.0 feet to total depth.	-2	X	Suite A	NT
3	-3				-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/19/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561459.9027
Drilling Method	: Vibracore	Easting	: 1454542.523
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0.299	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.299	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, very dark gray, fine to medium, micaceous, considerable organic material with strong hydrocarbon odor to 2 inches, decreasing silt content with depth.	0	X	Suite C	NT
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
3	-3				-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561065.6975
Drilling Method	: Vibracore	Easting	: 1454950.744
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. -0.113	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.113	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous, considerable organic material to 2 inches.		X	Suite C	NT
1	-1			Slight decrease in silt content with depth.	-1			
2	-2				-2	X	Suite A	NT
3	-3			Some shell fragments from 2.8 to 2.9 feet.	-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561161.5095
Drilling Method	: Vibracore	Easting	: 1455246.634
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0.015	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.015	Samples	Sample Analyses	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, dark olive gray, fine, micaceous, some lenses of oxidation.	0	X	Suite C	NT
1	-1			Color transition to very dark gray at 1 foot, some shell fragments from 1.1 to 3.7 feet.	-1			
2	-2				-2	X	Suite A	NT
3	-3				-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 560761.8289
Drilling Method	: Vibracore	Easting	: 1455345.264
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. -0.212	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.212	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, dark olive gray, fine, micaceous, lenses of oxidation.		X	Suite C	NT
	-1				-1			
1								
				Color transition to very dark gray at 1.6 feet.		X	Suite A	NT
	-2				-2			
2								
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5			Increasing silt content from 4.7 feet to total depth.	-5			
5								
	-6				-6			
6				Unrecovered interval.				
	-7				-7			
7								
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 560570.2024
Drilling Method	: Vibracore	Easting	: 1455550.743
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. -0.021	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.021	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, dark olive gray, fine, micaceous, some lenses of oxidation to 1.4 feet, slight decrease in silt content with depth.		X	Suite C	NT
1	-1			Color transition to very dark gray at 1.2 feet.	-1			
						X	Suite A	NT
2	-2				-2			
3	-3				-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7				-7			
				Unrecovered interval.				
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-04-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 560460.7004
Drilling Method	: Vibracore	Easting	: 1455748.004
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. -0.646	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.646	Samples	Sample Analyses	PID (ppm)
0								
	-1	SM		SILTY SAND, loose, wet, dark olive gray, fine, micaceous, considerable organic material to 2 in. with slight hydrogen sulfide odor.	-1	X	Suite C	NT
1								
	-2			Color transition to very dark gray at 1.1 feet.	-2	X	Suite A	NT
2								
	-3			Slight decrease in silt content with depth.	-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5								
	-6				-6			
6								
	-7				-7			
7				Unrecovered interval.				
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-05-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/11/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562149
Drilling Method	: Vibracore	Easting	: 1454650
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. -0.44	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.44	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, wet, very dark gray, low plasticity, very fine micaceous sand, strong hydrogen sulfide odor, considerable organic material.				
	-1	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-1			
1								
	-2				-2			
2								
	-3				-3			
3							Dredge	NT
	-4				-4			
4								
	-5			Considerable shell fragments from 4.8 to 6.9 feet.	-5			
5								
	-6				-6			
6								
	-7				-7			
7							Suite C	NT
	-8				-8			
8								
	-9				-9			
9				Unrecovered interval.				
	-10				-10			
10								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-06-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561656.879
Drilling Method	: Vibracore	Easting	: 1455140.244
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 2.519	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.519	Samples	Sample No.	PID (ppm)
0		SP		SAND, loose, moist, tan with oxidized mottling to 1.7 feet, fine to medium, micaceous, subangular, trace silt.		X	Suite C	NT
	2				2			
1				Color transition to gray below 1.4 feet.				
	1				1	X	Suite A	NT
2								
	0				0			
3								
	-1				-1	X	Suite A	NT
4				Lens of shell fragments from 4.1 to 4.3 feet.				
	-2				-2			
5								
	-3				-3			
6								
	-4				-4			
7				Unrecovered interval.				
	-5				-5			
8								
	-6				-6			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-06-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/23/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 561753.156
Drilling Method	: Vibracore	Easting	: 1455337.997
Sampling Method	: Extraction	Elapsed Time	: 13 min.

Depth in Feet	Surf. Elev. 1.171	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.171	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose, wet to moist, tan with oxidized mottling, fine to medium, micaceous.	1	X	Suite C	NT
1	0			Color transition to gray at 1.2 feet.	0			
						X	Suite A	NT
2	-1				-1			
3	-2				-2	X	Suite A	NT
4	-3				-3			
5	-4				-4			
6	-5			Unrecovered interval.	-5			
7	-6				-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-06-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561073.198
Drilling Method	: Vibracore	Easting	: 1455649.919
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.143	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.143	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, very soft, wet, olive, non-plastic, fine micaceous sand, trace plant material.	0	X	Suite C	NT
		SM		SILTY SAND, loose, wet, gray, fine, micaceous, subangular, red oxidized mottling to 1.5 feet.				
1	-1			Shell fragments from 1.1 to 1.3 feet.	-1			
						X	Suite A	NT
2	-2				-2			
3	-3			Shell fragments from 3.0 to 3.3 feet.	-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6			Shell fragments from 5.9 to 6.6 feet.	-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-06-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/23/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 561263.027
Drilling Method	: Vibracore	Easting	: 1455853.555
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. -0.90	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.90	Samples	Sample No.	PID (ppm)
0	-1	ML		SANDY SILT, very soft, wet, gray, non-plastic, fine micaceous sand.	-1	X	Suite C	NT
		SM		SILTY SAND, dense, moist, black, fine to medium, micaceous, subangular, free oil to 1.2 feet, strong hydrocarbon odor.				
1	-2			Gravel and shell fragments from 0.75 to 1.0 ft.	-2	X	Suite A	NT
2	-3				-3			
3	-4			Considerable shell fragments from 3.3 to 3.8 feet, trace shell fragments below 3.8 feet.	-4	X	Suite A	NT
4	-5				-5			
5	-6				-6			
6	-7				-7			
7	-8			Unrecovered interval.	-8			
8	-9				-9			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-06-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560662.447
Drilling Method	: Vibracore	Easting	: 1456047.674
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. -0.058	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.058	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, olive gray, medium plasticity, fine sand to 0.25 feet, lenses of fine sand below 0.25 feet, trace shell fragments, slight hydrogen sulfide odor. Consistency changing to medium stiff at 0.25 feet, color transition to light gray at 0.5 feet.		X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist to wet, gray, fine to medium, micaceous, subangular.	-1	X	Suite A	NT
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5			Thin lens of clay at 5.2 feet.	-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-07-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560560.395
Drilling Method	: Vibracore	Easting	: 1456348.188
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. 1.634	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.634	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, soft, moist, dark brown, low plasticity, trace fine micaceous sand, some plant and wood materials.		X	Suite C	NT
	1	SM		SILTY SAND, loose, wet, light grayish tan with oxidation mottling, fine to medium, micaceous, subangular.	1			
1								
	0				0	X	Suite A	NT
2				Color transition to dark gray at 2.2 feet.				
	-1				-1			
3								
	-2			Considerable shell fragments from 3.5 to 4.2 feet.	-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4			Considerable shell fragments from 5.5 to 6.5 feet.	-4			
6								
	-5			Unrecovered interval.	-5			
7								
	-6				-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-07-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559961.445
Drilling Method	: Vibracore	Easting	: 1456655.087
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 1.903	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.903	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, soft, moist, dark brown, low plasticity, trace fine micaceous sand, some plant and wood materials.		X	Suite C	NT
		SM		SILTY SAND, loose, wet, light grayish tan with oxidation mottling, fine to medium, micaceous, subangular.				
1	1				1			
2	0			Color transition to dark gray at 2.2 feet.	0	X	Suite A	NT
3	-1				-1			
				Considerable shell fragments from 3.5 to 4.2 feet.		X	Suite A	NT
4	-2				-2			
5	-3				-3			
				Considerable shell fragments from 5.5 to 6.5 feet.				
6	-4				-4			
				Unrecovered interval.				
7	-5				-5			
8	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-08-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/08/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 559706.471
Drilling Method	: Vibracore	Easting	: 1456902.797
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. 1.716	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.716	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, soft, wet, medium brown changing to olive gray at 0.25 feet, low plasticity, very fine micaceous sand, considerable roots and organic material.				
1	1	SM		SILTY SAND, loose, wet, olive gray, fine, micaceous, decrease in silt content with depth.	1			
2	0			Color transition to mottled olive gray and oxidation from 1.8 to 3 ft.	0			
3	-1				-1			
4	-2			Color transition to dark gray at 3.5 feet.	-2		Dredge	NT
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6	SW		SAND, loose, wet, dark gray, medium, micaceous, some silt.	-6			
9	-7				-7			
10	-8				-8		Suite C	NT
11	-9				-9			
12	-10			Unrecovered interval.	-10			
13	-11				-11			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-08-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 559899.522
Drilling Method	: Vibracore	Easting	: 1457073.551
Sampling Method	: Extraction	Elapsed Time	: 18 min.

Depth in Feet	Surf. Elev. 1.351	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.351	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose, wet, dark brown changing to mottled olive gray and oxidation at 0.25 feet, fine, micaceous, considerable roots in organic material.	1			
1	0	SW		SAND, loose, wet, olive gray, medium, micaceous, trace silt, some lenses of oxidation.	0			
2	-1				-1		Dredge	NT
3	-2	SM		SILTY SAND, loose, wet, very dark gray, fine to medium, micaceous, considerable shell fragments to 3:4 feet, decreasing silt content with depth.	-2			
4	-3				-3			
5	-4				-4			
6	-5				-5		Suite C	NT
7	-6				-6			
8	-7				-7			
9	-8				-8			
10	-9	SW		SAND, loose, wet, very dark gray, medium, trace silt.	-9			
11				Unrecovered interval.				
12	-10				-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-08-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 559482.826
Drilling Method	: Vibracore	Easting	: 1457502.901
Sampling Method	: Extraction	Elapsed Time	: 25 min.

Depth in Feet	Surf. Elev. 0.453	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.453	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, mottled olive gray and oxidation, fine, micaceous.	0			
1	-1			Color transition to very dark gray at 1.4 feet.	-1			
				Considerable shell fragments from 1.8 to 1.9 feet.				
2	-2				-2			
3	-3				-3		Dredge	NT
4	-4				-4			
5	-5			Considerable shell fragments from 5.2 to 6.7 feet, slight decrease in silt content with depth.	-5			
6	-6				-6			
7	-7				-7			
8	-8				-8		Suite C	NT
9	-9				-9			
10				Unrecovered interval.				
	-10				-10			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-08-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 559124.347
Drilling Method	: Vibracore	Easting	: 1457639.328
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. 0.319	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.319	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, very soft, black, moderate hydrogen sulfide odor.	0			
		SM		SILTY SAND, loose, wet, mottled olive gray and oxidation, fine to medium, micaceous.				
1	-1			Color transition to dark gray at 1.4 feet, considerable shell fragments from 1.4 to 1.6 feet, slight decrease in silt content with depth.	-1			
2	-2				-2			
3	-3				-3		Dredge	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7				-7			
8	-8				-8		Suite C	NT
9	-9				-9			
10	-10			Unrecovered interval.	-10			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-08-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559009.33
Drilling Method	: Vibracore	Easting	: 1457836.56
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0.59	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.59	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, black changing to tan at 1 in., non-plastic, trace fine micaceous sand.		X	Suite C	NT
	0	SM		SILTY SAND, loose, wet, tan and red mottling, oxidized plant material to 1.7 feet.	0			
1	-1				-1	X	Suite A	NT
2				Color transition to light gray.				
	-2				-2			
3	-3				-3	X	Suite A	NT
4								
	-4				-4			
5	-5				-5			
6	-6				-6			
7				Unrecovered interval.				
	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-09-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558865.844
Drilling Method	: Vibracore	Easting	: 1458147.396
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.931	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.931	Samples	Sample No.	PID (ppm)
0		ML		SILT, very loose, tan, wet, non-plastic.				
		ML		SANDY SILT, soft, moist, tan, medium plasticity, fine micaceous sand, some red oxidized mottling.		X	Suite C	NT
		SM		SILTY SAND, loose, moist to wet, fine, micaceous, subangular, oxidized mottling to 2.8 feet, some plant material to 2.0 feet.				
1	0				0			
						X	Suite A	NT
2	-1				-1			
				Color transition to gray at 2.8 feet.				
3	-2				-2			
						X	Suite A	NT
4	-3				-3			
5	-4				-4			
6	-5			Silt content decreasing near bottom of core.	-5			
				Unrecovered interval.				
7	-6				-6			
8	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-09-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558466.486
Drilling Method	: Vibracore	Easting	: 1458341.149
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0.331	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.331	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, moist to wet, tan with oxidized mottling, low plasticity, fine micaceous sand, some plant material.	0	X	Suite C	NT
		SM		SILTY SAND, loose, moist, gray changing to tan at 0.5 feet, fine, micaceous, oxidized plant material.				
1	-1				-1	X	Suite A	NT
2	-2			Silt content decreasing with depth below 2.5 feet.	-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-09-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558074.664
Drilling Method	: Vibracore	Easting	: 1458852.298
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 1.307	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.307	Samples	Sample No.	PID (ppm)
0	1	PT		ORGANIC SANDY SILT, medium stiff, moist, dark brownish red, medium plasticity, some plant material.	1	X	Suite C	NT
1	0	SM		SILTY SAND, loose, moist to wet, tan, fine to medium, micaceous.	0	X	Suite A	NT
2	-1			Color transition to gray at 2.0 feet.	-1			
3	-2				-2	X	Suite A	NT
4	-3			Considerable large shell fragments from 4.2 feet to total depth.	-3			
5	-4				-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-09-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558066.065
Drilling Method	: Vibracore	Easting	: 1459155.301
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. -0.457	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.457	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, light brown, non-plastic, some fragments of oxidized material, trace fine micaceous sand, slight hydrogen sulfide odor.		X	Suite C	NT
	-1	SM		SILTY SAND, very loose, wet, olive tan with red mottling to 1.2 feet. Consistency changing to loose at 0.75 feet.	-1			
1								
	-2			Color transition to gray at 1.5 feet.	-2	X	Suite A	NT
2				Considerable shell fragments from 2.3 to 2.8 feet.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4				Considerable shell fragments from 4.2 to 5.0 feet.				
	-5				-5			
5								
	-6			Considerable shell fragments from 5.7 to total depth.	-6			
6								
	-7				-7			
7				Unrecovered interval.				
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-10-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/16/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 1 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample Analyses	PID (ppm)
0	0	ML		SILT, soft, moist, dark brown, low plasticity, considerable organic material.	0	X	Suite C	NT
		SM		SILTY SAND, loose, moist, medium brown, non-plastic, fine, micaceous.				
1	-1	ML		SANDY SILT, soft, wet, gray, very low plasticity, fine micaceous sand.	-1	X	Suite A	NT
2	-2				-2			
3	-3	SM		SILTY SAND, loose, wet, dark gray, non-plastic, fine, micaceous.	-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-10-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/15/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 558267.931
Drilling Method	: Vibracore	Easting	: 1458356.224
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. 0.3	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.3	Samples	Sample No.	PID (ppm)
0	0	ML		SILT, soft, slightly moist, olive gray, some organic debris.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, moderately dense, moist, olive gray, fine, well sorted, micaceous.	-1	X	Suite A	NT
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-10-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/16/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, moist to wet, dark brown, low plasticity, fine, micaceous, some organic material and lenses of oxidation to 1.5 feet.	0	X	Suite C	NT
1	-1				-1			
				Color transition to medium gray at 1.5 feet.		X	Suite A	NT
2	-2				-2			
3	-3			Color transition to dark gray at 3.0 feet.	-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-10-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/15/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 557359.065
Drilling Method	: Vibracore	Easting	: 1459049.375
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. 1.520	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.520	Samples	Sample No.	PID (ppm)
0		ML		SILT, hard, dry, brown, medium plasticity, trace sand and organic materials.		X	Suite C	NT
	1			Consistency changing to soft, moisture content increasing to moist, color transition to gray and plasticity decreasing to low at 0.5 feet.	1			
1								
	0			Consistency increasing to stiff at 1.5 feet.	0	X	Suite A	NT
2								
	-1				-1			
3								
	-2				-2	X	Suite A	NT
4		SM		SILTY SAND, moderately dense, wet, gray, fine, well sorted, micaceous.				
	-3				-3			
5								
	-4				-4			
6				Unrecovered interval.				
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/09/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 557881.662
Drilling Method	: Vibracore	Easting	: 1459264.236
Sampling Method	: Extraction	Elapsed Time	: 5 min

Depth in Feet	Surf. Elev. -0.476	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.476	Samples	Sample No.	PID (ppm)
0								
		CL		SILTY CLAY, soft, moist to wet, dark brown changing to dark olive grey at 0.5 ft, medium plasticity, considerable organic matter, some fine micaceous sand.			Suite C	0.0
	-1				-1			
1								
	-2				-2		Suite A	0.0
2		SM		SILTY SAND, loose, wet, dark grey, fine, micaceous, low plasticity, decreasing silt content with depth.				
	-3				-3			
3								
	-4				-4		Suite A	0.0
4								
	-5				-5			
5				Unrecovered Interval.				
	-6				-6			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/10/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 558070.68
Drilling Method	: Vibracore	Easting	: 1459647.376
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.269	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.269	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, wet, black changing to olive green at 0.25 feet, fine sand, some brown mottling.		X	Suite C	0.0
	-1				-1			
1								
	-2				-2	X	Suite A	0.0
2								
	-3				-3			
3		SM		SILTY SAND, loose, moist, fine.				
	-4				-4	X	Suite A	0.0
4								
	-5				-5			
5				Sand content increasing with depth.				
	-6			Unrecovered interval.	-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/10/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 557764.13
Drilling Method	: Vibracore	Easting	: 1459851.749
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.05	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.05	Samples	Sample No.	PID (ppm)
0		ML		SILT, very loose, moist, black, low plasticity, considerable hydrogen sulfide odor to 1.25 feet. Color transition to black mottled with green from 0.5 to 2.0 feet.		X	Suite C	3.5
1	-1				-1	X	Suite A	0.0
2	-2	SM		SILTY SAND, loose, olive green. Lens of shell fragments at 2.75 feet.	-2			
3	-3				-3	X	Suite A	0.0
4	-4				-4			
5	-5			Consistency change to dense and sand content increasing with depth.	-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/10/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 557570.139
Drilling Method	: Vibracore	Easting	: 1460345.017
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.454	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.454	Samples	Sample No.	PID (ppm)
0		SC		SILTY CLAY, soft, moist, olive green with black streaking, medium plasticity, blocky.		X	Suite C	0.0
	-1			Trace fine sand, organic debris from 0.5 to 3.0 feet.	-1			
1								
	-2				-2	X	Suite A	0.0
2								
	-3				-3			
3		SM		SILTY SAND, loose, moist, dark gray, fine.				
	-4				-4	X	Suite A	0.0
4								
	-5			Considerable shell hash from 4.5 feet to total depth.	-5			
5				Silt content decreasing with depth.				
	-6				-6			
6				Unrecovered interval.				
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/10/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 557367.178
Drilling Method	: Vibracore	Easting	: 1460556.431
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.234	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.234	Samples	Sample No.	PID (ppm)
0		ML		SILT, loose, moist, black, low plasticity, considerable hydrogen sulfide odor.		X	Suite C	0.8
	-1				-1			
1		CL		SILTY CLAY, soft, moist, gray with black streaking, medium plasticity, considerable organic debris.		X	Suite A	7.3
	-2				-2			
2								
	-3				-3			
3						X	Suite A	0.0
	-4				-4			
4								
	-5				-5			
5				Consistency increasing to medium stiff.				
				Unrecovered interval.				
	-6				-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 557274.457
Drilling Method	: Vibracore	Easting	: 1459644.285
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.224	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.224	Samples	Sample No.	PID (ppm)
0		PSC		SILTY CLAY, soft, black changing to olive greenish brown at 0.25 feet, medium plasticity, trace hydrocarbon odor.		X	Suite C	NT
	-1				-1			
1								
	-2				-2	X	Suite A	NT
2								
				Color transition to olive green at 2.5 feet, fine sand, hydrogen sulfide odor.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5			Unrecovered interval.	-5			
5								
	-6				-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 557065.984
Drilling Method	: Vibracore	Easting	: 1459846.727
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. -0.165	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.165	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC CLAY, soft, dry, light brown, low plasticity, trace hydrocarbon odor.		X	Suite C	NT
	-1				-1			
1				Moisture content increasing to moist and color transition to olive at 1.0 feet				
	-2				-2	X	Suite A	NT
2		SC		SANDY CLAY, medium stiff, moist, olive green, medium plasticity fine sand, trace hydrocarbon odor.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5				Unrecovered interval.				
	-6				-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Atkinson	Northing	: 557165.149
Drilling Method	: Vibracore	Easting	: 1460143.019
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.131	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.131	Samples	Sample No.	PID (ppm)
0	0	SC		CLAYEY SAND, loose, moist, light brown, low plasticity, fine.	0	X	Suite C	NT
1	-1	CL		SILTY CLAY, soft, moist, black, considerable organic debris and hydrocarbon odor. Color transition to olive green at 1.0 feet with considerable hydrogen sulfide odor.	-1	X	Suite A	NT
2	-2				-2			
3	-3			Trace fine sand, organic debris and hydrocarbon odor from 2.5 to total depth.	-3	X	Suite A	NT
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/09/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 557066.058
Drilling Method	: Vibracore	Easting	: 1458444.545
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0.931	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.931	Samples	Sample No.	PID (ppm)
0		CL		SILTY CLAY, soft, moist to wet, dark brown changing to medium brown at 2.5 feet, high plasticity, considerable organic material.		X	Suite C	0.0
1	0				0			
						X	Suite A	0.0
2	-1				-1			
3	-2				-2			
		ML		SILT, medium stiff, wet, dark gray, some fine micaceous sand, low plasticity.		X	Suite A	0.0
4	-3				-3			
5	-4				-4			
6	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Atkinson	Northing	: 556770.673
Drilling Method	: Vibracore	Easting	: 1459448.91
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.108	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.108	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC CLAY, medium stiff, dry, brown, low plasticity, considerable silt.		X	Suite C	0.0
	-1				-1			
1		SC		SANDY CLAY, medium stiff, moist, olive green with light brown mottling, medium plasticity, fine sand, some organic material, trace hydrocarbon odor.		X	Suite A	0.0
	-2				-2			
2								
	-3				-3			
3				Sand content increasing with depth.		X	Suite A	0.0
	-4				-4			
4								
	-5				-5			
5								
	-6			Unrecovered interval.	-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-13

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/05/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 556758.93
Drilling Method	: Vibracore	Easting	: 1459753.729
Sampling Method	: Extraction	Elapsed Time	: 120 min

Depth in Feet	Surf. Elev. -0.881	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.881	Samples	Sample No.	PID (ppm)
0	-1	ML		SILT, soft, wet, black, low plasticity, hydrogen sulfide odor.	-1	X	Suite C	0.0
1	-2	CL		SILTY CLAY, medium stiff, wet, dark olive, medium plasticity, some organic material, slight hydrogen sulfide odor.	-2	X	Suite A	0.0
2	-3				-3			
3	-4				-4	X	Suite A	0.0
4	-5				-5			
				Unrecovered interval.				
5	-6				-6			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-11-14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Atkinson	Northing	: 556706.378
Drilling Method	: Vibracore	Easting	: 1459851.719
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.678	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.678	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SILT, very loose, black, low plasticity, trace hydrogen sulfide odor.	-1	X	Suite C	NT
1		SC		SILTY CLAY, soft, moist, dark olive, medium plasticity, considerable organic debris, hydrocarbon odor.				
	-2			Hydrogen sulfide and hydrocarbon odor from 1.5 to 2.75 feet.	-2	X	Suite A	NT
2								
	-3				-3			
				Hydrogen sulfide odor from 2.75 feet to total depth.				
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5								
	-6				-6			
				Unrecovered interval.				
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-12-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 1 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, moist, dark brown changing to medium brown at 0.5 feet, fine with gravel, micaceous, some rootlets.	0	X	Suite C	NT
1	-1				-1			
2	-2	ML		SANDY SILT, soft, wet, dark olive gray, low plasticity, fine micaceous sand.	-2	X	Suite A	NT
3	-3				-3			
4	-4	SM		SILTY SAND, moderately dense, wet, dark olive gray, fine, micaceous.	-4	X	Suite A	NT
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-12-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 558166.6418
Drilling Method	: Vibracore	Easting	: 1460348.007
Sampling Method	: Extraction	Elapsed Time	: 1 min.

