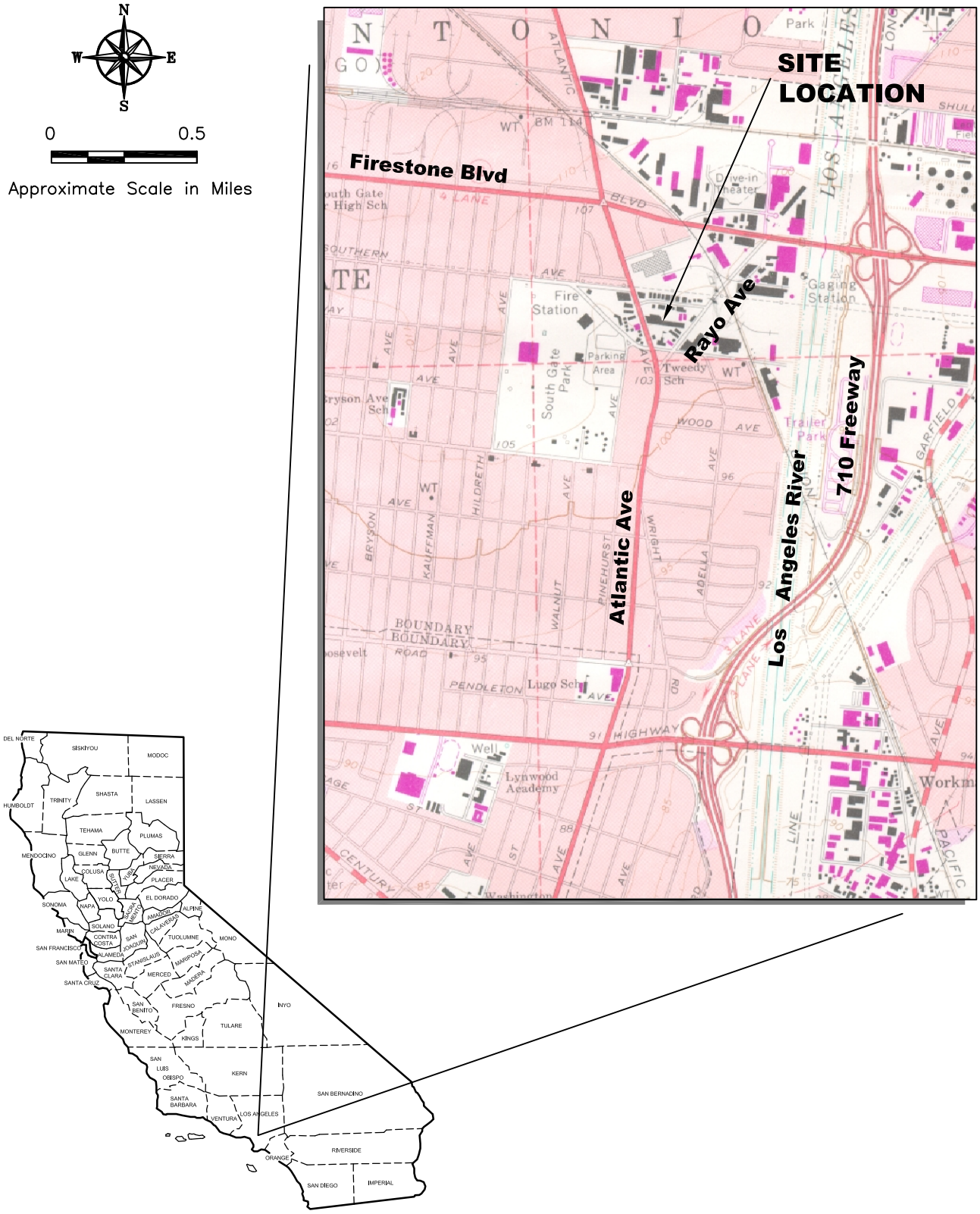

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FIGURE 1
Site Location Map

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_1_SLM.dwg Plotted:Jun 28, 2006 - 9:58am Last Save:Jun 28, 2006 - 9:52am

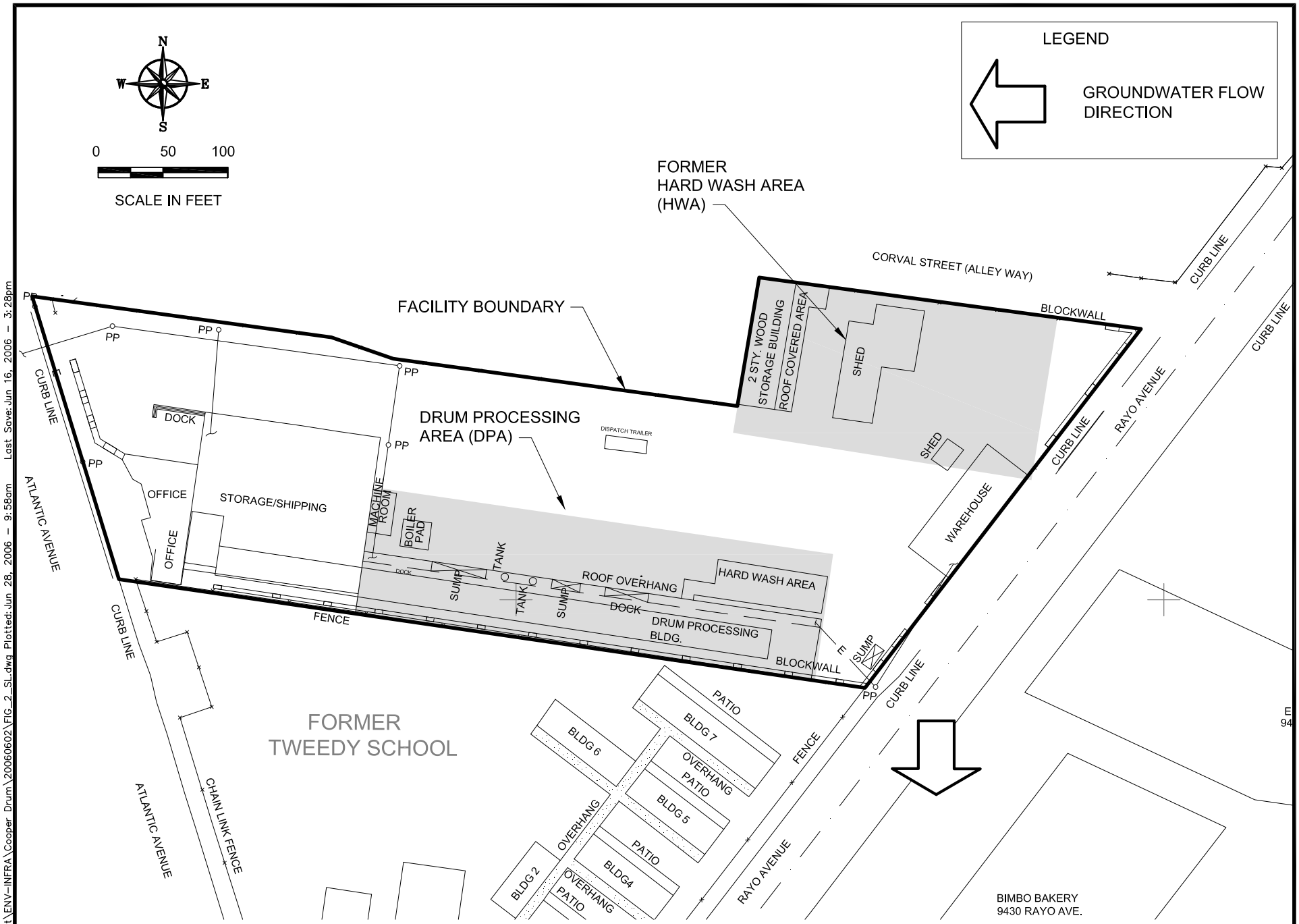

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FIGURE 2
Site Layout

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_2_SL.dwg Plotted: Jun 28, 2006 - 9:58am Last Save: Jun 16, 2006 - 3:28pm

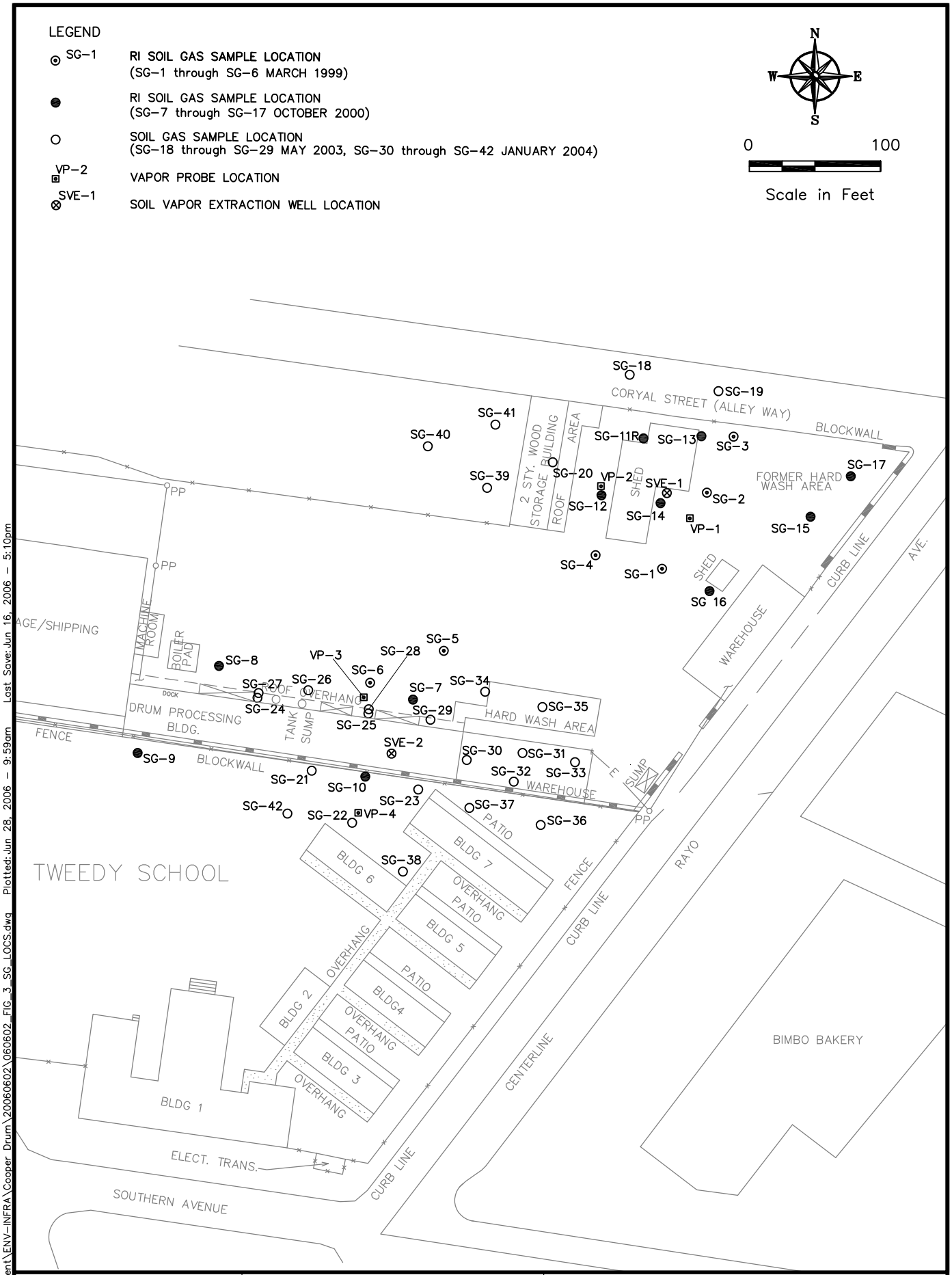

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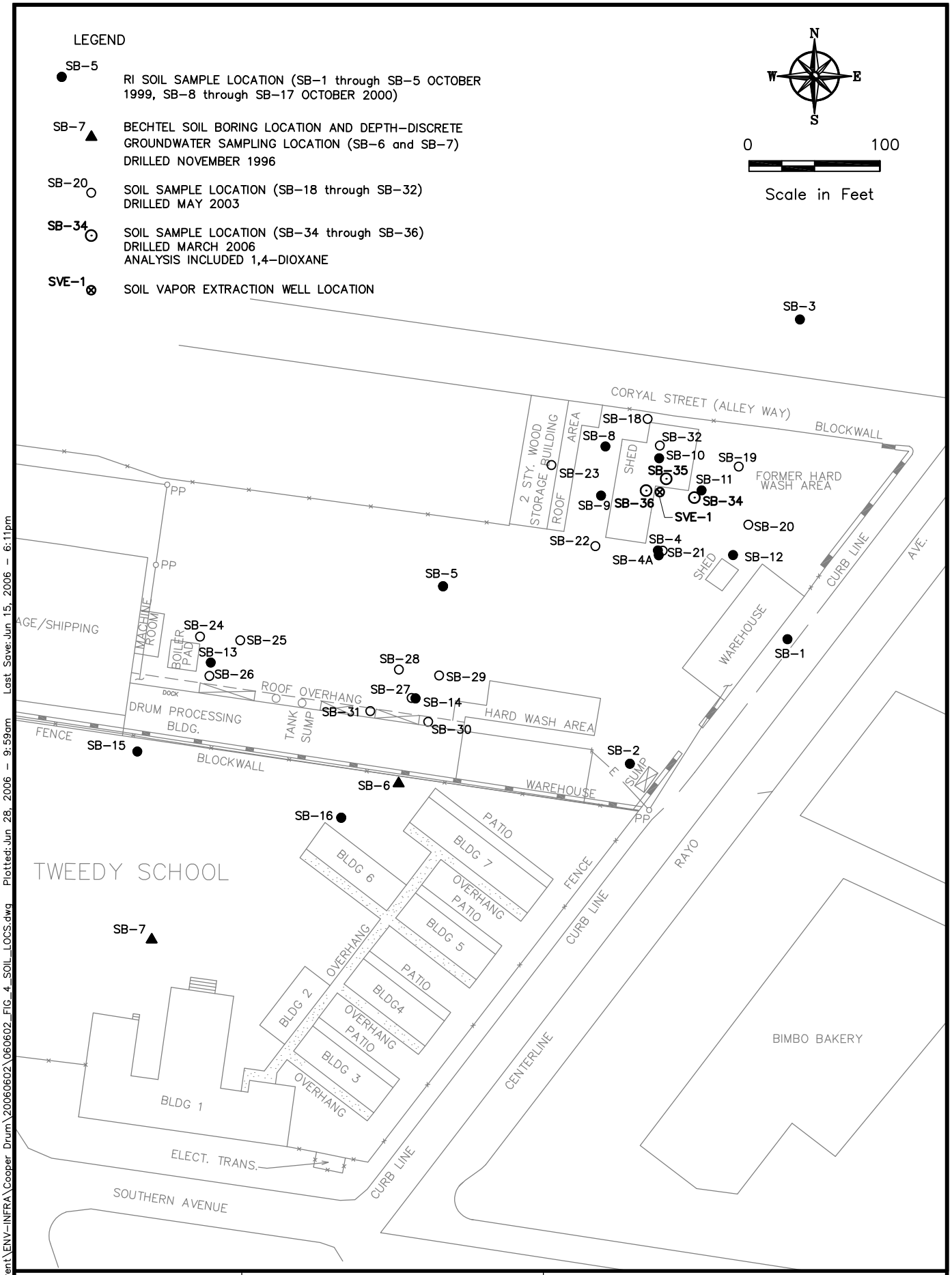
FIGURE 3
Soil Gas Sampling Locations

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_3_SG_LOCS.dwg Plotted:Jun 28, 2006 - 9:59am Last Save:Jun 16, 2006 - 5:10pm



