RISBON-75

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	ND	ND	ND	ND	0.014	0.0375	1.1295275		0/N/N
5	0.0057	ND	0.0239	ND	0.68	0.018	0.0026379		0/N/N
8	ND	ND	ND	ND	ND	0.016	0.1375138		0/N/N

RISBON-46

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	0.0825	ND	ND				0/N/N
5	ND	ND	ND	ND	ND				0/N/N
10	0.0363	ND	ND	ND	ND				0/N/N

RISBON-45

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	ND	ND	ND	ND	ND				0/N/N
5	ND	ND	ND	ND	ND				0/N/N
10	ND	ND	ND	ND	ND				0/N/N

RISBON-78

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.012	ND	ND		ND		2.57756613		0/N/N
5	0.0013	ND	ND		ND	0.0009	0.0019974		0/N/N
10	0.0102	ND	0.0096				0.04749911		0/N/N

RISBON-77

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	0.0028	ND	ND		0.18745542		0/N/N
5	0.0025	ND	ND	ND	ND		0.02048861		0/N/N
10	0.0124	ND	ND	ND	ND		0.02773328		0/N/N

RISBON-76

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	ND	ND	ND	ND	0.0016				0/N/N
5	ND	ND	ND	ND	ND				0/N/N
10	0.0038	ND	ND	ND	ND				0/N/N

RISBON-13

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	ND	ND	0.0018				0/N/N
5	0.006	ND	ND	ND	ND				0/N/N
10	0.0072	ND	ND	ND	ND				0/N/N

RISBON-14

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	ND	ND	ND				0/N/N
5	0.006	ND	ND	ND	ND				0/N/N
10	0.0031	ND	ND	ND	ND				0/N/N

RISSON-30

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	ND	ND	0.0088	ND	ND	0.036			0/N/N

RISSON-41

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0.5				ND	ND	ND	0.01091	0.0005869	0/N/N

RISBON-12

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	ND		ND				0/N/N
5	0.0053	ND	ND		ND	0.0022			0/N/N
10	0.0073	ND	ND		ND				0/N/N

RISBON-51

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.012	ND	0.1528	ND	ND	0.3698 RI	0.2722024		0/N/M
5	0.0024	ND	ND	ND	ND	0.0405	2.2062245		0/N/N
10	0.0031	ND	ND	ND	ND	0.0692	1.7613444		0/N/N
20.5	ND	ND	ND	ND	ND	0.087			0/N/N
30.5	ND	0.22	ND	ND	ND	0.0737			0/N/N
35.75	ND	ND	ND	ND	ND	0.02			0/N/N

RISBON-50

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	ND	ND	ND				995/N/N
5	0.0202	ND	0.0176	ND	ND				0/N/N
10	0.0469	ND	0.0226	ND	ND				0/N/N

RISSON-42

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0.5				ND	ND	ND	0.002421	0.00061144	0/N/N

RISBON-49

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.0089	ND	0.0142	ND	ND				2415/N/L
5	0.0087	ND	0.0035	ND	ND				0/N/N
10	0.0091	ND	ND	ND	ND				0/N/N

RISBON-59

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
29	52.83	3.4	1.415	ND	0.9	0.79 RI			0/H/H

RISBON-57

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.0037	ND	ND	ND	ND	ND			0/N/N
5	0.0226	ND	0.0953	0.15	0.098	0.178		16.40863 I	0/N/L
10	ND	ND	0.0826	ND	ND	ND			0/N/N
20	ND	ND	ND	ND	ND	ND			0/N/N
33.5	0.0069	ND	ND	ND	ND	ND			0/N/N
34.50	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
44.5	ND	ND	ND	ND	ND	0.0047			0/N/N

RISBON-15

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.022	0.26	0.0195	0.064	0.012			1.26363387	0/N/N
5	0.0022	0.25	0.0093	ND	ND				0/N/N
10	0.002	0.74	0.1679	0.045	0.018				0/N/N

RISBON-84

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0.5	0.0069	ND	0.137	0.041	0.0153	0.079			0/N/N
5	ND	ND	0.0042	ND	0.0079	0.087			0/N/N
8	0.00625	ND	0.137	ND	ND	0.059			0/M/L
18	0.0044	ND	0.267	0.039	0.07025	0.054			0/N/N
30	0.00677	ND	0.0037	ND	ND	0.076			0/N/N
31.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -

RISBON-85

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0.5	ND	ND	0.019	ND	0.0415	ND			0/N/N
5	ND	ND	0.0034	ND	0.0397	ND			0/N/N
16	ND	ND	0.018	ND	0.0498	0.038			0/N/N
19.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
20	0.00253	ND	0.072	ND	0.04206	0.04			0/N/N
51	0.02256	ND	0.424 RI	ND	ND	ND			0/N/N

RISBON-48

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	0.0048	ND	ND				3.2/N/N
5	0.002	ND	0.005	ND	ND				0/N/N
10	ND	ND	0.0051	ND	ND				200/N/N

RISBON-83

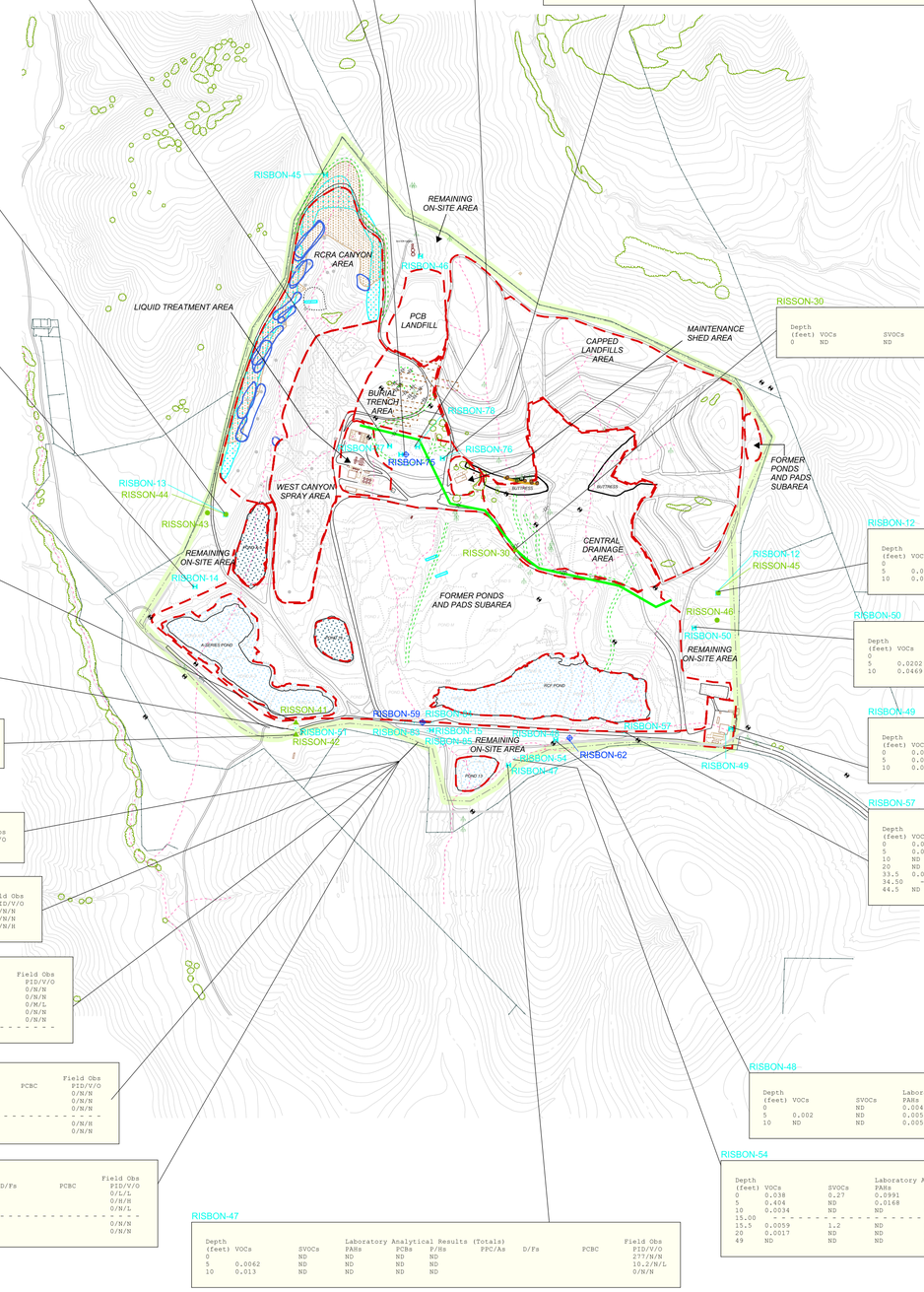
Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
10	0.00045	0.06	0.0023	ND	ND	0.14 R			0/L/L
20	0.00308	ND	ND	ND	ND	0.12			0/N/N
30	0.00289	ND	0.0015	ND	ND	0.225 RI			0/N/L
30.34	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
40	0.00042	ND	0.065	ND	ND	0.084			0/N/N
55	ND	ND	0.43 RI	ND	0.02	ND			0/N/N

RISBON-54

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0	0.038	0.27	0.0991	0.24 R	4.0109	0.042	ND		0/N/N
5	0.404	ND	0.0168	ND	4.9	0.238	0.9641046		0/N/N
10	0.0034	ND	ND	ND	6.232	0.041	0.0652954		0/N/N
15.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
15.5	0.0059	1.2	ND	ND	2.3	0.035			0/L/L
20	0.0017	ND	ND	ND	2.6	0.011			0/N/N
49	ND	ND	ND	ND	ND	0.036			0/N/N

RISBON-47

Depth (feet)	VOCs	SVOCs	Laboratory Analytical Results (Totals) PAHs	PCBs	P/Hs	PPC/As	D/Fs	PCBC	Field Obs PID/V/O
0		ND	ND	ND	ND				277/N/N
5	0.0062	ND	ND	ND	ND				10.2/N/L
10	0.013	ND	ND	ND	ND				0/N/N



Notes:

Laboratory Analytical Results

ND = None Detected

x.xx = Reported Concentration
- D/F in ng/kg
- All others in mg/kg

blank space = No Test Conducted at Particular Depth

Screening Level Exceedence

R = EPA Region 9 Residential PRG

r = Cal-Modified Residential PRG

I = EPA Region 9 Industrial PRG

i = Cal-Modified Industrial PRG

E = Lowest Ecological Screening Level

PID Field Observation (PID)

x.xx = Headspace Reading (ppmv)

Visual (V) and Odor (O) Field Observations

N = None

L = Light

M = Moderate

H = Heavy

- -

Water table encountered in borehole

Analytical Categories

VOCs = Summed Volatile Organic Compounds

SVOCs = Summed Semi-Volatile Organic Compounds

PAHs = Summed Polycyclic Aromatic Hydrocarbons

PCBs = Summed Polychlorinated Biphenyls

P/Hs = Summed Pesticides and Herbicides

PPC/As = Summed Poor-Purging Compounds and Alcohols

D/Fs = Dioxin/Furan TEQ

PCBC = PCB Congener TEQ

Explanation

Soil Sample Locations

- Surface Soil (Type 2)
- Surface to Shallow Soil (Type 3)
- Surface to Medium Soil (Type 4)
- Surface to Deep Soil - Groundwater and/or Contact if Encountered (Type 6)
- NAPL (Type 7)

Other Site Features

- Casmalia Site Boundary
- Study Area Boundary
- Piezometer
- Monitoring Well
- Clay Barrier Boring
- Former Injection Well (Surveyed March 25, 1987)
- Liquids Extraction Well
- Historical Soil Samples
- Perimeter Source Control Trench (Brierly & Lyman, 1989)
- Perimeter Control Trench (Brierly & Lyman, 1989)
- P/S Landfill Clay Barrier (1981 Photograph)
- Terraces and Surface Impoundments (Based on 10/06/83 & 07/06/84 Photos)
- Fence
- Historical Natural Drainage (Based on 1956 Photo, 1974 Topographic Maps, and Figures 21-2 and 21-3 Woodward-Clyde, 1988)
- Road Remnants
- Burial Trench Location Woodward Clyde (Figure A21-1-1, 1988)
- Historical Features
- Oil Field Waste Spreading Area Woodward Clyde (Figure A21-1-1, 1988)
- Oil Field Waste Spreading Area (Based on 1983, 1985/86 Photos)
- 1983 Spray Area
- Stormwater Pond
- Treated Liquid Impoundment
- Trench Location

Source: Topographic base map provided by Pacific Engineering, Inc. from aerial survey dated March 4, 2004.

0 600 1200

Scale in Feet

Figure B-16b

Summary Analytical Results and Field Observations Remaining On-Site Areas

Final Remedial Investigation Report

Casmalia Resources Superfund Site

January 2011

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