Depth in Feet	Surf. Elev. -1.225	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.225	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist to wet, dark olive gray, fine micaceous sand, lenses of oxidation and black material to 0.5 feet, some rootlets.		X	Suite C	NT
1	-2				-2			
2	-3	SM		SILTY SAND, moderately dense, wet, dark olive, fine, micaceous.	-3	X	Suite A	NT
3	-4			Color transition to dark gray at 2.5 feet. Lens of organic material at 2.5 feet with a slight hydrogen sulfide odor.	-4			
4	-5				-5	X	Suite A	NT
5	-6				-6			
6	-7			Unrecovered interval.	-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-12-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/16/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 558068.0897
Drilling Method	: Vibracore	Easting	: 1460649.375
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.06	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.06	Samples	Sample No.	PID (ppm)
0		ML		CLAYEY SILT, soft, moist, dark brown, medium plasticity, organic material to 0.5 feet.		X	Suite C	NT
1	-2				-2			
2	-3	SM		SILTY SAND, loose, wet, dark gray, non-plastic, fine, micaceous.	-3	X	Suite A	NT
3	-4				-4			
4	-5				-5	X	Suite A	NT
5	-6			Unrecovered interval.	-6			
6	-7				-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-12-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/16/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 1 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	ML		CLAYEY SILT, soft to medium stiff, dry to moist, dark brown, considerable organic material (rootlets and fibrous material).	0	X	Suite C	NT
1	-1				-1	X	Suite A	NT
2	-2	CL		SILTY CLAY, soft, wet, dark gray, medium plasticity, trace organic material.	-2			
3	-3	ML		SILT, soft, wet, dark gray, low plasticity, trace fine sand and organic material.	-3	X	Suite A	NT
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-13-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 558861.976
Drilling Method	: Vibracore	Easting	: 1459452.116
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. -1.53	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.53	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist, dark olive, fine micaceous sand, lenses of oxidation, some rootlets.		X	Suite C	NT
	-2				-2			
1								
	-3	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, some fibrous material, slight hydrogen sulfide odor.	-3	X	Suite A	NT
2								
	-4				-4			
3								
	-5				-5	X	Suite A	NT
4								
	-6				-6			
5								
	-7				-7			
				Unrecovered interval.				
6								
	-8				-8			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-13-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/17/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 558659.399
Drilling Method	: Vibracore	Easting	: 1459649.377
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.89	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.89	Samples	Sample No.	PID (ppm)
0	-1	SM		SILTY SAND, loose, wet, dark olive, fine, micaceous, lenses of oxidation to 1.5 feet, strong hydrogen sulfide odor, some rootlets.	-1	X	Suite C	NT
1	-2				-2			
				Color transition to dark gray at 1.5 feet.		X	Suite A	NT
2	-3				-3			
3	-4				-4	X	Suite A	NT
4	-5			Unrecovered interval.	-5			
5	-6				-6			
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-14-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559737.101
Drilling Method	: Vibracore	Easting	: 1458081.890
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0.584	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.584	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, moist to wet, tan, fine, micaceous, subangular, red mottling to 1.5 feet, trace shell fragments.	0	X	Suite C	NT
1				Color transition to gray at 1.2 feet.				
2	-1				-1	X	Suite A	NT
3	-2			Slight hydrogen sulfide odor near center of core.	-2			
4	-3				-3	X	Suite A	NT
5	-4				-4			
6	-5			Considerable shell fragments from 5.5 to total depth.	-5			
7	-6			Unrecovered interval.	-6			
8	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-14-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559060.258
Drilling Method	: Vibracore	Easting	: 1458449.243
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.178	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.178	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, moist to wet, tan, fine to medium, micaceous, subangular, trace shell fragments. Lens shell fragments at 0.5 feet.	0	X	Suite C	NT
1	-1				-1			
2	-2				-2	X	Suite A	NT
3	-3				-3			
		SC		CLAYEY SILT, stiff, moist, gray, medium plasticity.		X	Suite A	NT
4	-4	SM		SILTY SAND, loose, moist to wet, tan, fine to medium, micaceous, subangular, trace shell fragments. Considerable shell fragments from 4.8 to 5.0 feet.	-4			
5	-5			Considerable shell fragments from 5.4 to 5.7 feet.	-5			
6	-6				-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-14-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559077.373
Drilling Method	: Vibracore	Easting	: 1458859.190
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. -0.67	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.67	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, very soft, wet, black, non-plastic, slight hydrogen sulfide odor.				
	-1			SILTY SAND, loose, wet, tan, and fine to medium, micaceous, subangular, red mottling to 2.0 feet.	-1	X	Suite C	NT
1								
	-2			Color transition to gray at 1.4 feet.	-2	X	Suite A	NT
2								
	-3			Some shell fragments from 2.4 to 3.0 feet.	-3			
3				Trace shell fragments from a 3.0 to 4.4 feet.				
	-4	SM			-4	X	Suite A	NT
4								
	-5			Considerable shell fragments from 4.4 to 5.8 feet.	-5			
5								
	-6				-6			
6								
	-7				-7			
7				Unrecovered interval.				
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-14-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559162.541
Drilling Method	: Vibracore	Easting	: 1459053.344
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. -0.233	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.233	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, very soft, wet, black, trace fine sand, considerable plant material, strong hydrogen sulfide odor.		X	Suite C	NT
		SM		SILTY SAND, loose, wet to moist, tan, fine to medium, micaceous, subangular, slight hydrogen sulfide odor.				
	-1				-1			
1				Color transition to dark gray at 1.2 feet, black mottling to 1.5 feet.				
				Lens of shell fragments at 1.5 feet.				
	-2				-2	X	Suite A	NT
2								
	-3				-3			
3				Lens of shell fragments at 3.5 feet.				
	-4				-4	X	Suite A	NT
4				Lens of shell fragments at 4.0 feet.				
	-5				-5			
5								
	-6				-6			
6				Silt content decreasing near bottom of core.				
	-7				-7			
7				Unrecovered interval.				
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-15-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560784.431
Drilling Method	: Vibracore	Easting	: 1456860.4
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. 0.578	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.578	Samples	Sample No.	PID (ppm)
0								
	0	SM		SILTY SAND, loose, wet, dark brown, fine, micaceous, some rootlets and lenses of oxidation to 2.3 feet.	0			
1								
	-1				-1			
2				Color transition to very dark gray at 2.3 feet.				
	-2				-2			
3								
	-3				-3		Dredge	NT
4								
	-4				-4			
5				Some shell fragments from 5.0 to 5.7 feet.				
	-5				-5			
6								
	-6				-6			
7								
	-7	SW		SAND, loose, wet, dark gray, fine, micaceous, trace silt. Considerable shell fragments from 7.7 to 7.9 feet.	-7			
8								
	-8				-8		Suite C	NT
9								
	-9				-9			
10				Unrecovered interval.				
	-10				-10			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-15-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560319.293
Drilling Method	: Vibracore	Easting	: 1457078.647
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. -0.908	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.908	Samples	Sample No.	PID (ppm)
0	-1	ML		SANDY SILT, hard, black changing to dark brown at 1 in., blocky, fine micaceous sand, hydrocarbon odor, considerable organic material.	-1			
		SM		SILTY SAND, loose, wet, all the gray, fine, micaceous, slight decrease in silt content with depth. Color transition to very dark gray, considerable organic material and some shell fragments at 1.0 foot.				
1	-2				-2			
2	-3				-3			
3	-4				-4		Dredge	NT
4	-5				-5			
				Considerable shell fragments from 4.6 to 4.9 feet.				
5	-6				-6			
				Considerable shell fragments from 5.5 to 7.9 feet.				
6	-7				-7			
7	-8				-8		Suite C	NT
8	-9				-9			
				Unrecovered interval.				
9	-10				-10			
10								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-15-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560321.825
Drilling Method	: Vibracore	Easting	: 1457287.868
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. -1.537	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.537	Samples	Sample No.	PID (ppm)
0								
	-2	ML		SANDY SILT, very soft, wet, black changing to yellowish brown at 1 in., blocky, fine micaceous sand, strong hydrogen sulfide odor, considerable organic material.	-2			
1								
	-3	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous.	-3			
2								
	-4			Considerable shell fragments from 2.2 to 2.4 feet.	-4		Dredge	NT
3				Considerable shell fragments from 3.0 to 6.2 feet.				
	-5				-5			
4								
	-6				-6			
5								
	-7				-7			
6							Suite C	NT
	-8				-8			
7				Some shell fragments from 7.0 to 8.0 feet.				
	-9				-9			
8				Unrecovered interval.				
	-10				-10			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-15-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 559904.106
Drilling Method	: Vibracore	Easting	: 1457497.622
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. -1.151	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.151	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, low plasticity, very fine micaceous sand, some rootlets.				
1	-2	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous, slight decrease in silt content with depth. Considerable shell fragments from 1.0 to 1.2 feet.	-2			
2	-3				-3			
3	-4				-4		Dredge	NT
4	-5				-5			
5	-6				-6			
6	-7				-7			
7	-8				-8		Suite C	NT
8	-9			Unrecovered interval.	-9			
9	-10				-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-15-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/01/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, wet, dark brown, very fine micaceous sand, considerable organic material, moderate hydrogen sulfide odor.	0	X	Suite C	NT
		SM		SILTY SAND, loose, wet, dark olive gray, fine, micaceous.				
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
				Considerable shell fragments from 2.3 to 2.5 feet, slight decrease in silt content with depth.				
3	-3				-3			
				Slight hydrogen sulfide odor.		X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-16-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/10/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 560948.082
Drilling Method	: Vibracore	Easting	: 1456405.133
Sampling Method	: Extraction	Elapsed Time	: 27 min.

Depth in Feet	Surf. Elev. -1.93	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.93	Samples	Sample No.	PID (ppm)
0	-2	SM		SILTY SAND, loose, wet, dark gray, fine to medium, micaceous.	-2			
1	-3			Considerable shell fragments from 1 to 2.3 feet, moderate hydrogen sulfide odor.	-3			
2	-4				-4		Dredge	NT
3	-5				-5			
4	-6				-6			
5	-7				-7			
6	-8				-8		Suite C	NT
7	-9				-9			
8	-10				-10			
9	-11			Unrecovered interval.	-11			
10								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-16-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/10/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 5601154.443
Drilling Method	: Vibracore	Easting	: 1456477.181
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 1.495	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.495	Samples	Sample No.	PID (ppm)
0		SC		CLAYEY SAND, dense, moist, dark brown, medium plasticity, very fine, micaceous, considerable roots in organic material.				
	1			SILTY SAND, loose, wet, mottled olive gray and oxidation, fine, micaceous.	1			
1	0				0			
2				Color transition to dark gray at 2 feet.				
	-1				-1			
3				Considerable shell fragments from 3.1 to 4.0 feet.				
	-2				-2			
4							Dredge	NT
	-3			Considerable shell fragments from 4.4 to 4.6 feet.	-3			
5								
	-4	SM			-4			
6								
	-5				-5			
7								
	-6				-6			
8								
	-7				-7			
9				Considerable shell fragments from 9.3 to 9.7 feet.			Suite C	NT
	-8				-8			
10								
	-9			Unrecovered interval.	-9			
11								
	-10				-10			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562412.757
Drilling Method	: Vibracore	Easting	: 1454998.285
Sampling Method	: Extraction	Elapsed Time	: 24 min.

Depth in Feet	Surf. Elev. 1.54	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.54	Samples	Sample No.	PID (ppm)
0	1	SC		CLAYEY SAND, dense, moist to wet, medium brown, medium plasticity, fine, micaceous, some silt, considerable roots and organic material.	1			
1	0	SM		SILTY SAND, loose, wet, mottled olive gray and oxidation, fine to medium, micaceous. Color transition to very dark gray at 1.8 feet.	0			
2	-1				-1			
3	-2				-2			
4	-3				-3		Dredge	NT
5	-4				-4			
6	-5				-5			
7	-6				-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9				-9			
11	-10			Unrecovered interval.	-10			
12	-11				-11			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562617.318
Drilling Method	: Vibracore	Easting	: 1454995.7
Sampling Method	: Extraction	Elapsed Time	: 25 min.

Depth in Feet	Surf. Elev. 2.006	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.006	Samples	Sample No.	PID (ppm)
0	2	SM		SILTY SAND, loose, moist to wet, dark brown changing to dark olive gray at 0.25 feet, fine, micaceous, lenses of oxidized root channels, considerable roots and organic material to 0.25 feet, trace rootlets to 2.7 feet.	2			
1	1				1			
2	0			Color transition to very dark gray at 2.7 feet.	0			
3	-1				-1			
4	-2				-2		Dredge	NT
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6				-6			
9	-7				-7		Suite C	NT
10	-8			Considerable shell fragments from 10.1 to 10.26 feet, slight decrease in silt content with depth.	-8			
11	-9				-9			
12	-10			Unrecovered interval.	-10			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561987.72
Drilling Method	: Vibracore	Easting	: 1455619.307
Sampling Method	: Extraction	Elapsed Time	: 17 min.

Depth in Feet	Surf. Elev. -0.549	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.549	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, mottled olive gray and oxidation, fine to medium, some lenses of oxidized material to 1.5 feet.				
	-1			Color transition to very dark gray at 0.7 feet.	-1			
1								
	-2			Considerable shell fragments lens from 1.9 to 2.1 feet.	-2			
2								
	-3				-3			
3							Dredge	NT
	-4				-4			
4								
	-5			Considerable shell fragment lens from 4.5 to 5.0 feet, sand grading up to coarse from 4.5 to 5.0 feet.	-5			
5								
	-6				-6			
6				Considerable shell fragment lens from 5.9 to 7.0 feet, sand grading down to fine to medium.				
	-7				-7			
7							Suite C	NT
	-8			Considerable shell fragment lens from 7.4 to 7.8 feet.	-8			
8								
	-9				-9			
				Unrecovered interval.				
9								
	-10				-10			
10								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 561568.682
Drilling Method	: Vibracore	Easting	: 1456033.565
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. 0.243	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.243	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, mottled olive gray and oxidation, fine to medium, micaceous, trace roots to 1.7 feet.	0			
1	-1				-1			
				Color transition to very dark gray at 1.7 feet.				
2	-2				-2			
3	-3				-3		Dredge	NT
4	-4				-4			
5	-5			Considerable shell fragments from 5.4 to 6.9 feet.	-5			
6	-6				-6			
7	-7				-7			
8	-8				-8		Suite C	NT
9	-9			Unrecovered interval.	-9			
10								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/10/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 561570.822
Drilling Method	: Vibracore	Easting	: 1455818.857
Sampling Method	: Extraction	Elapsed Time	: 17 min.

Depth in Feet	Surf. Elev. -1.412	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.412	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, loose, wet, dark brown, considerable fine micaceous sand, rootlets and organic material.				
	-2	SM		SILTY SAND, loose, wet, very dark gray, fine to medium, micaceous. Considerable shell fragments from 1.0 to 1.2 feet, slight decrease in silt content with depth.	-2			
1								
	-3				-3			
2								
	-4				-4		Dredge	NT
3								
	-5				-5			
4								
	-6				-6			
5								
	-7				-7			
6							Suite C	NT
	-8				-8			
7								
	-9			Unrecovered interval.	-9			
8								
	-10				-10			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-17-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/10/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 561773.594
Drilling Method	: Vibracore	Easting	: 1456232.774
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. -1.706	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.706	Samples	Sample No.	PID (ppm)
0	-2	ML		SANDY SILT, loose, wet, black, very fine micaceous sand, considerable root and organic material, strong hydrogen sulfide odor.	-2			
1	-3	SM		SILTY SAND, loose, wet, very dark gray, fine to medium, micaceous, considerable shell fragments to 1.4 feet.	-3			
2	-4				-4		Dredge	NT
3	-5				-5			
4	-6				-6			
5	-7				-7			
6	-8			Considerable shell fragments from 6.2 to 6.4 feet, slight decrease in silt content with depth.	-8		Suite C	NT
7	-9				-9			
8	-10			Unrecovered interval.	-10			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 561355.338
Drilling Method	: Vibracore	Easting	: 1456877.199
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. -2.04	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.04	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, loose, wet, black changing to dark brown at 2 inches, low plasticity, considerable very fine micaceous sand and organic material, strong hydrogen sulfide odor.				
1	-3	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous, slight decrease in silt content with depth.	-3			
2	-4				-4			
				Considerable shell fragments from 2.2 to 2.4 feet.			Dredge	NT
				Considerable shell fragments from 2.8 to 3.0 feet.				
3	-5				-5			
4	-6				-6			
5	-7				-7			
							Suite C	NT
6	-8				-8			
7	-9				-9			
				Unrecovered interval.				
8	-10				-10			
9	-11				-11			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 561373.753
Drilling Method	: Vibracore	Easting	: 1456659.707
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. -0.968	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.968	Samples	Sample No.	PID (ppm)
0	-1	SM		SILTY SAND, loose, wet, black changing to dark olive gray at 1 in., fine, micaceous, considerable organic material to 1 in.	-1			
				Lenses of oxidation from 0.7 to 1.3 feet, color transition to very dark gray at 1.1 feet.				
1	-2				-2			
2	-3				-3			
				Considerable shell fragments from 2.5 to 2.6 feet.				
3	-4				-4		Dredge	NT
4	-5			Considerable shell fragments from 4.2 to 4.3 feet.	-5			
5	-6				-6			
6	-7				-7			
7	-8				-8		Suite C	NT
8	-9				-9			
				Unrecovered interval.				
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 561145.814
Drilling Method	: Vibracore	Easting	: 1457027.526
Sampling Method	: Extraction	Elapsed Time	: 23 min.

Depth in Feet	Surf. Elev. 3.772	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.772	Samples	Sample No.	PID (ppm)
0–1	3	SW		SAND, loose to dense, dry, dark brown changing to light tan at 2 inches, medium, micaceous,considerable organic material to 2 inches, trace rootlets.	3			
1–2	2				2			
2–3	1	ML		SANDY SILT, very stiff, moist, dark brown, low plasticity, very fine micaceous sand, trace rootlets.	1			
3–4	0	SM		SILTY SAND, loose, wet, olive gray, fine, micaceous. Some lenses of oxidation from 4 to 5.1 feet. Color transition to very dark gray at 4.7 feet.	0		Dredge	NT
4–5	-1				-1			
5–6	-2				-2			
6–7	-3				-3			
7–8	-4				-4			
8–9	-5				-5			
9–10	-6				-6			
10–11	-7	SW		SAND, loose, wet, dark gray, fine, micaceous, trace silt.	-7		Suite C	NT
11–12	-8				-8			
12–13	-9	SM		SILTY SAND, loose, wet, dark gray, low plasticity, very fine, micaceous.	-9			
13–14	-10			Unrecovered interval.	-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/04/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560950.697
Drilling Method	: Vibracore	Easting	: 1457290.723
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. 0.955	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.955	Samples	Sample No.	PID (ppm)
0				SILTY SAND, loose, wet, tan, low plasticity, fine, micaceous, some lenses of oxidation to 1.3 feet.				
1	0				0			
				Some shell fragments from 1.7 to 1.8 feet.				
2	-1				-1			
				Color transition to dark gray at 2.6 feet, slight decrease in silt content with depth.				
3	-2				-2			
4	-3				-3		Dredge	NT
5	-4	SM			-4			
6	-5				-5			
7	-6			Considerable shell fragments from 7.0 to 7.6 feet.	-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9				-9			
				Unrecovered interval.				
11	-10				-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560564.7262
Drilling Method	: Vibracore	Easting	: 1457550.743
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 2.093	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.093	Samples	Sample No.	PID (ppm)
0	2	SM		SILTY SAND, loose, wet, mottled tan and oxidation, very fine to fine, some silt, trace rootlets.	2			
1	1				1			
2	0				0			
				Color transition to dark gray at 2.7 feet.				
3	-1				-1			
				Considerable shell fragments from 3.8 to 4.0 feet.			Dredge	NT
4	-2				-2			
5	-3			Considerable shell fragments from 5 to 5.4 feet.	-3			
				Considerable shell fragments from 5.8 to 6.5 feet.				
6	-4				-4			
7	-5				-5			
8	-6				-6		Suite C	NT
				Considerable shell fragments from 8.5 to 9.2 feet, slight decrease in silt content with depth.				
9	-7				-7			
10	-8			Unrecovered interval.	-8			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	: 560106.44
Drilling Method	: Vibracore	Easting	: 1457857.933
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. 0.238	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.238	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, dense, dry to moist, dark brown, very fine, micaceous, considerable rootlets and organic material.	0			
		SW		SAND, loose, wet, mottled tan and oxidized root channels, fine, micaceous, some silt. Color transition to dark gray at 1.3 feet, some lenses of oxidation from 1.3 to 2 feet.	-1, -2, -3			
3	-3	ML		SANDY SILT, loose, wet, dark gray, low plasticity, very fine micaceous sand.			Dredge	NT
		SW		SAND, loose, wet, dark gray, fine, micaceous, some silt.	-4, -5, -6, -7, -8, -9		Suite C	NT
10	-10			Unrecovered interval.	-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 1457301
Drilling Method	: Vibracore	Easting	: 561159
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. -0.7	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.7	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SANDY SILT, loose, wet, black changing to dark brown at 1 in., fine micaceous sand, considerable organic material.	-1			
1		SM		SILTY SAND, loose, wet, very dark gray, low plasticity, fine, micaceous, slight decrease in silt content with depth.				
	-2				-2			
2								
	-3			Considerable shell fragments from 2.5 to 2.7 feet.	-3			
							Dredge	NT
3								
	-4				-4			
4								
	-5			Considerable shell fragments from 4.8 to 6.0 feet.	-5			
5								
	-6				-6			
6								
	-7				-7		Suite C	NT
7								
	-8				-8			
				Unrecovered interval.				
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-18-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/03/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 560751.372
Drilling Method	: Vibracore	Easting	: 1457724.261
Sampling Method	: Extraction	Elapsed Time	: 28 min.