H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_4_SOIL_LOCS.dwg Plotted: Jun 28, 2006 - 9:59am Last Save: Jun 15, 2006 - 6:11pm

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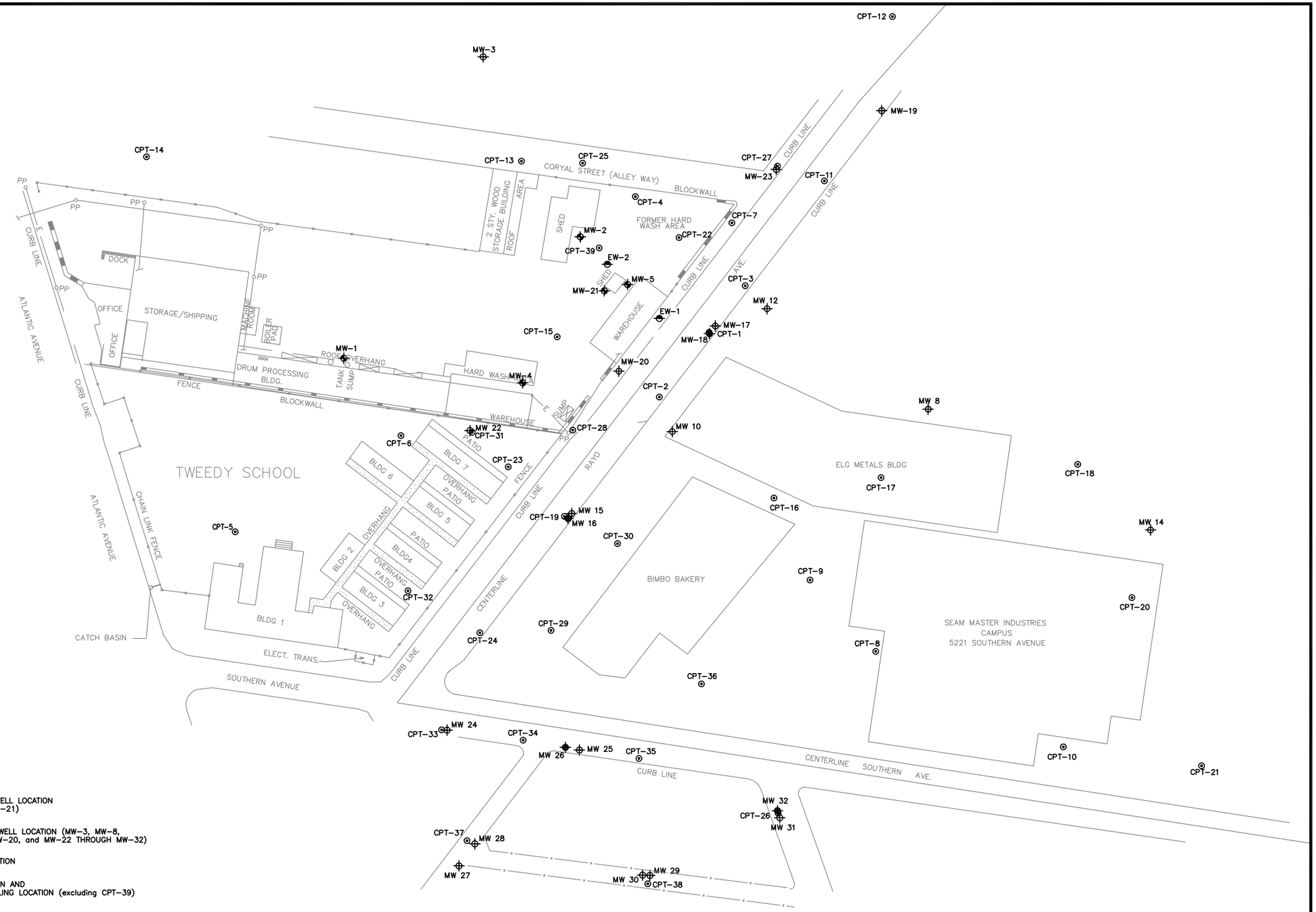
FIGURE 4
Soil Sampling Locations



LEGEND

- ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1, MW-2, MW-4, MW-5, and MW-21)
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION (MW-3, MW-8, MW-10, MW-12, MW-14 THROUGH MW-20, and MW-22 THROUGH MW-32)
- GROUNDWATER EXTRACTION WELL LOCATION
- CONE PENETROMETER TESTING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (excluding CPT-39)
- WELL COMPLETED IN DEEPER EXPOSITION AQUIFER (MW-16, MW-18, MW-26, MW-32)

N W E S

120 60 0 120 240

SCALE IN FEET

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FIGURE 5
Monitor Well and CPT/HydroPunch Boring Locations

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_5_CPT_WELL_LOCS.dwg Plotted:Jun 28, 2006 - 9:59am Last Save:Jun 26, 2006 - 12:15pm

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-18	10	12	3.2J	2J	46	113
	20	3J	ND	1J	26	62
	30	4J	ND	1J	30	76

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-11R	5	16,000	44,000	11,000	300	260

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-41	10	<4.5	<4.5	<4.5	<4.5	32
	20	<4.7	<4.7	<4.7	<4.7	15
	30	<4.8	<4.8	<4.8	8.7	44

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-40	10	<4.6	<4.6	<4.6	<4.6	12
	20	<4.4	<4.4	<4.4	<4.4	3.2J
	30	<4.6	<4.6	<4.6	14	57

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-39	10	<4.9	<4.9	<4.9	<4.9	3.3J
	20	<4.6	<4.6	<4.6	3.2J	17
	30	3.1J	2.2J	16	86	39

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-20	10	187	ND	30J	777	4,840
	20	466	38J	98J	1,295	2,640
	27	6,873	1,319	1,353J	18,504	22,002

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-12	10	2,600	1,200	26,000	7,000	16,000
	20	13,000	15,000	16,000	41,000	12,000
	30	760	560	1,500	2,000	720

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-4	15	2,200J	890J	4,200J	3,000J	3,000J
	25	6.9J	2.3J	12J	9.9J	10J
	35	6.5J	3.6J	9.5J	10J	7.3J
	45	6.7J	2J	14J	9J	5.7J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-1	15	44J	5.2J	110J	79J	57J
	25	11J	<2	17J	11J	5.9J
	35	<2	<2	3.4J	2.4J	3.5J
	35 (DUP)	<2	<2	<2	4.5J	<2
	45	8.2J	<2	32J	46J	2.1J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-19	10	1,154	ND	ND	389	1,100
	10 (DUP)	1,473	ND	ND	463	1,320
	20	120	ND	ND	80	205
	30	71	ND	ND	33	91

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-13	10	37,000	24,000	49,000	<320	<320
	20	6,200	4,900	4,600	270	110
	30	13,000	12,000	6,400	420	67

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-3	15	65J	<2	85J	12J	33J
	25	6J	<2	11J	3.6J	3.9J
	35	6,600J	1,200J	7,900J	6,000J	1,900J
	45	54J	5.4J	ND	55J	8.3J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-17	10	80	<17	110	2,500	4,600
	10 (DUP)	80	<17	100	2,400	4,200
	20	<0.88	<0.88	1.6	40	42
	30	<8.8	<8.8	12	2,600	160

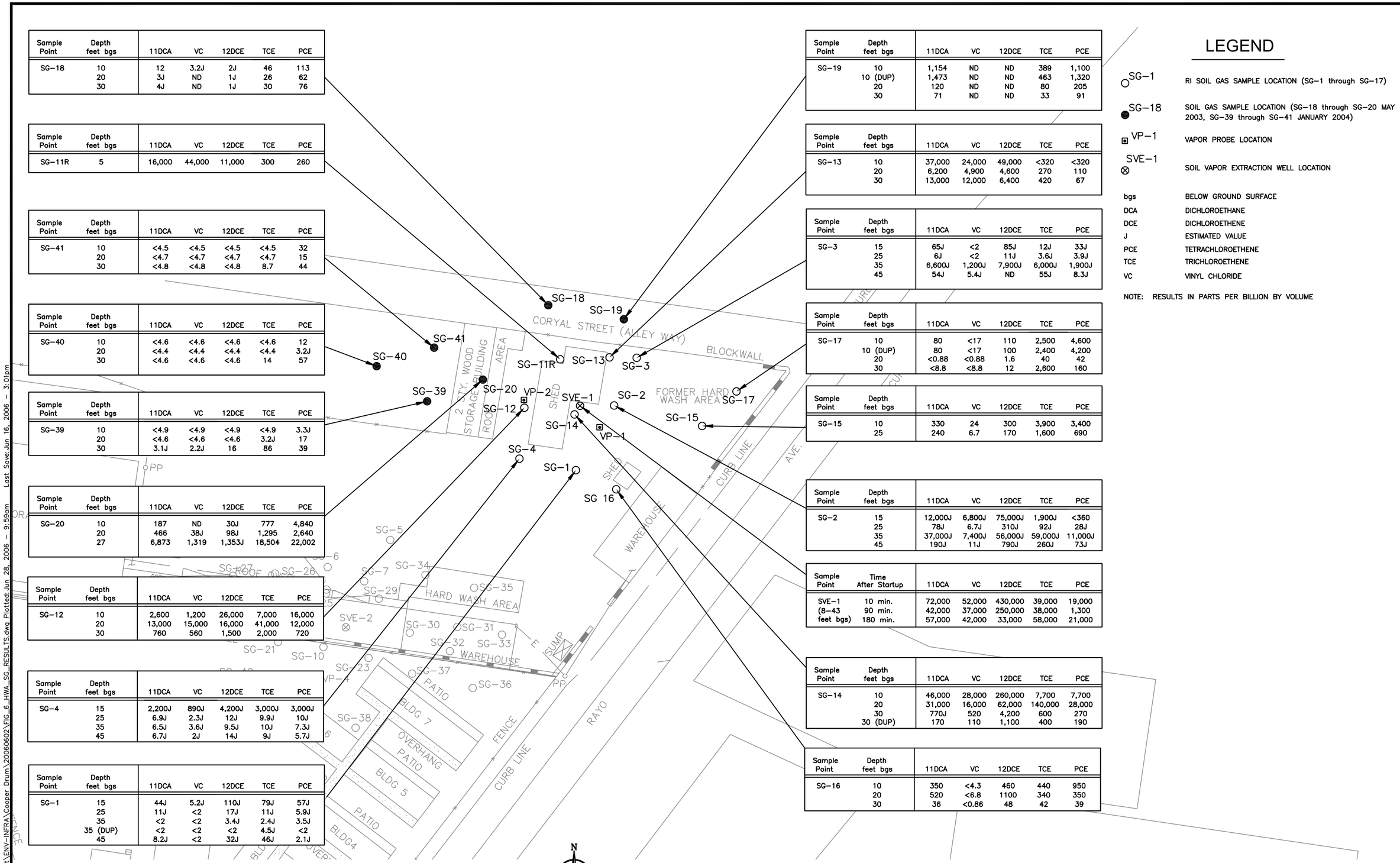
Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-15	10	330	24	300	3,900	3,400
	25	240	6.7	170	1,600	690

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-2	15	12,000J	6,800J	75,000J	1,900J	<360
	25	78J	6.7J	310J	92J	28J
	35	37,000J	7,400J	56,000J	59,000J	11,000J
	45	190J	11J	790J	260J	73J

Sample Point	Time After Startup	11DCA	VC	12DCE	TCE	PCE
SVE-1	10 min.	72,000	52,000	430,000	39,000	19,000
(8-43	90 min.	42,000	37,000	250,000	38,000	1,300
feet bgs)	180 min.	57,000	42,000	33,000	58,000	21,000

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-14	10	46,000	28,000	260,000	7,700	7,700
	20	31,000	16,000	62,000	140,000	28,000
	30	770J	520	4,200	600	270
	30 (DUP)	170	110	1,100	400	190

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-16	10	350	<4.3	460	440	950
	20	520	<6.8	1100	340	350
	30	36	<0.86	48	42	39



LEGEND

SG-1	RI SOIL GAS SAMPLE LOCATION (SG-1 through SG-17)
SG-18	SOIL GAS SAMPLE LOCATION (SG-18 through SG-20 MAY 2003, SG-39 through SG-41 JANUARY 2004)
VP-1	VAPOR PROBE LOCATION
SVE-1	SOIL VAPOR EXTRACTION WELL LOCATION
bgs	BELOW GROUND SURFACE
DCA	DICHLOROETHANE
DCE	DICHLOROETHENE
J	ESTIMATED VALUE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE

NOTE: RESULTS IN PARTS PER BILLION BY VOLUME

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South Gate, California

FIGURE 6
Soil Gas Sampling Results
Former Hard Wash Area

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_6_HWA_SG_RESULTS.dwg Plotted: Jun 28, 2006 - 9:59am Last Save: Jun 16, 2006 - 3:01pm

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-28	10	39,273	854J	426J	9,622	11,587
	20	7,609	2,483	170J	2,776	3,960
	30	4,909	1,319	115J	1,813	1,467

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-26	10	1,350	18.6J	10J	407	939
	10 (DUP)	1,448	17.5J	11J	426	909
	20	3,191	306	63J	1,036	748

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-8	10	11	<4.4	<4.4	24	1,200
	20	5.7	<1.8	2.3	7.1	22
	30	<0.98	<0.98	<0.98	1.1	18

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-27	10	61	ND	ND	133	1,349
	23	810	62J	17J	389	587

Sample Point	Depth feet-bgs	11DCA	VC	12DCE	TCE	PCE
SG-24*	12.5	204	7.7J	ND	278	953
	25	589	54	9J	146	220

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-25*	12.5	54,001	931J	526J	15,173	12,468

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-9	10	<0.88	<0.82	<0.82	<0.82	7.2

Sample Point	Time After Startup	11DCA	VC	12DCE	TCE	PCE
SVE-2 (8-48 feet bgs)	10 min.	160,000	600J	7,800	90,000	230,000
	30 min.	130,000	1,100	17,000	79,000	180,000
	100 min.	93,000	<2,100	9,500	52,000	150,000
	230 min.	77,000	<1,200	10,000	50,000	170,000

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-21	10	1,080	ND	ND	241	587
	20	10,800	1,086	155J	2,776	2,347
	30	23	0.8J	ND	15	29

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-42	10	40	<21	<21	<21	17J
	20	400	<23	<23	30	35
	30	100	26	7.8J	61	140

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-22	10	442	ND	ND	105	1,056
	10 (DUP)	466	ND	ND	98	1,056
	20	12,028	299J	105J	2,220	2,200
	30	5,646	144J	ND	833	352

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-38	10	22	<4.4	<4.4	5.1	51
	10 (DUP)	12	<4.4	<4.4	3J	31
	20	79	<4.4	<4.4	12	29
	30	4.7	<4.4	<4.4	<4.4	1.2J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-6	15	7,800J	1,200J	<180	570J	5,100J
	25	<2	<2	<2	<2	<2
	35	2.5J	<2	<2	<2	2.6J
	45	3J	<2	<2	<2	2.2J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-7	10	1,100	21	300	160	470
	20	960	<34	280	130	260

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-5	15	43J	<5.6	19J	62J	27J
	25	<2	<2	<2	<2	<2
	25 (DUP)	<2	<2	<2	2J	<2
	35	<2	<2	<2	<2	<2
	45	<2	<2	3.9J	3J	2.6J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-29	10	49,092	543J	376J	22,205	42,536
	20	5,155	466J	70J	2,035	2,200
	30	14,482	2,638	276J	6,661	3,520

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-34	10	2.7J	<4.2	<4.2	6.4	14
	20	1.6J	<4.3	<4.3	2.2J	1.7J
	20	27	4.4	5.2	19	9
	30	280	200	34	260	27