Depth in Feet	Surf. Elev. -1.947	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.947	Samples	Sample No.	PID (ppm)
0	-2	PT		ORGANIC SILT, soft, wet, black changing to dark brown at 2 in., low plasticity, considerable very fine micaceous sand and organic material, strong hydrogen sulfide odor.	-2			
1	-3				-3			
2	-4	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-4		Dredge	NT
3	-5			Considerable shell fragments from 2.8 to 3.1 feet, slight decrease in silt content with depth.	-5			
4	-6				-6			
5	-7				-7			
6	-8				-8		Suite C	NT
7	-9				-9			
8	-10			Unrecovered interval.	-10			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-19-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559953.062
Drilling Method	: Vibracore	Easting	: 1458123.310
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -1.125	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.125	Samples	Sample No.	PID (ppm)
0		ML		SILT, soft, moist, olive brown, low plasticity, trace sand, surficial fibrous matting and crystallized salt (sodium chloride), organic material near surface.		X	Suite C	NT
1	-2			Lens of hydrocarbon materials with slight hydrocarbon odor.	-2			
		SM		SILTY SAND, moderately dense, moist, medium gray, fine, well sorted, micaceous, considerable shell fragments. Moisture content increasing to wet.		X	Suite A	NT
2	-3				-3			
3	-4				-4			
4	-5				-5	X	Suite A	NT
5	-6				-6			
				Unrecovered interval.				
6	-7				-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-19-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559866.605
Drilling Method	: Vibracore	Easting	: 1458950.081
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. 0.311	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.311	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, moist to wet, dark brown, fine, micaceous, lenses of oxidation to 2.5 feet.	0	X	Suite C	NT
1	-1				-1			
				Shell fragments from 1.75 to 2.6 feet.		X	Suite A	NT
2	-2			Color transition to dark gray and slight hydrogen sulfide odor at 2.5 feet.	-2			
3	-3				-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-19-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559934.453
Drilling Method	: Vibracore	Easting	: 1458616.157
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -0.359	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.359	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, moderately dense, black changing to brown with oxidized mottling at 1.0 in., medium, well sorted, micaceous, surficial fibrous matting and crystallized salt (sodium chloride).		X	Suite C	NT
	-1				-1			
1								
	-2				-2	X	Suite A	NT
2				Color transition to gray at 2.0 feet.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4				Considerable shell fragments from 3.8 to 4.0 feet.				
	-5				-5			
5								
	-6			Unrecovered interval.	-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-20-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559693.580
Drilling Method	: Vibracore	Easting	: 1458675.913
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. -0.143	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.143	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, black changing to tan at 2 inches, non-plastic, anoxic.		X	Suite C	NT
1	-1	SM		SILTY SAND, very loose, wet, red, fine, micaceous, trace shell fragments, slight hydrogen sulfide odor.	-1			
2	-2				-2	X	Suite A	NT
		ML		SANDY SILT, soft to moderately stiff, moist and, gray, medium plasticity, fine micaceous sand.				
3	-3	SM		SILTY SAND, loose, moist to wet, gray, fine, micaceous.	-3			
4	-4	ML		SANDY SILT, soft to moderately stiff, moist and, gray, medium plasticity, fine micaceous sand.	-4	X	Suite A	NT
5	-5				-5			
6	-6	SM		SILTY SAND, loose, moist to wet, gray, fine, micaceous. Increasing silt content and considerable shell fragments below 6 ft., strong hydrogen sulfide odor near bottom of core.	-6			
7	-7			Unrecovered interval.	-7			
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-20-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559468.698
Drilling Method	: Vibracore	Easting	: 1459048.994
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.824	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.824	Samples	Sample No.	PID (ppm)
0		ML		SILT, medium stiff, moist, tan with oxidation and yellow mottling, medium plasticity, trace fine micaceous sand. Consistency changing to soft at 0.3 feet.		X	Suite C	NT
1	0				0			
2	-1	SM		SILTY SAND, loose to moderately dense, moist to wet, gray with oxidation streaking, fine, micaceous, roots to 3.3 feet.	-1	X	Suite A	NT
3	-2				-2			
4	-3				-3	X	Suite A	NT
5	-4				-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-21-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558957.376
Drilling Method	: Vibracore	Easting	: 1459750.77
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.426	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.426	Samples	Sample No.	PID (ppm)
0	0	ML		SILT, stiff, dry, dark brown, low plasticity, blocky yellow material.	0	X	Suite C	NT
				Consistency changing to soft, moisture content changing to moist, color transition to tan.				
1	-1				-1	X	Suite A	NT
				Color transition to dark gray, fine sand below 1:8 feet.				
2				Hydrogen sulfide odor at approximately 2.0 ft.				
	-2	SM		SILTY SAND, moderately dense, wet, gray, fine, well sorted, micaceous, some organic material, strong hydrogen sulfide odor.	-2			
3	-3				-3	X	Suite A	NT
4	-4			Unrecovered interval.	-4			
5	-5				-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-22-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/18/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559064.5539
Drilling Method	: Vibracore	Easting	: 1460142.528
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.155	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.155	Samples	Sample No.	PID (ppm)
0		CL		CLAY, soft, moist, olive gray, medium plasticity, trace fine sand.		X	Suite C	NT
1	-1				-1			
				tan mottling with some plant material from 1.5 to 2.0 feet.		X	Suite A	NT
2	-2	SW		SAND, moderately dense, moist, gray, medium.	-2			
		ML		SANDY SILT, soft, moist, dark gray, low plasticity, strong hydrocarbon odor.				
3	-3				-3			
4	-4	SM		SILTY SAND, moderately dense, moist, dark gray, medium, well sorted, micaceous, hydrocarbon and hydrogen sulfide odor.	-4	X	Suite A	NT
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-22-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/19/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558768.8995
Drilling Method	: Vibracore	Easting	: 1460148.006
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -0.52	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.52	Samples	Sample No.	PID (ppm)
0		SC		SANDY CLAY, soft, moist, dark olive gray, medium plasticity, fine sand, trace roots.		X	Suite C	NT
	-1	ML		SANDY SILT, soft, wet, dark olive gray, low plasticity, fine micaceous sand.	-1			
1	-2	SM		SILTY SAND, loose, wet, dark gray, fine, well sorted, micaceous.	-2	X	Suite A	NT
2	-3				-3			
3	-4			Consistency increasing to moderately dense.	-4	X	Suite A	NT
4	-5				-5			
5	-6			Unrecovered interval.	-6			
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-25-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559267.1329
Drilling Method	: Vibracore	Easting	: 1460156.227
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.685	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.685	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SANDY SILT, soft, wet, dark olive gray, low plasticity, fine micaceous sand.	-1	X	Suite C	NT
1	-2	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, strong hydrogen sulfide odor, slight decrease in silt content with depth. Considerable shell fragments from 0.75 to 1.25 feet.	-2	X	Suite A	NT
2	-3				-3			
3	-4				-4	X	Suite A	NT
4	-5				-5			
5	-6			Unrecovered interval.	-6			
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-26-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559461.498
Drilling Method	: Vibracore	Easting	: 1459948.006
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. 1.725	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.725	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, moist, brown, medium plasticity.		X	Suite C	NT
				Color transition to tan at 0.5 feet.				
	1				1			
1								
	0			Consistency changing to soft, color transition to light gray at 1.6 feet, no sand from 1.6 to 2.5 ft.	0	X	Suite A	NT
2								
				Some fine sand from 2.5 to 3.6 feet.				
	-1				-1			
3								
	-2	SW		SAND, moderately dense, wet, gray, medium, micaceous.	-2	X	Suite A	NT
4								
				Unrecovered interval.				
	-3				-3			
5								
	-4				-4			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-27-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	:	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559461.498
Drilling Method	: Vibracore	Easting	: 1459649.378
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 3.520	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.520	Samples	Sample No.	PID (ppm)
0		ML		SILT, soft, moist, brown with oxidized mottling to 0.5 feet, medium plasticity, some fine sand.		X	Suite C	NT
	3			Color transition to tan at 0.5 feet.	3			
1								
	2				2	X	Suite A	NT
		SM		SILTY SAND, moist, gray, fine, lens of oxidized material at 1.85 feet.				
2		ML		SILT, soft, moist, light gray, medium plasticity.				
	1				1			
3		SM		SILTY SAND, moderately dense, light gray with slight oxidation mottling, fine, micaceous. Color transition to gray with depth.				
	0				0	X	Suite A	NT
4								
	-1			Unrecovered interval.	-1			
5								
	-2				-2			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-28-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0.0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.0	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, medium stiff, moist, dark brown, fine micaceous sand, considerable organic material.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, wet, dark olive, fine, micaceous, lenses of oxidation to 3.25 feet.	-1	X	Suite A	NT
2	-2				-2			
3	-3			Color transition to dark gray at 3.25 feet.	-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-28-01.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-29-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560266.884
Drilling Method	: Vibracore	Easting	: 1458452.561
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.934	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.934	Samples	Sample No.	PID (ppm)
0		PT		SANDY PEAT, medium stiff, dry, dark brown, considerable silt.		X	Suite C	NT
1	0	SM		SILTY SAND, moderately dense, moist, tan with streaks of oxidation, fine, micaceous, well sorted.	0	X	Suite A	NT
2	-1				-1			
3	-2				-2	X	Suite A	NT
4	-3			Moisture content increasing to wet, color transition to gray at 4.0 ft., some shell fragments from 4.0 ft. to total depth.	-3			
5	-4			Unrecovered interval.	-4			
6	-5				-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-30-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/31/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 560699.78
Drilling Method	: Vibracore	Easting	: 1460346.53
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. -0.435	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.435	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, mottled tan and oxidation, very fine to fine, micaceous.		X	Suite C	NT
	-1				-1			
1								
	-2				-2	X	Suite A	NT
2		ML		SILT, very soft, wet, gray, trace very fine micaceous sand.				
	-3	SM		SILTY SAND, loose, wet, mottled very dark gray and oxidation, low plasticity, very fine to fine, micaceous. Color transitionl to very dark gray at 2.8 feet, some lenses of oxidized rootlet channels to 3.4 feet.	-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5								
	-6				-6			
6								
	-7			Unrecovered interval.	-7			
7								
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-30-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/31/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, dark brown changing to mottled tan and orange at 0.7 feet, low plasticity, very fine to fine, micaceous, considerable organic material to 0.7 feet.	0	X	Suite C	NT
1	-1			Stratified lenses of silt with trace very fine sand from 1.1 to 3.2 feet.	-1			
2	-2				-2	X	Suite A	NT
3	-3			Some of oxidized rootlet channels and color transition to very dark gray at 3.2 feet.	-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-30-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/31/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 560449.24
Drilling Method	: Vibracore	Easting	: 1460266.42
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. -0.47	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.47	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, dark brown changing to dark tan at 0.35 feet, very fine to fine, micaceous, considerable organic material to 0.35 feet, somef lenses of oxidized rootlet channels to 2.2 feet.		X	Suite C	NT
	-1				-1			
1								
	-2				-2	X	Suite A	NT
2		ML		SILT, very soft, wet, dark gray, medium plasticity, trace very fine micaceous sand.				
	-3	SM		SILTY SAND, loose, wet, very dark gray, very fine to fine, slight decrease in silt content with depth.	-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5								
	-6				-6			
6								
	-7				-7			
7				Unrecovered interval.				
	-8				-8			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-30-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/31/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist, dark brown, very fine to fine micaceous sands, some lenses of oxidation and organic material to 3 feet.		X	Suite C	NT
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
3	-3			Consistency changing to very soft, moisture changing to wet, color transition to very dark gray, trace very fine sand.	-3			
		SM		SILTY SAND, loose, wet, very dark gray, very fine to fine, micaceous, some oxidized rootlet channels to 3.8 feet.		X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-30-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/31/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, dark tan, fine, micaceous, some lenses of oxidation.		X	Suite C	NT
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
		ML		SANDY SILT, soft, wet, very dark gray, medium plasticity, very fine micaceous sand, some shell fragments to 2.6, strong hydrogen sulfide odor.				
3	-3				-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-31-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 560266.099
Drilling Method	: Vibracore	Easting	: 1458950.081
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.326	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.326	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, moist to wet, medium brown changing to dark gray at 1.25 feet, fine, micaceous, lenses of oxidation to 1.25 feet, some organic material to 0.1 feet.		X	Suite C	NT
	-1				-1			
1								
	-2				-2	X	Suite A	NT
2				Some shell fragments from 2.0 to 3.0 feet.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5								
	-6			Unrecovered interval.	-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-32-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560963.805
Drilling Method	: Vibracore	Easting	: 1459652.033
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 2.586	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.586	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, soft, moist, brown, low plasticity, considerable detritus, trace fine micaceous sand.		X	Suite C	NT
	2	CL		SILTY CLAY, soft, moist and wet, gray with some oxidized mottling to 1.5 feet, some fine sand and organic material.	2			
1								
	1				1	X	Suite A	NT
2								
	0				0			
3								
	-1				-1	X	Suite A	NT
4				Sand content increasing with depth below 4 feet.				
	-2				-2			
5								
	-3				-3			
				Unrecovered interval.				
6								
	-4				-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-32-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560663.058
Drilling Method	: Vibracore	Easting	: 1459544.64
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. -1.606	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.606	Samples	Sample No.	PID (ppm)
0		PT		PEAT, wet, mottled red and black, fibrous mat on surface, considerable organic material.				
	-2	PT		ORGANIC SILT, soft, wet, brown, medium plasticity, considerable organic material, some fine sand and algae fibers.	-2	X	Suite C	NT
		ML		SANDY SILT, soft, moist, light gray, medium plasticity, fine micaceous sand.				
1	-3				-3	X	Suite A	NT
2	-4	SM		SILTY SAND, moderately dense, moist to wet, dark gray, fine, micaceous, well sorted, increasing sand content with depth.	-4			
3				Lens of shell fragments at approximately 3.0 feet.				
	-5				-5	X	Suite A	NT
4	-6				-6			
5				Lens of shell fragments at approximately 4.7 feet.				
	-7				-7			
6	-8			Unrecovered interval.	-8			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-32-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist, tan, fine sand, lens of sodium chloride (salt) with algal fibers on surface.		X	Suite C	NT
		SM		SILTY SAND, moderately dense, wet, tan with yellow and oxidized mottling, fine, micaceous, well sorted, some organic (plant) material.				
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
3	-3			Color transition to dark gray below 3 feet, increasing organic material content with depth.	-3			
						X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7	-7				-7			

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LOG OF CORING RD-32-04

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559863.417
Drilling Method	: Vibracore	Easting	: 1459652.393
Sampling Method	: Extraction	Elapsed Time	: 5 min.

-1.378 -1.378

Depth	Description	Sample	Suite	Analysis
0	PT — ORGANIC SILT, moist, brown, considerable organic material.			
	SM — SILTY SAND, moderately dense, wet, light gray, fine micaceous well sorted sand, roots to 2.3 feet.		Suite C	NT
-2				
1				
-3	Some red mottling at approximately 1.5 feet.		Suite A	NT
2				
-4	Color transition to gray at 2.3 feet, some shell fragments.			
3				
-5			Suite A	NT
4				
-6				
5				
-7				
6	Unrecovered interval.			
-8				
7				

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-33-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, dry, medium brown, fine sands and sub rounded gravel.	0	X	Suite C	NT
1	-1	MH		CLAYEY SILT, stiff, moist, medium gray.	-1	X	Suite A	NT
2	-2			Silt consistency decreases to soft from 2.0 to 3.0 feet.	-2			
3	-3	SW		SAND, moderately density, wet, mottled gray and brown, fine, micaceous.	-3	X	Suite A	NT
4	-4				-4			
				Unrecovered interval.				
5	-5				-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-33-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.0	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, moist, dark brown, fine micaceous sand, some organic material.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist to wet, dark olive, fine, micaceous, lenses of oxidation.	-1	X	Suite A	NT
2	-2			Color transition to dark gray at 2 feet.	-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-33-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 560357.389
Drilling Method	: Vibracore	Easting	: 1460249.042
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.813	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.813	Samples	Sample No.	PID (ppm)
0	-1	ML		SANDY SILT, soft, moist, dark brown, fine micaceous sand, considerable organic material.	-1	X	Suite C	NT
1	-2	SM		SILTY SAND, loose, wet, dark olive, fine, micaceous, lenses of oxidation to 3.25 feet, slight decrease in silt content with depth.	-2	X	Suite A	NT
2	-3				-3			
3	-4			Wood debris from 3.0 to3. 4 feet. Color transition to dark gray at 3.25 feet.	-4	X	Suite A	NT
4	-5				-5			
5	-6				-6			
				Unrecovered interval.				
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-33-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559770.8416
Drilling Method	: Vibracore	Easting	: 1460249.375
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.555	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.555	Samples	Sample No.	PID (ppm)
0								
	-2	ML		SANDY SILT, soft, moist, mottled dark brown and olive, fine micaceous sand, lenses of oxidation, then lens of black material just below surface.	-2	X	Suite C	NT
1	-3				-3	X	Suite A	NT
2	-4	SM		SILTY SAND, loose, wet, dark gray, fine micaceous sand, slight hydrogen sulfide odor, slight decrease in silt content with depth.	-4			
3	-5			Some shell fragments from 3.5 to 5.33 feet.	-5	X	Suite A	NT
4	-6				-6			
5	-7			Unrecovered interval.	-7			
6	-8				-8			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-33-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/21/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 559464.2357
Drilling Method	: Vibracore	Easting	: 1460254.855
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. -1.118	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.118	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist, mottled dark brown and olive, fine micaceous sand, thin lens of black substance just below surface, some lenses of oxidation.		X	Suite C	NT
1	-2				-2			
2	-3	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, slight hydrogen sulfide odor, slight decrease in silt content with depth.	-3	X	Suite A	NT
3	-4			Some shell fragments from 3.0 to 5.2 feet.	-4			
4	-5				-5	X	Suite A	NT
5	-6				-6			
				Unrecovered interval.				
6	-7				-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-3R-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 556316.131
Drilling Method	: Vibracore	Easting	: 1457709.826
Sampling Method	: Extraction	Elapsed Time	: NA

Depth in Feet	Surf. Elev. 8.703	USCS Code	Hatching	Lithologic Description	Surf. Elev. 8.703	Samples	Sample No.	PID (ppm)
0		ML		SILT, loose, wet, black, trace fine micaceous sand, considerable organic material.		X	Suite C	1.3
	8			Sand content increasing to a SANDY SILT, moist to wet, dark olive gray, fine micaceous sand, some shell fragments, hydrocarbon odor.	8			
1								
	7				7			
2		SM		SILTY SAND, wet, dark olive, fine, micaceous, trace shell fragments.				
	6				6	X	Suite A	0.1
3								
	5				5			
4								
	4				4			
5								
	3				3	X	Suite B	0.3
6								
	2			Unrecovered interval.	2			
7								
	1				1			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-3R-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 559787.793
Drilling Method	: Vibracore	Easting	: 1456643.918
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. -2.398	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.398	Samples	Sample No.	PID (ppm)
0		GM		GRAVELLY SILT, very soft, wet, black, low plasticity, considerable organic and free oil, hydrogen sulfide and hydrocarbon odor, some fine micaceous sand to 0.25 feet, grading up to coarse with some very coarse sand, algae and plant debris.		X	Suite C	0.1
	-3				-3			
1		SP		SAND, moderately dense, moist, gray, medium to course, subangular, micaceous, trace silt.				
	-4				-4			
2		SC		SILTY CLAY, stiff, moist, brownish red, high plasticity, some sand and gravel.				
	-5				-5			
3						X	Suite A	0.0
	-6	SW		SAND, moderately dense, moist to wet, gray, fine, micaceous, trace silt.	-6			
4								
	-7				-7			
5								
	-8				-8	X	Suite B	0.0
6								
	-9				-9			
7								
	-10				-10			
8				Unrecovered interval.				
	-11				-11			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-3R-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 558575.390
Drilling Method	: Vibracore	Easting	: 1457736.670
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -2.432	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.432	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, black, trace fine sand, hydrocarbon odor.				
		FL		FILL, (asphalt) very dense, dry, black, very strong hydrocarbon odor.		X	Suite C	NT
	-3				-3			
1				GRAVELLY CLAY, (possibly FILL) stiff, moist, reddish brown, plastic, the thin lenses of black material with strong hydrocarbon odor.				
	-4	GC			-4			
2								
	-5			SAND, loose to moderately dense, dry to moist, gray, fine, micaceous, hydrocarbon odor near transition.	-5	X	Suite A	NT
3								
	-6				-6			
4								
	-7	SW			-7			
5								
	-8				-8	X	Suite B	NT
6								
	-9				-9			
7				Unrecovered interval.				
	-10				-10			
8								
	-11				-11			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A1-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/9	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 559049.486
Drilling Method	: Vibracore	Easting	: 1461109.683
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -1.047	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.047	Samples	Sample No.	PID (ppm)
0				SILT, soft, wet, light gray, medium plasticity, trace fine micaceous sand, some plant material.		X	Suite C	NT
1	-2	ML			-2			
2	-3			SILTY SAND, moderately dense, moist, gray, fine, micaceous.	-3			
3	-4				-4	X	Suite A	NT
4	-5	SM		Two thin lenses of silt at approximately 4.0 feet.	-5			
5	-6				-6			
6	-7				-7	X	Suite B	NT
				Unrecovered interval.				
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A2-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 559278.942
Drilling Method	: Vibracore	Easting	: 1460460.124
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. -0.652	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.652	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, light brown, fine to medium, poorly sorted, subangular.		X	Suite C	NT
	-1				-1			
		ML		SANDY SILT, soft, moist, gray with black streaking, medium plasticity, fine micaceous sand, slight hydrocarbon odor.				
1								
	-2				-2			
2								
	-3				-3	X	Suite A	NT
3		SM		SILTY SAND, moderately dense, moist, dark gray with some black streaking to 3.25 feet, fine micaceous sand, silt content decreases with depth.				
	-4				-4			
4								
	-5				-5			
5								
	-6				-6	X	Suite B	NT
6				Unrecovered interval.				
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A6-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, wet, medium plasticity, fine sand, considerable plant material.		X	Suite C	NT
		FL		FILL (asphalt), hard, dry, black, considerable free oil and strong hydrocarbon odor.				
		ML		SANDY SILT, loose, wet, medium plasticity, fine sand.				
1	-1	SM		SILTY SAND, moderately dense, moist, dark gray, fine to medium with gravel to 1.2 feet, subangular, some shell fragments, very strong hydrocarbon odor.	-1			
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5	CL		CLAY, stiff, moist, gray, medium plasticity, trace fine micaceous sand, strong hydrocarbon odor.	-5			
6	-6				-6	X	Suite B	NT
				Unrecovered interval.				
7	-7				-7			
8	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING SBA-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/14/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 559345.054
Drilling Method	: Vibracore	Easting	: 1459685.555
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. -1.757	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.757	Samples	Sample No.	PID (ppm)
0								
	-2	SC		SANDY CLAY, stiff, moist, black, high plasticity, fine sand and gravel, considerable free oil and strong hydrocarbon odor.	-2	X	Suite C	NT
1								
	-3	SM		SILTY SAND, moderately dense, moist, gray, fine, micaceous.	-3	X	Suite A	NT
2								
	-4				-4			
3								
	-5				-5	X	Suite B	NT
4								
	-6				-6			
				Unrecovered interval.				
5								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING SBA-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 559201.209
Drilling Method	: Vibracore	Easting	: 1459664.055
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 3.975	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.975	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, very loose, wet to moist, black changing to gray at 2 in., fine to medium, micaceous, free oil and strong hydrocarbon odor to 2 in.		X	Suite C	NT
1	3				3			
						X	Suite A	NT
2	2				2			
3	1			Some shell fragments from 3.0 feet to total depth.	1			
						X	Suite B	NT
4	0				0			
5	-1				-1			
				Unrecovered interval.				
6	-2				-2			
7	-3				-3			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-I-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560058.457
Drilling Method	: Vibracore	Easting	: 1459313.334
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.647	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.647	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, brown, fine micaceous sand, detritus, slight hydrogen sulfide odor.		X	Suite C	NT
	-1	SM		SILTY SAND, loose, wet, olive brown mottled with oxidation, fine, micaceous, some roots to 1.5 feet.	-1			
1								
	-2				-2			
2								
	-3				-3	X	Suite A	NT
3				Consistency increasing to moderately dense, color transition to gray at 3.0 ft.				
	-4				-4			
		SW		SAND, moderately dense, moist, gray, fine, micaceous, trace silt.				
4				Small shell fragments from 4.0 to 4.5 feet.				
	-5				-5			
5								
	-6				-6	X	Suite B	NT
6				Unrecovered interval.				
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-K-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: K. Kronschnabl	Northing	: 559779.442
Drilling Method	: Vibracore	Easting	: 1459104.461
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. -1.544	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.544	Samples	Sample No.	PID (ppm)
0		SP		SAND, loose, wet, brown, medium to coarse, considerable free oil to 0.5 feet, considerable hydrocarbon odor. Consistency increasing to moderately dense, color transition to orangeish tan at 0.5 feet.		X	Suite C	NT
1	-2	PT		PEAT, wet, some silt and sand, considerable free oil.	-2			
2	-3	ML		SANDY SILT, soft, moist to wet, black changing to dark gray at 1.6 feet, medium plasticity, fine micaceous sand, considerable free oil to 1.6 feet, some peat.	-3	X	Suite A	NT
3	-4	SW		SAND, moderately dense, moist, fine, subangular, micaceous, some silt decreasing with depth. Considerable shell fragments from 5 feet to total depth.	-4	X	Suite B	NT
4	-5				-5			
5	-6				-6			
6	-7				-7			
7	-8			Unrecovered interval.	-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING SQ-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/12/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Truck
Logged By	: K. Atkinson	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	FL		FILL, tar, very hard, slightly moist, brownish gray, low plasticity, very strong hydrocarbon odor, considerable rootlets.	0			
		ML		SANDY SILT, soft, moist, gray, low plasticity, medium sand, very strong hydrocarbon odor, considerable rootlets to 2 feet, trace shell fragments from 1 foot to total depth.		X	Suite C	1.4
1	-1				-1			
2	-2				-2	X	Suite A	0.0
3	-3				-3			
4	-4			Sand grading up to coarse.	-4			
5	-5				-5			
6	-6				-6	X	Suite A	0.0
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING SW-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/15/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Not Applicable
Logged By	: K. Atkinson	Northing	: 557043.925
Drilling Method	: Vibracore	Easting	: 1460228.173
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 0.310	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.310	Samples	Sample No.	PID (ppm)
0		SP		SAND, loose, wet, multicolored, coarse with some silt.			Suite C	NT
	0				0			
1								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-35-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/29/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560335.621
Drilling Method	: Vibracore	Easting	: 1461154.87
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 1.546	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.546	Samples	Sample No.	PID (ppm)
0		FL		FILL, very dense, dry, tan, sand, gravel.		X	Suite C	NT
	1				1			
1								
	0			Considerable free oil, tar, waste material, wood fragments, hydrocarbon odor.	0	X	Suite A	NT
2				missing interval from 2.0 to 2.5 ft.				
	-1	SM		SILTY SAND, dense, dry to slightly moist, black and brown, medium, slight hydrocarbon odor.	-1			
3		ML		SILT, medium stiff, moist, black, low plasticity, trace free oil, some organic material, hydrocarbon odor.				
	-2				-2	X	Suite A	NT
4								
	-3				-3			
5		SM		SILTY SAND, medium dense, wet, like gray, medium, micaceous, well sorted.				
	-4				-4			
6				Unrecovered interval.				
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-35-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/29/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559765.366
Drilling Method	: Vibracore	Easting	: 1461052.115
Sampling Method	: Extraction	Elapsed Time	: 55 min.

Depth in Feet	Surf. Elev. 2.235	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.235	Samples	Sample No.	PID (ppm)
0	2	FL		FILL, very dense, brown and black, dry, silt, fine to coarse sand, gravel, asphalt, strong hydrocarbon and hydrogen sulfide odor.	2	X	Suite C	NT
1	1				1			
2	0			Considerable wood chips and free oil from 2.0 to 2.4 feet.	0	X	Suite A	NT
3	-1	ML		SILT, stiff, moist, black, high plasticity, considerable hydrocarbon hydrogen sulfide odor.	-1			
4	-2	ML		SANDY SILT, stiff, moist, tan and gray, medium plasticity, fine micaceous sand, reddish streaks, slight hydrogen sulfide odor.	-2	X	Suite A	NT
5	-3				-3			
6	-4			Unrecovered interval.	-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-35-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/29/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 559661.337
Drilling Method	: Vibracore	Easting	: 1460942.526
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.220	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.220	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, stiff, slightly moist, dark brown, non-plastic, considerable organic material, some roots.	0	X	Suite C	NT
		CL		CLAY, medium stiff, moist, gray, medium plasticity, trace sand.				
1	-1	ML		SANDY SILT, medium stiff, wet, tan with streaks of oxidation, medium plasticity, fine micaceous sand.	-1	X	Suite A	NT
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4	SM		SILTY SAND, moderately dense, wet, gray streaks of oxidation, fine, well sorted, micaceous.	-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560466.174
Drilling Method	: Vibracore	Easting	: 1461652.117
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.744	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.744	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, hard, dry, brown, trace sand, roots.	0	X	Suite C	NT
1				Missing interval from 1.0 to 1.25 ft.				
2	-1	CL		CLAY, hard, dry, tan with oxidation mottling, medium plasticity. Moisture content changing to slightly moist, some sand.	-1	X	Suite A	NT
3	-2				-2			
4	-3	ML		SANDY SILT, stiff, moist, tan with streaks of oxidation, low plasticity, fine micaceous sand.	-3	X	Suite A	NT
5	-4				-4			
6	-5			Unrecovered interval.	-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 560055.5446
Drilling Method	: Vibracore	Easting	: 1461652.116
Sampling Method	: Extraction	Elapsed Time	: 60 min.

Depth in Feet	Surf. Elev. 2.573	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.573	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, hard, dry, tan, low plasticity, some gravel near surface, some plant material and roots above 1.0 foot.		X	Suite C	NT
	2				2			
1				Missing interval from 1.0 to 1.5 ft.				
	1	ML		As above except moisture content increasing to moist.	1	X	Suite A	NT
2								
	0				0			
3		SM		SILTY SAND, moderately dense, moist changing to wet, tan with streaks of oxidation, fine, well sorted, micaceous.				
	-1				-1	X	Suite A	NT
4								
	-2				-2			
5								
	-3				-3			
6				Unrecovered interval.				
	-4				-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 557951.5289
Drilling Method	: Vibracore	Easting	: 1461345.266
Sampling Method	: Extraction	Elapsed Time	: 67 min.

Depth in Feet	Surf. Elev. 0.778	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.778	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, hard, dry, black, considerable oil, some organic material, shells, and gravel.	0	X	Suite C	NT
1				Missing interval from 1.0 to 1.5 ft.				
2	-1	SM		SILTY SAND, moderately dense, moist, tan and gray with streaks of oxidized material, fine, micaceous.	-1	X	Suite A	NT
3	-2	ML		SILT, soft, moist, medium plasticity, tan, trace fine sand.	-2			
4	-3	SM		SILTY SAND, wet, moderately dense, low plasticity, tan with streaks of gray, fine, micaceous.	-3	X	Suite A	NT
5	-4			Unrecovered interval.	-4			
6	-5				-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558966.003
Drilling Method	: Vibracore	Easting	: 1461350.746
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -1.298	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.298	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, moist, light gray, high plasticity, fine sand, considerable free oil to 0.25 feet, strong hydrocarbon odor. Consistency becoming soft at 0.25 ft.		X	Suite C	NT
	-2				-2			
1								
	-3				-3	X	Suite A	NT
2		SM		SILTY SAND, dense, moist to wet, gray, fine, well-sorted, micaceous, trace plant debris.				
	-4				-4			
3								
	-5				-5	X	Suite A	NT
4								
	-6				-6			
5								
	-7			Unrecovered interval.	-7			
6								
	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 558163.902
Drilling Method	: Vibracore	Easting	: 1461449.375
Sampling Method	: Extraction	Elapsed Time	: 35 min.

Depth in Feet	Surf. Elev. 0.185	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.185	Samples	Sample No.	PID (ppm)
0	0	FL		FILL, dense, dry, brown, silt, sand, gravel, tar, hydrocarbon odor, roots tan plant material.	0	X	Suite C	NT
1	-1			Missing interval from 1.0 to 1.4 ft.	-1			
2	-2	ML		SILT, soft, wet, brown, low plasticity, trace sand, slight hydrocarbon odor, more stiff with depth.	-2	X	Suite A	NT
3	-3	PT		PEAT, soft, wet, brown, low plasticity, trace sand, slight hydrocarbon odor, more stiff with depth.	-3	X	Suite A	NT
4	-4				-4			
5	-5	SM		SILTY SAND, moderately dense, wet, gray, fine, well sorted, micaceous.	-5			
6	-6			Unrecovered interval.	-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-36-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/24/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 557951.5289
Drilling Method	: Vibracore	Easting	: 1461345.266
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.778	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.778	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, moist, brown, medium plasticity, considerable roots and peat.	0	X	Suite C	NT
1		PT		PEAT, soft, moist, black, hydrogen sulfide odor, slight hydrocarbon odor, roots.				
		ML		SILT, stiff, moist, gray, low plasticity, trace sand to 2.2 feet.				
2	-1				-1	X	Suite A	NT
	-2				-2			
3				Lens of plant material at approximately 3.25 feet.				
	-3				-3	X	Suite A	NT
4		SC		SILTY CLAY, soft, wet, gray, low plasticity, considerable peat.				
	-4				-4			
5				Unrecovered interval.				
	-5				-5			
6								
	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-37-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 560730.465
Drilling Method	: Vibracore	Easting	: 1461142.424
Sampling Method	: Extraction	Elapsed Time	: 40 min.

Depth in Feet	Surf. Elev. 2.187	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.187	Samples	Sample No.	PID (ppm)
0	2	SP		SAND, loose, dry, dark brown, fine and some gravel, some silt, considerable rootlets to 0.25 feet.	2	X	Suite C	NT
1	1	SM		SILTY SAND, loose, moist to wet, dark olive, non-plastic, fine, micaceous, some lenses of oxidation.	1	X	Suite A	NT
2	0				0			
3	-1				-1	X	Suite A	NT
4	-2			Unrecovered interval.	-2			
5	-3				-3			
6	-4				-4			
7	-5				-5			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-38-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/11/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Atkinson	Northing	: 561657.33
Drilling Method	: Vibracore	Easting	: 1460049.072
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. -1.888	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.888	Samples	Sample No.	PID (ppm)
0	-2	ML		SILT, very soft, very moist, black, low plasticity, trace hydrogen sulfide odor.	-2	X	Suite C	0.0
1	-3	SM		SILTY SAND, moderately dense, moist, gray, medium, grading up to coarse near total depth.	-3	X	Suite A	0.0
2	-4				-4			
3	-5				-5	X	Suite A	0.0
4	-6				-6			
5	-7			Unrecovered interval.	-7			
6	-8				-8			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-39-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562160.409
Drilling Method	: Vibracore	Easting	: 1459448.841
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. -0.5	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.5	Samples	Sample No.	PID (ppm)
0		ML		SILT, stiff, slightly moist, olive gray, medium plasticity, fibrous mat on service.		X	Suite C	NT
	-1	SW		SAND, moderately dense, moist, brownish gray, medium, micaceous.	-1			
1								
	-2				-2	X	Suite A	NT
2		SM		SILTY SAND, moderately dense, very moist, brownish gray, fine, well sorted, micaceous, some lenses of oxidation.				
	-3				-3			
3								
	-4			Moisture content increasing to wet, color transition to gray at 3.7 feet.	-4	X	Suite A	NT
4								
	-5				-5			
5				Unrecovered interval.				
	-6				-6			
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-39-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561858.834
Drilling Method	: Vibracore	Easting	: 1459547.707
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 1.252	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.252	Samples	Sample No.	PID (ppm)
0	1	GP		SANDY GRAVEL, dense, try, brown, some roots, trace silt.	1	X	Suite C	NT
1	0	SP		SAND, moderately dense, slightly moist, brown, medium course, trace silt.	0	X	Suite A	NT
2	-1			Lens of oxidation from 2.25 to 2.3 feet.	-1			
3	-2	SM		SILTY SAND, moderately dense, moist, gray, fine, well sorted, micaceous.	-2	X	Suite A	NT
4	-3			Unrecovered interval.	-3			
5	-4				-4			
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-39-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561355.825
Drilling Method	: Vibracore	Easting	: 1459454.95
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.742	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.742	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, stiff, brown, dry, roots.		X	Suite C	NT
	0	ML		SANDY SILT, soft to stiff, moist, brown, medium plasticity, fine sand.	0			
1								
	-1				-1	X	Suite A	NT
2								
	-2				-2			
3								
	-3				-3	X	Suite A	NT
4		SM		SILTY SAND, moderately dense, moist, gray brown, fine, well sorted, micaceous.				
	-4				-4			
5				Unrecovered interval.				
	-5				-5			
6								
	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-39-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/22/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561161.843
Drilling Method	: Vibracore	Easting	: 1459552.973
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. -1.175	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.175	Samples	Sample No.	PID (ppm)
0		ML		SILT, loose, wet, olive, low plasticity, trace finds sand, roots and organic material to 0.15 feet.		X	Suite C	NT
1	-2				-2			
2	-3	SM		SILTY SAND, moderately dense, wet, gray, fine, well sorted, micaceous.	-3	X	Suite A	NT
3	-4				-4			
4	-5				-5	X	Suite A	NT
5	-6				-6			
6	-7			Unrecovered interval.	-7			
7	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-40-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561197.165
Drilling Method	: Vibracore	Easting	: 1457824.962
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 1.123	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.123	Samples	Sample No.	PID (ppm)
0	1	ML		SILT, stiff, moist, brown changing to olive tan at 1 in., low plasticity, organic and plant material.	1	X	Suite C	NT
1	0	SM		SILTY SAND, moderately dense, moist to wet, olive tan, and trace plant material to 1.6 feet.	0	X	Suite A	NT
2	-1			Color transition to dark gray at 2.3 feet.	-1			
3	-2				-2	X	Suite A	NT
4	-3			Some shell fragments below 4.6 feet to total depth.	-3			
5	-4				-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-40-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561062.580
Drilling Method	: Vibracore	Easting	: 1458952.530
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 0.199	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.199	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, moist, dark brown, reddish mottling at surface, plant fibers.	0	X	Suite C	NT
		ML		SANDY SILT, moderately stiff, moist to wet, tan with oxidation mottling, low to medium plasticity, fine micaceous sand.				
1	-1	SM		SILTY SAND, loose to moderately dense, moist, tan, fine, micaceous, subangular. Color transition to gray at 1.4 feet. Shell fragments from 1.6 to 2.2 feet.	-1	X	Suite A	NT
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-40-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/26/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561333.609
Drilling Method	: Vibracore	Easting	: 1458814.092
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.048	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.048	Samples	Sample No.	PID (ppm)
0	0	SC		SILTY CLAY, stiff, moist, light gray and tan, medium plasticity, trace fine micaceous sand, plant material, some organic material.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist, tanish gray, fine to medium, micaceous, subangular, oxidized mottling throughout.	-1	X	Suite A	NT
2	-2				-2			
		CL		CLAY, moderately stiff, moist, gray, medium plasticity.				
3	-3	SM		SILTY SAND, moderately dense, wet, fine, micaceous.	-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6			Trace shell fragments at 6.5 feet.	-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/05/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563257.985
Drilling Method	: Vibracore	Easting	: 1458355.94
Sampling Method	: Extraction	Elapsed Time	: 30 min.

Depth in Feet	Surf. Elev. 0.742	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.742	Samples	Sample No.	PID (ppm)
0		SC		SILTY CLAY, stiff, moist, gray, medium plasticity, trace fine sand, some roots.		X	Suite C	NT
	0	SM		SILTY SAND, moderately dense, moist, gray, fine, micaceous, well sorted, some roots, moisture content increases with depth.	0			
1				Missing interval from 1.1 to 1.5 feet.				
	-1	SM		As above.	-1	X	Suite A	NT
2								
	-2	SC		SILTY CLAY, stiff, moist, tan, plastic, streaks of oxidation.	-2			
3								
	-3	SW		SAND, moderately dense, moist, gray with oxidation mottling, medium, micaceous, trace silt.	-3	X	Suite A	NT
4								
	-4			Unrecovered interval.	-4			
5								
	-5				-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562769.059
Drilling Method	: Vibracore	Easting	: 1458553.218
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.816	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.816	Samples	Sample No.	PID (ppm)
0		SC		SILTY SAND, dense, dry, brown, fine, considerable organic material and roots.		X	Suite C	NT
	0	SM		SILTY SAND, dense, slightly moist, light gray, fine, micaceous.	0			
1				Missing interval from 1.0 to 1.4 ft.				
	-1	SM		As above, slightly more moist, oxidation streaking.	-1	X	Suite A	NT
2		SC		SILTY CLAY, stiff, moist, tan with streaks of oxidation, medium plasticity, trace fine sand.				
	-2	SW		SILTY SAND, moderately dense, moist, tan with streaks of oxidation to 5.5 feet, medium, well sorted, micaceous.	-2			
3								
	-3				-3	X	Suite A	NT
4								
	-4				-4			
5				Color transition to gray at 5.5 the period.				
	-5			Unrecovered interval.	-5			
6								
	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562762.87
Drilling Method	: Vibracore	Easting	: 1458246.116
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. 0.662	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.662	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, hard, dry, brown, non-plastic, some mica, considerable roots.	0	X	Suite C	NT
1				Missing interval from 1.0 to 1.5 feet.				
	-1	SM		SILTY SAND, dense, dry, brown, fine, well sorted, micaceous.	-1	X	Suite A	NT
2	-2	SC		SANDY CLAY, stiff, moist, tan, low plasticity, fine sand, some silt.	-2			
3	-3				-3	X	Suite A	NT
4	-4	SM		SILTY SAND, moderately dense, moist, gray, medium, well sorted, some of lenses of shell fragments.	-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-41-03.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 562363.041
Drilling Method	: Vibracore	Easting	: 1458449.351
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. 0.139	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.139	Samples	Sample No.	PID (ppm)
0	0	ML		CLAYEY SILT, very stiff, dry to moist, dark brown, low plasticity, considerable rootlets.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist, dark olive, low plasticity, fine micaceous sand, some fiberous root material.	-1	X	Suite A	NT
2	-2	ML		SANDY SILT, soft, wet, dark olive, fine micaceous sand, some lenses of oxidation and root material.	-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
				Unrecovered interval.				
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 561963.803
Drilling Method	: Vibracore	Easting	: 1458350.841
Sampling Method	: Extraction	Elapsed Time	: NA

Depth in Feet	Surf. Elev. 1.358	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.358	Samples	Sample No.	PID (ppm)
0								
	1	ML		CLAYEY SILT, dense, dry to moist, black changing to dark brown at 0.7 feet, low plasticity, some lenses of oxidation, considerable roots.	1	X	Suite C	NT
1	0				0			
		SM		SILTY SAND, dense, moist to wet, medium olive, some lenses of oxidation.		X	Suite A	NT
2	-1			Consistency changing to soft from 2.25 to 2.75 feet, fine micaceous sand	-1			
3	-2				-2	X	Suite A	NT
4	-3			Color transition to mottled olive and dark gray at 4.5 feet.	-3			
5	-4			Unrecovered interval.	-4			
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 561755.62
Drilling Method	: Vibracore	Easting	: 1458448.968
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. 0.193	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.193	Samples	Sample No.	PID (ppm)
0	0	ML		CLAYEY SILT, soft, dry to moist, dark brown, medium plasticity, considerable roots.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist, olive, non-plastic, lenses of oxidation.	-1	X	Suite A	NT
2	-2				-2			
3	-3	ML		SANDY SILT, soft, wet, dark gray, non-plastic, fine micaceous sand.	-3			
4	-4	SM		SILTY SAND, loose, wet, dark gray, non-plastic, fine, micaceous.	-4	X	Suite A	NT
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 561563.714
Drilling Method	: Vibracore	Easting	: 1458350.295
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. 0.389	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.389	Samples	Sample No.	PID (ppm)
0	0	CL		SILTY CLAY, stiff, moist, dark brown, medium plasticity.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, wet, medium olive, non-plastic, fine, micaceous, some lenses of oxidation.	-1	X	Suite A	NT
2	-2			Color transition to dark gray at 2 feet.	-2			
3	-3				-3	X	Suite A	NT
4	-4			Unrecovered interval.	-4			
5	-5				-5			
6	-6				-6			
7								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-41-07.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-41-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/23/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 561262.617
Drilling Method	: Vibracore	Easting	: 1458350.275
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. 0.132	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.132	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, moist, dark brown, low plasticity, fine micaceous sand, some rootlets.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, moderately dense, moist to wet, dark olive, non-plastic, fine, micaceous, some lenses of oxidation.	-1	X	Suite A	NT
2	-2	ML		SANDY SILT, soft, wet, dark olive, fine micaceous sand.	-2			
3	-3	SM		SILTY SAND, loose, wet, dark olive, fine, micaceous, some lenses of oxidation.	-3	X	Suite A	NT
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-41-08.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563556.589
Drilling Method	: Vibracore	Easting	: 1457860.856
Sampling Method	: Extraction	Elapsed Time	: 44 min.

Depth in Feet	Surf. Elev. -0.099	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.099	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, hard, dry, dark brown, considerable sand, roots, oxidized plant material.		X	Suite C	NT
	-1	SC		SANDY CLAY, stiff, moist, light gray, medium plasticity, considerable silt, oxidized streaking and mottling.	-1			
1				Missing interval from 1.0 to 1.5 feet.				
		SC		As above.		X	Suite A	NT
	-2	ML		SANDY SILT, soft, moist, tan with oxidized streaking, medium plasticity, some mica.	-2			
2								
	-3				-3			
3		SM		SILTY SAND, dense, moist, tan, fine, well sorted, micaceous.		X	Suite A	NT
	-4				-4			
4								
	-5				-5			
5				Unrecovered interval.				
	-6				-6			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563159.918
Drilling Method	: Vibracore	Easting	: 1458054.991
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 0.221	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.221	Samples	Sample No.	PID (ppm)
0	0	FL		FILL, hard, dry, brown, silt, sand, gravel, some plant fragments near surface.	0	X	Suite C	NT
1	-1			Missing interval from 0.5 to 1.5 feet.	-1			
		SC		SANDY CLAY, hard, slightly moist, tan with oxidation mottling, low plasticity, considerable silt, some rootlets.		X	Suite A	NT
2	-2	ML		SANDY SILT, stiff, slightly moist, tan, medium plasticity, oxidized rootlets.	-2			
				Consistency changing to soft and moisture content increasing to moist at 2.5 ft.				
3	-3			Color transition to gray at 3.0 ft.	-3			
4	-4				-4	X	Suite A	NT
5	-5			Unrecovered interval.	-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562661.457
Drilling Method	: Vibracore	Easting	: 1458050.006
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 1.056	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.056	Samples	Sample No.	PID (ppm)
0	1	ML		SANDY SILT, hard, dry, dark brown, non-plastic, fine sand with some gravel, considerable roots.	1	X	Suite C	NT
1	0			Missing interval from 0.5 to 1.5 feet.	0			
		CL		CLAY, very hard, slightly moist, light gray, medium plasticity.		X	Suite A	NT
2	-1	ML		SANDY SILT, hired, slightly moist, gray with streaks of oxidation, non-plastic, some roots.	-1			
3	-2				-2			
		SW		SAND, moderately dense, moist, gray, well sorted, micaceous, trace silt, oxidized organic material to 4.2 feet.		X	Suite A	NT
4	-3				-3			
				Unrecovered interval.				
5	-4				-4			
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562458.772
Drilling Method	: Vibracore	Easting	: 1457857.514
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. -0.567	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.567	Samples	Sample No.	PID (ppm)
0								
	-1	ML		SANDY SILT, soft, moist, black changing to light gray at 1.0 in., low plasticity, fine sand.	-1	X	Suite C	NT
1								
	-2	SM		SILTY SAND, moderately dense, moist, oxidation streaking, fine, well sorted, micaceous, some roots.	-2	X	Suite A	NT
2								
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4								
	-5				-5			
5		SW		SAND, moderately dense, wet, dark gray, fine, micaceous, trace silt.				
	-6				-6			
				Unrecovered interval.				
6								
	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562261.832
Drilling Method	: Vibracore	Easting	: 1457758.365
Sampling Method	: Extraction	Elapsed Time	: 25 min.

Depth in Feet	Surf. Elev. -0.304	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.304	Samples	Sample No.	PID (ppm)
0		PT		PEAT, dry, stiff, dark brown, algal mat on surface.				
	-1	ML		SANDY SILT, stiff, moist, light gray, low plasticity, fine sand, oxidized roots.	-1	X	Suite C	NT
1				Missing interval from 1.0 to 1.5 feet.				
	-2	ML		As above.	-2	X	Suite A	NT
2				Consistency becoming soft, moisture content increasing to moist.				
	-3				-3			
3								
	-4				-4	X	Suite A	NT
4		SM		SILTY SAND, moderately dense, wet, tan streaks of oxidation, medium, well sorted, micaceous.				
	-5				-5			
5				Unrecovered interval.				
	-6				-6			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-42-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/01/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561758.472
Drilling Method	: Vibracore	Easting	: 1457764.539
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. -1.082	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.082	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, moist, tan and gray, low plasticity, oxidation mottling.		X	Suite C	NT
1	-2				-2			
2	-3				-3	X	Suite A	NT
3	-4	SM		SILTY SAND, moderately dense, wet, gray, medium, micaceous, some shell fragments.	-4			
4	-5				-5	X	Suite A	NT
5	-6			Unrecovered interval.	-6			
6	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-43-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/25/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561060.345
Drilling Method	: Vibracore	Easting	: 1458052.246
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.640	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.640	Samples	Sample No.	PID (ppm)
0	0	SC		SILTY CLAY, stiff, moist, brown changing to tan at 1 in., low to medium plasticity, trace fine micaceous sand, some organic and plant material decreasing in concentration with depth, some oxidation mottling.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, moderately dense, moist, tan with oxidized mottling to 2.6 feet, fine, micaceous, subangular, trace plant material to 2.0 feet.	-1	X	Suite A	NT
2	-2				-2			
3	-3			Color transition to dark gray at 3.6 feet.	-3	X	Suite A	NT
4	-4				-4			
5	-5			Shell fragments from 5.2 to total depth.	-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563366.53
Drilling Method	: Vibracore	Easting	: 1455556.98
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. 0.64	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.64	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, dry, brown, some fine sand.		X	Suite C	NT
	0	ML		SILT, hard, moist, light gray with yellow and oxidation mottling, trace fine sand, roots to 1.5 feet, some clay from 0.6 to 1.7 feet.	0			
1	-1			Color transition to brown at 1.7 feet.	-1	X	Suite A	NT
2	-2			Consistency changing to soft, water content changing to moist, color transition to light gray with yellow and oxidation mottling at 2.1 feet, some clay from 2.3 to 2.6 feet.	-2			
3	-3	SM		SILTY SAND, loose, moist, light gray.	-3	X	Suite A	NT
4	-4			Color transition to dark gray with red mottling, trace plant material.	-4			
5	-5				-5			
6	-6				-6			
7				Unrecovered interval.				
8	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-44-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562818.531
Drilling Method	: Vibracore	Easting	: 1455419.859
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 2.265	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.265	Samples	Sample No.	PID (ppm)
0	2	PT		ORGANIC SILT, very dense, dry to moist, dark brown changing to mottled light gray and oxidized root channels at 0.2 feet, some fine micaceous sand, considerable rootlets and organic material to 0.2 feet.	2			
1	1				1			
2	0	SW		SAND loose, wet, tan, fine, trace silt.	0			
3	-1				-1			
4	-2				-2		Dredge	NT
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6				-6			
9	-7				-7			
10	-8				-8		Suite C	NT
11	-9			Unrecovered interval.	-9			
12	-10				-10			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-44-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562622.538
Drilling Method	: Vibracore	Easting	: 1455406.086
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 1.446	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.446	Samples	Sample No.	PID (ppm)
0	1	SC		SANDY CLAY, medium stiff, moist, tan, fine micaceous sand, some oxidized root channels, considerable organic material.	1			
1	0	SW		SAND, loose, moist to wet, mottled tan and oxidized root channels, fine, micaceous, some silt decreasing in content with depth.	0			
2	-1				-1			
3	-2			Color transition to dark gray at 3.1 feet.	-2			
4	-3			Some shell fragments from 3.8 to 4 feet.	-3		Dredge	NT
5	-4				-4			
6	-5				-5			
7	-6				-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9			Unrecovered interval.	-9			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562800.9
Drilling Method	: Vibracore	Easting	: 1455936.399
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 1.319	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.319	Samples	Sample No.	PID (ppm)
0	1	SP		SAND, loose, moist, tan with oxidized mottling to 2.5 feet, fine to medium, micaceous, subangular, trace silt.	1	X	Suite C	NT
1	0				0	X	Suite A	NT
2	-1				-1			
3	-2			Shell fragments from 3.25 to 3.75 feet.	-2	X	Suite A	NT
4	-3	ML		SILT, stiff, moist, gray, medium plasticity, trace fine micaceous sand.	-3			
5	-4	SM		SILTY SAND, loose, moist, gray, fine to medium, micaceous, subangular.	-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562597.937
Drilling Method	: Vibracore	Easting	: 1456214.351
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 1.209	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.209	Samples	Sample No.	PID (ppm)
0	1	ML		SANDY SILT, stiff, dry to moist, dark brown changing to tan at 3 in., non-plastic, fine micaceous sand, considerable organic material to 3 in., decreasing in concentration with depth, considerable roots.	1	X	Suite C	NT
1	0	SM		SILTY SAND, moderately dense, moist to wet, light grayish tan with oxidation mottling to 3.5 feet, fine, micaceous, plant material to 1.5 feet.	0	X	Suite A	NT
2	-1				-1			
3	-2				-2			
		ML		SANDY SILT, moderately stiff, moist, dark gray, medium plasticity.		X	Suite A	NT
4	-3	SM		SILTY SAND, moderately dense, moist to wet, dark gray, fine, micaceous, considerable shell fragments to 4.5 feet.	-3			
5	-4				-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-44-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562352.93
Drilling Method	: Vibracore	Easting	: 1455946.533
Sampling Method	: Extraction	Elapsed Time	: 18 min.

Depth in Feet	Surf. Elev. 2.3	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.3	Samples	Sample No.	PID (ppm)
0	2	SM		SILTY SAND, loose, dry to moist, yellowish brown, very fine, trace mica and rootlets.	2			
1	1	SW		SAND, loose, moist to wet, mottled tan and oxidized root channels, fine, trace mica, some silt.	1			
2	0	SW		Color transition to dark gray at 2.5 feet.	0			
3	-1	SW			-1			
4	-2	ML		SANDY SILT, loose, wet, dark gray, low plasticity, very fine micaceous sand.	-2			
5	-3	SW		SAND, loose, wet, dark gray, fine, micaceous, some silt. Some roots from 5.2 to 5.3 feet.	-3		Dredge	NT
6	-4	SW			-4			
7	-5	SW			-5			
8	-6	SW		Considerable shell fragments from 8.8 to 9 feet.	-6			
9	-7	SW		Considerable shell fragments from 9.5 to 10.7 feet.	-7			
10	-8	SW			-8		Suite C	NT
11	-9	SW			-9			
12	-10	SW			-10			
13				Unrecovered interval.				