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-35	10	0.95J	<5.0	<5.0	3.2J	36
	20	0.66J	<4.4	<4.4	1.6J	1.3J
	30	12	10	11	36	1.6J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-30	10	9.6	<4.5	<4.5	6.2	17
	20	150	6.7	3.7J	78	87
	30	510	53	16J	230	170
	30	340	43	13J	160	100

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-31	10	<4.6	<4.6	<4.6	<4.6	11
	20	5.8	<4.8	<4.8	2.4J	5.1
	30	24	14	2.9J	24	4.1J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-33	10	<4.6	<4.6	<4.6	<4.6	13
	20	<4.7	<4.7	<4.7	<4.7	1.7J
	30	0.84J	0.84J	0.82J	6.3	1J

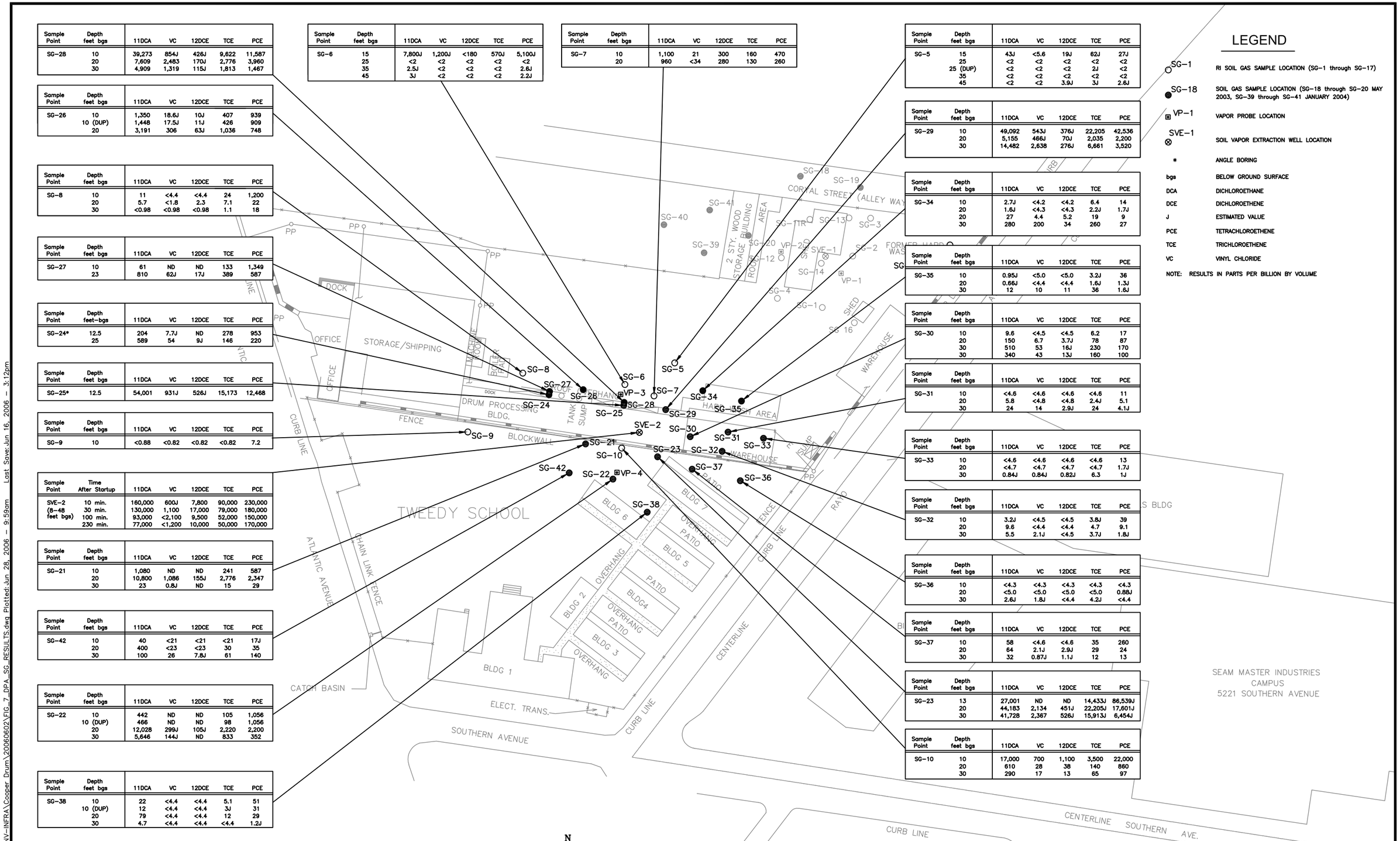
Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-32	10	3.2J	<4.5	<4.5	3.8J	39
	20	9.6	<4.4	<4.4	4.7	9.1
	30	5.5	2.1J	<4.5	3.7J	1.8J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-36	10	<4.3	<4.3	<4.3	<4.3	<4.3
	20	<5.0	<5.0	<5.0	<5.0	0.88J
	30	2.6J	1.8J	<4.4	4.2J	<4.4

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-37	10	58	<4.6	<4.6	35	260
	20	64	2.1J	2.9J	29	24
	30	32	0.87J	1.1J	12	13

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-23	13	27,001	ND	ND	14,433J	86,539J
	20	44,183	2,134	451J	22,205J	17,601J
	30	41,728	2,367	526J	15,913J	6,454J

Sample Point	Depth feet bgs	11DCA	VC	12DCE	TCE	PCE
SG-10	10	17,000	700	1,100	3,500	22,000
	20	610	28	38	140	860
	30	290	17	13	65	97



LEGEND

SG-1	RI SOIL GAS SAMPLE LOCATION (SG-1 through SG-17)
SG-18	SOIL GAS SAMPLE LOCATION (SG-18 through SG-20 MAY 2003, SG-39 through SG-41 JANUARY 2004)
VP-1	VAPOR PROBE LOCATION
SVE-1	SOIL VAPOR EXTRACTION WELL LOCATION
*	ANGLE BORING
bgs	BELOW GROUND SURFACE
DCA	DICHLOROETHANE
DCE	DICHLOROETHENE
J	ESTIMATED VALUE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE

NOTE: RESULTS IN PARTS PER BILLION BY VOLUME

N W E S

100 50 0 100 200

SCALE IN FEET

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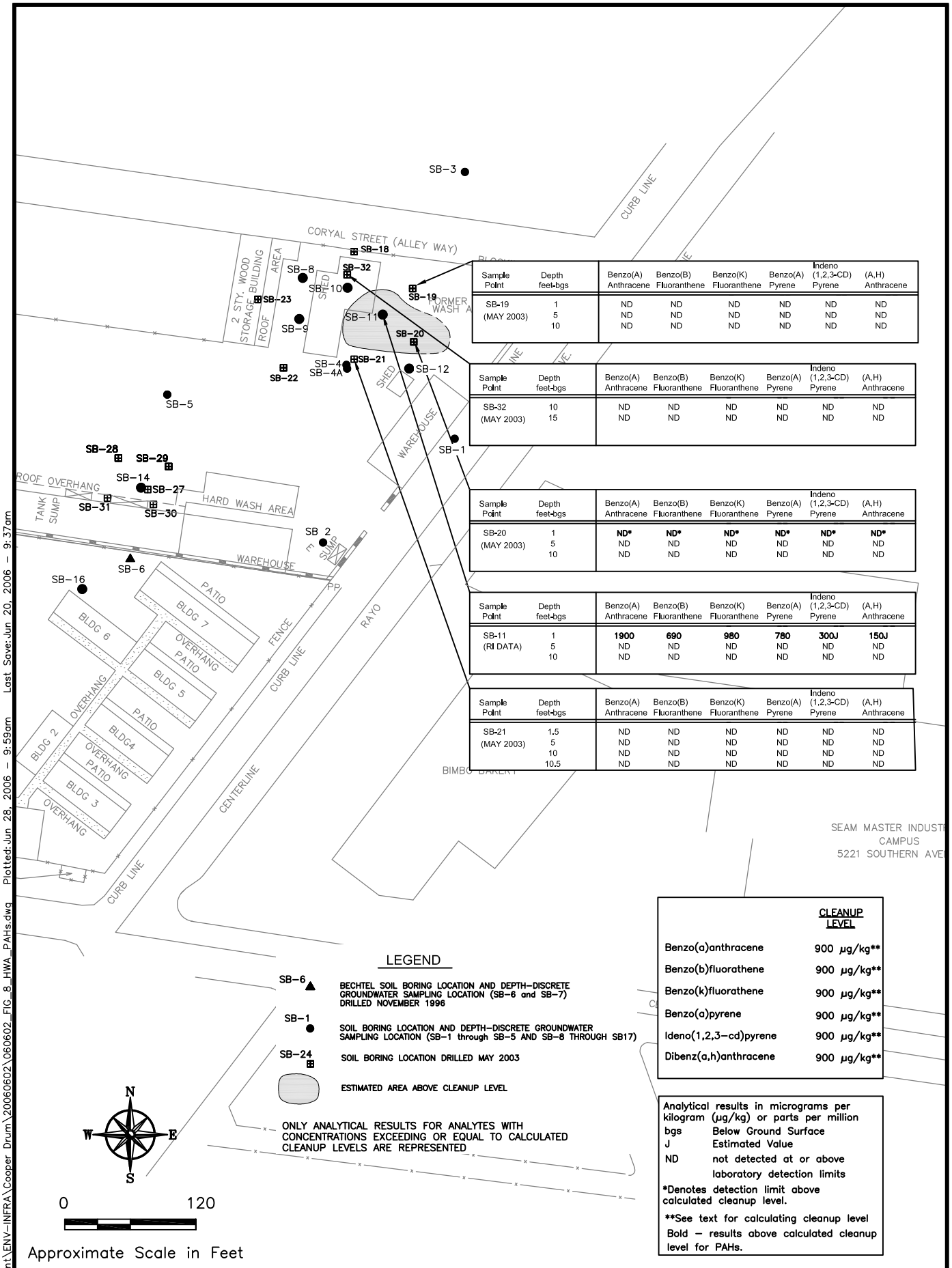
South Gate, California

FIGURE 7
Soil Gas Sampling Results
Drum Processing Area

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_7_DPA_SG_RESULTS.dwg Plotted:Jun 28, 2006 - 9:59am Last Save:Jun 16, 2006 - 3:12pm



Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	(A,H) Anthracene
SB-19	1	ND	ND	ND	ND	ND	ND
(MAY 2003)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	(A,H) Anthracene
SB-32	10	ND	ND	ND	ND	ND	ND
(MAY 2003)	15	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	(A,H) Anthracene
SB-20	1	**ND***	**ND***	**ND***	**ND***	**ND***	**ND***
(MAY 2003)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	(A,H) Anthracene
SB-11	1	**1900**	**690**	**980**	**780**	**300J**	**150J**
(RI DATA)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	(A,H) Anthracene
SB-21	1.5	ND	ND	ND	ND	ND	ND
(MAY 2003)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND
	10.5	ND	ND	ND	ND	ND	ND

LEGEND

SB-6 ▲ BECHTEL SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-6 and SB-7) DRILLED NOVEMBER 1996

SB-1 ● SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-1 through SB-5 AND SB-8 THROUGH SB17)

SB-24 ⊞ SOIL BORING LOCATION DRILLED MAY 2003

ESTIMATED AREA ABOVE CLEANUP LEVEL

ONLY ANALYTICAL RESULTS FOR ANALYTES WITH CONCENTRATIONS EXCEEDING OR EQUAL TO CALCULATED CLEANUP LEVELS ARE REPRESENTED

	CLEANUP LEVEL
Benzo(a)anthracene	900 µg/kg**
Benzo(b)fluorathene	900 µg/kg**
Benzo(k)fluorathene	900 µg/kg**
Benzo(a)pyrene	900 µg/kg**
Ideno(1,2,3-cd)pyrene	900 µg/kg**
Dibenz(a,h)anthracene	900 µg/kg**

Analytical results in micrograms per kilogram (µg/kg) or parts per million

bgs Below Ground Surface

J Estimated Value

ND not detected at or above laboratory detection limits

*Denotes detection limit above calculated cleanup level.

**See text for calculating cleanup level

Bold – results above calculated cleanup level for PAHs.

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_8_HWA_PAHs.dwg Plotted: Jun 28, 2006 – 9:59am Last Save: Jun 20, 2006 – 9:37am

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South Gate, California

FIGURE 8
Soil Sampling Results - PAHs
Former Hard Wash Area

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-32 (MAY 2003)	10	82	ND
	15	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-18 (MAY 2003)	1	ND	ND
	4	ND	ND
	5	ND	ND
	10	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-10 (RI DATA)	1	330	160NJ
	5	ND	ND
	10	**2100NJ**	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-19 (MAY 2003)	1	ND	ND
	5	ND	ND
	10	ND	ND

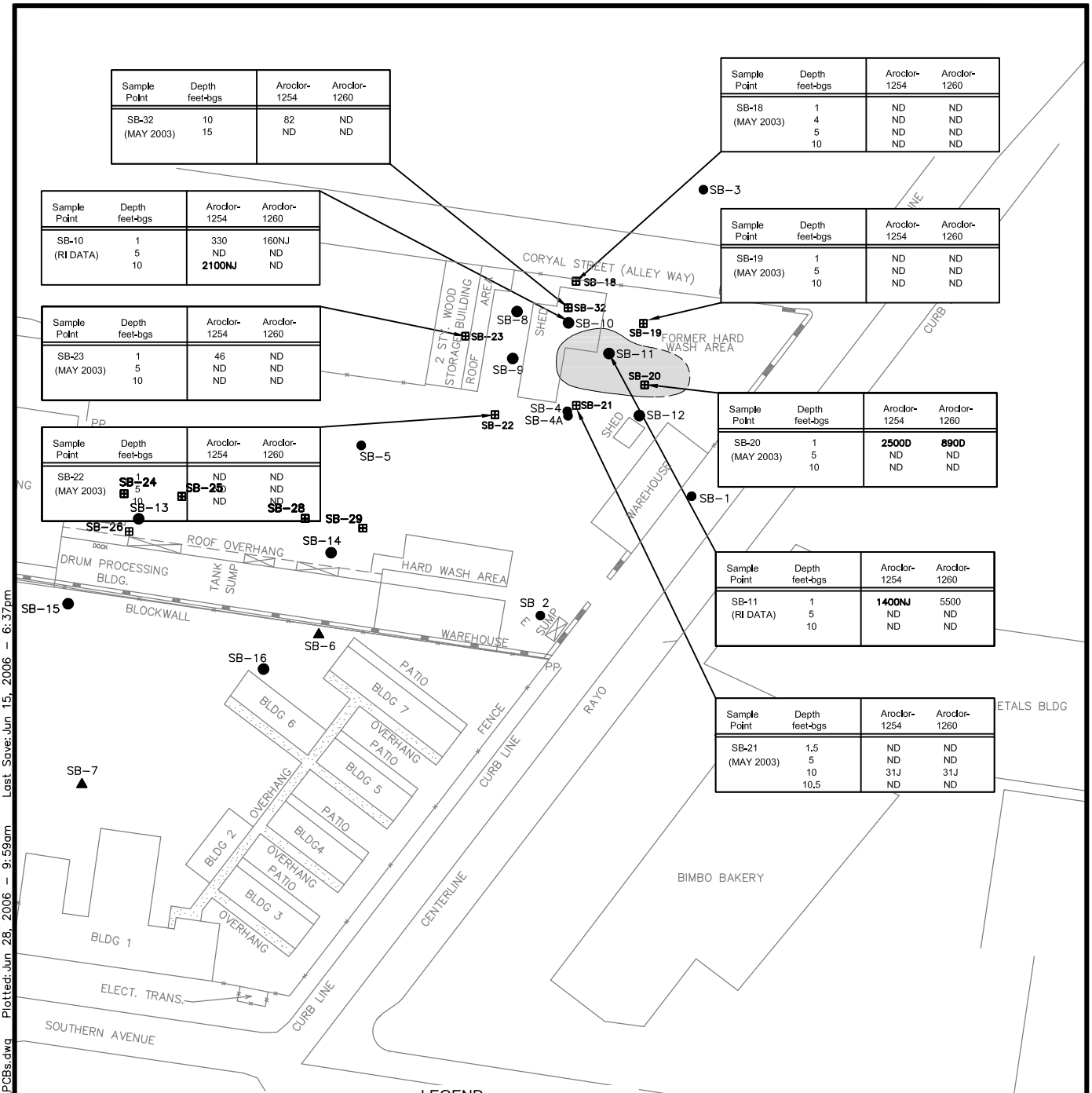
Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-23 (MAY 2003)	1	46	ND
	5	ND	ND
	10	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-20 (MAY 2003)	1	**2500D**	**890D**
	5	ND	ND
	10	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-22 (MAY 2003)	1	ND	ND
	5	ND	ND
	10	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-11 (RI DATA)	1	**1400NJ**	5500
	5	ND	ND
	10	ND	ND

Sample Point	Depth feet-bgs	Aroclor-1254	Aroclor-1260
SB-21 (MAY 2003)	1.5	ND	ND
	5	ND	ND
	10	31J	31J
	10.5	ND	ND



LEGEND

SB6 ▲ BECHTEL SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-6 and SB-7) DRILLED NOVEMBER 1996

SB-1 ● SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-1 through SB-5 AND SB-8 THROUGH SB-17)

SB-24 ⊞ SOIL BORING LOCATION DRILLED MAY 2003

ESTIMATED AREA ABOVE CLEANUP LEVEL. DASHED WHERE LATERAL AND/OR VERTICAL EXTENT IS UNDEFINED.