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-44-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/02/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 561754.419
Drilling Method	: Vibracore	Easting	: 1456647.34
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. 1.39	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.39	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose changing to dense at 1 in., dry to moist, dark brown changing to olive gray at 1 in., fine, micaceous, considerable organic material to 1 inch.	1			
1	0	SW		SAND, loose, moist to wet, olive gray, fine, micaceous. Color transition to mottled olive gray and oxidized root channels from 1.2 to 3.2 feet.	0			
2	-1				-1			
3	-2			Color transition to dark gray at 3.2 feet.	-2			
4	-3				-3		Dredge	NT
5	-4				-4			
6	-5				-5			
7	-6				-6			
8	-7				-7			
9	-8				-8		Suite C	NT
10	-9			Unrecovered interval.	-9			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562454.463
Drilling Method	: Vibracore	Easting	: 1456347.34
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 1.43	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.43	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SANDY SILT, stiff, dry, dark brown, non-plastic, considerable organic material and roots.		X	Suite C	NT
	1	ML		SANDY SILT, stiff, moist, light brownish gray with oxidation mottling, low plasticity, fine micaceous sand, considerable roots.	1			
1	0				0	X	Suite A	NT
2	-1	SM		SILTY SAND, loose, moist, tan with red mottling to 4.3 feet, fine to medium, micaceous.	-1			
3	-2				-2	X	Suite A	NT
4	-3			Color transition to gray at 3.8 feet.	-3			
5	-4				-4			
6	-5				-5			
7	-6			Unrecovered interval.	-6			
8	-7				-7			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561966.837
Drilling Method	: Vibracore	Easting	: 1456852.545
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 1.819	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.819	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, moderately stiff, dry to moist, low plasticity, fine sand, some plant roots.		X	Suite C	NT
	1	SM		SILTY SAND, loose, moist to wet, tan with oxidation mottling to 4.0 feet, fine, micaceous, subangular.	1			
1								
	0				0	X	Suite A	NT
2								
	-1				-1			
3				Color transition to gray at 3.4 feet.				
	-2				-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4				-4			
6								
	-5			Unrecovered interval.	-5			
7								
	-6				-6			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-44-10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/24/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 561861.619
Drilling Method	: Vibracore	Easting	: 1457156.702
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. 0.418	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.418	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, hard, dry to moist, brown changing to tan at 2 in., non-plastic, some organic material and roots.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, moderately dense, moist, tan, oxidation mottling to 3.3 feet, roots to 1.8 feet.	-1	X	Suite A	NT
2	-2				-2			
3	-3			Color transition to gray at 3.1 feet.	-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			
7	-7			Unrecovered interval.	-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563759.575
Drilling Method	: Vibracore	Easting	: 1457358.31
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. 0.769	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.769	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, moderately dense, dry, fine, some plant and organic material.		X	Suite C	NT
	0	ML		SANDY SILT, hard, dry to moist, light gray, low plasticity, fine micaceous sand, some peat near top of interval.	0			
1								
	-1	SM		SILTY SAND, moderately dense, moist, tan, fine, micaceous, well sorted, oxidation mottling. Moisture content increasing with depth to wet.	-1	X	Suite A	NT
2								
	-2				-2			
3								
	-3				-3	X	Suite A	NT
4								
	-4				-4			
5								
	-5			Unrecovered interval.	-5			
6								
	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563660.243
Drilling Method	: Vibracore	Easting	: 1457156.141
Sampling Method	: Extraction	Elapsed Time	: 25 min.

Depth in Feet	Surf. Elev. 0.538	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.538	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, moderately dense, dry, dark brown, non-plastic, considerable sand, roots.	0	X	Suite C	NT
1	-1	SC		SILTY CLAY, hard, dry, tan with oxidation mottling, high plasticity. Moisture content increasing with depth to moist. Trace sand.	-1	X	Suite A	NT
2	-2	SW		SAND, moderately dense, moist to wet, tan, fine, micaceous. Color transition to dark gray at 3.5 ft.	-2	X	Suite A	NT
3	-3				-3			
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, dense, dry, brown, fine medium, considerable organic material.		X	Suite C	NT
		SC		CLAYEY SILT, stiff, dry, tan, medium plasticity, trace fine sand, some plant material near top of interval.				
1	-1			Missing interval from 0.75 to 1.4 ft.	-1			
2	-2	SC		As above. Consistency changing to soft, moisture content increasing to moist, plasticity increasing with depth.	-2	X	Suite A	NT
3	-3				-3			
4	-4	SM		SILTY SAND, medium, dense, moist, tan with oxidation mottling, fine, well sorted, micaceous.	-4	X	Suite A	NT
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563162.586
Drilling Method	: Vibracore	Easting	: 1457156.794
Sampling Method	: Extraction	Elapsed Time	: 35 min.

Depth in Feet	Surf. Elev. 1.081	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.081	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, dense, dry, brown, fine, micaceous, organic material and roots.	1	X	Suite C	NT
		CL		CLAY, stiff, slightly moist, tan, high plasticity, trace sand and mica.				
1	0			Missing interval from 1.0 to 1.25 feet.	0			
		CL		As above.		X	Suite A	NT
2	-1	SM		SILTY SAND, moderately dense, moist, tan streaks of oxidation, fine, well sorted, micaceous.	-1	X	Suite A	NT
3	-2				-2			
4	-3				-3			
5	-4				-4			
				Unrecovered interval.				
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562554.056
Drilling Method	: Vibracore	Easting	: 1457358.976
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 1.635	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.635	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, dry, tan, fine well sorted micaceous sand, considerable roots.		X	Suite C	NT
	1				1			
1				Sand content increases with depth, streaks of oxidation.				
	0				0	X	Suite A	NT
2								
	-1				-1			
3								
	-2	SM		SILTY SAND, moderately dense, moist, grayish tan, fine, well sorted, micaceous.	-2	X	Suite A	NT
4								
	-3				-3			
5				Unrecovered interval.				
	-4				-4			
6								
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562160.316
Drilling Method	: Vibracore	Easting	: 1457457.119
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0.266	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.266	Samples	Sample No.	PID (ppm)
0	0	SW		SAND, dense, dry, brown, fine, some mica, roots.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, moderately dense, moist, tan, fine well sorted micaceous sand, streaks of oxidation to 4.0 ft.	-1	X	Suite A	NT
2	-2				-2			
3	-3				-3	X	Suite A	NT
4	-4			Moisture content increasing to wet, color transition gray tan at 4.0 feet, considerable shell fragments to total depth.	-4			
5	-5				-5			
6				Unrecovered interval.				
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-45-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/25/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562061.469
Drilling Method	: Vibracore	Easting	: 1457161.387
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.884	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.884	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, dry, brown, trace plant material.		X	Suite C	NT
1	0	SM		SILTY SAND, moderately dense, moist, tan, fine, well sorted, micaceous, streaks of oxidation to 3.2 feet.	0	X	Suite A	NT
2	-1				-1			
3	-2			Moisture content increasing to wet, color transition to gray at 3.2 feet.	-2	X	Suite A	NT
4	-3				-3			
5	-4				-4			
6	-5			Unrecovered interval.	-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/08/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 564260.525
Drilling Method	: Vibracore	Easting	: 1456855.321
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. -1.231	USCS Code	Hatching	Lithologic Description	Surf. Elev. -1.231	Samples	Sample No.	PID (ppm)
0		SC		SANDY CLAY, moist, olive gray, low plasticity, roots.		X	Suite C	NT
	-2	SM		SILTY SAND, moist, olive gray mottled with oxidized material, some clay and roots, trace shell fragments.	-2			
1				Increasing clay and oxidized material content with depth.		X	Suite A	NT
2	-3				-3			
	-4	SC		SANDY CLAY, olive gray streaked with oxidized material.	-4			
3						X	Suite A	NT
4	-5				-5			
	-6			Unrecovered interval.	-6			
5								
	-7				-7			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/08/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 563958.73
Drilling Method	: Vibracore	Easting	: 1456745.451
Sampling Method	: Extraction	Elapsed Time	: 24 min.

Depth in Feet	Surf. Elev. 0.526	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.526	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, moist, dark brown, roots.		X	Suite C	NT
	0			Missing interval from 0.5 to 1.1 feet.	0			
1		SC		SANDY CLAY, moist, olive gray with oxidized material, roots.		X	Suite A	NT
	-1				-1			
2				Decreasing root content with depth.				
	-2			Shell fragments.	-2			
3								
	-3	SW		SAND, moist, dark gray.	-3	X	Suite A	NT
4								
	-4				-4			
5								
	-5				-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 563666.355
Drilling Method	: Vibracore	Easting	: 1456852.33
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 0.208	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.208	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, dry, brown, roots.	0	X	Suite C	NT
1	-1			Missing interval from 1.0 to 1.5 feet.	-1			
2	-2	CL		CLAY, moist, olive gray, lenses of oxidized material, some roots.	-2	X	Suite A	NT
3	-3	SC		CLAYEY SAND, moist, olive gray, lenses of oxidized material, some roots.	-3			
4	-4			Increasing content of oxidized material.	-4	X	Suite A	NT
5	-5	SW		SAND, moist, dark gray, fine, lenses of olive gray CLAY and oxidized material, slight hydrogen sulfide odor.	-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 563162.359
Drilling Method	: Vibracore	Easting	: 1456846.844
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. 1.996	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.996	Samples	Sample No.	PID (ppm)
0		SC		SANDY CLAY, moist, reddish brown, organic material.		X	Suite C	NT
1	1			Color transition to olive gray with lenses of oxidized material.	1			
						X	Suite A	NT
2	0	CL		CLAY, moist, red.	0			
		SC		SANDY CLAY, moist, gray, low plasticity.				
3	-1				-1			
				Considerable shell fragments from 4.0 to total depth.		X	Suite A	NT
4	-2				-2			
5	-3				-3			
6	-4				-4			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 562858.338
Drilling Method	: Vibracore	Easting	: 1456953.796
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0.867	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.867	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, moist, dark brown, some clay, gravel and roots.		X	Suite C	NT
1	0				0			
2	-1	SC		CLAYEY SAND, moist, olive gray mottled with oxidized material, shell fragments and organic material.	-1	X	Suite A	NT
3	-2			clay content increasing to becoming a SANDY CLAY at 2.75 feet, moist, olive gray mottled with oxidized material, organic material.	-2			
4	-3				-3	X	Suite A	NT
				sand content increasing to becoming a CLAYEY SAND at 4.25 feet, moist, dark gray, shell fragments.				
5	-4			Unrecovered interval.	-4			
6	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 562881.764
Drilling Method	: Vibracore	Easting	: 1456581.97
Sampling Method	: Extraction	Elapsed Time	: 18 min.

Depth in Feet	Surf. Elev. 0.3	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.3	Samples	Sample No.	PID (ppm)
0	0	SC		SANDY CLAY, moist, brownish gray mottled with oxidized material, low plasticity, roots.	0	X	Suite C	NT
1	-1			Color transition to gray at 1.0 foot.	-1	X	Suite A	NT
2	-2			sand content increasing to becoming a CLAYEY SAND at 2.5 feet, moist, olive gray with lenses of oxidized material.	-2			
3	-3			Color transition to dark gray with slight hydrogen sulfide odor at 3.25 feet.	-3	X	Suite A	NT
4	-4				-4			
5	-5			Unrecovered interval.	-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-46-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/09/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 562531.469
Drilling Method	: Vibracore	Easting	: 1456826.135
Sampling Method	: Extraction	Elapsed Time	: 81 min.

Depth in Feet	Surf. Elev. 1.763	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.763	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, moist, dark brown, organic material, roots.		X	Suite C	NT
	1	SC		SANDY CLAY, moist, olive gray mottled with some oxidized material, non-plastic, organic material, roots.	1			
1								
	0	SW		SAND, moist, olive gray mottled with oxidized material.	0	X	Suite A	NT
2								
	-1				-1			
3				Color transition to dark gray at 3.5 feet.				
	-2				-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4				-4			
6								
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-47-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/07/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564854.795
Drilling Method	: Vibracore	Easting	: 1456548.561
Sampling Method	: Extraction	Elapsed Time	: 67 min.

Depth in Feet	Surf. Elev. 1.52	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.52	Samples	Sample No.	PID (ppm)
0								
	1	FL		FILL, hard, dry, light brown, blocky, cemented lenses of sand and silt.	1	X	Suite C	NT
1				Missing interval from 1.0 to 1.5 feet.				
	0	SM		SILTY SAND, dense, dry, brown, fine.	0	X	Suite A	NT
2								
	-1			Missing interval from 2.3 to 3.0 feet.	-1			
3								
	-2	SM		SILTY SAND, moderately dense, wet, gray with some red mottling, well sorted, micaceous, some rootlets.	-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4				-4			
6				Unrecovered interval.				
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-47-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/07/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564410.984
Drilling Method	: Vibracore	Easting	: 1456949.517
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 1.986	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.986	Samples	Sample No.	PID (ppm)
0		FL		FILL, dense, dry, tanish brown, mixture of silt, sand and gravel.		X	Suite C	NT
1	1			Missing interval from 1 to 1.5 feet.	1			
2	0	FL		As above except slightly moist.	0	X	Suite A	NT
		ML		SANDY SILT, dense, moist, brown, low plasticity, some roots.				
3	-1	SM		SILTY SAND, moderately dense, moist, gray, fine, micaceous, well sorted.	-1	X	Suite A	NT
4	-2				-2			
5	-3				-3			
6	-4				-4			
7	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-47-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/07/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564055.39
Drilling Method	: Vibracore	Easting	: 1457555.682
Sampling Method	: Extraction	Elapsed Time	: 54 min.

Depth in Feet	Surf. Elev. 0.094	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.094	Samples	Sample No.	PID (ppm)
0	0	FL		FILL, very dense, dry, light brown, mixture of silt, sand, gravel and asphalt, some organic material.	0	X	Suite C	NT
1	-1			Missing interval from 1.0 to 1.5 feet.	-1			
		CL		CLAY, very stiff to hard, moist, mottled tan and gray, high plasticity, trace sand.		X	Suite A	NT
2	-2	ML		SANDY SILT, stiff, slightly moist, light gray with oxidized mottling, low plasticity, some roots.	-2			
		SC		SANDY CLAY, stiff, moist, gray with oxidized mottling, high plasticity, fine micaceous sand, considerable silt.				
3	-3	ML		SANDY SILT, stiff, moist, tan, medium plasticity, fine sand increasing in content with depth.	-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-47-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/07/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563863.409
Drilling Method	: Vibracore	Easting	: 1457660.168
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. -2.27	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.27	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC CLAY, very stiff, dry, black, considerable silt.				
		CL		SILTY CLAY, stiff, slightly moist, gray with black lens near 0.75 feet, low plasticity, considerable fine sand.		X	Suite C	NT
	-3	SM		SILTY SAND, moderately dense, moist, gray with oxidized mottling, fine, micaceous, well sorted.	-3			
1				Missing interval from 1.0 to 1.5 feet.				
	-4	SM		As above except increasing moisture content with depth.	-4	X	Suite A	NT
2								
	-5				-5			
3								
	-6				-6	X	Suite A	NT
4								
	-7				-7			
5								
	-8				-8			
6								
	-9				-9			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564566.208
Drilling Method	: Vibracore	Easting	: 1456249.574
Sampling Method	: Extraction	Elapsed Time	: 50 min.

Depth in Feet	Surf. Elev. 1.447	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.447	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, hard, dry, dark brown, considerable organic material and roots.		X	Suite C	NT
	1				1			
		SC		SILTY CLAY, hard, slightly moist, tan, low plasticity, some peat and roots.				
1				Missing interval from 1.1 to 1.5 feet.				
	0				0			
		ML		SILT, hard, slightly moist, tan, medium plasticity, trace sand.		X	Suite A	NT
2		SW		SAND, moderately dense, moist, fine, micaceous, trace silt.				
	-1				-1			
3								
	-2				-2	X	Suite A	NT
4								
	-3				-3			
5								
	-4			Unrecovered interval.	-4			
6								
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564261.242
Drilling Method	: Vibracore	Easting	: 1456150.681
Sampling Method	: Extraction	Elapsed Time	: 55 min.

Depth in Feet	Surf. Elev. 1.317	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.317	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, hard, dry, brown oxidation mottling, some organic material and roots.		X	Suite C	NT
1	1				1			
1	0	SC		SILTY CLAY, are, slightly moist, tan, low plasticity, some plant material and roots. Consistency become a soft, moist, some fine sand.	0	X	Suite A	NT
2	-1				-1			
3	-2	SM		SILTY SAND, moderately dense, moist, gray with oxidation mottling, fine, well sorted, micaceous. Moisture content increasing to wet.	-2	X	Suite A	NT
4	-3				-3			
5	-4				-4			
				Unrecovered interval.				
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563767.839
Drilling Method	: Vibracore	Easting	: 1456342.302
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 3.802	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.802	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, moist, brown, low plasticity, fine sand, surficial algal mat, some organic material to 0.5 feet. Consistency changing to soft, moisture content changing to wet, color transition to tan, some shell fragments.		X	Suite C	NT
1	3				3			
2	2				2	X	Suite A	NT
3	1	SM		SILTY SAND, moderately dense, wet, dark gray, fine, well sorted, micaceous.	1			
4	0				0	X	Suite A	NT
5	-1				-1			
6	-2			Unrecovered interval.	-2			
7	-3				-3			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563658.329
Drilling Method	: Vibracore	Easting	: 1456052.039
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. 1.119	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.119	Samples	Sample No.	PID (ppm)
0	1	ML		SANDY SILT, stiff, dry, non-plastic, fine sand.	1	X	Suite C	NT
1	0			Missing interval from 1.1 to 1.4 feet.	0			
		SC		CLAYEY SILT, stiff, moist, low plasticity.		X	Suite A	NT
2	-1	SM		SILTY SAND, moderately dense, moist to wet, dark gray, fine, well sorted, micaceous, oxidized plant material.	-1			
3	-2				-2			
4	-3				-3	X	Suite A	NT
5	-4				-4			
				Unrecovered interval.				
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/28/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563154.312
Drilling Method	: Vibracore	Easting	: 1456347.917
Sampling Method	: Extraction	Elapsed Time	: 14 min.

Depth in Feet	Surf. Elev. 0.635	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.635	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, dry, brown, roots.		X	Suite C	NT
	0	SC		SILTY CLAY, stiff, slightly moist, tan, medium plasticity, some shell fragments to 2.75 feet.	0			
1				Consistency changing to soft, moisture content increasing to moist.				
	-1				-1	X	Suite A	NT
2								
	-2				-2			
3		SM		SILTY SAND, moderately dense, wet, gray, medium, well sorted, micaceous.				
	-3				-3	X	Suite A	NT
4								
	-4				-4			
5								
	-5				-5			
6				Unrecovered interval.				
	-6				-6			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-48-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562859.29
Drilling Method	: Vibracore	Easting	: 1456250.069
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 1.425	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.425	Samples	Sample No.	PID (ppm)
0				SANDY SILT, stiff, dry, tan, low plasticity, oxidation mottling.		X	Suite C	NT
	1				1			
1				Consistency become a soft, moisture content becoming moist, color transition to gray.				
	0				0			
		ML				X	Suite A	NT
2								
	-1				-1			
3								
	-2				-2			
				SILTY SAND, moderately dense, wet, dark gray, fine, well sorted, micaceous.		X	Suite A	NT
4								
	-3	SM			-3			
5								
	-4			Unrecovered interval.	-4			
6								
	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-49-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564260.407
Drilling Method	: Vibracore	Easting	: 1455843.894
Sampling Method	: Extraction	Elapsed Time	: 50 min.

Depth in Feet	Surf. Elev. 2.140	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.140	Samples	Sample No.	PID (ppm)
0	2	SP		SAND, very dense, dry, brown, medium with some gravel, some roots.	2	X	Suite C	NT
1	1			missing interval from 1.0 to 1.4 feet.	1			
2	0	SM		SILTY SAND, very dense, slightly moist, tan with oxidation mottling, medium, considerable roots.		X	Suite A	NT
		ML		SILT, soft, moist, tan with oxidation mottling, high plasticity, some fine sand.	0			
3	-1	SM		SILTY SAND, moderately dense, moist, gray, fine, well sorted, micaceous.	-1	X	Suite A	NT
4	-2	ML		SILT, soft, moist, gray, high plasticity, some fine sand.	-2			
5	-3				-3			
				Unrecovered interval.				
6	-4				-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-49-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563855.343
Drilling Method	: Vibracore	Easting	: 1455545.554
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. -0.766	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.766	Samples	Sample No.	PID (ppm)
0	-1	ML		SILTY SAND, moderately dense, moist, tan, fine, well sorted, micaceous, root fibers to 0.5 feet. Shell fragments from 0.4 to 0.7 feet.	-1	X	Suite C	NT
1	-2	SC		SANDY SILT, soft, moist, tan, fine sand.	-2	X	Suite A	NT
2	-3	SM		SILTY SAND, moderately dense, moist, gray, fine, well sorted, micaceous, streaks of oxidation.	-3			
3	-4				-4			
4	-5				-5	X	Suite A	NT
5	-6			Unrecovered interval.	-6			
6	-7				-7			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-49-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 09/30/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563663.623
Drilling Method	: Vibracore	Easting	: 1455545.262
Sampling Method	: Extraction	Elapsed Time	: 60 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, hard, dry, brown with oxidation mottling, low plasticity, fine micaceous sand, some peat and roots.		X	Suite C	NT
				consistency changing to soft, moisture content increasing to moist and plasticity changing to medium with depth.				
1	-1				-1			
						X	Suite A	NT
2	-2				-2			
3	-3				-3			
		SM		SILTY SAND, moderately dense, wet, gray, fine, well sorted, micaceous.		X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-50-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/08/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	: 564466.001
Drilling Method	: Vibracore	Easting	: 1455049.929
Sampling Method	: Extraction	Elapsed Time	: 16 min.

Depth in Feet	Surf. Elev. 0.914	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.914	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, dry, brown, roots.		X	Suite C	NT
1	0				0			
2	-1	SW		SAND, moist, gray with tan streaking and red oxidized material.	-1	X	Suite A	NT
3	-2	SC		SANDY CLAY, moist, gray with tan streaking and oxidation.	-2			
4	-3	SW		SAND, moist, gray.	-3	X	Suite A	NT
5	-4				-4			
6	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-50-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/08/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: E. Leiby	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 36 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, moist, dark brown, gravel, roots.		X	Suite C	NT
1	-1			Missing interval from 1.0 to 1.5 feet.	-1			
2	-2	SC		CLAYEY SAND, dense (cemented), moist, tan, trace shell fragments and roots.	-2	X	Suite A	NT
3	-3			Missing interval from 2.8 to 3.5 feet.	-3			
4	-4	CL		SILTY CLAY, moist, gray, some organic material, slight hydrogen sulfide odor.	-4	X	Suite A	NT
		SM		SILTY SAND, moist, gray, fine sand.				
5	-5	SC		SILTY CLAY, moist, gray, some organic material, slight hydrogen sulfide odor.	-5			
6	-6				-6			
7	-7				-7			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-50-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/07/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564766.415
Drilling Method	: Vibracore	Easting	: 1456055.1
Sampling Method	: Extraction	Elapsed Time	: 26 min.

Depth in Feet	Surf. Elev. 0.886	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.886	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, hard, dry, brown, non-plastic, fine sand, some roots.				
		CL		SILTY CLAY, very hard (partially cemented), dry, brown with oxidation mottling, considerable fine sand.		X	Suite C	NT
1	0			Missing interval from 1.0 to 1.5 feet.	0			
		CL		As above except less cemented with depth and some roots.		X	Suite A	NT
2	-1	SM		SILTY SAND, moderately dense, wet, gray with some oxidation mottling, fine, micaceous, some shell fragments.	-1			
3	-2				-2			
4	-3				-3	X	Suite A	NT
5	-4				-4			
6	-5			Unrecovered Interval.	-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-50-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/06/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 565045.878
Drilling Method	: Vibracore	Easting	: 1456350.188
Sampling Method	: Extraction	Elapsed Time	: 27 min

Depth in Feet	Surf. Elev. 3.339	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.339	Samples	Sample No.	PID (ppm)
0	3	SM		SILTY SAND, very dense, dry, gray, medium, micaceous, some roots.	3	X	Suite C	NT
1	2			Missing interval from 1.0 to 1.5 feet.	2			
2		SM		As above.		X	Suite A	NT
	1	ML		SANDY SILT, stiff, moist, tan, low plasticity.	1			
				Missing interval from 2.5 to 3.0 feet.				
3	0	ML		As above except moisture and clay content increasing with depth.	0			
4	-1	CL		CLAY, very stiff, slightly moist, light gray, high plasticity, some oxidized organic material.	-1	X	Suite A	NT
5	-2			Moisture content increasing with depth.	-2			
6	-3				-3			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-51-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/01/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 564359.69
Drilling Method	: Vibracore	Easting	: 1454646.597
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. 0.589	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.589	Samples	Sample No.	PID (ppm)
0	0	ML		SANDY SILT, soft, moist to wet, medium plasticity, very fine to fine micaceous sand, considerable rootlets and organic material to 3.0 feet.	0	X	Suite C	NT
1	-1				-1	X	Suite A	NT
2	-2	SM		SILTY SAND, loose, wet, very dark gray, low plasticity, very fine to fine, micaceous, slight decrease in silt content with depth.	-2			
3	-3				-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-52-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/16/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 563703.476
Drilling Method	: Vibracore	Easting	: 1452691.292
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.751	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.751	Samples	Sample No.	PID (ppm)
0–1	0	ML		SANDY SILT, very soft, wet, very dark gray, very fine to fine micaceous sands.	0		Suite C	NT
							Dredge	NT
1–2	-1	SM		SILTY SAND, loose, wet, very dark gray, fine to medium, micaceous.	-1			
2–7	-2	SW		SAND, loose, wet, tan, coarse, trace silt.	-2			
	-3				-3			
	-4				-4			
	-5				-5			
	-6				-6			
7–8	-7			Unrecovered interval.	-7			
8–9	-8				-8			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-52-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/16/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 564326.624
Drilling Method	: Vibracore	Easting	: 1454247.602
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. 0.878	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.878	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, very dark gray, fine to medium, micaceous.			Suite C	NT
1	0				0			
2	-1	ML		SANDY SILT, very soft, very dark gray, very fine sand.	-1		Dredge	NT
3	-2	SM		SILTY SAND, dense, wet, very dark gray, low plasticity, micaceous. Trace root channels from 3.2 to 3.6 feet.	-2			
4	-3				-3			
5	-4				-4			
6	-5			Unrecovered interval.	-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-52-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/17/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: S. Lamothe	Northing	: 564918.627
Drilling Method	: Vibracore	Easting	: 1455428.874
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 1.106	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.106	Samples	Sample No.	PID (ppm)
0	1	SM		SILTY SAND, loose, wet, dark gray, fine to medium.	1	X	Suite C	NT
1	0	SW		SAND, loose, wet, dark gray, medium to coarse, trace silt.	0	X	Suite A	NT
2	-1	SM		SILTY SAND, loose, wet, mottled black and olive gray, fine to medium, considerable organic material.	-1			
3	-2			Color transition to very dark gray at 3.5, grading down to fine from 3.5 to 4 ft., grading up to medium to coarse from 4 to total depth.	-2	X	Suite A	NT
4	-3				-3			
5	-4			Considerable shell fragments from 5 feet to total depth.	-4			
6	-5				-5			
7	-6				-6			
8	-7			Unrecovered interval.	-7			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-53-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 12/08/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564834
Drilling Method	: Vibracore	Easting	: 1454268
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. -0.16	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.16	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, moist, dark brown, low plasticity, considerable plant material, trace fine sand.			Suite C	NT
1	-1	ML		SANDY SILT, very soft, wet, tan, low plasticity, some organic material to 2.2 feet. Consistency changing to stiff, moisture content changing to moist and color transition to gray at 1.2 feet.	-1			
2	-2				-2			
3	-3	SP		SAND, moderately dense, moist, light gray, fine to coarse, micaceous, trace silt.	-3			
4	-4	SM		SILTY SAND, moderately dense, moist to wet, gray, fine, micaceous, well sorted.	-4		Dredge	NT
5	-5				-5			
6	-6				-6			
7	-7				-7			
				Unrecovered interval.				
8	-8				-8			
9	-9				-9			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-53-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 12/09/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564711.987
Drilling Method	: Vibracore	Easting	: 1454526.342
Sampling Method	: Extraction	Elapsed Time	: 19 min.

Depth in Feet	Surf. Elev. 0.049	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.049	Samples	Sample No.	PID (ppm)
0	0	PT		ORGANIC SILT, hard, dry, dark brown, considerable silt, some roots.	0		Suite C	NT
		CL		CLAY, hard changing to stiff, dry changing to moist, tan, medium plasticity.				
1	-1			Missing interval from 0.75 to 2.3 feet.	-1			
2	-2				-2			
		SM		SILTY SAND, moderately dense, moist, tan, fine, micaceous, well sorted.				
3	-3	SP		SAND, moderately dense, moist, tan mottled with oxidation to 4 feet, fine to medium with lenses of varying grain size, trace silt.	-3		Dredge	NT
4	-4			Color transition to gray at 4.5 feet.	-4			
5	-5				-5			
6	-6				-6			
7	-7				-7			
				Unrecovered interval.				
8	-8				-8			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564359.12
Drilling Method	: Vibracore	Easting	: 1453043.52
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 1.872	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.872	Samples	Sample No.	PID (ppm)
0		ML		SILT, stiff, slightly moist, brown, medium plasticity.				
		MH		CLAYEY SILT, stiff, moist, tan, high plasticity.		X	Suite C	NT
1	1				1			
		ML		SILT, stiff, wet, gray, medium plasticity, trace fine sand, some lenses of peat and wood fragments, slight hydrogen sulfide odor.		X	Suite A	NT
2	0				0			
3	-1				-1			
4	-2				-2	X	Suite A	NT
5	-3				-3			
				Unrecovered interval.				
6	-4				-4			
7	-5				-5			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564758.882
Drilling Method	: Vibracore	Easting	: 1453252.492
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 0.884	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.884	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, reddish brown changing to gray at 0.2 feet, medium plasticity, fragments of wood, thin lenses of peat.		X	Suite C	NT
1	0				0			
2	-1				-1	X	Suite A	NT
				Consistency changing to soft, sand content increasing with depth.				
3	-2				-2			
4	-3				-3	X	Suite A	NT
				Sand content decreasing with depth.				
5	-4				-4			
				Unrecovered interval.				
6	-5				-5			
7	-6				-6			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564763.987
Drilling Method	: Vibracore	Easting	: 1453750.464
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. 1.194	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.194	Samples	Sample No.	PID (ppm)
0				SILT, soft, moist, brown, low plasticity, some of lenses of peat and wood fragments, hydrogen sulfide odor to 2.0 ft.				
	1				1	X	Suite C	NT
				Color transition to gray at 0.5 feet.				
1								
	0				0			
						X	Suite A	NT
2		ML		Some fine sand from 2.0 ft. to total depth.				
	-1				-1			
3								
	-2				-2			
						X	Suite A	NT
4				Unrecovered interval.				
	-3				-3			
5								
	-4				-4			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564950.631
Drilling Method	: Vibracore	Easting	: 1454054.361
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 0.562	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0.562	Samples	Sample No.	PID (ppm)
0	0	ML		SILT, stiff, moist, dark brown, non-plastic, slight hydrogen sulfide odor, some peat. Consistency changing to soft, moisture content changing to wet, color transition to gray at 0.4 feet.	0	X	Suite C	NT
1	-1				-1	X	Suite A	NT
2	-2			Considerable fine micaceous sand from 2.5 feet to total depth.	-2			
3	-3				-3	X	Suite A	NT
4	-4			Unrecovered interval.	-4			
5	-5				-5			
6								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564350.693
Drilling Method	: Vibracore	Easting	: 1453550.692
Sampling Method	: Extraction	Elapsed Time	: 35 min.

Depth in Feet	Surf. Elev. 2.439	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.439	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, hard, moist, reddish brown, low plasticity, fine sand.		X	Suite C	NT
	2				2			
1				Color transition to tan at 1.0 feet. Consistency changing to soft at 1.2 feet, medium plasticity.				
	1				1	X	Suite A	NT
2								
	0			Sand content decreasing with depth to some, color transition to gray at 2.6 feet. Consistency changing to medium stiff at 2.7 feet.	0			
3								
	-1				-1	X	Suite A	NT
4								
	-2				-2			
5								
	-3				-3			
				Unrecovered interval.				
6								
	-4				-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-55-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 10/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564549
Drilling Method	: Vibracore	Easting	: 1454047
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 1.3	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.3	Samples	Sample No.	PID (ppm)
0	1	PT		ORGANIC SILT, stiff, moist, brown, non-plastic.	1	X	Suite C	NT
1	0	ML		SILT, soft, wet, tan, medium plasticity, some wood fragments.	0	X	Suite A	NT
2	-1	SC		SILTY CLAY, stiff, wet, gray, medium plasticity, trace fine micaceous sand, strong hydrogen sulfide odor, wood fragments.	-1			
3	-2				-2	X	Suite A	NT
4	-3			Sand content increasing with depth.	-3			
5	-4			Unrecovered interval.	-4			
6	-5				-5			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-58-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/21/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563851.142
Drilling Method	: Vibracore	Easting	: 1453656.177
Sampling Method	: Extraction	Elapsed Time	: 21 min.

Depth in Feet	Surf. Elev. 3.615	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.615	Samples	Sample No.	PID (ppm)
0–1	3–2	PT, SC, SM, CL		PEAT, stiff, dry, non-plastic, some sand, some plant roots and some insects.	3–2		Suite C	NT
1–2	2–1			SANDY CLAY, very stiff, dry to slightly moist, tan, non-plastic.	2–1			
2–3	1–0			SILTY SAND, loose, slightly moist, tan, fine.	1–0			
3–4	0–-1	SW		CLAY, stiff, moist, tan, low to medium plasticity, plant roots, trace fine sand.	0–-1			
4–5	-1–-2			SAND, moderately dense, moist, tan with oxidation mottling, fine, micaceous. Lens of coarse sand from 2.25 to 2.5 feet. Moisture content increasing below 2.5 feet, trace silt. Color transition to gray at 4.0 ft.	-1–-2		Dredge	NT
5–6	-2–-3	SM		SILTY SAND, loose to moderately dense, wet, gray, low plasticity, fine, micaceous, approximately 50 percent silt, trace shell fragments.	-2–-3			
6–7	-3–-4				-3–-4			
7–8	-4–-5				-4–-5			
8–9	-5–-6	SP		SAND, moderately dense, wet, fine to coarse, micaceous, trace silt.	-5–-6			
9–10	-6–-7				-6–-7			
10–11	-7–-8	SW		SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	-7–-8			
11–12	-8–-9	SM		SILTY SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	-8–-9			
12–13	-9–-10				-9–-10			
13–14	-10–-11	ML		SANDY SILT, soft, wet, dark gray, medium plasticity, fine micaceous sand.	-10–-11			
14–15	-11–-12	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous.	-11–-12			
15–16	-12–-13				-12–-13			
16–17	-13–-14				-13–-14			
17–18	-14–-15				-14–-15			
18–19	-15–-16	CH		CLAY, soft, wet, dark gray, low plasticity, some fine micaceous sand.	-15–-16			
19–20	-16–-17	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous.	-16–-17			
20–21	-17–-18				-17–-18			
21–22	-18–-19			Considerable shell fragments from 22 to 22.5 feet.	-18–-19			
22–23	-19–-20				-19–-20			
23–24	-20–-21				-20–-21			
24–25	-21–-22	SW		SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	-21–-22			
25–26	-22–-23				-22–-23			
26–27	-23–-24			Some shell fragments from 26.8 to 27.5 feet. Refusal at 27.5 feet.	-23–-24			
27–28	-24				-24			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-58-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/21/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 564109.879
Drilling Method	: Vibracore	Easting	: 1454237.695
Sampling Method	: Extraction	Elapsed Time	: 23 min.

Depth in Feet	Surf. Elev. 3.217	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.217	Samples	Sample No.	PID (ppm)
0	3	PT		PEAT, stiff, dry, brown, considerable sand, some plant roots.	3		Suite C	NT
1	2	ML		SILT, very stiff, dry, light gray, trace fine cemented sand, some plant roots near top of horizon.	2			
2	1	CL		CLAY, stiff, moist, brown, medium to high plasticity, trace organic content and plant material.	1			
3	0	SW		SAND, moderately dense, moist to wet, tan, medium, micaceous, trace silt.	0			
4	-1	SM		SILTY SAND, moderately dense, wet, tan changing to gray, fine, micaceous, well sorted, some blocky oxidized organic material.	-1			
5	-2	CL		SILTY CLAY, soft to medium stiff, moist, plastic, gray, trace sand, hydrogen sulfide odor.	-2		Dredge	NT
6	-3				-3			
7	-4	SM		SILTY SAND, dense, wet, fine, gray, micaceous, well sorted, trace shell fragments, hydrogen sulfide odor.	-4			
8	-5				-5			
9	-6				-6			
10	-7	SW		SAND, dense, wet, gray, fine, trace silt.	-7			
11	-8			Unrecovered interval.	-8			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-58-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	ML		SILT, medium stiff, moist, dark brownish red, blocky, some fine micaceous sand, considerable organic material.	0	X	Suite C	NT
1	-1	SM		SILTY SAND, loose, moist to wet, fine, micaceous, some lenses of oxidation to 3 feet.	-1			
2	-2				-2	X	Suite A	NT
3	-3			Color transition to very dark gray at 3 feet. Some shell fragments from 3.3 to 3.6 feet.	-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6				-6			
7	-7				-7			
				Unrecovered interval.				
8	-8				-8			
9	-9				-9			
10								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-58-03.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-58-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 563916.907
Drilling Method	: Vibracore	Easting	: 1455023.685
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 1.596	USCS Code	Hatching	Lithologic Description	Surf. Elev. 1.596	Samples	Sample No.	PID (ppm)
0		SC		CLAYEY SAND, dense, moist, dark brown, very fine micaceous sand, considerable roots and organic material.				
	1	SM		SILTY SAND, loose, moist to wet, tan, fine, micaceous, lenses of oxidized root channels.	1			
1	0				0			
2	-1				-1			
		ML		SANDY SILT, soft, wet, dark gray, fine, micaceous.				
3	-2				-2			
4	-3				-3		Dredge	NT
		SM		SILTY SAND, loose, wet, dark gray, fine, micaceous.				
5	-4				-4			
6	-5				-5			
7	-6				-6			
8	-7			Considerable shell fragments from 8.3 to 9.2 ft.	-7			
9	-8				-8		Suite C	NT
10	-9			Considerable shell fragments from 10.1 to 10.3 ft.	-9			
11				Unrecovered interval.				
12	-10				-10			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-58-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 12 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose to dense, dark brown to 2 inches changing to tan, fine, micaceous, some organic material, some lenses of oxidation to 4.7 feet.	0	X	Suite C	NT
1	-1				-1			
2	-2				-2	X	Suite A	NT
3	-3				-3			
4	-4				-4	X	Suite A	NT
5	-5			Very strong hydrocarbon odor from 4.7 to 5.1 feet (PID 225 ppm), color transition at 4.7 feet to very dark gray.	-5			
6	-6				-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-58-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S Lamothe	Northing	: 563452.440
Drilling Method	: Vibracore	Easting	: 1455153.013
Sampling Method	: Extraction	Elapsed Time	: 33 min.

Depth in Feet	Surf. Elev. 2.535	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.535	Samples	Sample No.	PID (ppm)
0	2	SM		SILTY SAND, loose, moist, dark brown, very fine, micaceous, considerable roots and organic material.	2			
1	1	SW		SAND, loose, moist to wet, mottled tan and oxidation, fine, micaceous, trace silt, lenses of oxidized root channels.	1			
2	0				0			
3	-1				-1			
4	-2				-2		Dredge	NT
5	-3	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-3			
6	-4				-4			
7	-5				-5			
8	-6				-6			
9	-7	SW		SAND, loose, wet, dark gray, fine, micaceous.	-7			
10	-8				-8		Suite C	NT
11	-9				-9			
12	-10			Unrecovered interval.	-10			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-58-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 563254.245
Drilling Method	: Vibracore	Easting	: 1454777.335
Sampling Method	: Extraction	Elapsed Time	: 40 min.

Depth in Feet	Surf. Elev. 3.171	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.171	Samples	Sample No.	PID (ppm)
0	3	SP		SAND, loose, dry, light tan, fine to medium, lenses of oxidation, trace to some silt, some roots to 1 inch.	3			
1	2				2			
2	1				1			
3	0			Wet sands at 2.9 feet.	0			
4	-1			Grading up to coarse oxidized sand from 4 to 5.3 feet.	-1			
				Color transition to dark gray at 4.6 feet.				
5	-2				-2		Dredge	NT
6	-3				-3			
7	-4				-4			
8	-5				-5			
9	-6				-6			
10	-7				-7			
11	-8				-8		Suite C	NT
				Unrecovered interval.				
12	-9				-9			
13	-10				-10			
14								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-59-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/27/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563707.170
Drilling Method	: Vibracore	Easting	: 1454031.748
Sampling Method	: Extraction	Elapsed Time	: 18 min.

Depth in Feet	Surf. Elev. -0.536	USCS Code	Hatching	Lithologic Description	Surf. Elev. -0.536	Samples	Sample No.	PID (ppm)
0	-1	SM		SILTY SAND, loose, wet, tan, medium to coarse, blocky. Lens of very coarse sand and shell fragments from 1 to 1.3 feet grading down to fine to medium, color transition to gray.	-1		Suite C	NT
1	-2				-2			
2	-3				-3			
3	-4				-4		Dredge	NT
4	-5				-5			
5	-6				-6			
6	-7				-7			
7	-8	ML		SILT, soft, wet, gray, low plasticity, some fine sand.	-8			
8	-9	SM		SILTY SAND, wet, gray, fine to medium, blocky.	-9			
9	-10			Missing interval from 9 to 10 feet.	-10			
10	-11	SM		As above except medium grain sand and some shell fragments.	-11			
11	-12				-12			
12	-13				-13			
13	-14				-14			
14	-15				-15			
15	-16	CL		CLAY, stiff, wet, gray, medium plasticity.	-16			
16	-17	SM		SILTY SAND, moderately dense, wet and, gray, some shell fragments.	-17			
17	-18				-18			
18	-19				-19			
19	-20			Grading down to very fine sand.	-20			
20	-21			Missing interval from 19.5 to 20 feet. As above.	-21			
21	-22	SM			-22			
22	-23				-23			
23	-24				-24			
24	-25				-25			
25	-26			Slight hydrogen sulfide odor.	-26			
26	-27				-27			
27	-28				-28			
28				Unrecovered interval. Rejection at 28 feet.				

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-59-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/11/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 563060.886
Drilling Method	: Vibracore	Easting	: 1454989.834
Sampling Method	: Extraction	Elapsed Time	: 21 min.

Depth in Feet	Surf. Elev. 2.599	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.599	Samples	Sample No.	PID (ppm)
0	2	SC		CLAYEY SAND, very dense, very dark gray changing to dark brown at 2 inches, medium plasticity, fine, micaceous, considerable roots and organic material.	2			
1	1	SM		SILTY SAND, loose, tan, fine to medium, micaceous, lenses of oxidation to 3.5 feet.	1			
2	0				0			
3	-1			Color transition to very dark gray at 3.5 feet.	-1			
4	-2				-2		Dredge	NT
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6				-6			
9	-7				-7			
10	-8			Considerable shell fragments from 10 to 10.2 feet.	-8		Suite C	NT
11	-9			Unrecovered interval.	-9			
12	-10				-10			
13								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-60-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/27/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563645.91
Drilling Method	: Vibracore	Easting	: 1453443.419
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 4.017	USCS Code	Lithologic Description	Samples	Sample No.	PID (ppm)
0–1	4–3	ML	SANDY SILT, stiff, moist, mottled dark brown and red, low to medium plasticity, fine micaceous sand, some roots.		Suite C	NT
2–3	2–1	SP	SAND, loose to moderately dense, wet, tan, medium to course, poorly sorted, micaceous, trace silt. Color transition to mottled tan and red at 3 feet.			
4–6	0–-2	ML	SANDY SILT, very soft, wet, gray, medium plasticity, fine sands, trace shell fragments.		Dredge	NT
7–9	-3–-5	SM	SILTY SAND, moderately dense changing to dense, fine, well sorted, micaceous. Grading up to medium at 9.3 feet.			
10	-6		Missing interval from 9.5 to 10 feet.			
11–16	-7–-12	SM	As above. Hydrogen sulfide odor below 10 feet.			
17	-13	ML	SANDY SILT, stiff, wet, gray, fine sands, hydrocarbon odor.			
18	-14	CL	SILTY CLAY, stiff, wet, gray, medium to high plasticity, trace fine sand.			
19	-15	SM	SILTY SAND, dense, wet, gray, fine, micaceous, well sorted, some shell fragments.			
20	-16		Missing interval from 19.4 to 20 feet.			
21–25	-17–-21	SM	As above. Silt content increasing with depth to approximately 50 percent below 22.5 feet. Lens of clay at approximately 24 feet.			
26–29	-22–-25	SP	SAND, moderately dense, wet, gray, medium to coarse, micaceous, some shell fragments, trace silt.			
30–31	-26		Unrecovered interval.			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-60-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/22/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563549.198
Drilling Method	: Vibracore	Easting	: 1453157.884
Sampling Method	: Extraction	Elapsed Time	: 2 hrs 57 min.

Surf. Elev. 3.983

USCS Code	Lithologic Description	Samples	Sample No.	PID (ppm)
SW	SAND, moderately dense, dry to moist, brown, medium grading down to fine at 1.5 feet grading up to medium at 3 ft., micaceous, trace silt, considerable roots to 1.5 feet. Color transition to tan at 1.5 feet. Color transition to gray at 3.5 feet.		Suite C	NT
ML	SANDY SILT, soft to medium stiff, wet to, gray, medium plasticity, fine sands.		Dredge	NT
SM	SILTY SAND, moderately dense, wet, gray, fine, micaceous, well sorted, considerable lenses of shell fragments from 6.1 to 6.4 feet. Considerable shell fragment lenses from 7.7 to 8.1 feet.			
	Missing interval from 9.3 to 10 feet.			
SW	SAND, moderately dense, wet, medium, micaceous, trace silt.			
SM	SILTY SAND, moderately dense, wet, gray, low plasticity.			
SW	SAND, moderately dense, wet, gray, medium, micaceous, trace silt.			
SP	SAND, moderately dense, wet, gray, medium to coarse, micaceous, poorly sorted, subangular.			
SW	SAND, dense, moist to wet, gray, medium, micaceous, trace silt.			
	Missing interval from 19.5 to 20 feet.			
SW	As above.			
SM	SILTY SAND, dense, wet, gray, fine, micaceous.			
SP	SAND, loose to moderately dense, moist to wet, tan, medium to coarse with some pebbles, poorly sorted, subangular and rounded, trace silt.			
SW	SAND, loose, wet, tan, fine, micaceous, trace silt.			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-60-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/25/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Bigfoot
Logged By	: S. Lamothe	Northing	: 563252.738
Drilling Method	: Vibracore	Easting	: 1452947.774
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 4.565	USCS Code	Hatching	Lithologic Description	Surf. Elev. 4.565	Samples	Sample No.	PID (ppm)
0	4	PT		PEAT, loose, moist, dark brown, considerable fine micaceous sand and organic material, some silt.	4		Suite C	NT
1	3	SP		SAND, loose to moderately dense, moist to wet, tan, fine to medium grading up to coarse at 4.5 feet, micaceous.	3			
2	2				2			
3	1			Color transition to gray at 3.5 feet.	1			
4	0	SM		SILTY SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	0		Dredge	NT
5	-1			Considerable shell fragments from 5.5 to 5.7 ft.	-1			
6	-2				-2			
7	-3			Considerable shell fragments from 7.2 to 7.4 feet.	-3			
8	-4			Poor recovery from 8.7 to 11.36 feet to due to a combination of lateral expansion within the tube and tunnels apparently left from boroughing animals--no sample collected.	-4			
9	-5				-5			
10	-6				-6			
11	-7				-7			
12	-8				-8			
13	-9				-9			
14	-10	CL		SILTY CLAY, soft, wet, dark gray, medium plasticity.	-10			
15	-11	SM		SILTY SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	-11			
16	-12				-12			
17	-13				-13			
18	-14				-14			
19	-15				-15			
20	-16	SP		SAND, loose to moderately dense, wet, dark gray, fine to medium, some silt and shell fragments.	-16			
21	-17				-17			
22	-18				-18			
23	-19				-19			
24	-20	SM		SILTY SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	-20			
25	-21				-21			
26	-22				-22			
27	-23				-23			
28	-24	SP		SAND, loose, wet, tan, fine to medium, micaceous.	-24			
29	-25				-25			
30								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-60-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 01/21/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563541.764
Drilling Method	: Vibracore	Easting	: 1453452.059
Sampling Method	: Extraction	Elapsed Time	: 22 min.

Depth in Feet	Surf. Elev. 3.729	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.729	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, moderately dense, dry to moist, brown, medium, micaceous, considerable organic material.			Suite C	NT
	3				3			
1		SW		SAND, loose, wet, tan changing to gray at 5 feet, medium, micaceous, trace silt.				
	2				2			
2								
	1				1			
3								
	0				0			
4								
	-1				-1			
5							Dredge	NT
	-2				-2			
6				Grading down to fine at 6.2 feet with some shell fragments.				
	-3				-3			
7		SM		SILTY SAND, moderately dense, wet, gray, fine, micaceous, well sorted, some shell fragments.				
	-4	SW		SAND, loose to moderately dense, wet, gray, medium, micaceous, trace silt.	-4			
8								
	-5				-5			
9								
	-6				-6			
10								
	-7			Unrecovered interval.	-7			
11								
	-8				-8			
12								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563252.695
Drilling Method	: Vibracore	Easting	: 1453949.925
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 5.11	USCS Code	Hatching	Lithologic Description	Surf. Elev. 5.11	Samples	Sample No.	PID (ppm)
0	5	SW		SAND, loose, dry, tan, medium, micaceous, subangular, roots to 1.0 ft., trace silt.	5	X	Suite C	NT
1	4				4			
2	3			Sand consistency changing to moderately dense and becoming wet at 2.0 feet.	3	X	Suite A	NT
3	2				2			
4	1			Color transition to gray at 4.6 feet.	1	X	Suite A	NT
5	0				0			
6	-1				-1			
				Unrecovered interval.				
7	-2				-2			
8	-3				-3			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563061.541
Drilling Method	: Vibracore	Easting	: 1453548.482
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 5.453	USCS Code	Hatching	Lithologic Description	Surf. Elev. 5.453	Samples	Sample No.	PID (ppm)
0								
	5	SW		SAND, loose, dry, tan, medium, subangular, micaceous, trace silt, roots to 1.0 ft.	5	X	Suite C	NT
1				Sand consistency changing to moderately dense and becoming moist at 0.5 feet.				
	4				4	X	Suite A	NT
2								
	3			Color transition to olive tan at 2.5 feet.	3			
3								
	2				2	X	Suite A	NT
4								
	1				1			
5								
	0				0			
6								
	-1				-1			
7				Unrecovered interval.				
	-2				-2			
8								
	-3				-3			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562955.609
Drilling Method	: Vibracore	Easting	: 1453351.35
Sampling Method	: Extraction	Elapsed Time	: 33 min.