ONLY ANALYTICAL RESULTS FOR ANALYTES WITH CONCENTRATIONS EXCEEDING OR EQUAL TO CLEANUP LEVELS ARE REPRESENTED

	CLEANUP LEVEL
Aroclor-1254	870 µg/kg
Aroclor-1260	870 µg/kg

Analytical results in micrograms per kilogram (µg/kg) or parts per million

bgs Below Ground Surface
J Estimated Value
N Tentatively Identified
ND not detected at or above laboratory detection limits
Bold – results above cleanup level for PCBs.

N W E S

0 120

Approximate Scale in Feet

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_9_HWA_PCBs.dwg Plotted: Jun 28, 2006 - 9:59am Last Save: Jun 15, 2006 - 6:37pm

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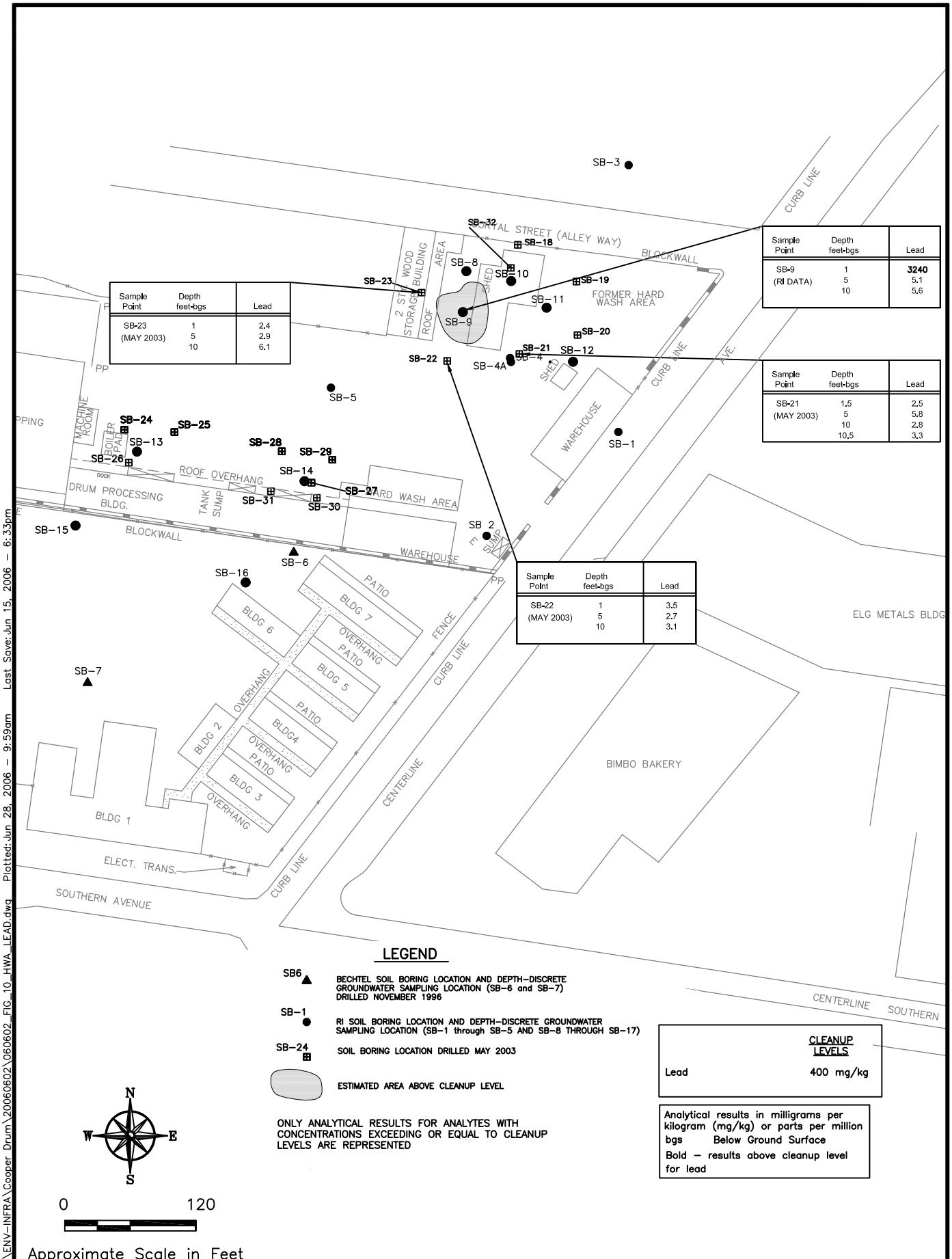
FIGURE 9
Soil Sampling Results - PCBs
Former Hard Wash Area



Sample Point	Depth feet-bgs	Lead
SB-23 (MAY 2003)	1	2.4
	5	2.9
	10	6.1

Sample Point	Depth feet-bgs	Lead
SB-9 (RI DATA)	1	**3240**
	5	5.1
	10	5.6

Sample Point	Depth feet-bgs	Lead
SB-21 (MAY 2003)	1.5	2.5
	5	5.8
	10	2.8
	10.5	3.3

Sample Point	Depth feet-bgs	Lead
SB-22 (MAY 2003)	1	3.5
	5	2.7
	10	3.1

LEGEND

SB6 ▲ BECHTEL SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-6 and SB-7) DRILLED NOVEMBER 1996

SB-1 ● RI SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-1 through SB-5 AND SB-8 THROUGH SB-17)

SB-24 ⊞ SOIL BORING LOCATION DRILLED MAY 2003

ESTIMATED AREA ABOVE CLEANUP LEVEL

ONLY ANALYTICAL RESULTS FOR ANALYTES WITH CONCENTRATIONS EXCEEDING OR EQUAL TO CLEANUP LEVELS ARE REPRESENTED

	CLEANUP LEVELS
Lead	400 mg/kg

Analytical results in milligrams per kilogram (mg/kg) or parts per million
bgs Below Ground Surface
Bold – results above cleanup level for lead

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_10_HWA_LEAD.dwg Plotted: Jun 28, 2006 – 9:59am Last Save: Jun 15, 2006 – 6:33pm

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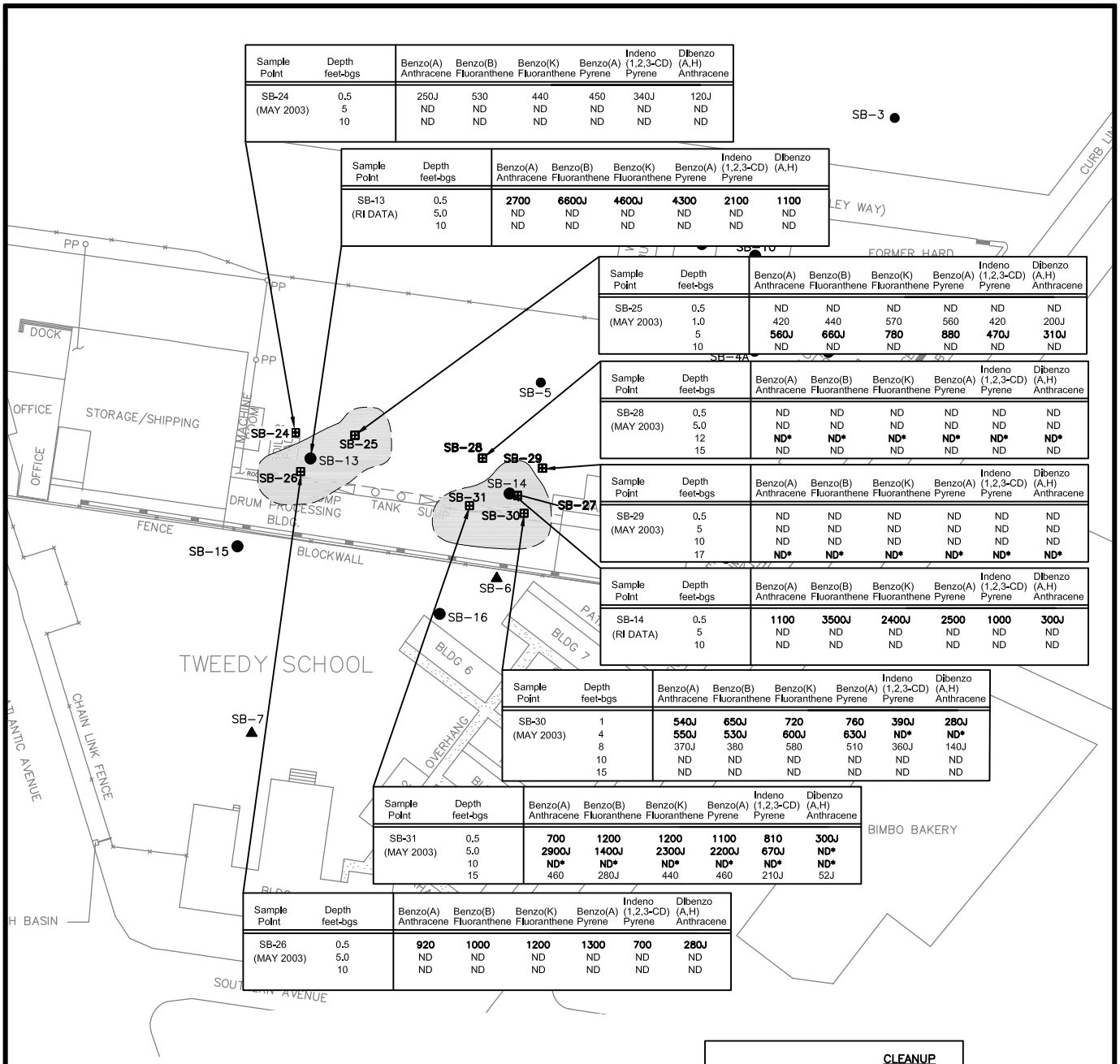
South Gate, California

FIGURE 10
Soil Sampling Results - Lead
Former Hard Wash Area



Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-24	0.5	250J	530	440	450	340J	120J
(MAY 2003)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H)
SB-13	0.5	**2700**	**6600J**	**4600J**	**4300**	**2100**	**1100**
(RI DATA)	5.0	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-25	0.5	ND	ND	ND	ND	ND	ND
(MAY 2003)	1.0	420	440	570	560	420	200J
	5	**560J**	**660J**	**780**	**880**	**470J**	**310J**
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-28	0.5	ND	ND	ND	ND	ND	ND
(MAY 2003)	5.0	ND	ND	ND	ND	ND	ND
	12	**ND***	**ND***	**ND***	**ND***	**ND***	**ND***
	15	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-29	0.5	ND	ND	ND	ND	ND	ND
(MAY 2003)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND
	17	**ND***	**ND***	**ND***	**ND***	**ND***	**ND***

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-14	0.5	**1100**	**3500J**	**2400J**	**2500**	**1000**	**300J**
(RI DATA)	5	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-30	1	**540J**	**650J**	**720**	**760**	**390J**	**280J**
(MAY 2003)	4	**550J**	**530J**	**600J**	**630J**	**ND***	**ND***
	8	370J	380	580	510	360J	140J
	10	ND	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND	ND

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-31	0.5	**700**	**1200**	**1200**	**1100**	**810**	**300J**
(MAY 2003)	5.0	**2900J**	**1400J**	**2300J**	**2200J**	**670J**	**ND***
	10	**ND***	**ND***	**ND***	**ND***	**ND***	**ND***
	15	460	280J	440	460	210J	52J

Sample Point	Depth feet-bgs	Benzo(A) Anthracene	Benzo(B) Fluoranthene	Benzo(K) Fluoranthene	Benzo(A) Pyrene	Indeno (1,2,3-CD) Pyrene	Dibenzo (A,H) Anthracene
SB-26	0.5	**920**	**1000**	**1200**	**1300**	**700**	**280J**
(MAY 2003)	5.0	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND

LEGEND

SB6 ▲ BECHTEL SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-6 and SB-7) DRILLED NOVEMBER 1996.

SB-1 ● RI SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-1 through SB-5 AND SB-8 THROUGH SB17).

SB-24 ⊞ SOIL BORING LOCATION DRILLED MAY 2003

ESTIMATED AREA ABOVE CLEANUP LEVEL. DASHED WHERE LATERAL AND/OR VERTICAL EXTENT IS UNDEFINED.

ONLY ANALYTICAL RESULTS FOR ANALYTES WITH CONCENTRATIONS EXCEEDING OR EQUAL TO CALCULATED CLEANUP LEVELS ARE REPRESENTED

	CLEANUP LEVELS
Benzo(a)anthracene	900 µg/kg**
Benzo(b)fluorathene	900 µg/kg**
Benzo(k)fluorathene	900 µg/kg**
Benzo(a)pyrene	900 µg/kg**
Ideno(1,2,3-cd)pyrene	900 µg/kg**
Dibenz(a,h)anthracene	900 µg/kg**

Analytical results in micrograms per kilogram (µg/kg) or parts per million

bgs Below Ground Surface

J Estimated Value

ND not detected at or above laboratory detection limits

Bold – results above calculated cleanup level for PAHs.

*Denotes detection limit above cleanup level.

**See text for calculating cleanup level

N W E S

0 120

Approximate Scale in Feet

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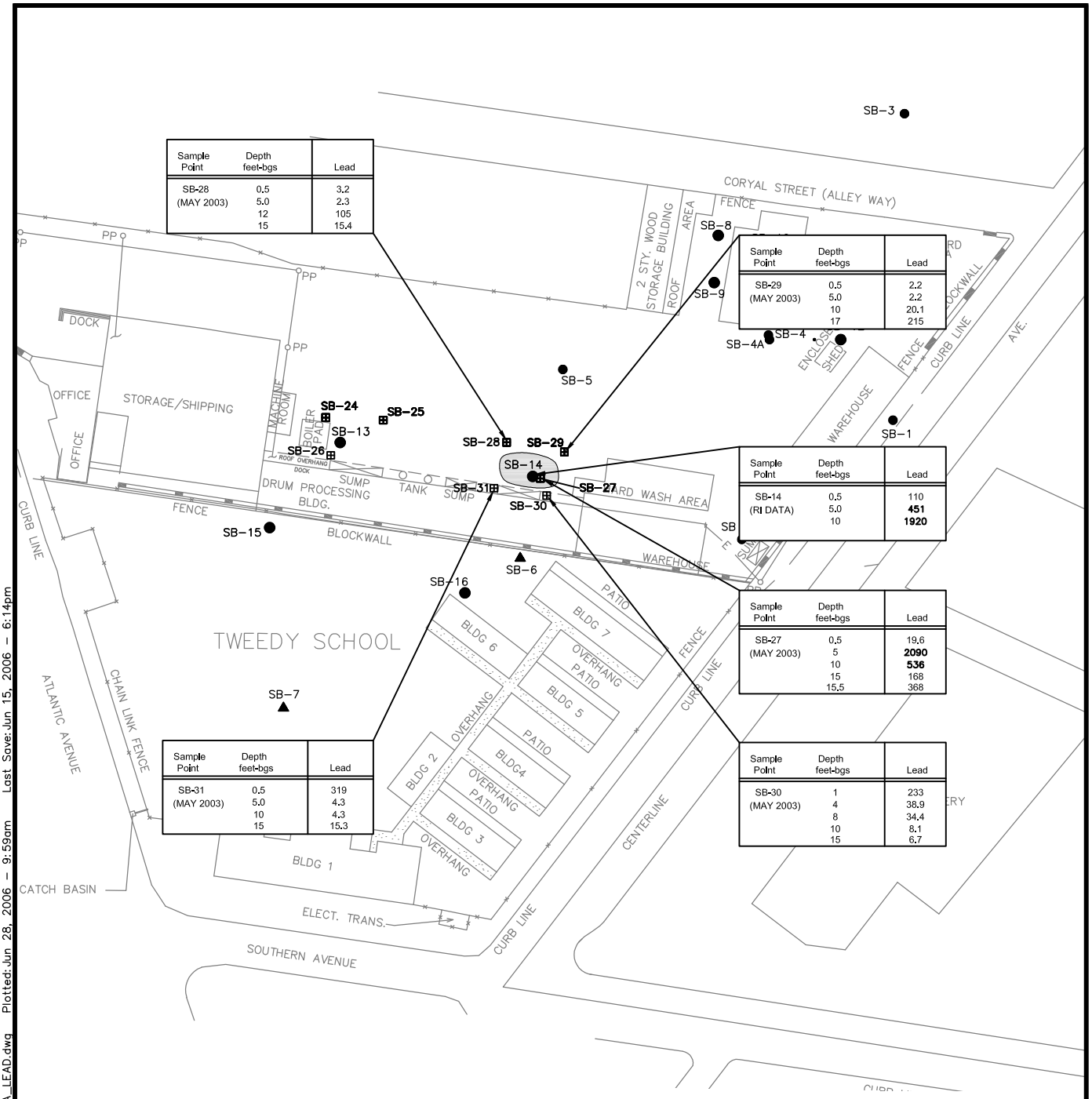
South Gate, California

FIGURE 11
Soil Sampling Results - PAHs
Drum Processing Area

H:\CADD\CURRENT\ENV-INFRA\COOPER DRUM\20060602\060602_FIG_11_DPA_PAHS.DWG



Sample Point	Depth feet-bgs	Lead
SB-28 (MAY 2003)	0.5	3.2
	5.0	2.3
	12	105
	15	15.4

Sample Point	Depth feet-bgs	Lead
SB-29 (MAY 2003)	0.5	2.2
	5.0	2.2
	10	20.1
	17	215

Sample Point	Depth feet-bgs	Lead
SB-14 (RI DATA)	0.5	110
	5.0	**451**
	10	**1920**

Sample Point	Depth feet-bgs	Lead
SB-27 (MAY 2003)	0.5	19.6
	5	**2090**
	10	**536**
	15	168
	15.5	368

Sample Point	Depth feet-bgs	Lead
SB-31 (MAY 2003)	0.5	319
	5.0	4.3
	10	4.3
	15	15.3

Sample Point	Depth feet-bgs	Lead
SB-30 (MAY 2003)	1	233
	4	38.9
	8	34.4
	10	8.1
	15	6.7

LEGEND

SB6 ▲ BECHTEL SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-6 and SB-7) DRILLED NOVEMBER 1996

SB-1 ● RI SOIL BORING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (SB-1 through SB-5 AND SB-8 THROUGH SB-17)

SB-24 ⊞ SOIL BORING LOCATION DRILLED MAY 2003

ESTIMATED AREA ABOVE CLEANUP LEVEL

ONLY ANALYTICAL RESULTS FOR ANALYTES WITH CONCENTRATIONS EXCEEDING OR EQUAL TO CLEANUP LEVELS ARE REPRESENTED

	CLEANUP LEVELS
Lead	400 mg/kg

Analytical results in milligrams per kilogram (mg/kg) or parts per million

bgs Below Ground Surface

Bold – results above cleanup level for lead

ND – not detected at or above laboratory detection limits

N W E S

0 120

Approximate Scale in Feet

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SACRAMENTO, CA 95833

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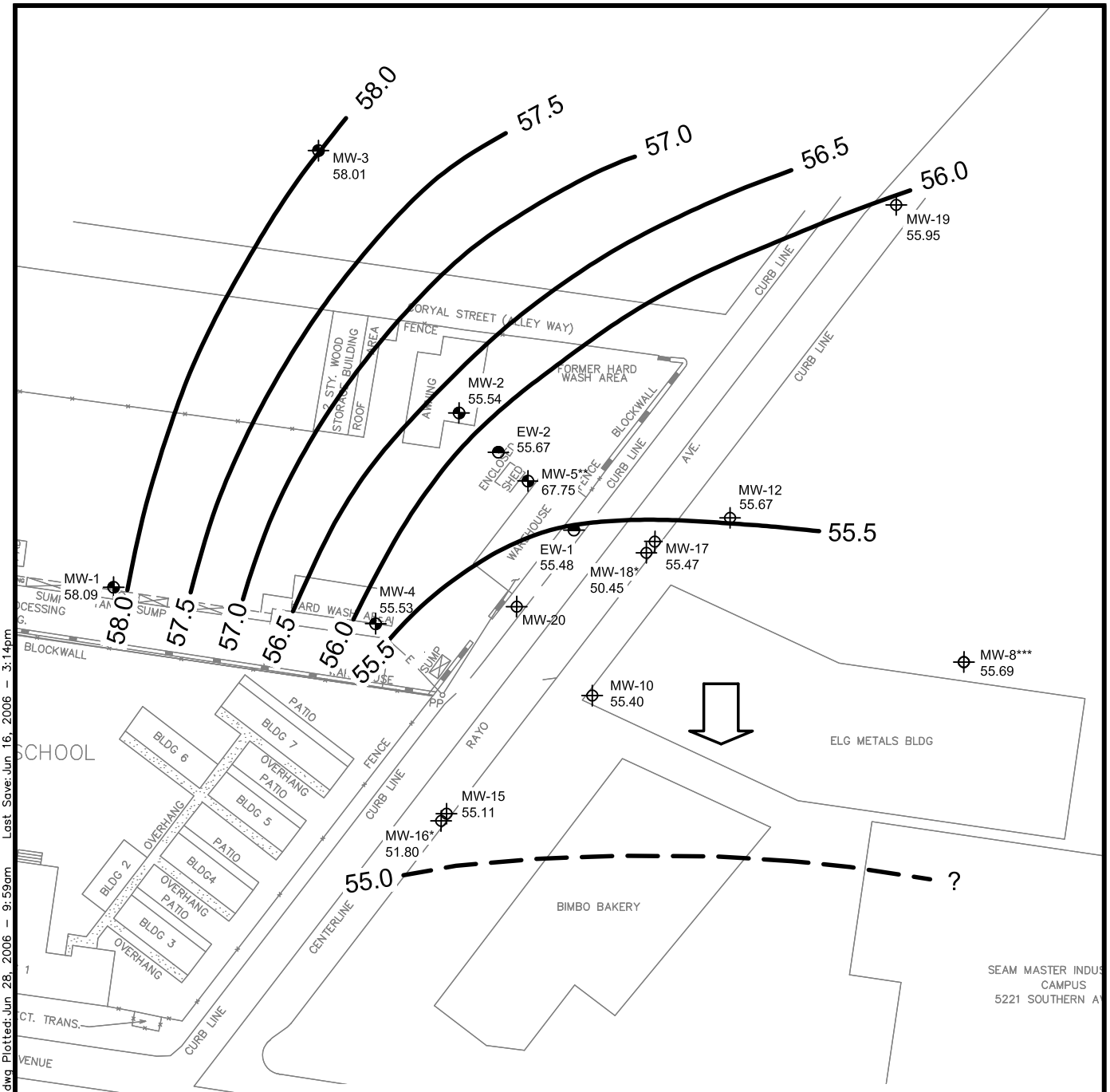
South Gate, California

FIGURE 12
Soil Sampling Results - Lead
Drum Processing Area

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_12_DPA_LEAD.dwg Plotted: Jun 28, 2006 – 9:59am Last Save: Jun 15, 2006 – 6:14pm



On-site groundwater monitor well location (MW-1 through MW-5)

Off-site groundwater monitor well location (MW-8, MW-10, MW-12, and MW-14 through MW-19)

Groundwater extraction well location

55.67 Groundwater elevation in feet above mean sea level

* Wells MW-16 and MW-18 completed in deeper Exposition Aquifer were not used for contouring

** Well MW-5 completed in perched zone and shallow aquifer was not used for contouring

*** Water level data not used in contouring. However, data indicates the presence of a southwest flow direction in this area

NM Not measured

Estimated groundwater flow direction

—55.0— Groundwater surface elevation contour. Dashed and queried where inferred.

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_13_GWGRAD_MAY03.dwg Plotted: Jun 28, 2006 - 9:59am Last Save: Jun 16, 2006 - 3:14pm

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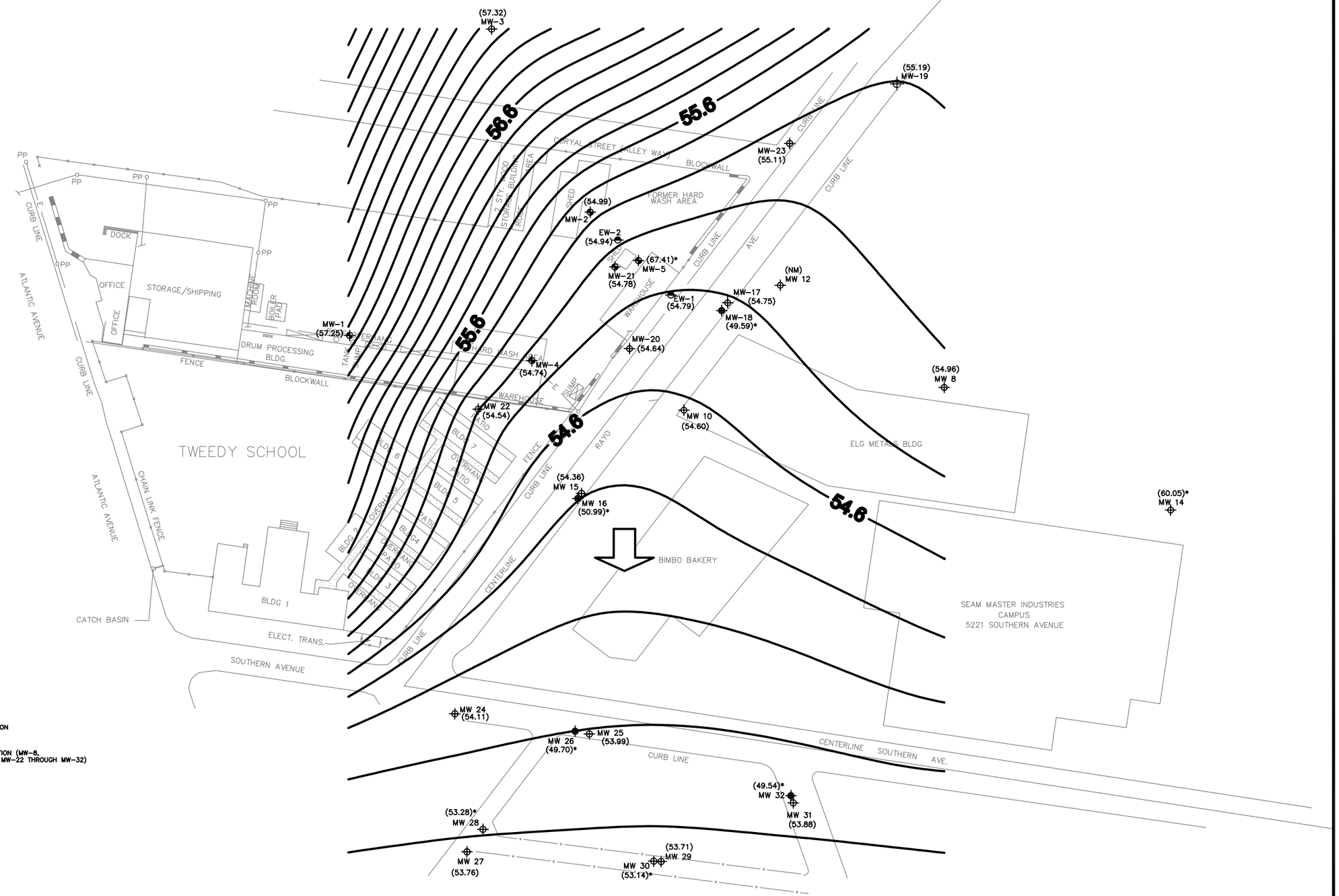
FIGURE 13
Groundwater Elevations
May 1, 2003



LEGEND

- ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1 through MW-5, and MW-21)
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION (MW-8, MW-10, MW-12, MW-14 THROUGH MW-20, and MW-22 THROUGH MW-32)
- GROUNDWATER EXTRACTION WELL LOCATION
- WELL COMPLETED IN DEEPER EXPOSITION AQUIFER (MW-16, MW-18, MW-26, MW-32)
- (54.29) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- - 54.6 - GROUNDWATER ELEVATION CONTOUR
- NM NOT MEASURED
- * NOT USED IN CONTOURING
- GROUNDWATER FLOW DIRECTION

N W E S

120 60 0 120 240

SCALE IN FEET

URS
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SACRAMENTO, CA 95833

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FIGURE 14
Groundwater Elevations
December 18, 2003

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_14_GWGRAD_DEC03.dwg Plotted: Jun 28, 2006 - 10:00am Last Save: Jun 16, 2006 - 3:16pm

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-4 (OCT.1998)	92	2.2	2.9	<1
	102	1.9	1.7	<1
	117	<1	<1	<1
	117 (dupl.)	<1	<1	<1
	142	<1	<1	<1
	162	<1	<1	<1
	192	<1	<1	<1
SB-4A (OCT.1998)	66	100	130	19
	66 (dupl.)	130	160	NA
	83	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-13 (OCT.2000)	62	42	30	<0.5
	73	<1	0.4J	<0.5
	92	<0.5	<0.5	<0.5
	130	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-25 (MAY 2003)	72	<0.5	2J	2
	99	<0.5	0.4J	<0.5
	114	<0.5	0.3J	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-4 (NOV.1998)	61	220	270	4
	74	<1	<1	<1
	96	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-3 (SEPT.1998)	62	8.1	7.4	<1
	82	<1	<1	<1
	103	<1	<1	<1
	132	<1	<1	<1
	151	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-22 (NOV.2000)	68	350	200	2
	78	<1	<1	<1
	92	<1	<1	<1
	116	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-27 (MAY 2003)	62	6.5	4.8	1.3
	78	2.4	0.59	<0.5
	103	4.1	0.52	<0.5
	126	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-7 (MAR.1999)	64	9	5	<1
	81	46	<1	<1
	97	<1	<1	<1
	97 (dupl.)	<1	<1	<1
	116	100	4	2

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-12 (OCT.2000)	62	50	12	<0.5
	73	4,400	25	21
	99	<0.5	<0.5	<0.5
	125	1J	<0.5	<0.5

Sample Point	Screen Interval feet-bgs	TCE	CIS-1,2-DCE	Sample Date
MW-19	67-77	5,700	33	Feb. 2001
MW-19	67-77	1,000	<50	May 2003
MW-19	67-77	450	11	Jan. 2004

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-15 (OCT.2000)	62	<0.5	0.9	<0.5
	80	49	86	9
	100	9	20	0.5
	130	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-5 (OCT.1998)	63	<1	<1	<1
	63 (dupl.)	<1	<1	<1
	82.5	<1	<1	<1
	82.5 (dupl.)	<1	<1	<1
	102	<1	3.6	<1
	131	<1	<1	<1
	131 (dupl.)	<1	<1	<1
	151	<1	<1	<1
	181	<1	<1	<1
	201	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-14 (OCT.2000)	62	<0.5	0.5J	<0.5
	90	25	0.8	<0.5
	117	0.3J	<0.5	<0.5
	137	1	<1	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-2 (OCT.1998)	62	<1	<1	<1
	82	<1	<1	<1
	90	<1	5.7	<1
	100	3.2	9.7	<1
	130	<1	<1	<1
	140	<1	<1	<1
	160	<1	<1	<1
	191	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-6 (OCT./NOV.1996)	76	<1	<1	NA
	76 (dup)	<1	<1	NA
	90	2	0.4	NA
	90 (dup)	3	0.4	NA
	105	<1	<1	NA
	115	<1	<1	NA
	120	<1	<1	NA
	131	<1	<1	NA
	165	<1	<1	NA
	205	<1	<1	NA

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-6 (MAR.1999)	63	<1	<1	2
	78	<1	<1	0.6J
	78 (dupl.)	<1	<1	<1
	95	<1	<1	1
	111	<1	<1	2

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-7 (OCT./NOV.1996)	70	<1	<1	NA
	70 (dup)	<1	<1	NA
	80	<1	<1	NA
	80 (dup)	<1	<1	NA
	70 (dup)	<1	<1	NA
	90	39	2	NA
	100	43	2	NA
	120	<1	<1	NA
	130	<1	<1	NA
	140	<1	<1	NA
	160	<1	<1	NA

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-5 (MAR.1999)	65	<1	<1	<1
	81	<1	<1	<1
	96	14	<1	<1
	116	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-31 (MAY 2003)	69	16	7.0	<0.5
	90	<0.5	<0.5	<0.5
	108	<0.5	2J	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-23 (NOV.2000)	67	0.8J	0.9J	<1
	82	46	43	<1
	102	23	25	<1
	120	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-32 (MAY 2003)	73	0.3J	<0.5	<0.5
	90	2.0	0.3J	<0.5
	111	<0.5	<0.5	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-19 (OCT.2000)	62	170	41	19
	80	960	210	49
	100	32	22	2
	125	6	4	1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-24 (OCT.2000)	62	13	8	<1
	80	32	25	<1
	98	12	13	0.7J
	120	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-33 (MAY 2003)	72	5	2	<0.5
	88	1	0.7	<0.5
	102	4	16J	<0.5
	126	<0.5	<0.5J	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-34 (MAY 2003)	72	33	17	<0.5
	90	15	14	0.8
	108	<0.5	<0.5	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-37 (MAY 2003)	72	4.4	3.4	<0.5
	90	1.4	3.5	<0.5
	112	<0.5	<0.5	<0.5
	128	<0.5	0.3J	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-29 (MAY 2003)	60	<0.5	<0.5	<0.5
	74	52	61	1.6
	91	29	29	2.6
	109	<0.5	7.4	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-38 (MAY 2003)	72	14	4J	<0.5
	90	10	8J	<0.5
	113	<0.5	<0.5	<0.5
	129	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-35 (MAY 2003)	58	<0.5	<0.5	<0.5
	72	20	4	<0.5
	90	35	4	<2.0
	110	<0.5	<0.5	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-26 (MAY 2003)	72	99	17	<0.5
	88	110	11	0.7
	102	240	12	<0.5
	125	0.3J	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-11 (OCT.2000)	62	31	28	0.9
	73	280	3	2
	88	<0.5	<0.5	<0.5
	105	<0.5	<0.5	<0.5
	123	1J	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
SB-1 (OCT.1998)	63	2,000	97	2.1
	63 (dupl.)	2,000	99	2.3
	83	15	2.9	<1
	103	1.5	2.4	<1
	132	<1	<1	<1
	142	<1	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-3 (NOV.1998)	61	20	13	<1
	78	<1	<1	<1
	78 (dupl.)	<1	<1	<1
	97	22	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-1 (NOV.2000)	67	120	17	<1
	84	4	<1	<1
	97	3	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-2 (NOV.1998)	67	16	3	<1
	82	<1	<1	<1
	98	2	<1	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-28 (MAY 2003)	59	<0.5	<0.5	<0.5
	72	43	42	3
	96	3	4	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-17 (OCT.2000)	63	58	27	<0.5
	80	120	10	<0.5
	97	390	16	0.4J
	122	12	2	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-18 (OCT.2000)	67	25	11	<0.5
	85	6	0.5J	<0.5
	100	320	14J	<25
	120	0.5J	<0.5	<0.5
	138	0.5J	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-16 (OCT.2000)	60	<0.5	<0.5	<0.5
	72	13	5	0.7
	95	13	0.5J	<0.5
	120	1	0.5J	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-30 (MAY 2003)	64	0.4J	<0.5	<0.5
	80	130	30	1.1
	98	23	7.4	<0.5
	128	<0.5	<0.5	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-20 (OCT.2000)	64	24	9	<0.5
	80	51	14	<3
	97	5	3	<0.5
	118	22	14	1

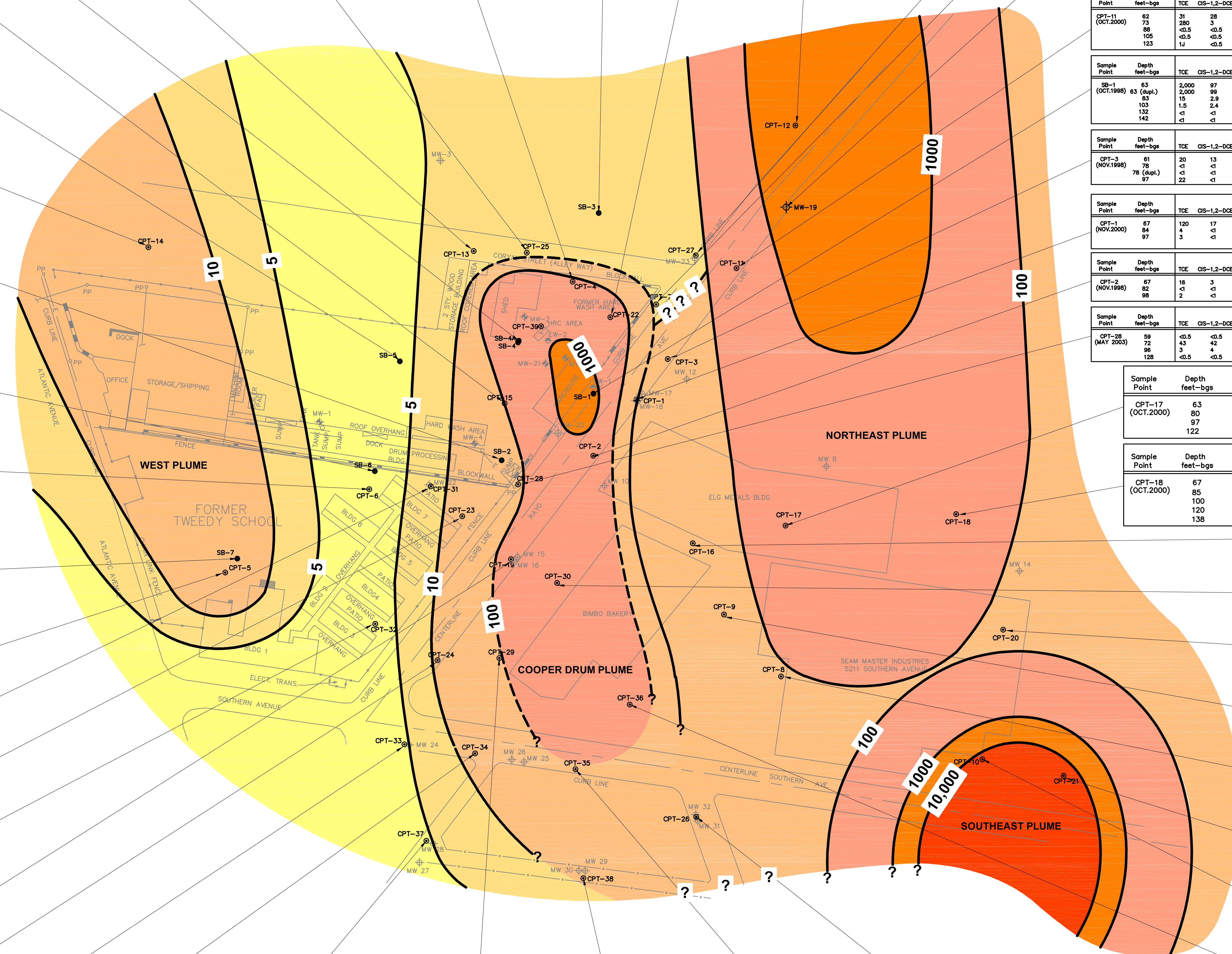
Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-9 (MAR.1999)	60	<1	2	<1
	80	16	7	<1
	97	43	6	<1
	119	9	5	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-8 (MAR.1999)	65	21	240	<1
	80	18	2	<1
	96	90	8	<1
	107	2	2	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-21 (OCT.2000)	63	8,000	4,900	<250
	87	11,000	4,900	<250
	100	12	8	<0.5
	120	1	1	<0.5
	140	1	1	<0.5

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-10 (MAR.1999)	65	16,000	4,500	14
	85	5	12	<1
	102	38	31	<1
	102(dupl.)	80	80	<1
	120	2	2	<1

Sample Point	Depth feet-bgs	TCE	CIS-1,2-DCE	1,1-DCA
CPT-36 (MAY 2003)	58	<0.5	<0.5	<0.5
	72	5	2	<0.5
	89	140	5	2
	108	<0.5	2	<0.5
	128	<0.5	<0.5	<0.5



LEGEND

- CPT-1 — CONE PENETROMETER TESTING LOCATION AND DEPTH DISCRETE GROUNDWATER SAMPLING LOCATION (CPT-1 THROUGH CPT-39)
- MW-1 — ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1, MW-2, MW-4, MW-5, and MW-21)
- EW-1 — GROUNDWATER EXTRACTION WELL LOCATION
- MW-8 — OFF-SITE GROUNDWATER MONITORING WELL LOCATION (MW-3, MW-8, MW-10, MW-12, AND MW-14 THROUGH MW-20, AND MW-22 THROUGH MW-32)
- SB-1 — SOIL BORING LOCATION AND DEPTH DISCRETE GROUNDWATER SAMPLING LOCATION
- —10— TCE GROUNDWATER CONTOUR IN MICROGRAMS PER LITER

TCE	Trichloroethene
CIS-1,2-DCE	cis-1,2-Dichloroethene
1,1-DCA	1,1-Dichloroethane
ug/L	Micrograms per Liter (parts per billion - ppb)
bgs	Below Ground Surface
N	Tentatively Identified
J	Estimated Value

TCE

- > 1 ug/L - < 5 ug/L
- > 5 ug/L - < 10 ug/L
- > 10 ug/L - < 100 ug/L
- > 100 ug/L - 1,000 ug/L
- > 1,000 ug/L - 10,000 ug/L
- > 10,000 ug/L

N W E S

120 60 0 120 240

SCALE IN FEET

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H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\060602_FIG_15_CPT data.dwg User:lontangco-bernaldez Plotted:Jun 28, 2006 - 10:00am Last Save:Jun 16, 2006 - 11:34am

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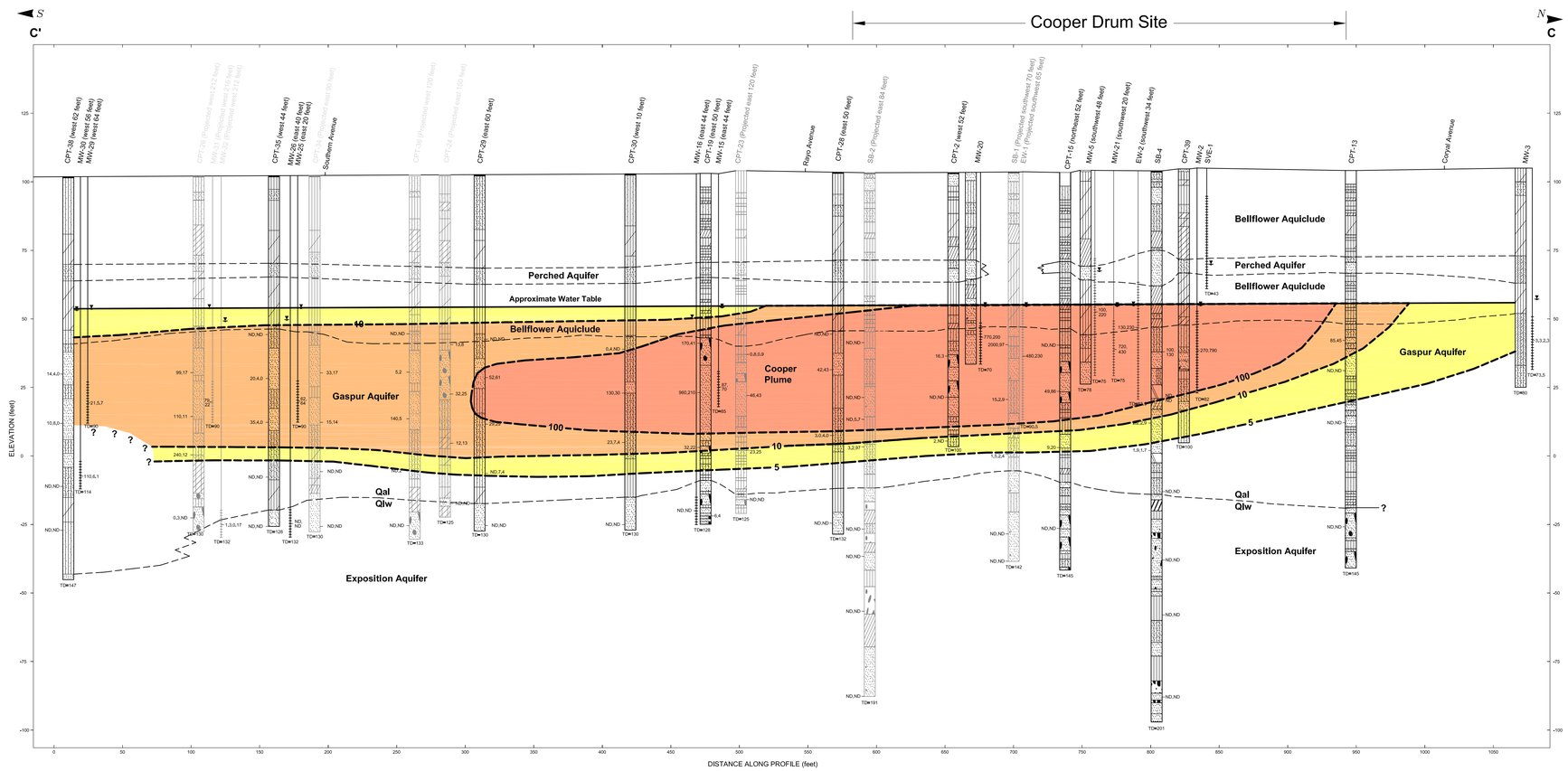
FIGURE 15
Depth Discrete
Groundwater Sample VOC Analytical Results

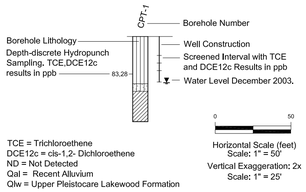


EXPLANATION:

USCS Silt
USCS Clayey Silt
USCS Well-graded Sand
USCS Poorly-graded Gravel
USCS High Plasticity Clay
USCS Sandy Silt
USCS Silty Clay
USCS Low Plasticity Silty Clay
USCS Poorly-graded Sand with Silt
USCS Well-graded Gravel
USCS Silty Sand
USCS Poorly-graded Sand
Asphalt
USCS Low to High Plasticity Clay
USCS Well-graded Sand with Gravel
USCS Low Plasticity Clay
USCS Poorly-graded Gravelly Sand
Sandstone
USCS Clayey Sand
USCS Poorly-graded Sand with Gravel

TCE
> 5 ug/L - < 10 ug/L
> 10 ug/L - < 100 ug/L
> 100 ug/L - 1,000 ug/L

Note:
Isoconcentration contours were generated using TCE data from wells that are within 60 feet or less of the cross section line.



TCE = Trichloroethene
DCE12c = cis-1,2- Dichloroethene
ND = Not Detected
Qal = Recent Alluvium
Qlw = Upper Pleistocene Lakewood Formation

0 50
Horizontal Scale (feet)
Scale: 1" = 50'
Vertical Exaggeration: 2x
Scale: 1" = 25'

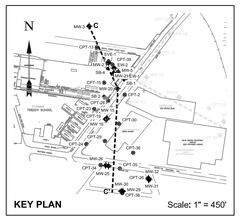


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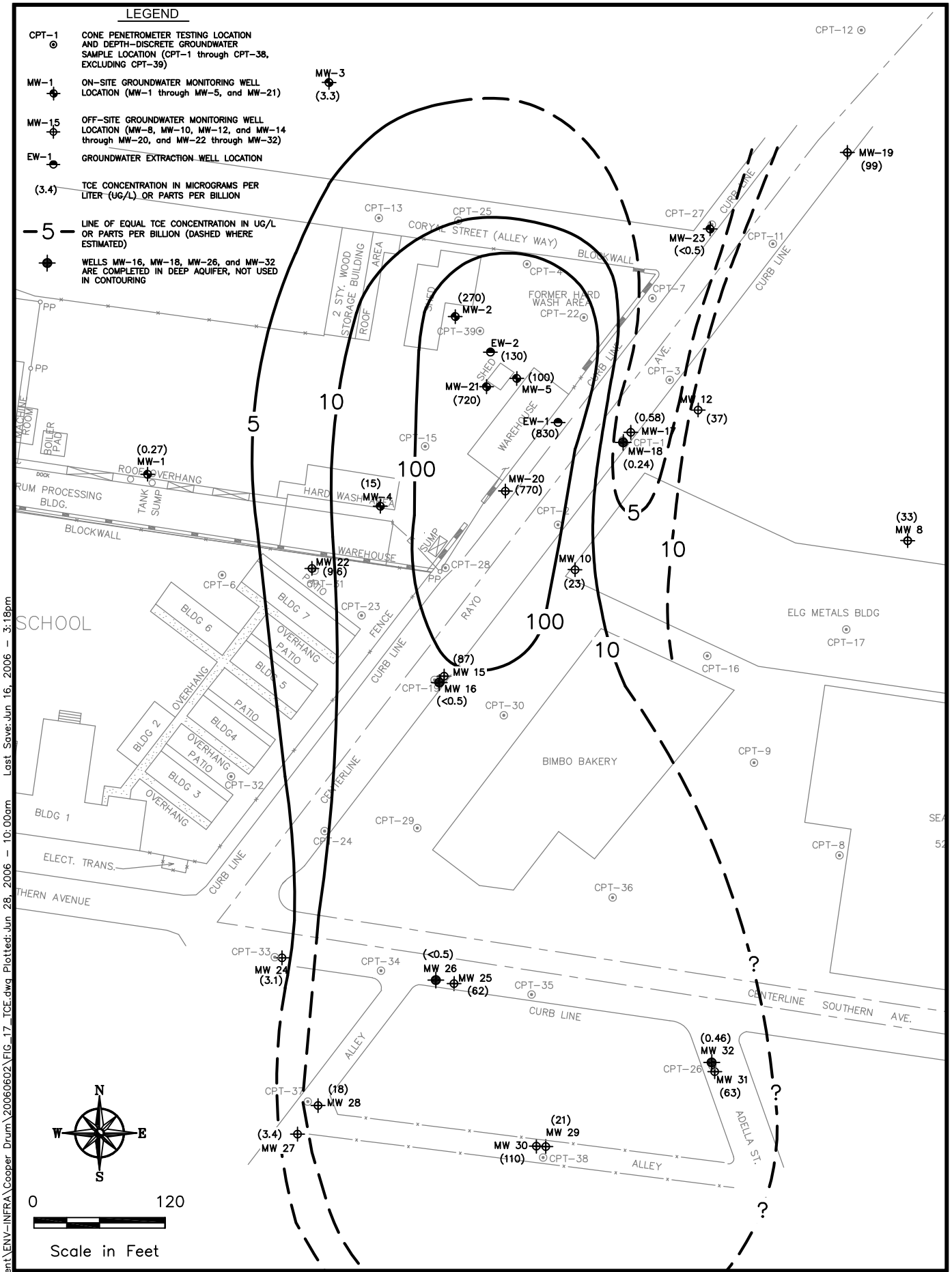
FIGURE 16
Geologic Cross Section C-C'

I:\CADD\Current\Xtra\NFRA\Cooper Drum\0060029\0060029_FIG_16_XSEC.dwg Plotted Jun 26, 2008 10:00am Last Save Jun 16, 2008 11:14am



H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_17_TCE.dwg Plotted: Jun 28, 2006 - 10:00am Last Save: Jun 16, 2006 - 3:18pm

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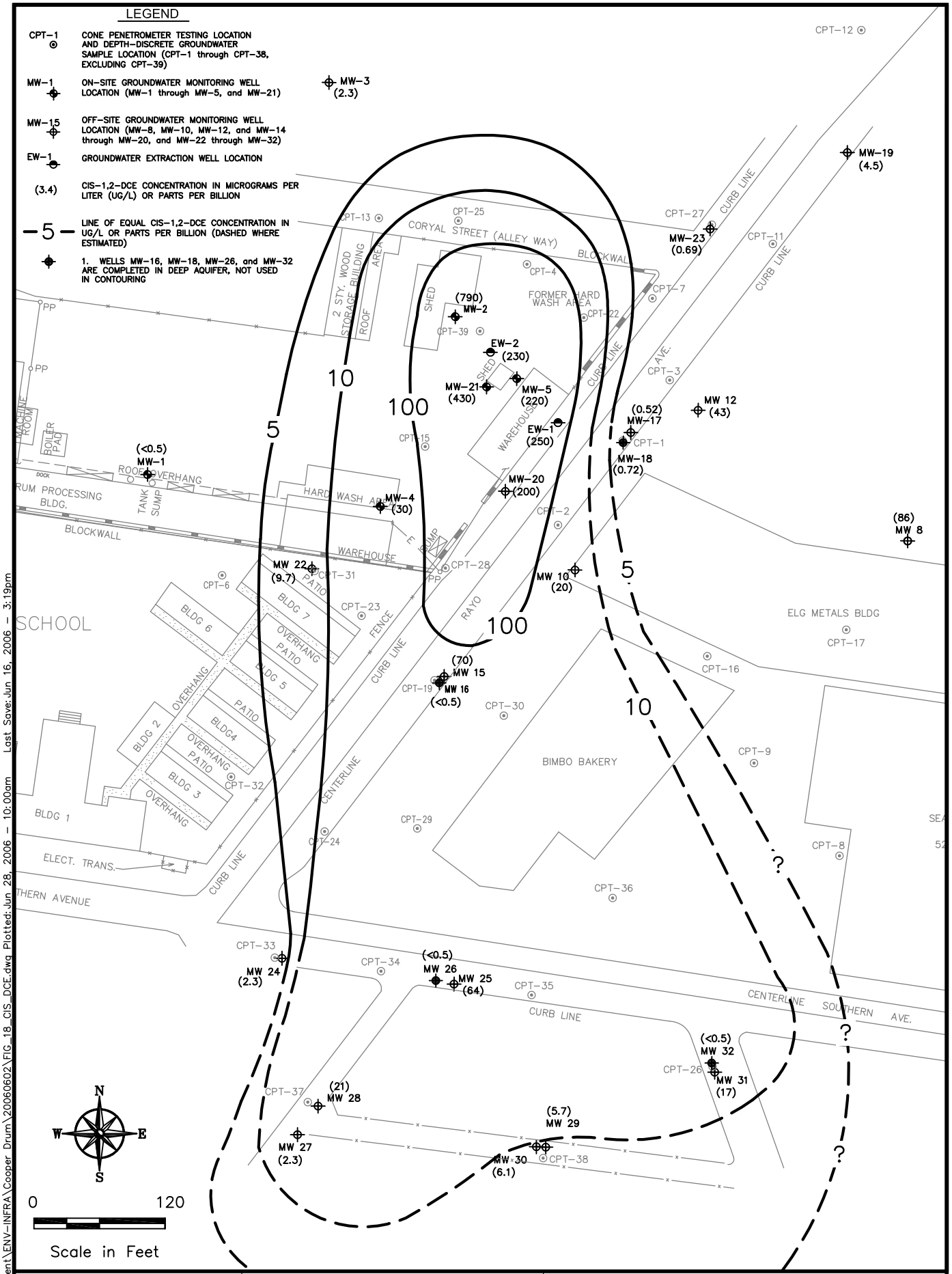
FIGURE 17
Trichloroethene Isopleth Map
July/November 2004



H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_18_CIS_DCE.dwg Plotted: Jun 28, 2006 - 10:00am Last Save: Jun 16, 2006 - 3:19pm

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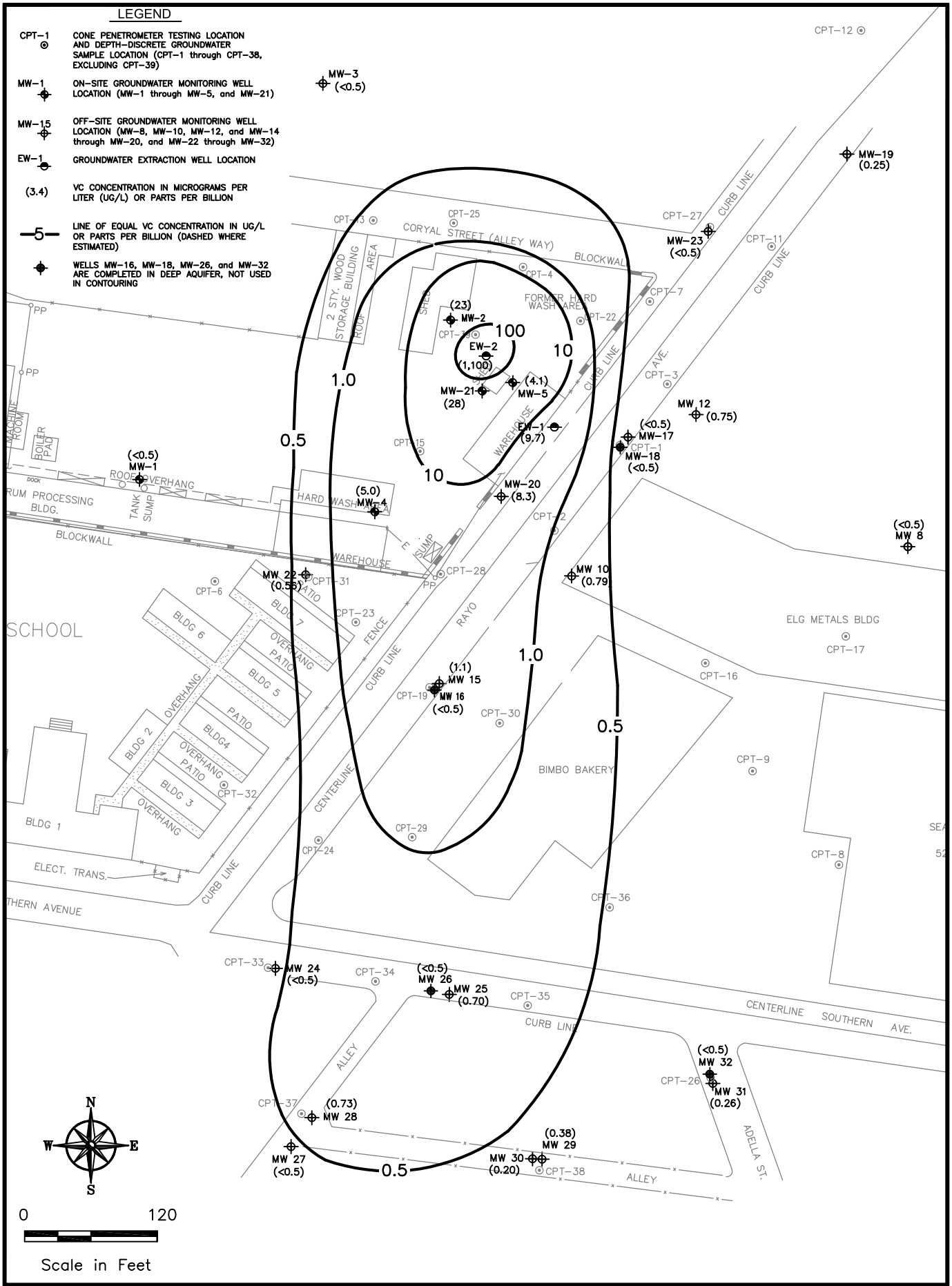
FIGURE 18
cis-1,2-Dichloroethene Isopleth Map
July/November 2004



H:\CADD\CURRENT\ENV-INFRA\COOPER DRUM\20060602\060602_FIG_19_VC.DWG

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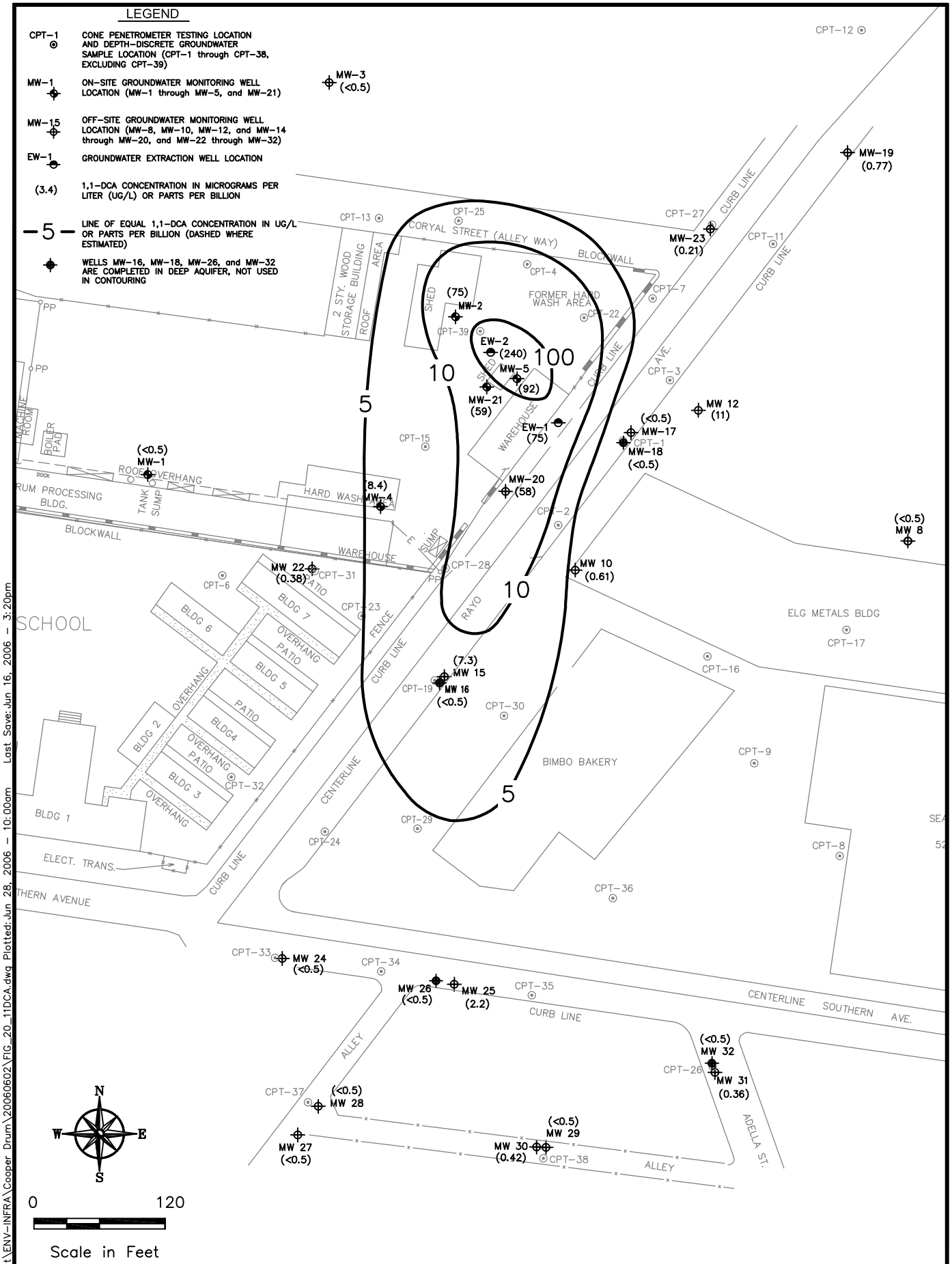
FIGURE 19
Vinyl Chloride Isopleth Map
July/November 2004



H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_20_11DCA.dwg Plotted:Jun 28, 2006 - 10:00am Last Save:Jun 16, 2006 - 3:20pm

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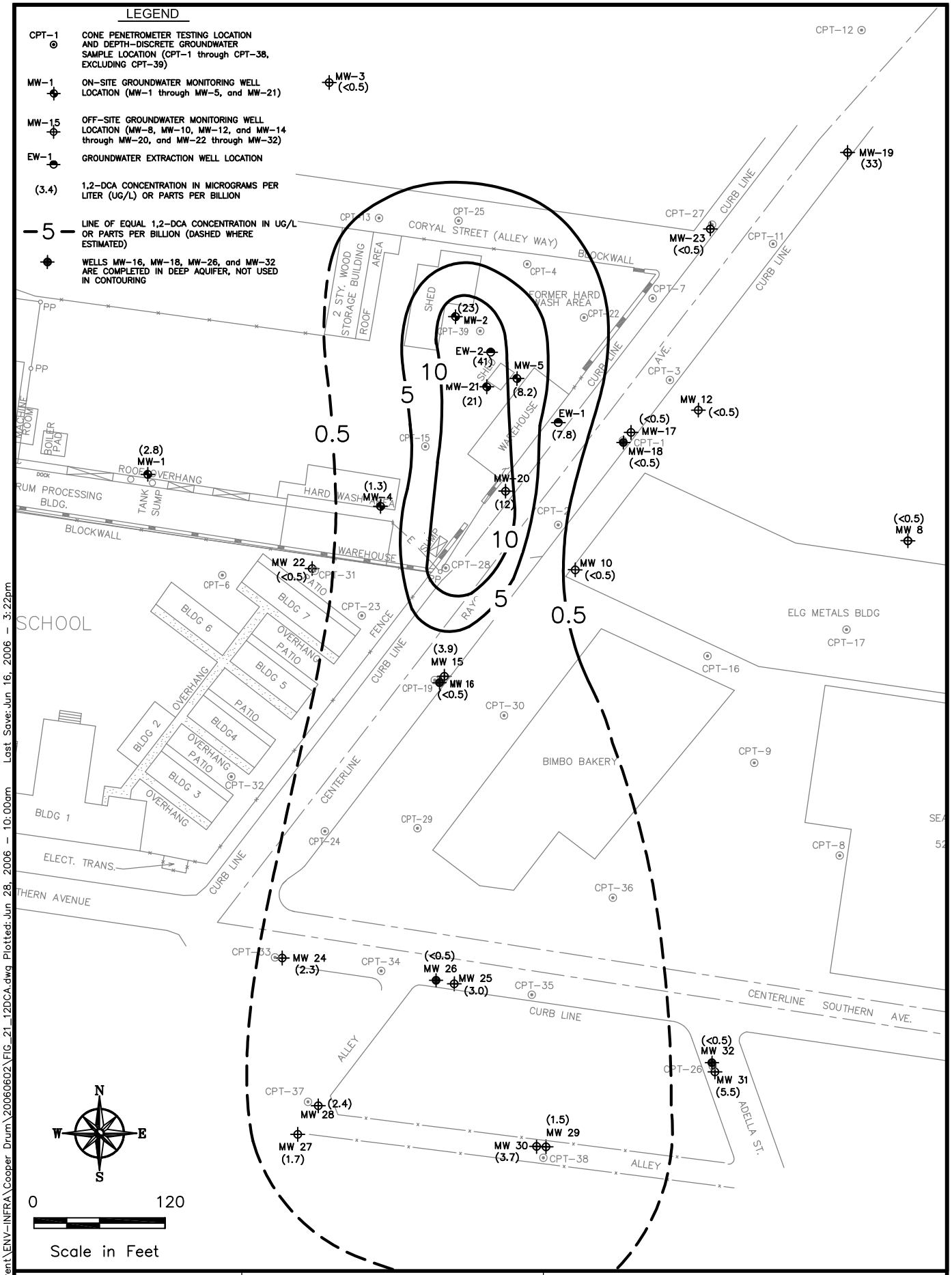
FIGURE 20
1,1-Dichloroethane Isopleth Map
July/November 2004



H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_21_12DCA.dwg Plotted:Jun 28, 2006 - 10:00am Last Save:Jun 16, 2006 - 3:22pm

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FIGURE 21
1,2-Dichloroethane Isopleth Map
July/November 2004

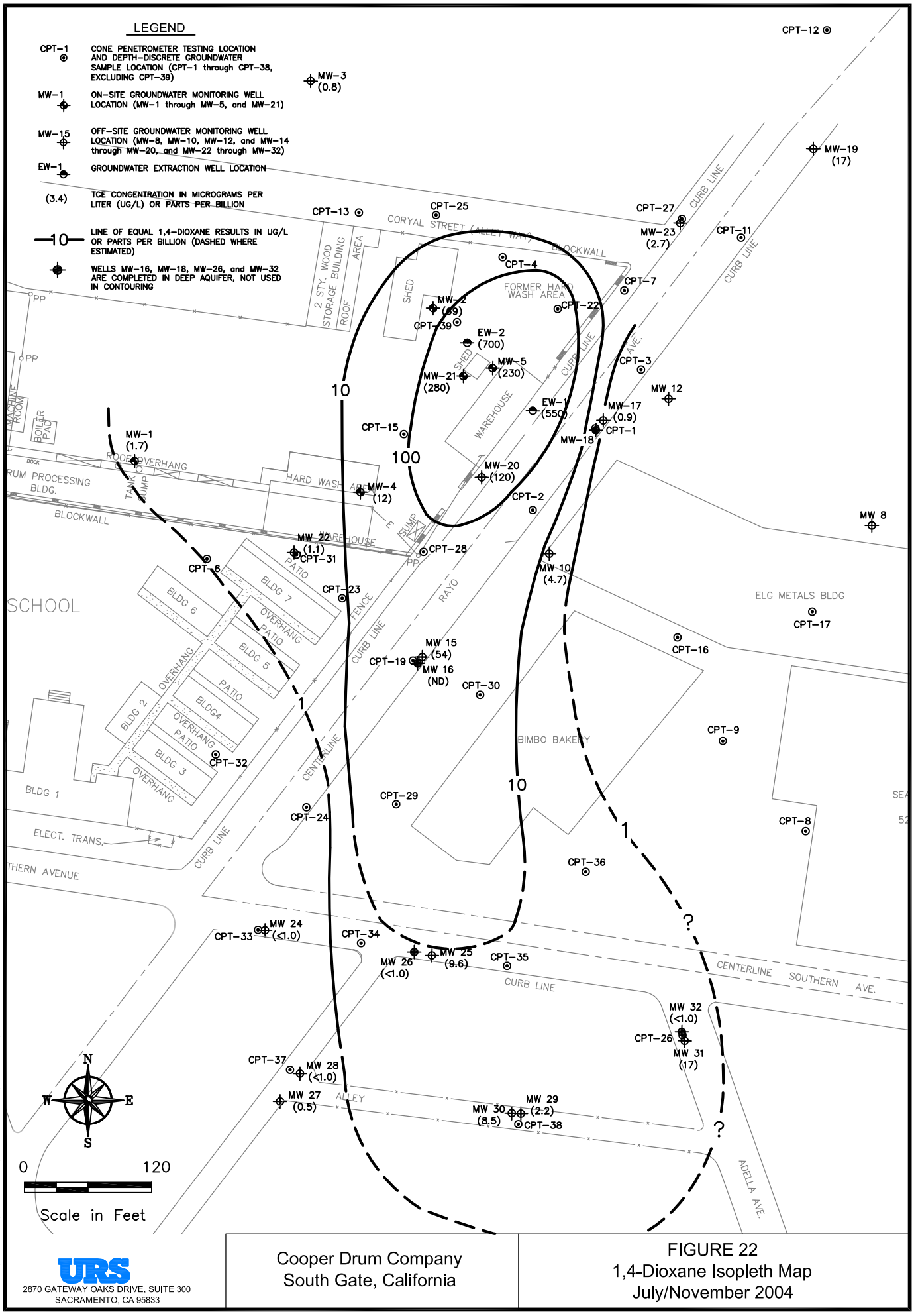

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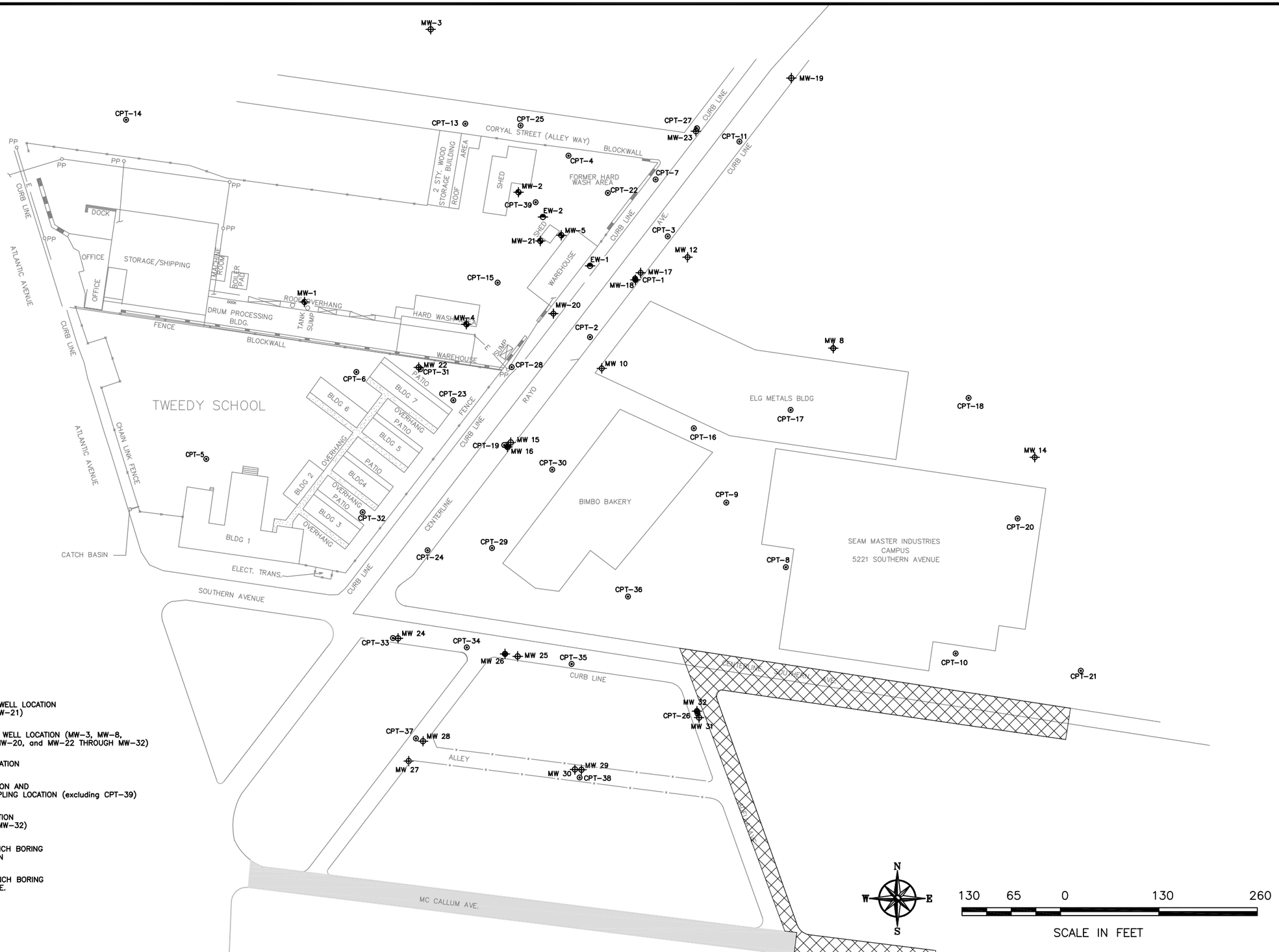
FIGURE 22
1,4-Dioxane Isopleth Map
July/November 2004

H:\CADD\CURRENT\ENV-INFRA\COOPER DRUM\20060602\060602_FIG_22_DIOXANE.DWG



LEGEND

- ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1, MW-2, MW-4, MW-5, and MW-21)
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION (MW-3, MW-8, MW-10, MW-12, MW-14 THROUGH MW-20, and MW-22 THROUGH MW-32)
- GROUNDWATER EXTRACTION WELL LOCATION
- CONE PENETROMETER TESTING LOCATION AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION (excluding CPT-39)
- WELL COMPLETED IN DEEPER EXPOSITION AQUIFER (MW-16, MW-18, MW-26, MW-32)
- PROPOSED AREA FOR CPT/HYDROPUNCH BORING FOR COOPER DRUM PLUME DEFINITION
- PROPOSED AREA FOR CPT/HYDROPUNCH BORING INVESTIGATION FOR SEAM MASTER SITE.

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FIGURE 23
Proposed CPT/HydroPunch Boring Locations

H:\CADD\Current\ENV-INFRA\Cooper Drum\20060602\FIG_23_CPT_HPBOR_LOCS.dwg Plotted:Jun 28, 2006 - 10:00am Last Save:Jun 26, 2006 - 12:15pm