Depth in Feet	Surf. Elev. 5.738	USCS Code	Hatching	Lithologic Description	Surf. Elev. 5.738	Samples	Sample No.	PID (ppm)
0		SP		SAND, loose, dry, tan, fine to medium, subangular, micaceous, roots to 1.0 ft.		X	Suite C	NT
	5				5			
1				Sand grading up to medium to coarse and becoming moist at 1.6 feet.				
	4				4	X	Suite A	NT
2				Sand grading down to fine at 2.5 feet.				
	3				3			
3				Sand grading up to medium to coarse at 3 feet.				
	2				2	X	Suite A	NT
4								
	1				1			
5				Unrecovered interval.				
	0				0			
6								
	-1				-1			
7								
	-2				-2			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562749.87
Drilling Method	: Vibracore	Easting	: 1453457.04
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 6.88	USCS Code	Hatching	Lithologic Description	Surf. Elev. 6.88	Samples	Sample No.	PID (ppm)
0		SW		SAND, loose, dry, tan, medium, micaceous to 5.0 feet, subangular roots to 2.0 feet, trace silt.		X	Suite C	NT
1	6				6			
2	5			Sand consistency changing to moderately dense and becoming wet at approximately 2.0 feet, oxidation mottling from 2.0 to 4.2 feet.	5	X	Suite A	NT
3	4			Trace shell fragments at approximately 3.0 feet. Color transition to olive tan at 3.2 feet.	4			
4	3				3	X	Suite A	NT
5	2				2			
6	1			Color transition to gray at 6.0 feet.	1			
7	0			Unrecovered interval.	0			
8	-1				-1			
9	-2				-2			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562755.62
Drilling Method	: Vibracore	Easting	: 1453722.80
Sampling Method	: Extraction	Elapsed Time	: 10 min.

Depth in Feet	Surf. Elev. 5.77	USCS Code	Hatching	Lithologic Description	Surf. Elev. 5.77	Samples	Sample No.	PID (ppm)
0		SW		SAND, loose, dry, tan, plant roots to 2.5 feet, trace silt.		X	Suite C	NT
	5				5			
1								
	4				4	X	Suite A	NT
2				Sand consistently changing to dense and becoming wet at 2.0 feet.				
				Color transition to orangish red at 2.5 feet.				
	3				3			
3								
	2				2	X	Suite A	NT
4				Color transition to olive at 4.0 feet.				
	1				1			
5				Color transition to gray at 5.0 feet.				
				Unrecovered interval.				
	0				0			
6								
	-1				-1			
7								
	-2				-2			
8								
	-3				-3			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 563154.43
Drilling Method	: Vibracore	Easting	: 1454346.98
Sampling Method	: Extraction	Elapsed Time	: 5 min.

Depth in Feet	Surf. Elev. 3.96	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.96	Samples	Sample No.	PID (ppm)
0		SW		SAND, loose to moderately dense, dry, grayish brown, medium, micaceous, trace silt, organic material to 0.5 feet, roots to 1.0 ft. Color transition to olive tan with oxidation mottling at 0.4.		X	Suite C	NT
1	3				3			
						X	Suite A	NT
2	2				2			
3	1			Slightly increasing silt content below 3.0 feet.	1			
				Color transition to gray at 3.4 feet.		X	Suite A	NT
4	0				0			
				Trace shell fragments from 4.8 to total depth.				
5	-1				-1			
6	-2				-2			
				Unrecovered interval.				
7	-3				-3			
8	-4				-4			

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-11

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562715.00
Drilling Method	: Vibracore	Easting	: 1454460.93
Sampling Method	: Extraction	Elapsed Time	: 7 min.

Depth in Feet	Surf. Elev. 2.53	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.53	Samples	Sample No.	PID (ppm)
0		SW		SAND, moderately dense, moist, fine, micaceous, some silt, some organic material to 0.75 feet, roots to 0.8 feet.		X	Suite C	NT
	2				2			
1				Oxidation mottling from 1.3 to 2.8 feet.				
	1				1	X	Suite A	NT
2				Color transition to gray at 2.3 feet.				
	0			Some shell fragments from 2.4 to 3.3 feet.	0			
3								
	-1				-1	X	Suite A	NT
4								
	-2				-2			
5								
	-3				-3			
6								
	-4				-4			
7				Unrecovered interval.				
	-5				-5			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562561.67
Drilling Method	: Vibracore	Easting	: 1453941.61
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 7.49	USCS Code	Hatching	Lithologic Description	Surf. Elev. 7.49	Samples	Sample No.	PID (ppm)
0								
	7	SW		SAND, loose, dry, fine, micaceous, roots to 1.5 feet, trace silt.	7	X	Suite C	NT
1								
	6				6	X	Suite A	NT
2								
	5				5			
3								
	4				4	X	Suite A	NT
4				Sand becoming moist at 4.1 feet.				
	3			Color transition to olive at 4.4 feet.	3			
5								
	2				2			
6								
	1			Unrecovered interval.	1			
7								
	0				0			
8								
	-1				-1			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-13

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562559.69
Drilling Method	: Vibracore	Easting	: 1453344.91
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 4.78	USCS Code	Hatching	Lithologic Description	Surf. Elev. 4.78	Samples	Sample No.	PID (ppm)
0		SW		SAND, loose, dry to moist, brown, medium, micaceous, subangular, roots to 1.2 feet, trace organic material to 1.0 ft., trace silt.		X	Suite C	NT
	4			Grading up to coarse, color transition to tan at 0.9 feet.	4			
1								
	3			Considerable oxidation mottling from 1.6 to 3.5 feet. Color transition to gray at 1.8 feet.	3	X	Suite A	NT
2								
	2			Color transition to olive gray at 2.6 feet.	2			
3								
	1	SP		SAND, dense, moist to wet, gray, fine to coarse, subangular, trace silt.	1	X	Suite A	NT
4								
	0				0			
5								
	-1			Unrecovered interval.	-1			
6								
	-2				-2			
7								
	-3				-3			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562360.77
Drilling Method	: Vibracore	Easting	: 1453947.21
Sampling Method	: Extraction	Elapsed Time	: 11 min.

Depth in Feet	Surf. Elev. 6.22	USCS Code	Hatching	Lithologic Description	Surf. Elev. 6.22	Samples	Sample No.	PID (ppm)
0	6	SW		SAND, loose to moderately dense, moist, grayish tan, medium, micaceous, subangular, trace silt, roots to 0.75 feet.	6	X	Suite C	NT
				Color transition to tan at 0.75 feet.				
1	5				5	X	Suite A	NT
2	4				4			
3	3				3	X	Suite A	NT
4	2				2			
5	1			Color transition to gray at 5.5 feet.	1			
6	0			Unrecovered interval.	0			
7	-1				-1			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-60-15

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/11/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 562348.503
Drilling Method	: Vibracore	Easting	: 1454627.331
Sampling Method	: Extraction	Elapsed Time	: 20 min.

Depth in Feet	Surf. Elev. 2.306	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.306	Samples	Sample No.	PID (ppm)
0	2	SC		CLAYEY SAND, dense, moist, dark brown, very fine, micaceous, some roots.	2		Suite C	NT
1	1	SM		SILTY SAND, loose, wet, tan, fine to medium, micaceous, lenses of oxidation and root channels.	1			
2	0				0			
3	-1			Color transition to very dark gray at 2.8 feet.	-1			
4	-2				-2		Dredge	NT
5	-3				-3			
6	-4				-4			
7	-5				-5			
8	-6			Considerable shell fragments from 8.2 to 8.5 feet.	-6			
9	-7				-7			
10	-8			Unrecovered interval.	-8			
11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-60-16

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 04/12/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: K. Kronschnabl	Northing	: 562395.614
Drilling Method	: Vibracore	Easting	: 1454331.999
Sampling Method	: Extraction	Elapsed Time	: 6 min.

Depth in Feet	Surf. Elev. 2.743	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.743	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, stiff, moist, brown with oxidized mottling, medium plasticity, fine sand, some organic (peat) and plant material.		X	Suite C	NT
	2	SM		SILTY SAND, moderately dense, wet, olive tan with red mottling, fine, micaceous, some shell fragments.	2			
1	1				1	X	Suite A	NT
2				Color transition to gray at 2.3 feet.				
	0				0			
3	-1				-1	X	Suite A	NT
4								
	-2				-2			
5								
	-3				-3			
6								
	-4			Unrecovered interval.	-4			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-61-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 8 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, very dark brown, fine to medium, micaceous, considerable rootlets.	0	X	Suite C	NT
1	-1	ML		SANDY SILT, soft, wet, vary dark gray, low plasticity, very fine micaceous sand.	-1			
2	-2	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-2	X	Suite A	NT
3	-3				-3			
4	-4				-4	X	Suite A	NT
5	-5	SW		SAND, loose, wet, tan with gray stratified lenses, medium, trace silt.	-5			
6	-6				-6			
				Unrecovered interval.				
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-61-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 02/18/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	: 563390.014
Drilling Method	: Vibracore	Easting	: 1452672.0
Sampling Method	: Extraction	Elapsed Time	: Not Recorded

Depth in Feet	Surf. Elev. 2.51	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.51	Samples	Sample No.	PID (ppm)
0	2	PT		ORGANIC SILT, soft, wet, dark brown, trace fine micaceous sand, some roots.	2		Suite C	NT
1	1	ML		SANDY SILT, soft, wet, olive gray, medium plasticity, fine micaceous sand.	1			
2	0	SM		SILTY SAND, loose to moderately dense, wet, dark gray, fine, micaceous.	0			
3	-1				-1		Dredge	NT
4	-2				-2			
5	-3				-3			
6	-4	SP		SAND, loose, wet, tan, medium to coarse, some shell fragments.	-4			
7	-5				-5			
8	-6				-6			
9	-7				-7			
10	-8				-8			
11	-9				-9			
12	-10			Considerable shell fragments from 13.0 to 13.2 feet.	-10			
13	-11	SM		SILTY SAND, loose, wet, gray, fine to moderately, micaceous.	-11			
14	-12				-12			
15	-13				-13			
16	-14	SW		SAND, loose, wet, gray, fine, micaceous, some shell fragments.	-14			
17	-15				-15			
18	-16				-16			
19	-17	SM		SILTY SAND, loose to moderately dense, wet, gray, fine.	-17			
20	-18	SP		SAND, loose, wet, dark gray, coarse with some gravel, some shell fragments.	-18			
21	-19				-19			
22	-20			Color transition to tan, grading down to medium with some stratified lenses of coarse sand, micaceous, subangular, trace silt.	-20			
23	-21				-21			
24	-22				-22			
25	-23				-23			
26	-24				-24			
27	-25				-25			
28	-26				-26			
29	-27				-27			
30								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-62-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 X 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 13 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, very dark gray, very fine to fine micaceous.	0	X	Suite C	NT
1	-1				-1			
2	-2	SW		SAND, loose, wet, gray, fine to medium, micaceous, trace silt.	-2	X	Suite A	NT
3	-3			Sand grading up to medium to course and color transition to tan at 2.7 feet.	-3			
4	-4				-4	X	Suite A	NT
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			
8	-8				-8			
9								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-62-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 03/30/99	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: 4 x 4 Truck
Logged By	: S. Lamothe	Northing	:
Drilling Method	: Vibracore	Easting	:
Sampling Method	: Extraction	Elapsed Time	: 9 min.

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0	0	SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, some organic material, trace rootlets to 1 inch.	0	X	Suite C	NT
1	-1	SW		SAND, loose, wet, gray, fine to medium, micaceous, trace silt	-1	X	Suite A	NT
2	-2			Grading up to medium to course from 2.0 to 2.9 feet, color transition to tan at 2.0 feet.	-2			
3	-3	SM		SILTY SAND, loose, wet, very dark gray, fine, micaceous.	-3	X	Suite A	NT
4	-4				-4			
5	-5				-5			
6	-6			Unrecovered interval.	-6			
7	-7				-7			
8								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-63-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 560964.434
Drilling Method	: Vibracore	Easting	: 1460496.068
Sampling Method	: Extraction	Elapsed Time	: NA

Depth in Feet	Surf. Elev. -2.809	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.809	Samples	Sample No.	PID (ppm)
0	-3	ML		SILT, very soft, wet, dark grayish black, medium plasticity, some fine micaceous sand, considerable organic material, strong hydrogen sulfide odor.	-3	X	Suite C	NT
1	-4			Sand content increasing with depth to a SANDY SILT at 1.25 ft., soft, wet, dark gray, coarse sand, micaceous, strong hydrogen sulfide odor.	-4			
				Decreasing sand content with depth -- grading down to silt.		X	Suite A	NT
2	-5				-5			
3	-6	SW		SILTY SAND, loose, wet, dark gray, fine micaceous sand.	-6			
						X	Suite A	NT
4	-7				-7			
5	-8				-8			
6	-9			Unrecovered interval.	-9			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-63-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 561097.191
Drilling Method	: Vibracore	Easting	: 1459768.686
Sampling Method	: Extraction	Elapsed Time	: 2 min.

Depth in Feet	Surf. Elev. -2.26	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.26	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SANDY SILT, very soft to soft, wet, dark gray to black, non-plastic, considerable organic material, some course sand, considerable hydrogen sulfide odor, plant material and detritus.		X	Suite C	NT
	-3				-3			
1		ML		SANDY SILT, very soft, wet, light gray, low plasticity, coarse micaceous sand, some lenses of organic material.		X	Suite A	NT
	-4				-4			
2		ML		SILT, soft, wet, gray, medium plasticity, trace fine sand.				
	-5				-5			
3						X	Suite A	NT
	-6				-6			
4								
	-7				-7			
5		SM		SILTY SAND, loose, moist, light gray, low plasticity, fine micaceous well sorted.				
				Unrecovered interval.				
	-8				-8			
6								
	-9				-9			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-63-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 561253.729
Drilling Method	: Vibracore	Easting	: 1460496.068
Sampling Method	: Extraction	Elapsed Time	: 4 min.

Depth in Feet	Surf. Elev. 3.045	USCS Code	Hatching	Lithologic Description	Surf. Elev. 3.045	Samples	Sample No.	PID (ppm)
0	3	ML		SILT, soft, moist to wet, dark brown, low plasticity, some roots.	3	X	Suite C	NT
1	2	ML		Some fine micaceous sand and strong hydrogen sulfide odor from 1.4 to 2.75 feet.	2	X	Suite A	NT
2	1	ML			1			
3	0	SW		SAND, loose, wet, dark gray, fine, micaceous, some silt.	0	X	Suite A	NT
4	-1	SW		Considerable shell fragments from 4.0 to 5.6 feet.	-1			
5	-2	SW			-2			
				Unrecovered interval.				
6	-3				-3			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING RD-66-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 11/02/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Crane
Logged By	: S. Lamothe	Northing	: 564337.695
Drilling Method	: Vibracore	Easting	: 1455277.381
Sampling Method	: Extraction	Elapsed Time	: 3 min.

Depth in Feet	Surf. Elev. -2.63	USCS Code	Hatching	Lithologic Description	Surf. Elev. -2.63	Samples	Sample No.	PID (ppm)
0								
	-3	ML		SILT, very soft, wet, dark brown, trace organic material, some rootlets.	-3	X	Suite C	1.3
1	-4				-4			
		SW		SAND, dense, wet, dark gray, fine, micaceous.		X	Suite A	0.1
2	-5				-5			
3	-6				-6	X	Suite A	0.3
4	-7				-7			
5	-8			Unrecovered interval.	-8			
6	-9				-9			
7								

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KINNETIC LABORATORIES INCORPORATED

LOG OF CORING DCRD-67-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Cored	: 12/18/98	Surveyed By	: Psomas, Inc.
Cored By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 563966.749
Drilling Method	: Vibracore	Easting	: 1453145.112
Sampling Method	: Extraction	Elapsed Time	: 15 min.

Depth in Feet	Surf. Elev. 2.011	USCS Code	Hatching	Lithologic Description	Surf. Elev. 2.011	Samples	Sample No.	PID (ppm)
0	2	PT		ORGANIC SILT, very soft to soft, wet, reddish brown, low plasticity, considerable sand, silt and organic material.	2		Suite C	NT
1	1	SM		SILTY SAND, loose, wet, tan, fine, micaceous, some plant material.	1			
2	0				0			
3	-1	SW		SAND, moderately dense, wet, tan, medium, micaceous, trace silt.	-1			
4	-2			Slightly coarser from 4.75 to 5 feet.	-2		Dredge	NT
5	-3	SM		SILTY SAND, dense, moist, gray, fine, micaceous, well sorted.	-3			
6	-4			Lens of shell fragments from 5.75 to 6 feet.	-4			
7	-5	SW		SAND, moderately dense, moist, gray, fine, micaceous.	-5			
8	-6	SC		SANDY CLAY, stiff, moist, gray, medium plasticity, lenses of moderately dense fine sand.	-6			
9	-7	SM		SILTY SAND, moderately dense, moist, gray, fine, micaceous, well sorted.	-7			
10	-8				-8			
11	-9	SP		SAND, moderately dense, moist, gray, fine to coarse, subangular, micaceous, trace silt and shell fragments.	-9			
12	-10	SM		SILTY SAND, dense, moist, gray, fine well sorted micaceous sand.	-10			
13	-11				-11			
14	-12				-12			
15	-13	SP		SAND, moderately dense, moist to dry below 16 feet, gray, fine to gravel, rounded, micaceous.	-13			
16	-14			Some shell fragments below 16 feet.	-14			
17	-15	SW		SAND, very dense, moist, yellow, fine, trace silt.	-15			
18	-16			Unrecovered interval.	-16			
19	-17				-17			
20	-18			Rejection at 20.4 feet.	-18			
21								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 563438
Collection Method	: Van Veen	Easting	: 1452216
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, black, wet, considerable surficial algal mat, shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-01.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 563335
Collection Method	: Van Veen	Easting	: 1452332
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, wet, dark gray, considerable surficial algal mat, shell fragments, some worms.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-02.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 563043
Collection Method	: Van Veen	Easting	: 1452276
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, black, considerable surficial algal mat, shell fragments, hydrogen sulfide odor.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-03.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: K. Kronschnabl	Northing	: 562681
Collection Method	: Van Veen	Easting	: 1452727
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, low plasticity, olive brown changing to black at 1 cm, some fine sand, anoxic.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-04.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/28/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 562246
Collection Method	: Van Veen	Easting	: 1452753
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, dark olive gray, fine micaceous sand, some shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-05.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/28/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 561883
Collection Method	: Van Veen	Easting	: 1453304
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, considerable shell fragments, algae mat on surficial sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-06.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/28/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 561934
Collection Method	: Van Veen	Easting	: 1453871
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, soft, wet, dark olive gray changing to dark gray at 1 inch, some fine micaceous sand, some small invertebrae and shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-07.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/28/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 561540
Collection Method	: Van Veen	Easting	: 1453831
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, loose, wet, dark gray, fine, micaceous, some shell fragments, algae mat on surface of sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/28/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 561516
Collection Method	: Van Veen	Easting	: 1454050
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, soft, wet, dark gray, algae mat on surficial sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 561240
Collection Method	: Van Veen	Easting	: 1454257
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, considerable shell fragments and bivalves, considerably thick algae mat on surficial sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-11

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 560630
Collection Method	: Van Veen	Easting	: 1454457
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, considerable shell fragments and bivalves.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-12

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 560437
Collection Method	: Van Veen	Easting	: 1454471
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, some shell fragments, algae mat on surficial sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-13

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 559939
Collection Method	: Van Veen	Easting	: 1454657
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, some shell fragments and bivalves, algae mat on surficial sediment.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Winch
Logged By	: S. Lamothe	Northing	: 559728
Collection Method	: Van Veen	Easting	: 1455152
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, dark gray, fine micaceous sand, considerable shell fragments, some bivalves.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-15

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 559731
Collection Method	: Van Veen	Easting	: 1455549
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, loose, wet, black, considerable surficial algal mat, some plant material, hydrogen sulfide odor.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07				Consistency changing to medium dense.				
.08								
.09								
.1								
.11								

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08-23-1999

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-16

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 559350
Collection Method	: Van Veen	Easting	: 1455365
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0				SANDY SILT, loose, wet, light brown changing to black at 1.0 cm, plant debris, some shell fragments, trace algae.				
.01								
.02								
.03								
.04								
.05		ML		Consistency changing to stiff with depth.			Suite C	NT
.06								
.07								
.08								
.09								
.1								
.11								

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08-23-1999

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-17

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 559337
Collection Method	: Van Veen	Easting	: 1456142
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, olive brown changing to black at 1.0 cm, fine sand, considerable surficial algal mat, some algae throughout.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-18

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 558967
Collection Method	: Van Veen	Easting	: 1456516
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, black, fine sand, considerable surficial algal mat, considerable hydrogen sulfide odor.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-19

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 558571
Collection Method	: Van Veen	Easting	: 1456568
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft, wet, light brown changing to black at 1.0 cm, fine sand, surficial algal mat, some live clams and shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07				Consistency changing to stiff at 0.075 meters.				
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-IB-20

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/27/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 558545
Collection Method	: Van Veen	Easting	: 1456923
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, light brown changing to black at approximately 1.0 cm, fine sand, surficial algal mat, hydrogen sulfide odor, some shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09				Consistency of SILT changing to medium stiff with increasing sand content at 10 cm.				
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-IB-20.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-01

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 566735
Collection Method	: Van Veen	Easting	: 1449812
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, wet, black changing to brown at approximately 0.02 cm, coarse, surficial algal mat and organic debris, decreasing silt content with depth.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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08-23-1999

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-02

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 566340
Collection Method	: Van Veen	Easting	: 1449866
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, very loose, wet, black, fine, considerable surficial algal mat with large shell fragments.				
.01								
.02								
.03		SP		SAND, brown, wet, coarse, shell fragments, trace silt, slight hydrogen sulfide odor.			Suite C	NT
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-OB-02.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-03

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 566048
Collection Method	: Van Veen	Easting	: 1449925
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft to medium stiff, wet, dark gray, considerable surficial algal mat, small shell fragments, amphipods and polychaetes.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-04

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 565830
Collection Method	: Van Veen	Easting	: 1450435
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft to medium stiff, wet, olive changing to black at 1.0 cm, fine sand, trace surficial algal mat.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-OB-04.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-05

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 565733
Collection Method	: Van Veen	Easting	: 1450555
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft to medium stiff, wet, olive changing to dark gray at 1.0 cm, fine sand, trace surficial algal mat, trace shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-06

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 565240
Collection Method	: Van Veen	Easting	: 1450443
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, very soft to medium stiff, wet, olive changing to dark gray at 1.0 cm, fine sand, trace organic debris and shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-07

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/98	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 565046
Collection Method	: Van Veen	Easting	: 1450753
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		PT		ORGANIC SILT, soft, wet, black, considerable surficial algal mat, trace fine sand, hydrogen sulfide odor.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-08

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 564437
Collection Method	: Van Veen	Easting	: 1451248
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SANDY SILT, soft, wet, gray, fine sand, considerable surficial algal mat, trace shell fragments, slight hydrogen sulfide odor.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-OB-08.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-09

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 564007
Collection Method	: Van Veen	Easting	: 1451444
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		SM		SILTY SAND, black, wet, coarse with some gravel, considerable surficial red algal mat, considerable shell fragments.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
.09				Trace silt.				
.1								
.11								

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KINNETIC LABORATORIES INCORPORATED

LOG OF SAMPLE RD-OB-10

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Log prepared by: ADH Technical Services, Inc.

Date Sampled	: 10/29/99	Surveyed By	: DGPS by KLI
Sampled By	: Kinnetic Labs., Inc.	Vessel	: Barge
Logged By	: K. Kronschnabl	Northing	: 563692
Collection Method	: Van Veen	Easting	: 1451792
Sampling Method	: Grab	Elapsed Time	: Not Applicable

Depth in Feet	Surf. Elev. 0	USCS Code	Hatching	Lithologic Description	Surf. Elev. 0	Samples	Sample No.	PID (ppm)
0		ML		SILT, very soft, wet, black, some fine sand, surficial algal mat, hydrogen sulfide odor, lens of anoxic material at 1.0 cm.			Suite C	NT
.01								
.02								
.03								
.04								
.05								
.06				Sand content increasing with depth, shell fragments from 6.0 cm to total depth.				
.07								
.08								
.09								
.1								
.11								

08-23-1999 C:\MTECH5\BOLSAL~1\RD-OB-10.BOR

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING OKOB-01

Location: Old KOBE

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1457796.98 feet
Drilling Method:	Vibracore	Northing:	556034.92 feet
Sampling Method:	Extraction	Ground Elevation:	14.36 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SP		SAND, loose, dry, light brown, fine to medium grain, micaceous, some silt. Abundant rootlets. (Fill)
		0.0 ppm		Suite B-mid		SC		SILTY CLAYEY SAND, very dense, medium brown, fine to medium grain. Some gravel, crumbly. (Fill) Some lenses of very hard consolidated petroleum, weathered.
		0.0 ppm		Suite B-bottom		SP		SAND, loose, dry, light brown, fine to medium, micaceous. (Fill)
10								
	5							

Comments:

Rejection at 4'.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-2-01

Location: Cell 49

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1455794.67 feet
Drilling Method:	Vibracore	Northing:	563908.87 feet
Sampling Method:	Extraction	Ground Elevation:	0.76 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILT, very stiff on top, turning soft with depth. Dry to 0.3', moist below. Dark brown to 0.5', tan below. Non-plastic on top, low to medium plasticity below 0.3'. Rust mottling, micaceous, trace fine sand near bottom.*
0								
		0.0 ppm		Suite A		SM		*SILTY SAND, moderately dense, moist, fine, tan to 2.6', grey below, micaceous, well sorted. 1" layer of silt at 3.5', hydrocarbon odor around 2.5' with a thin layer of oily looking sand.*
	5							
-5		0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A-01

Location: Cell 48

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1455967.79 feet
Drilling Method:	Vibracore	Northing:	564026.53 feet
Sampling Method:	Extraction	Ground Elevation:	-0.35 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY SILT, moist, tan to 2', grey below, rust mottling to 2.2'. Medium to low plasticity. Oxidized plant material.*
		0.0 ppm		Suite A		SW		*SAND, moderate density, moist, grey, fine, micaceous. Some silt near top of interval, thin layers of silt or clay at 4.9' and 5.7'.*
-5	5	0.0 ppm		Suite B				

Comments:

Duplicate samples taken

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A10-01

Location: Cell 46

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1456570.54 feet
Drilling Method:	Vibracore	Northing:	562648.12 feet
Sampling Method:	Extraction	Ground Elevation:	0.80 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY CLAYEY SILT, stiff, dry, brown, non-plastic, fine sand, plant roots.*
0						CL		*CLAY, stiff, moist, brown, medium to high plasticity.*
								Missing interval.
						ML		*SANDY SILT or CLAY, stiff, slightly moist, brown, low plasticity. Sand is fine.*
		0.0 ppm		Suite A		SM		*SILTY SAND, gradually turning to all sand at bottom. Moderate density, moist, tan with rust mottling to 3.2', grey below, rust mottling extends to 4.3'. Fine, micaceous, well sorted, few shell fragments from 4.5' to 5'.*
	5							
-5		0.0 ppm		Suite B				

Comments:

First 1' with hand core.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A3-01

Location: Cell 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459891.59 feet
Drilling Method:	Vibracore	Northing:	559455.63 feet
Sampling Method:	Extraction	Ground Elevation:	-0.23 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SILT, soft, wet, 1 cm layer of black organics on top, tan with rust mottling, some plant roots.* *SANDY SILT, soft, moist, tan, low to medium plasticity. Sand is fine, micaceous.* *SILT, soft, moist, tan with rust mottling. Oxidized root channels. Wet from 2' to 2.5'.*
		0.0 ppm		Suite A		SM		*SILTY SAND, moderate density, moist, fine, micaceous, well sorted, tan to 3.8', dark grey below.*
-5	5	0.0 ppm		Suite B		SW		*SAND, moderate density, moist, dark grey, fine to medium grain, micaceous, well sorted.*

Comments:

Duplicate samples taken.
Collected a hand core 0-6" to go with main core.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A4-01

Location: Cell 26

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459927.92 feet
Drilling Method:	Vibracore	Northing:	559275.88 feet
Sampling Method:	Extraction	Ground Elevation:	2.48 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, dense, dry to slightly moist, light brown with a layer of red from 0.2' to 0.3'. Sand is fine, non-plastic, trace micaceous. Some pebbles, considerable plant roots.*
0		0.0 ppm		Suite A		SP		*SAND and SILTY SAND layers, alternately tan and black, dense to very hard, multigrain size. Some organic silt in places, dry. Heavy hydrocarbons (asphalted sand) in the black layers. Some small rock. Slight hydrocarbon odor.*
								White rock.
	5	0.0 ppm		Suite B		ML		*SANDY SILT, soft, moist, medium plasticity. Sand is fine, micaceous. Grey with black mottling throughout. Only a trace of sand between 4' and 5'.*
-5								

Comments:

1.6' and 2.5' pre-bores

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A7-01

Location: Cell 36

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460792.00 feet
Drilling Method:	Vibracore	Northing:	557264.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.58 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*SANDY SILT, loose to 0.5', stiff from 0.5' to 2', soft below 2'. Brown to 1', black from 1' to 1.8' and 2.8' to 3.8' with grey and black mottling in between. Sand is medium grain with some coarse plant roots to 2'. Strong H2S and hydrocarbon odor, low plasticity.*
0		0.0 ppm		Suite A		ML		
	5	0.0 ppm		Suite B				*SILT, soft, moist, grey and black layering, low plasticity. Strong hydrocarbon odor, considerable oil around 4.7', layer of oil and plant material from 3.2' to 3.6', layer (1") of peat at 5.8'. Oil appears to disappear around 5.8'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A8(1)-01

Location: Cell 36

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Jonnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457999.58 feet
Drilling Method:	Vibracore	Northing:	561784.06 feet
Sampling Method:	Extraction	Ground Elevation:	-0.36 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense on top, less dense with depth, fine, micaceous. Black to 0.3', tannish grey with rust mottling to 2', grey below. Asphalted with hydrocarbons to 0.5'.*
		0.0 ppm		Suite A		SW		*SAND, moderate density, moist, dark grey, micaceous, some silt in bottom 2', rust mottling to 3.8'.*
-5	5	0.0 ppm		Suite B				

Comments:

Duplicate samples taken

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A8(2)-01

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461000.00 feet
Drilling Method:	Vibracore	Northing:	557256.00 feet
Sampling Method:	Extraction	Ground Elevation:	1.96 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, loose to soft, wet, tannish grey, low plasticity. Sand is medium grain, micaceous. Plant roots. Becomes stiffer below 0.5'.*
0						SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, some peat.*
						ML		*SANDY SILT, soft, moist, grey, tan and black layering, low plasticity. Sand is medium grain, considerable peat. Slight H2S odor, maybe some hydrocarbons around 2'. Some mica.*
		0.0 ppm		Suite A		SM		*SILTY SAND, moderately dense, moist, brown, medium, well sorted, considerable peat, some mica.*
						ML		*SANDY SILT, soft, moist, grey, tan and black layering, low plasticity. Sand is meidium grain, considerable peat. Slight H2S odor. Some mica.*
	5	0.0 ppm		Suite B		SM		*SILTY SAND, moderate density, moist, brown, medium, well sorted. Considerable peat, some mica.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A8(2)-02

Location: Cell 42

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1461060.00 feet
Drilling Method:	Vibracore	Northing:	557310.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.54 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite A - top				*SANDY SILT, loose to 0.3', soft below, wet, top inch is black, grey below. Low plasticity, plasticity increases with depth. Considerable plant roots to 1', some plant roots to 2.5'--some small chunks of stiff silt embedded within. Strong H2S odor.*
0						ML		
		0.0 ppm		Suite A - mid				
								SILT, soft with a few stiff layers, wet, grey, black layer from 4' to 4.2', medium plasticity. Trace fine sand, micaceous. Metal foil at 3'.
						ML		
	5							
-5		0.0 ppm		Suite A - bottom				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-A9-01

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457128.05 feet
Drilling Method:	Vibracore	Northing:	562871.82 feet
Sampling Method:	Extraction	Ground Elevation:	0.24 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*ORGANIC SANDY SILT, stiff, dry, brown, non-plastic. Considerable vegetation.*
		0.0 ppm		Suite A		SM		*SILTY SAND, moderately dense, moist, tan to 4.2', grey below, fine, micaceous, well sorted, rust mottling to 4.2', dense layer of shell fragments between 4.8' to 5'. Vegetation to 1'.*
-5	5	0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-B-01

Location: Cell 45

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment -U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457480.50 feet
Drilling Method:	Vibracore	Northing:	561749.78 feet
Sampling Method:	Extraction	Ground Elevation:	3.55 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, dense, dry, tan to 1', black below, fine, micaceous. Layer of weathered oil (asphalt-like) on top 1". Material is asphalted together from 0.8' to 1.5'. Considerable plant material.*
		0.0 ppm		Suite A		SW		*SAND, moderate density, moist, grey to 2.3', tan to 4.8', dark grey below, fine, micaceous. Hydrocarbons to 2' with odor, also from 4.8' to 5'.*
0								
	5	0.0 ppm		Suite B				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-C-01

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	B. Boumeester	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458907.66 feet
Drilling Method:	Vibracore	Northing:	562048.38 feet
Sampling Method:	Extraction	Ground Elevation:	-0.29 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, stiff, moist, olive grey, very fine, micaceous. Some lenses of oxidation, medium plasticity. Top 2" very fine sand with some clay.*
		0.0 ppm		Suite A		SW		*SAND, loose, moist to wet, olive, very fine, micaceous, some lenses of oxidation. Silt percentage increases slightly to 3.5'.*
						CL		*SANDY CLAY, soft, wet, very dark grey, very fine, micaceous, sticky.*
-5	5	0.0 ppm		Suite B		SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous. Some lenses of oxidation to 4.3'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-C-02

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	B. Boumeester	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1458936.26 feet
Drilling Method:	Vibracore	Northing:	562180.22 feet
Sampling Method:	Extraction	Ground Elevation:	-0.52 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite A - top		SC		*CLAYEY SAND, dense, moist to wet, olive, very fine, micaceous, some oxidized root channels, medium plasticity.*
		0.0 ppm		Suite A - mid		SW		*SAND, loose, wet, olive, fine, micaceous, some oxidized root channels, some silt. Color transition to very dark grey at 3.5'.*
						CL		*SANDY CLAY, very soft, wet, dark grey, very fine, micaceous, medium plasticity.*
-5	5	0.0 ppm		Suite B		SM		*SILTY SAND, loose, wet, very dark grey, fine, micaceous, trace oxidized root channels to 4.2'.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-C-03

Location: Cell 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/6/2000	Surveyed By:	Psomas, Inc.
Cored By:	B. Boumeester	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1459080.23 feet
Drilling Method:	Vibracore	Northing:	562075.68 feet
Sampling Method:	Extraction	Ground Elevation:	-0.98 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite A - top		SC		*CLAYEY SAND, stiff, moist, dark olive, very fine, micaceous. Stratified layer of gravel from 0.5' to 0.6'.*
		0.0 ppm		Suite A - mid		SM		*SILTY SAND, loose, wet, olive, fine, micaceous, some silt. Some oxidized root channels to 4.5'. Stratified layer of dark grey silty sand from 2.9' to 3.0'. Color transition to dark grey at 3.8'.*
-5	5	0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-D-01

Location: Cell 43

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457550.49 feet
Drilling Method:	Vibracore	Northing:	561289.09 feet
Sampling Method:	Extraction	Ground Elevation:	-1.08 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		SILT, loose, saturated, grey, micaceous.
						SM		SILTY SAND, loose on top turning to moderately dense below. Tan with rust mottling to 2.2', grey below 2.2', fine, micaceous. Considerable shell fragments between 2.3' and 3.2'.
		0.0 ppm		Suite A				
-5						SW		SAND, moderate density, moist, grey, fine, micaceous. Considerable shell fragments between 4.2' and 4.8'.
	5	0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-E-01

Location: Cells 39, 40

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459395.63 feet
Drilling Method:	Vibracore	Northing:	561244.98 feet
Sampling Method:	Extraction	Ground Elevation:	-0.99 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		OL		*SANDY SILT, soft, moist, dark brown, low plasticity. Considerable plant material, trace mica.*
						ML		*SILT, soft, moist, light grey, trace fine sand, medium plasticity, micaceous. Rust oxidized material throughout.*
		0.0 ppm		Suite A		SM		*SILTY SAND, moderate density, moist, fine, micaceous, well sorted. Thin layer (1") of soft silt at 5.8'. Considerable shell fragments below 6'.*
-5	5	0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-F-01

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459175.73 feet
Drilling Method:	Vibracore	Northing:	560819.97 feet
Sampling Method:	Extraction	Ground Elevation:	1.31 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		OL		SANDY SILT, soft, moist, black, low plasticity, organic rich.
						SP		SAND, loose, wet, medium and coarse grain, light tannish grey with couple of rust streaks. Some plant material, micaceous.
						ML		SANDY SILT, stiff, moist, dark brown, micaceous, medium plasticity, trace of plant material.
0								SAND, loose, wet, fine to coarse grain, poorly sorted. Some small pebbles, trace silt, some small shell fragments. Tan and rust layering.
						SP		
		0.0 ppm		Suite A				
								SANDY SILT which gradually turns to silty sand. Moderate density, moist, dark grey with black mottling to 3.5'. Medium plasticity which decreased with depth. Shell fragments around 6', micaceous. Slight H2S odor.
						ML		
	5							
		0.0 ppm		Suite B				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-F-02

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459148.00 feet
Drilling Method:	Vibracore	Northing:	560792.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite A - top		ML		*SILT, loose with chunks to 1', soft to stiff below. Wet to 1', moist below. Dark brown to 1', light brown below. Rust (oxidation) mottling below 1' with small chunks of oxidized material, micaceous.*
0								
		0.0 ppm		Suite A - mid		SM		*SILTY SAND, moist, moderately dense, fine, micaceous, well sorted. Thin layer of silt at 2.3' to 4', oxidized root channels to 3.5'.*
	5							
-5		0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-G-01

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1459164.00 feet
Drilling Method:	Vibracore	Northing:	560556.00 feet
Sampling Method:	Extraction	Ground Elevation:	0.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SILTY CLAYEY SAND, dense, moist, mottled dark brown/black, very fine, micaceous, blocky. Degraded petroleum product, strong hydrocarbon odor.*
0								
						SP		*SAND, loose, wet, black, fine to coarse, some gravel, very oily and sticky.*
						SM		*SILTY SAND, loose, wet, dark grey, fine, micaceous, some globules of black petroleum, strong hydrocarbon odor.*
		0.0 ppm		Suite A		ML		*SANDY SILT, soft, wet, dark olive grey, very fine, micaceous, strong hydrocarbon odor.*
	5							*SILTY SAND, loose to moderately dense, wet, dark olive grey, fine, micaceous, strong hydrocarbon odor. Color transition to dark grey at 4.9'.*
-5		0.0 ppm		Suite B		SM		

Comments:

Sheen on water and around core.

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-H-01

Location: Cell 30

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/21/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1459144.00 feet
Drilling Method:	Vibracore	Northing:	560304.00 feet
Sampling Method:	Extraction	Ground Elevation:	-0.86 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		SC		*CLAYEY SILTY SAND, soft, wet, dark olive grey, very fine, micaceous, low plasticity. Stratified layer of brown organic silt from 0.6' to 0.9'.*
		0.0 ppm		Suite A		SM		*SILTY SAND, loose to moderately dense, wet, dark olive grey, fine, micaceous. Some oxidized root channels to 1.5'. Color transition to dark grey at 2'.*
-5	5	0.0 ppm		Suite B				

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-L-01

Location: Cell 14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1459104.00 feet
Drilling Method:	Vibracore	Northing:	558943.93 feet
Sampling Method:	Extraction	Ground Elevation:	2.88 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		ML		*SANDY SILT, loose becoming soft, wet, brown, low plasticity. Large chunks of oxidized material, considerable plant material.*
								SAND, slightly dense, wet to moist, rust colored to 1.5', dark grey below, black mottling to 3', fine, micaceous. Some silt near top, decreasing with depth. Trace small shell fragments.
0		0.0 ppm		Suite A		SW		
	5	0.0 ppm		Suite B				
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-M-01

Location: Cell 14

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/25/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1458884.45 feet
Drilling Method:	Vibracore	Northing:	558871.51 feet
Sampling Method:	Extraction	Ground Elevation:	-1.54 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		ML		*SANDY SILT, wet, loose, greenish tan with black. Full of weathered chunks of oil and oiled vegetation. Sand is fine, micaceous. Hydrocarbon odor.*
		0.0 ppm		Suite A		SM		*SILTY SAND, moderate density, wet turning moist, grey, fine, micaceous, silt proportion varies in layers. Sand is oily to 1.8'. Hydrocarbon odor.*
-5	5	0.0 ppm		Suite B		SW		*SAND, moderate density, moist, fine, micaceous, grey. Layer of shell fragments around 4'.*
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-P-01

Location: Cell 1

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/26/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1457167.53 feet
Drilling Method:	Vibracore	Northing:	557295.47 feet
Sampling Method:	Extraction	Ground Elevation:	2.56 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, moderate density, wet, dark brown, fine, well sorted. Hydrocarbons with odor. Some plant material. Asphalted from 0.4' to 0.5'.*
						ML		*SILT, soft, moist, grey to dark black, medium plasticity, oily, hydrocarbon odor. Some plant material. Trace fine sand.*
0		0.0 ppm		Suite A		SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted, slight H2S odor.*
						ML		*SILT, soft, moist, grey, medium plasticity, trace fine sand, micaceous, some rust oxidation.*
	5					SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted, slight H2S odor.*
		0.0 ppm		Suite B		ML		*SILT, soft, moist, grey, medium plasticity, trace fine sand, micaceous, some rust oxidation.*
						SM		*SILTY SAND, moderate density, moist, grey, fine, micaceous, well sorted, slight H2S odor.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-R-01

Location: Cell 1A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1457728.36 feet
Drilling Method:	Vibracore	Northing:	556752.43 feet
Sampling Method:	Extraction	Ground Elevation:	4.20 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, wet, dark brown, fine to medium grain, some gravel (Fill).*
		0.0 ppm		Suite A		SC		*CLAYEY SAND, moderate density, wet, mottled dark brown/black, fine to medium grain, micaceous, some gravel.*
						CL		*SANDY CLAY, soft, wet, mottled olive grey/black, very fine, micaceous. Black petroleum globules.*
0						SC		*CLAYEY SAND, loose to moderately dense, wet, dark olive grey, very fine.*
	5	0.0 ppm		Suite B		SP		*SAND, loose to moderately dense, wet, grey, fine to medium grain, micaceous.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-S-01

Location: Cell 1A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1457712.22 feet
Drilling Method:	Vibracore	Northing:	556312.21 feet
Sampling Method:	Extraction	Ground Elevation:	8.60 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose, dry, light brown, fine, micaceous. Abundant rootlets, some gravel. (Fill) Blocky interspersed sand lenses from 0.8' to 2'.*
		0.0 ppm		Suite A		SC		*CLAYEY SAND, dense, moist, dark brown/black, very fine, micaceous. Color transition to yellow grey at 2.5'.*
5						OL		*ORGANIC SILT, loose, wet, dark brown decomposed woody material.*
						SC		*CLAYEY SAND, dense, wet, mottled black/brown/olive grey, very fine, micaceous.*
	5	0.0 ppm		Suite B		CL		*CLAY, soft, wet, mottled olive grey/brown. Lenses of petroleum (black). Strong hydrocarbon odor.*
0								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-T-01

Location: Cell 1A

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1457859.68 feet
Drilling Method:	Vibracore	Northing:	555655.71 feet
Sampling Method:	Extraction	Ground Elevation:	36.27 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C				*Degraded asphalt and sand, dense to moderately dense, dry, black/brown, fine to medium grain, some gravel.*
35		0.0 ppm		Suite A		SC		*CLAYEY SAND, very dense, dry, reddish brown, very fine to fine grain, micaceous. Very hard and consolidated.*
	5	0.0 ppm		Suite B				
30								

Comments:

3.1' and 3.3' pre-bores

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-U-01

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460464.08 feet
Drilling Method:	Vibracore	Northing:	560735.59 feet
Sampling Method:	Extraction	Ground Elevation:	0.84 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY SAND, loose to moderately dense, wet, brown, fine to coarse grain, poorly sorted. Considerable roots, some peat, numberous small (BB size) round pebbles.*
0						SP		*SAND, moderate density, moist to wet, orange brown to 2.7', black to dark grey below 2.7'. Fine, medium and coarse grain in alternating layers, mostly rounded grains, some subangular.* *Heavy hydrocarbon odor from 3' to 3.6'.* *Some pebbles, few large rocks*
		0.0 ppm		Suite A				
						ML		*SILT, soft, moist, grey with black and rust mottling, medium plasticity, trace fine sand, micaceous. Strong hydrocarbon odor.*
	5							*SAND, moderate density, moist, grey with streaks of black, fine, micaceous. Strong hydrocarbon odor.*
-5		0.0 ppm		Suite B		SW		

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-V-01

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/24/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	K. Kronschnabl	Easting:	1460695.06 feet
Drilling Method:	Vibracore	Northing:	560657.98 feet
Sampling Method:	Extraction	Ground Elevation:	-2.12 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SW		*SAND, moderate density, moist to wet, tan, medium grain, well sorted.*
						OL		*SILT, slightly stiff, moist, black brown, moderate plasticity, heavy in organics. Some plant material, trace sand.*
						ML		*SANDY SILT, soft to 1', firmer below with chunks. Medium plasticity, decreasing with depth. Silt is fine, micaceous.*
-5		0.0 ppm		Suite A		SM		*SILTY SAND, moderate density, moist, fine, micaceous, well sorted. Light grey with rust mottling to 5.3', dark grey below. Considerable shell fragments below 6'. Slight H2S odor near bottom.*
	5	0.0 ppm		Suite B				
-10								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-W-01

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1461031.34 feet
Drilling Method:	Vibracore	Northing:	560500.08 feet
Sampling Method:	Extraction	Ground Elevation:	1.64 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SC		*CLAYEY SAND, very dense, moist, dark brown, very fine, micaceous.*
						SP		*SAND, loose, moist, tan, fine to medium grain, some gravel.*
0						SC		*CLAYEY SAND, dense, moist, olive grey/tan, fine to medium grain, some gravel.*
		0.0 ppm		Suite A		OL		*ORGANIC SANDY CLAY, dense, moist, very dark brown, very fine, micaceous.*
						SW		*SAND, loose, moist, tan, very fine, micaceous, trace silt.*
	5					SC		*CLAYEY SAND, dense, moist, dark olive grey, very fine, micaceous.*
						SW		*SAND, moderate density, moist, tan, very fine, micaceous, abundant oxidation.*
		0.0 ppm		Suite B		CL		*SANDY CLAY, dense, wet, dark olive grey, very fine, micaceous, medium plasticity. Some oxidized root channels.*
-5						SM		*SILTY SAND, moderate density, wet, dark grey, fine, micaceous. Some oxidized root channels.*

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-X-01

Location: Cell 37

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1461000.12 feet
Drilling Method:	Vibracore	Northing:	561104.36 feet
Sampling Method:	Extraction	Ground Elevation:	1.10 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, loose to dense, dry to moist, dark brown, very fine, micaceous, some gravel. Some roots to 1.3'. Hard consolidated weathered petroleum product from 1' to 1.2'.*
0								
		0.0 ppm		Suite A		SW		*SAND, loose to moderately dense, moist, light tan, very fine, micaceous.*
						SC		*CLAYEY SAND, moderate density, moist, olive grey, very fine, micaceous.*
						SW		*SAND, loose to moderately dense, moist, tan, very fine, micaceous. Abundant lenses of oxidation.*
						SC		*CLAYEY SAND, moderate density, wet, brown/olive grey, very fine, micaceous, low plasticity. Some oxidized root channels.*
	5	0.0 ppm		Suite B		SM		*SILTY SAND, moderate density, wet, grey, fine, micaceous. Some oxidized root channels.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-Y-01

Location: Cell 35

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/27/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	Crane
Logged By:	S. Lamothe	Easting:	1461151.97 feet
Drilling Method:	Vibracore	Northing:	559992.27 feet
Sampling Method:	Extraction	Ground Elevation:	2.02 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
	0	0.0 ppm		Suite C		SM		*SILTY CLAYEY SAND, loose to dense, dry to moist, brown, fine to medium grain, some gravel and rocks to 1.5'.*
0		0.0 ppm		Suite A		SC		*CLAYEY SAND, dense, moist, mottled dark olive grey/light olive grey and brown, fine, micaceous, low to medium plasticity. Some lenses of oxidation. Lenses of black petroleum product from 1.1' to 1.4'.*
	5	0.0 ppm		Suite B		SM		*SILTY SAND, moderate density, wet, olive grey, fine, micaceous. Some lenses of oxidation. Heavy oxidation from 6' to 6.3'.*
-5								

Comments:

KINNETIC LABORATORIES INCORPORATED

LOG OF CORING S-Z-01

Location: Cell 34

Bolsa Chica Lowland Confirmatory Sampling and Ecological Risk Assessment
-U.S. Fish and Wildlife Service-

Date Cored:	4/20/2000	Surveyed By:	Psomas, Inc.
Cored By:	S. Johnson	Vessel:	4 X 4 Truck
Logged By:	S. Lamothe	Easting:	1460697.18 feet
Drilling Method:	Vibracore	Northing:	559883.26 feet
Sampling Method:	Extraction	Ground Elevation:	-0.75 feet

Elevation (feet)	Depth (feet, bgs)	Photoionization Detector (PID)	PID Interval	Sample Type	Sample Interval	USCS Code	Graphic Symbol	Lithologic Description
0	0	0.0 ppm		Suite C		CL		*SANDY CLAY, stiff, wet, dark brown/black, very fine, micaceous, blocky. Abundant organics, strong hydrocarbon odor.*
		0.0 ppm		Suite A		SM		*SILTY SAND, loose to moderately dense, wet, dark olive grey, fine, micaceous. Some globules of black petroleum product.* *Decrease in silt percentage to depth.* *Color transition to mottled black/olive grey (petroleum) from 2.8' to 4.1'. Very strong hydrocarbon odor.* *Sheen on water on bottom of core.* *Abundant shells from 5.9' to 6'.*
-5	5	0.0 ppm		Suite B				

Comments: