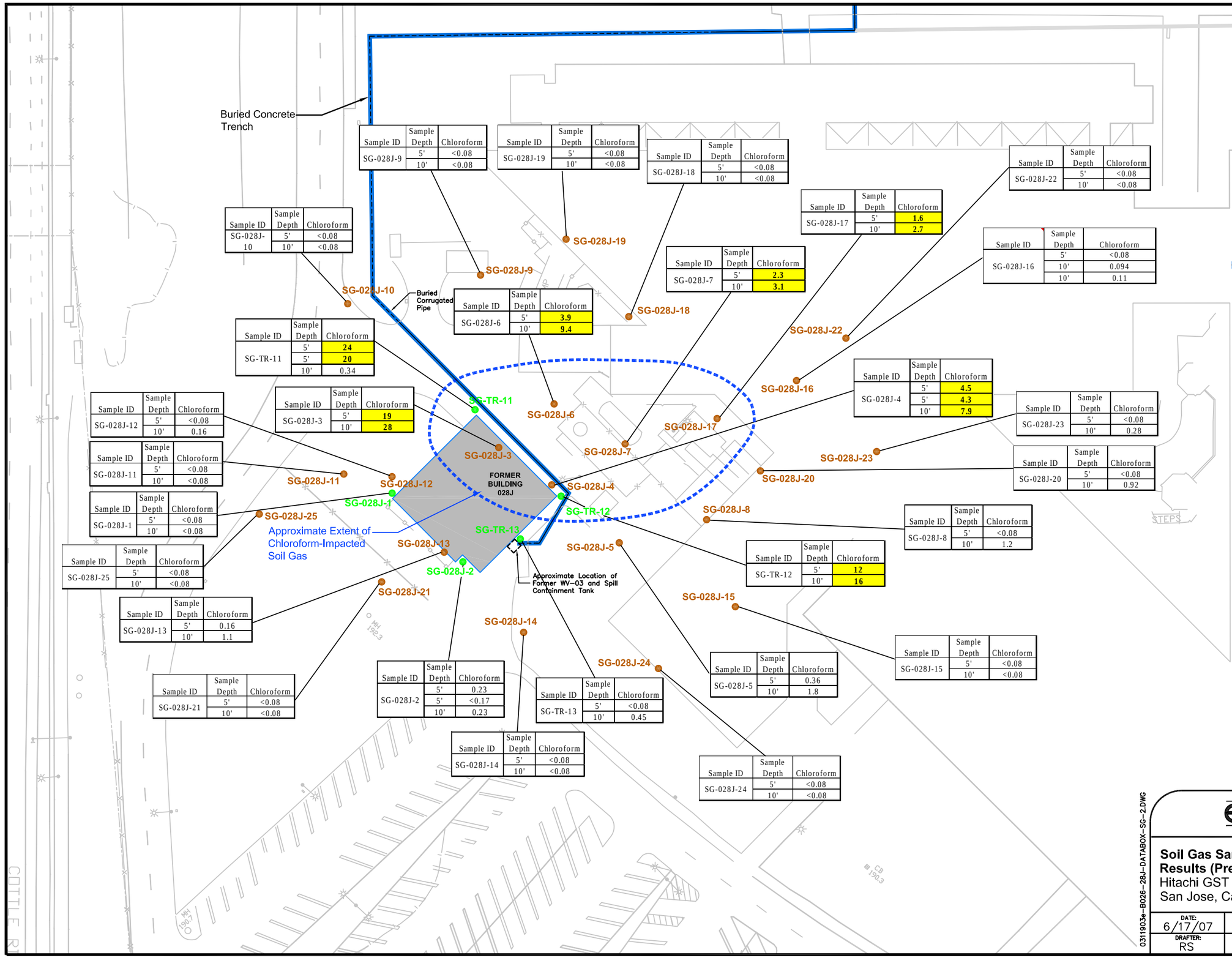


Sample ID	Sample Depth	Chloroform
SG-028J-9	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-19	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-18	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-22	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-17	5'	1.6
	10'	2.7

Sample ID	Sample Depth	Chloroform
SG-028J-10	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-7	5'	2.3
	10'	3.1

Sample ID	Sample Depth	Chloroform
SG-028J-16	5'	<0.08
	10'	0.094
	10'	0.11

Sample ID	Sample Depth	Chloroform
SG-028J-6	5'	3.9
	10'	9.4

Sample ID	Sample Depth	Chloroform
SG-TR-11	5'	24
	5'	20
	10'	0.34

Sample ID	Sample Depth	Chloroform
SG-028J-4	5'	4.5
	5'	4.3
	10'	7.9

Sample ID	Sample Depth	Chloroform
SG-028J-12	5'	<0.08
	10'	0.16

Sample ID	Sample Depth	Chloroform
SG-028J-3	5'	19
	10'	28

Sample ID	Sample Depth	Chloroform
SG-028J-23	5'	<0.08
	10'	0.28

Sample ID	Sample Depth	Chloroform
SG-028J-11	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-20	5'	<0.08
	10'	0.92

Sample ID	Sample Depth	Chloroform
SG-028J-1	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-8	5'	<0.08
	10'	1.2

Sample ID	Sample Depth	Chloroform
SG-028J-25	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-TR-12	5'	12
	10'	16

Sample ID	Sample Depth	Chloroform
SG-028J-13	5'	0.16
	10'	1.1

Sample ID	Sample Depth	Chloroform
SG-028J-15	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-5	5'	0.36
	10'	1.8

Sample ID	Sample Depth	Chloroform
SG-028J-21	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-2	5'	0.23
	5'	<0.17
	10'	0.23

Sample ID	Sample Depth	Chloroform
SG-TR-13	5'	<0.08
	10'	0.45

Sample ID	Sample Depth	Chloroform
SG-028J-14	5'	<0.08
	10'	<0.08

Sample ID	Sample Depth	Chloroform
SG-028J-24	5'	<0.08
	10'	<0.08

EXPLANATION:

- Surveyed Soil Gas Sample Location (March 2007)
- Approximate Soil Gas Sample Location (November 2005)
- Section of Trench Previously Removed

Notes:

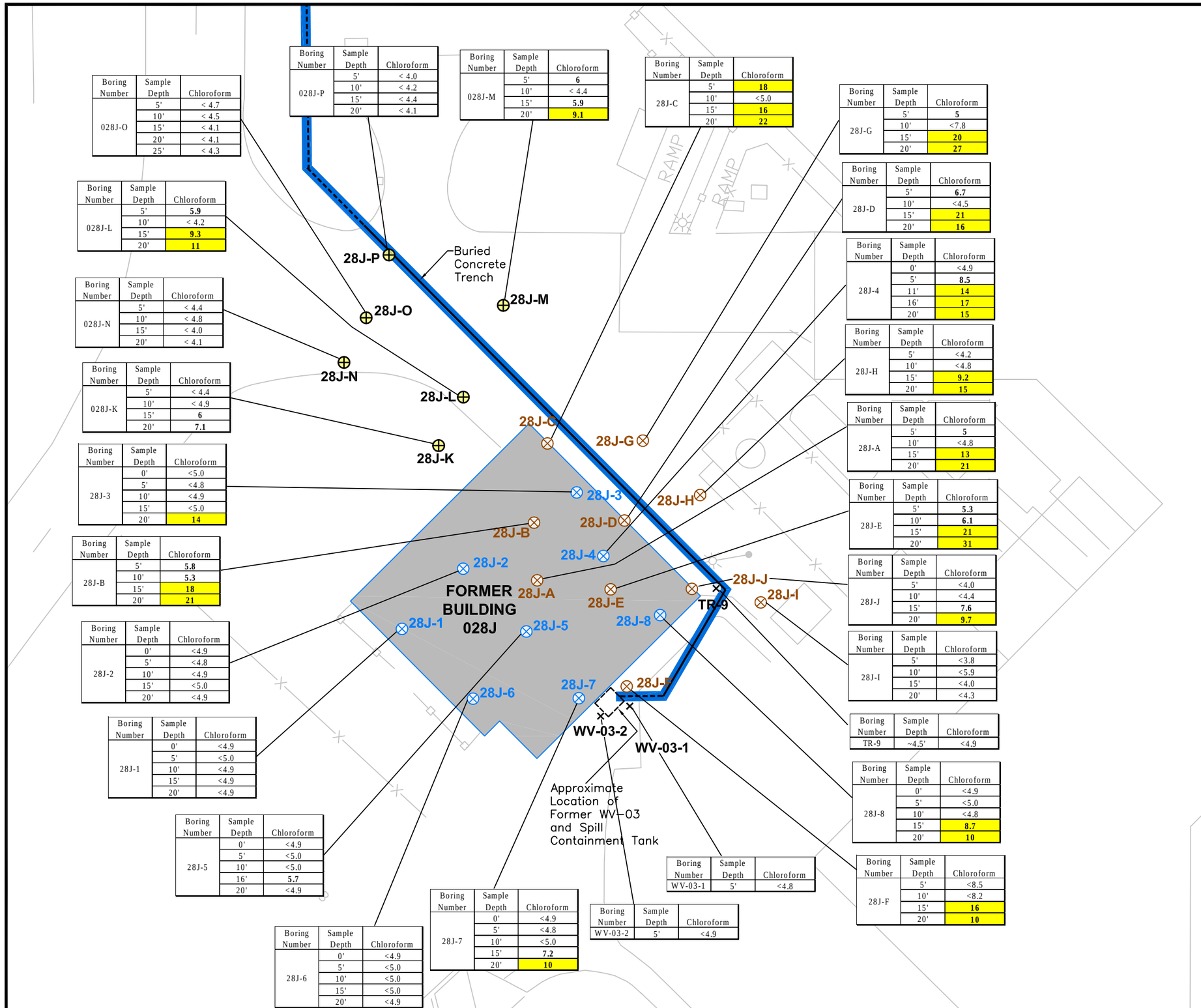
1. Results shown in microgram per liter (µg/L).
2. Yellow highlighted text indicates the concentration of chloroform in soil gas exceeds the residential risk-based target concentration (RBTC) of 1.1 µg/L (5') or 1.9 µg/L (10'). (assuming migration of vapors into a home).
3. < = Not detected at the listed detection limit

ENVIRON

Soil Gas Sample Locations and Chloroform Results (Pre-Remediation)
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/17/07	03-11903E		4
DRAFTER: RS	APPROVED:	REVISED:	

0311903e-B026-28J-DATABOX-SG-2.DWG



Boring Number	Sample Depth	Chloroform
028J-O	5'	< 4.7
	10'	< 4.5
	15'	< 4.1
	20'	< 4.1
	25'	< 4.3

Boring Number	Sample Depth	Chloroform
028J-P	5'	< 4.0
	10'	< 4.2
	15'	< 4.4
	20'	< 4.1

Boring Number	Sample Depth	Chloroform
028J-M	5'	6
	10'	< 4.4
	15'	5.9
	20'	9.1

Boring Number	Sample Depth	Chloroform
28J-C	5'	18
	10'	<5.0
	15'	16
	20'	22

Boring Number	Sample Depth	Chloroform
28J-G	5'	5
	10'	<7.8
	15'	20
	20'	27

Boring Number	Sample Depth	Chloroform
028J-L	5'	5.9
	10'	< 4.2
	15'	9.3
	20'	11

Boring Number	Sample Depth	Chloroform
28J-D	5'	6.7
	10'	<4.5
	15'	21
	20'	16

Boring Number	Sample Depth	Chloroform
028J-N	5'	< 4.4
	10'	< 4.8
	15'	< 4.0
	20'	< 4.1

Boring Number	Sample Depth	Chloroform
28J-4	0'	<4.9
	5'	8.5
	11'	14
	16'	17
	20'	15

Boring Number	Sample Depth	Chloroform
028J-K	5'	< 4.4
	10'	< 4.9
	15'	6
	20'	7.1

Boring Number	Sample Depth	Chloroform
28J-H	5'	<4.2
	10'	<4.8
	15'	9.2
	20'	15

Boring Number	Sample Depth	Chloroform
28J-A	5'	5
	10'	<4.8
	15'	13
	20'	21

Boring Number	Sample Depth	Chloroform
28J-3	0'	<5.0
	5'	<4.8
	10'	<4.9
	15'	<5.0
	20'	14

Boring Number	Sample Depth	Chloroform
28J-E	5'	5.3
	10'	6.1
	15'	21
	20'	31

Boring Number	Sample Depth	Chloroform
28J-B	5'	5.8
	10'	5.3
	15'	18
	20'	21

Boring Number	Sample Depth	Chloroform
28J-J	5'	<4.0
	10'	<4.4
	15'	7.6
	20'	9.7

Boring Number	Sample Depth	Chloroform
28J-2	0'	<4.9
	5'	<4.8
	10'	<4.9
	15'	<5.0
	20'	<4.9

Boring Number	Sample Depth	Chloroform
28J-I	5'	<3.8
	10'	<5.9
	15'	<4.0
	20'	<4.3

Boring Number	Sample Depth	Chloroform
TR-9	~4.5'	<4.9

Boring Number	Sample Depth	Chloroform
28J-1	0'	<4.9
	5'	<5.0
	10'	<4.9
	15'	<4.9
	20'	<4.9

Boring Number	Sample Depth	Chloroform
28J-8	0'	<4.9
	5'	<5.0
	10'	<4.8
	15'	8.7
	20'	10

Boring Number	Sample Depth	Chloroform
28J-5	0'	<4.9
	5'	<5.0
	10'	<5.0
	16'	5.7
	20'	<4.9

Boring Number	Sample Depth	Chloroform
WV-03-1	5'	<4.8

Boring Number	Sample Depth	Chloroform
28J-F	5'	<8.5
	10'	<8.2
	15'	16
	20'	10

Boring Number	Sample Depth	Chloroform
28J-7	0'	<4.9
	5'	<4.8
	10'	<5.0
	15'	7.2
	20'	10

Boring Number	Sample Depth	Chloroform
WV-03-2	5'	<4.9

Boring Number	Sample Depth	Chloroform
28J-6	0'	<4.9
	5'	<5.0
	10'	<5.0
	15'	<5.0
	20'	<4.9

EXPLANATION:

- Approximate Soil Boring Location (0-20 feet) (September 2006)
- Surveyed Soil Boring Location (0-20 feet) (December 2006)
- Approximate Soil Sample Location (4-5 feet)
- Surveyed Soil Boring Location (0-25 feet) (January 2007)
- Section of Trench Previously Removed

Notes:

1. Results shown in microgram per kilogram (µg/kg).
2. Yellow highlighted text indicates the concentration of chloroform in soil exceeds the residential risk-based target concentration (RBTC) of 8.7 µg/kg (assuming direct contact with soil on a daily basis).
3. < = Not detected at the listed detection limit

N

0 25

SCALE IN FEET

ENVIRON

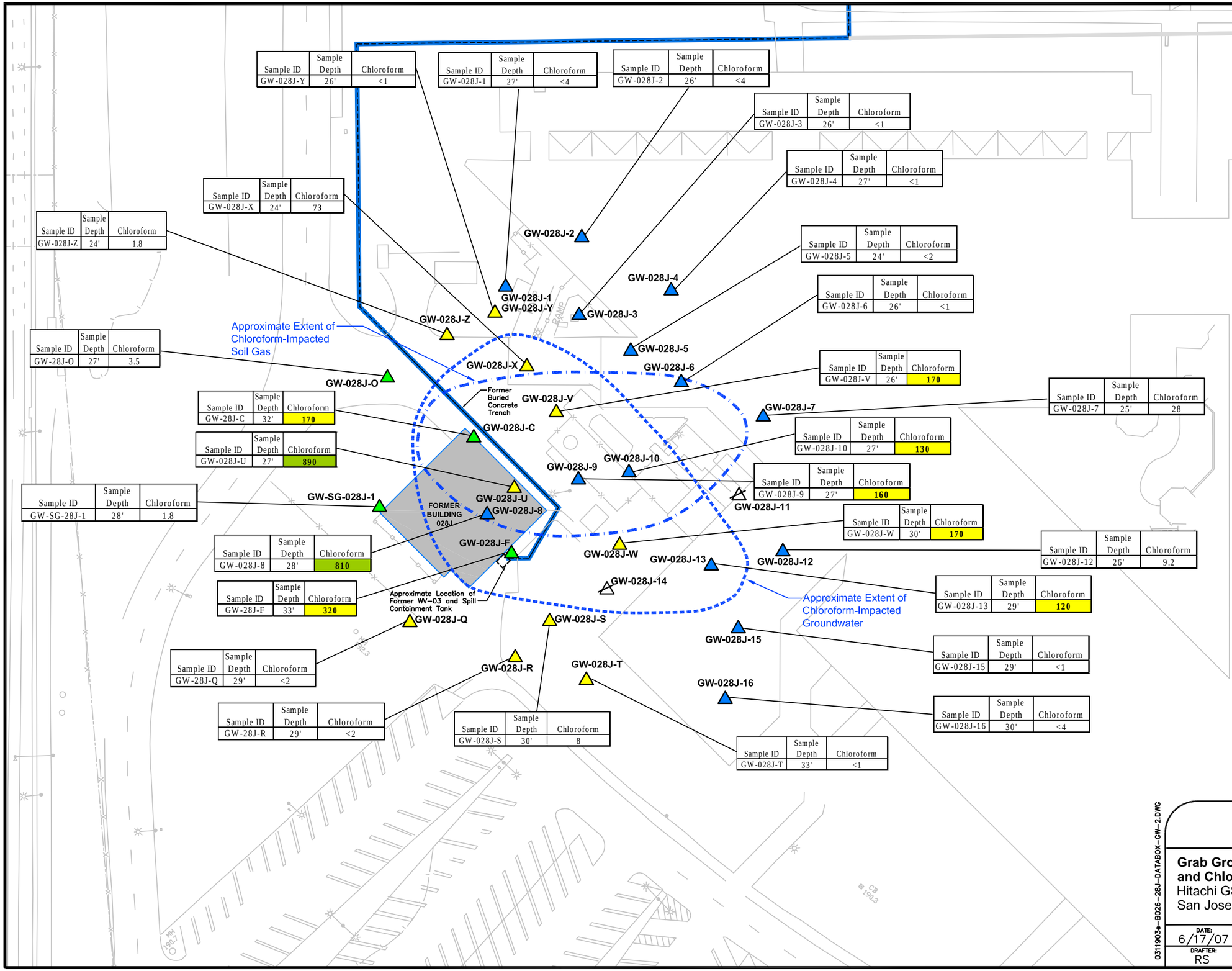
Soil Sample Locations and Chloroform Results (Pre-Remediation)

Hitachi GST

San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/17/07	03-11903E		5
DRAFTER: RS	APPROVED:	REVISED:	

0311903e-b026-28j-exceed-gw-chem.dwg



Sample ID	Sample Depth	Chloroform
GW-028J-Y	26'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-1	27'	<4

Sample ID	Sample Depth	Chloroform
GW-028J-2	26'	<4

Sample ID	Sample Depth	Chloroform
GW-028J-3	26'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-4	27'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-5	24'	<2

Sample ID	Sample Depth	Chloroform
GW-028J-6	26'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-V	26'	170

Sample ID	Sample Depth	Chloroform
GW-028J-7	25'	28

Sample ID	Sample Depth	Chloroform
GW-028J-10	27'	130

Sample ID	Sample Depth	Chloroform
GW-028J-9	27'	160

Sample ID	Sample Depth	Chloroform
GW-028J-W	30'	170

Sample ID	Sample Depth	Chloroform
GW-028J-12	26'	9.2

Sample ID	Sample Depth	Chloroform
GW-028J-13	29'	120

Sample ID	Sample Depth	Chloroform
GW-028J-15	29'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-16	30'	<4

Sample ID	Sample Depth	Chloroform
GW-028J-T	33'	<1

Sample ID	Sample Depth	Chloroform
GW-028J-S	30'	8

Sample ID	Sample Depth	Chloroform
GW-028J-R	29'	<2

Sample ID	Sample Depth	Chloroform
GW-028J-Q	29'	<2

Sample ID	Sample Depth	Chloroform
GW-SG-028J-1	28'	1.8

Sample ID	Sample Depth	Chloroform
GW-028J-F	33'	320

Sample ID	Sample Depth	Chloroform
GW-028J-8	28'	810

Sample ID	Sample Depth	Chloroform
GW-028J-U	27'	890

Sample ID	Sample Depth	Chloroform
GW-28J-C	32'	170

Sample ID	Sample Depth	Chloroform
GW-28J-O	27'	3.5

Sample ID	Sample Depth	Chloroform
GW-028J-Z	24'	1.8

Sample ID	Sample Depth	Chloroform
GW-028J-X	24'	73

EXPLANATION:

- Surveyed Grab Groundwater Sample Location (January 24 & 25 2007)
- Surveyed Grab Groundwater Sample Location (February 28 & March 1, 2007)
- Surveyed Grab Groundwater Sample Location (March 12 & 13 2007)
- Proposed Grab Groundwater Sample Location. Well was not successfully completed at this location; therefore, grab groundwater sample was not collected.

Notes:

1. Results shown in microgram per liter (µg/L).
2. Green highlighted text indicates the concentration of chloroform in groundwater exceeds the residential risk-based target concentration (RBTC) of 380 µg/L (assuming migration of vapors into a home).
3. Yellow highlighted text indicates the concentration of chloroform in groundwater exceeds the RWQCB-SF Cleanup Standard of 80 µg/L (assuming use as a drinking water source).
4. < = Not detected at the listed detection limit

N

0 50

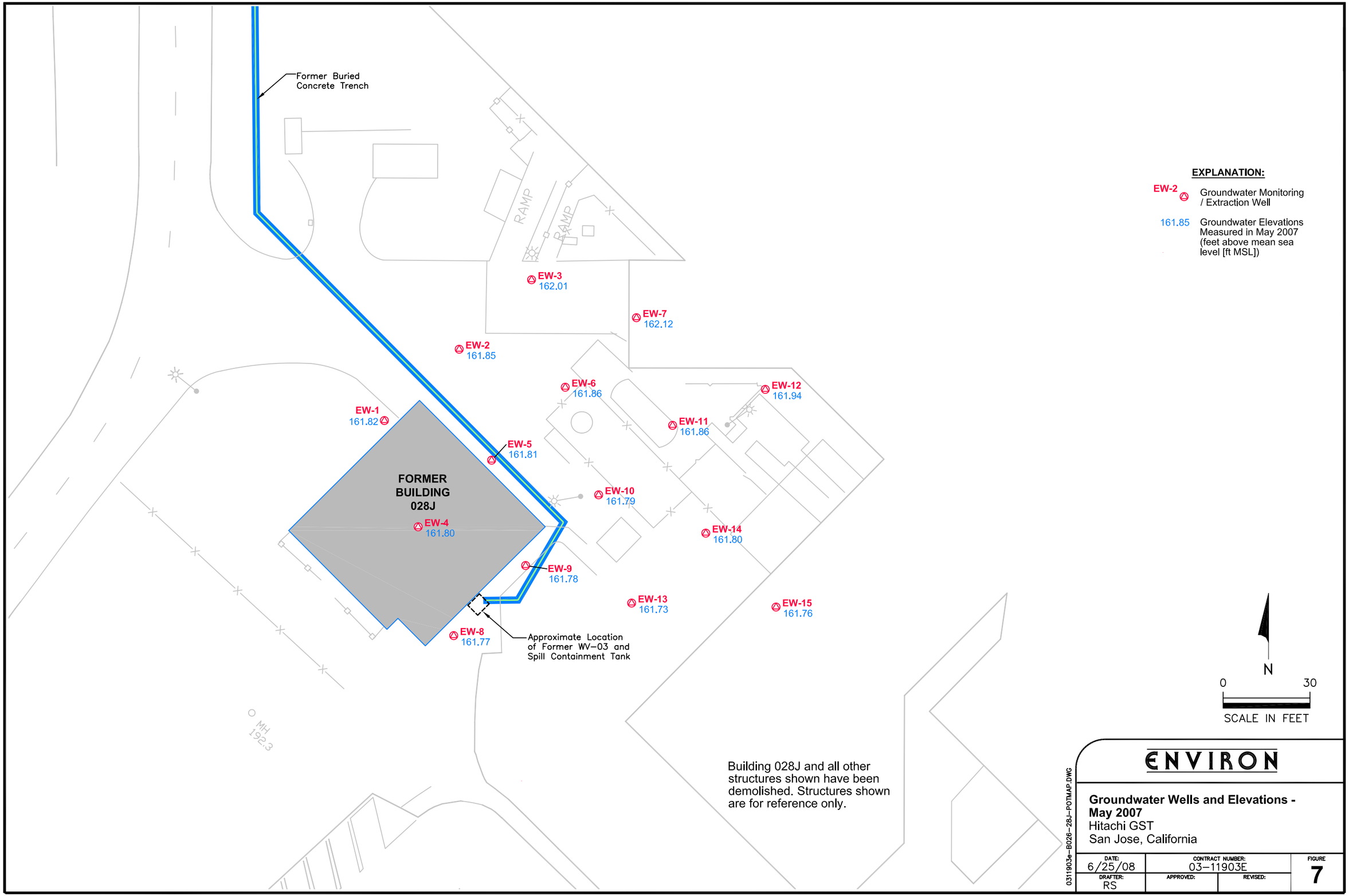
SCALE IN FEET

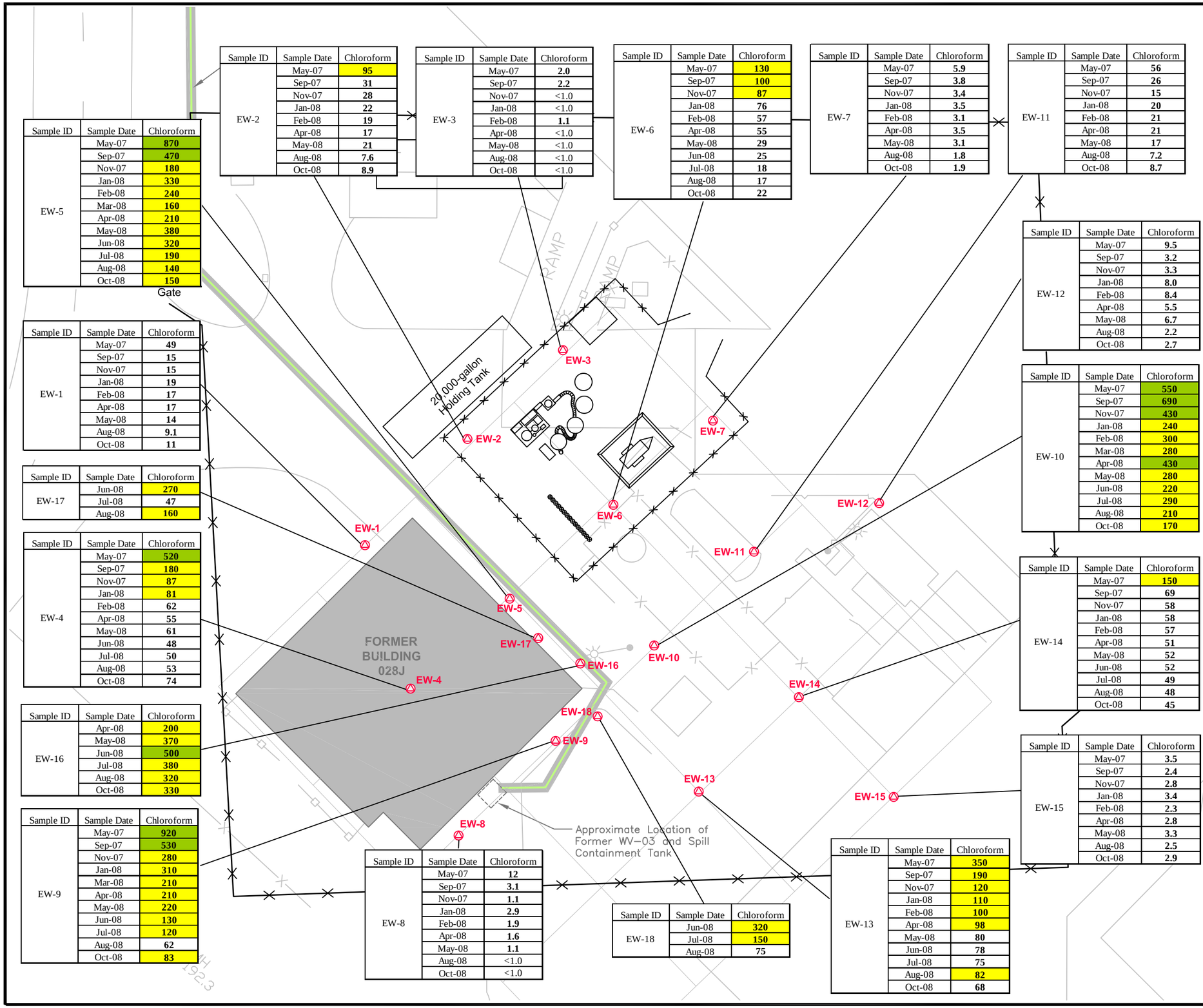
ENVIRON

Grab Groundwater Sample Locations and Chloroform Results (Pre-Remediation)
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/17/07	03-11903E		6
DRAFTER: RS	APPROVED:	REVISED:	

0311903e-B026-28J-DATABOX-GW-2.DWG


Former Buried Concrete Trench
RAMP
RAMP
EW-3
162.01
EW-7
162.12
EW-2
161.85
EW-6
161.86
EW-12
161.94
EW-1
161.82
EW-11
161.86
EW-5
161.81
FORMER BUILDING 028J
EW-10
161.79
EW-4
161.80
EW-14
161.80
EW-9
161.78
EW-13
161.73
EW-15
161.76
EW-8
161.77
Approximate Location of Former WV-03 and Spill Containment Tank
MH
192.3
EXPLANATION:
EW-2 Groundwater Monitoring / Extraction Well
161.85 Groundwater Elevations Measured in May 2007 (feet above mean sea level [ft MSL])
N
0
30
SCALE IN FEET
Building 028J and all other structures shown have been demolished. Structures shown are for reference only.
ENVIRON
Groundwater Wells and Elevations - May 2007
Hitachi GST
San Jose, California
DATE: 6/25/08
CONTRACT NUMBER: 03-11903E
FIGURE 7
DRAFTER: RS
APPROVED:
REVISED:
0311903e-B026-28J-POTMAP.DWG



Sample ID	Sample Date	Chloroform
EW-2	May-07	95
	Sep-07	31
	Nov-07	28
	Jan-08	22
	Feb-08	19
	Apr-08	17
	May-08	21
	Aug-08	7.6
	Oct-08	8.9

Sample ID	Sample Date	Chloroform
EW-3	May-07	2.0
	Sep-07	2.2
	Nov-07	<1.0
	Jan-08	<1.0
	Feb-08	1.1
	Apr-08	<1.0
	May-08	<1.0
	Aug-08	<1.0
	Oct-08	<1.0

Sample ID	Sample Date	Chloroform
EW-6	May-07	130
	Sep-07	100
	Nov-07	87
	Jan-08	76
	Feb-08	57
	Apr-08	55
	May-08	29
	Jun-08	25
	Jul-08	18
	Aug-08	17
	Oct-08	22

Sample ID	Sample Date	Chloroform
EW-7	May-07	5.9
	Sep-07	3.8
	Nov-07	3.4
	Jan-08	3.5
	Feb-08	3.1
	Apr-08	3.5
	May-08	3.1
	Aug-08	1.8
	Oct-08	1.9

Sample ID	Sample Date	Chloroform
EW-11	May-07	56
	Sep-07	26
	Nov-07	15
	Jan-08	20
	Feb-08	21
	Apr-08	21
	May-08	17
	Aug-08	7.2
	Oct-08	8.7

Sample ID	Sample Date	Chloroform
EW-5	May-07	870
	Sep-07	470
	Nov-07	180
	Jan-08	330
	Feb-08	240
	Mar-08	160
	Apr-08	210
	May-08	380
	Jun-08	320
	Jul-08	190
	Aug-08	140
	Oct-08	150

Sample ID	Sample Date	Chloroform
EW-1	May-07	49
	Sep-07	15
	Nov-07	15
	Jan-08	19
	Feb-08	17
	Apr-08	17
	May-08	14
	Aug-08	9.1
	Oct-08	11

Sample ID	Sample Date	Chloroform
EW-17	Jun-08	270
	Jul-08	47
	Aug-08	160

Sample ID	Sample Date	Chloroform
EW-4	May-07	520
	Sep-07	180
	Nov-07	87
	Jan-08	81
	Feb-08	62
	Apr-08	55
	May-08	61
	Jun-08	48
	Jul-08	50
	Aug-08	53
	Oct-08	74

Sample ID	Sample Date	Chloroform
EW-16	Apr-08	200
	May-08	370
	Jun-08	500
	Jul-08	380
	Aug-08	320
	Oct-08	330

Sample ID	Sample Date	Chloroform
EW-9	May-07	920
	Sep-07	530
	Nov-07	280
	Jan-08	310
	Mar-08	210
	Apr-08	210
	May-08	220
	Jun-08	130
	Jul-08	120
	Aug-08	62
	Oct-08	83

Sample ID	Sample Date	Chloroform
EW-8	May-07	12
	Sep-07	3.1
	Nov-07	1.1
	Jan-08	2.9
	Feb-08	1.9
	Apr-08	1.6
	May-08	1.1
	Aug-08	<1.0
	Oct-08	<1.0

Sample ID	Sample Date	Chloroform
EW-18	Jun-08	320
	Jul-08	150
	Aug-08	75

Sample ID	Sample Date	Chloroform
EW-13	May-07	350
	Sep-07	190
	Nov-07	120
	Jan-08	110
	Feb-08	100
	Apr-08	98
	May-08	80
	Jun-08	78
	Jul-08	75
	Aug-08	82
	Oct-08	68

Sample ID	Sample Date	Chloroform
EW-12	May-07	9.5
	Sep-07	3.2
	Nov-07	3.3
	Jan-08	8.0
	Feb-08	8.4
	Apr-08	5.5
	May-08	6.7
	Aug-08	2.2
	Oct-08	2.7

Sample ID	Sample Date	Chloroform
EW-10	May-07	550
	Sep-07	690
	Nov-07	430
	Jan-08	240
	Feb-08	300
	Mar-08	280
	Apr-08	430
	May-08	280
	Jun-08	220
	Jul-08	290
	Aug-08	210
	Oct-08	170

Sample ID	Sample Date	Chloroform
EW-14	May-07	150
	Sep-07	69
	Nov-07	58
	Jan-08	58
	Feb-08	57
	Apr-08	51
	May-08	52
	Jun-08	52
	Jul-08	49
	Aug-08	48
	Oct-08	45

Sample ID	Sample Date	Chloroform
EW-15	May-07	3.5
	Sep-07	2.4
	Nov-07	2.8
	Jan-08	3.4
	Feb-08	2.3
	Apr-08	2.8
	May-08	3.3
	Aug-08	2.5
	Oct-08	2.9

EXPLANATION:

EW-12 — Groundwater Monitoring / Extraction Well

Construction Fence

12-foot Security Fence

Notes:

1. Results shown in microgram per liter (µg/L).
2. Green highlighted text indicates the concentration of chloroform in groundwater exceeds the residential risk-based target concentration (RBTC) of 380 µg/L (assuming migration of vapors into a home).
3. Yellow highlighted text indicates the concentration of chloroform in groundwater exceeds the RWQCB-SF Cleanup Standard of 80 µg/L (assuming use as a drinking water source).
4. < = Not detected at the detection limit listed.

N

0 25

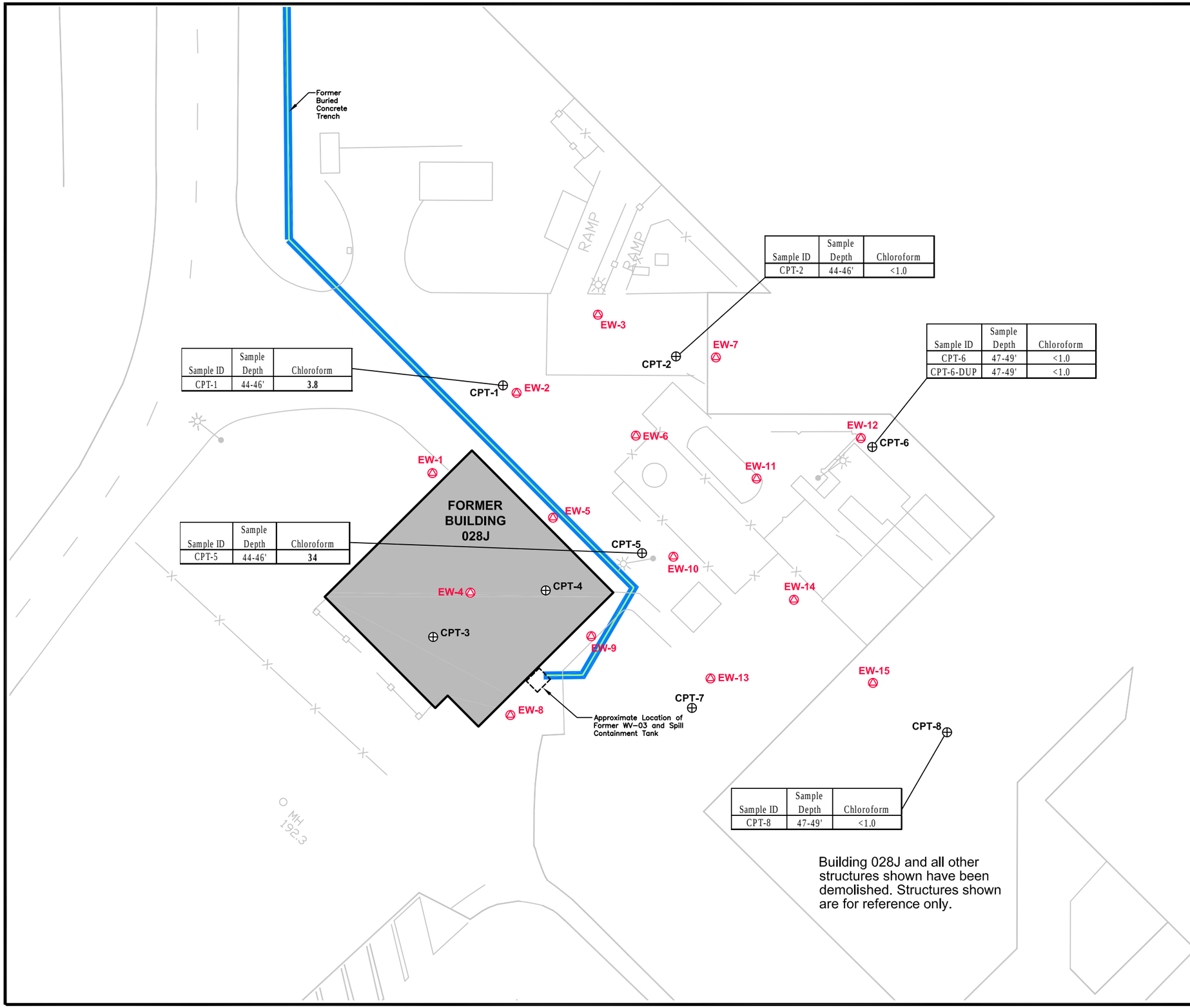
SCALE IN FEET

ENVIRON

Chloroform Results in Groundwater Wells in the Former Building 028J Area
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
10/21/08	03-11903E		8
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-b026-28J-GW-chlorform-OCT-08.dwg – Thu, 13 Nov 2008 – 4:37pm



Sample ID	Sample Depth	Chloroform
CPT-2	44-46'	<1.0

Sample ID	Sample Depth	Chloroform
CPT-1	44-46'	3.8

Sample ID	Sample Depth	Chloroform
CPT-6	47-49'	<1.0
CPT-6-DUP	47-49'	<1.0

Sample ID	Sample Depth	Chloroform
CPT-5	44-46'	34

Sample ID	Sample Depth	Chloroform
CPT-8	47-49'	<1.0

Building 028J and all other structures shown have been demolished. Structures shown are for reference only.

EXPLANATION:

EW-12 Groundwater Monitoring / Extraction Well

CPT Location (April 17-19, 2007)

Notes:

1. Results shown in micrograms per liter (µg/L).
2. CPT-3, CPT-4, and CPT-7 were not sampled.
3. < = Not detected at the listed detection limit.

N

0 30

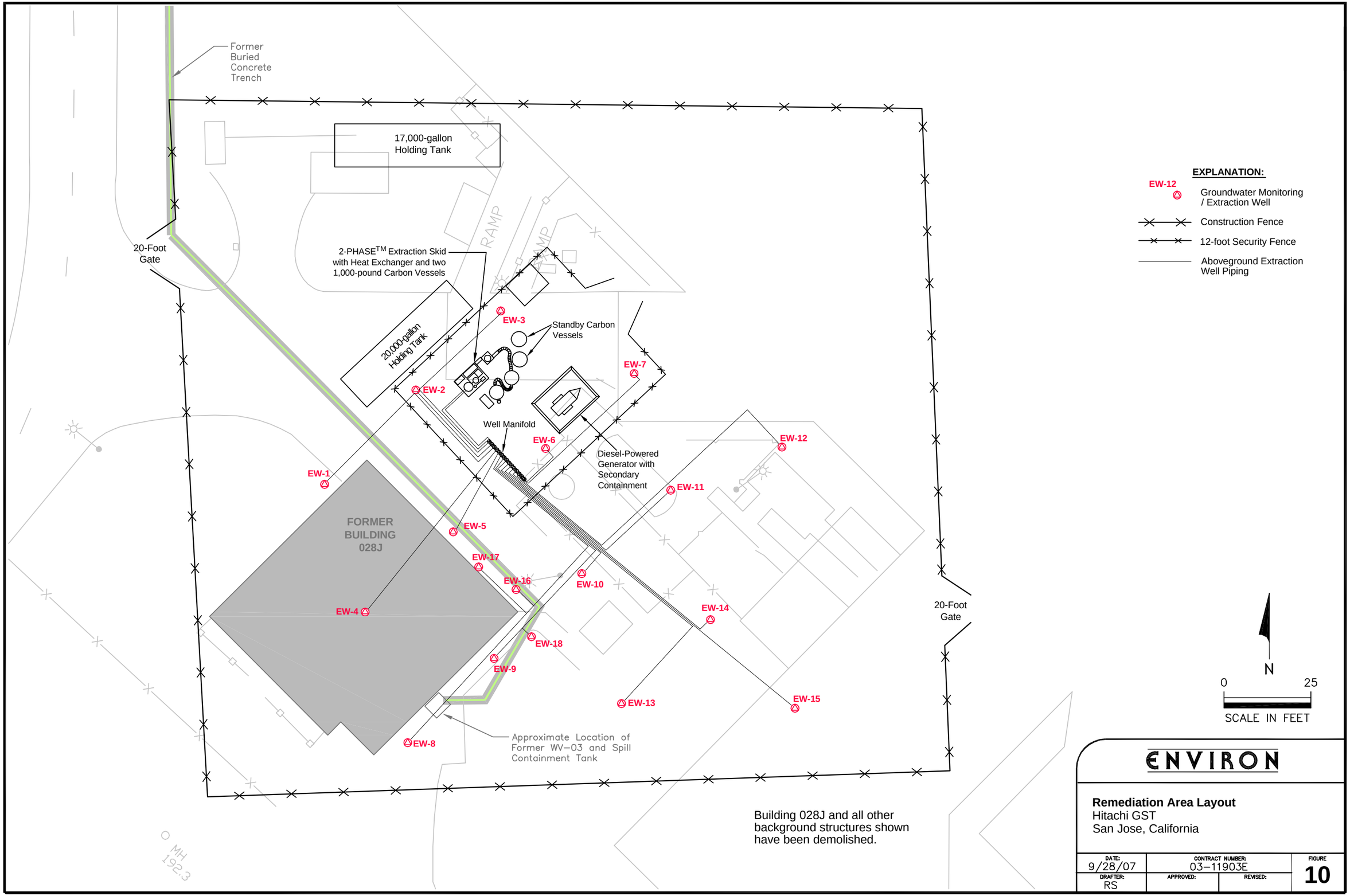
SCALE IN FEET

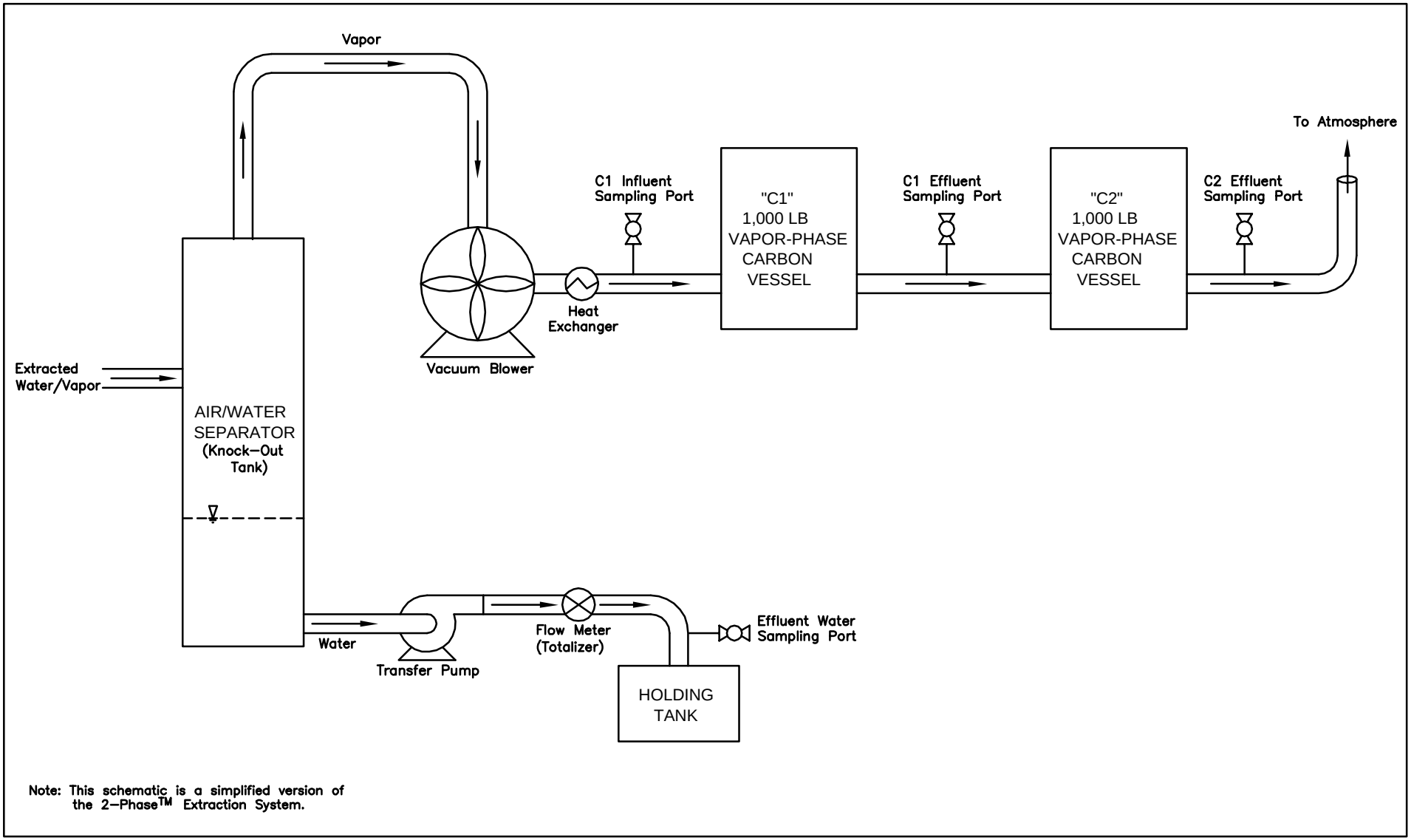
ENVIRON

Chloroform Results in B-Aquifer (Pre-Remediation)
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/25/08	03-11903E		9
DRAFTER: RS	APPROVED:	REVISED:	

0311903e-B026-28J-cpt-databox-2.DWG


Former Buried Concrete Trench
17,000-gallon Holding Tank
RAMP
RAMP
20-Foot Gate
2-PHASE™ Extraction Skid with Heat Exchanger and two 1,000-pound Carbon Vessels
20,000-gallon Holding Tank
EW-3
Standby Carbon Vessels
EW-7
EW-2
Well Manifold
EW-6
Diesel-Powered Generator with Secondary Containment
EW-12
EW-11
EW-1
FORMER BUILDING 028J
EW-5
EW-17
EW-16
EW-10
EW-4
EW-14
EW-18
EW-9
EW-13
EW-15
EW-8
Approximate Location of Former WV-03 and Spill Containment Tank
20-Foot Gate
MH 192.3
EXPLANATION:
EW-12
Groundwater Monitoring / Extraction Well
Construction Fence
12-foot Security Fence
Aboveground Extraction Well Piping
N
0
25
SCALE IN FEET
Building 028J and all other background structures shown have been demolished.
ENVIRON
Remediation Area Layout
Hitachi GST
San Jose, California
DATE: 9/28/07
CONTRACT NUMBER: 03-11903E
FIGURE 10
DRAFTER: RS
APPROVED:
REVISED:
Q:\DRAWINGS\0311903E\0311903e-b026-28J-chloro-remed.dwg - Wed, 25 Jun 2008 - 10:42am



Note: This schematic is a simplified version of the 2–Phase™ Extraction System.

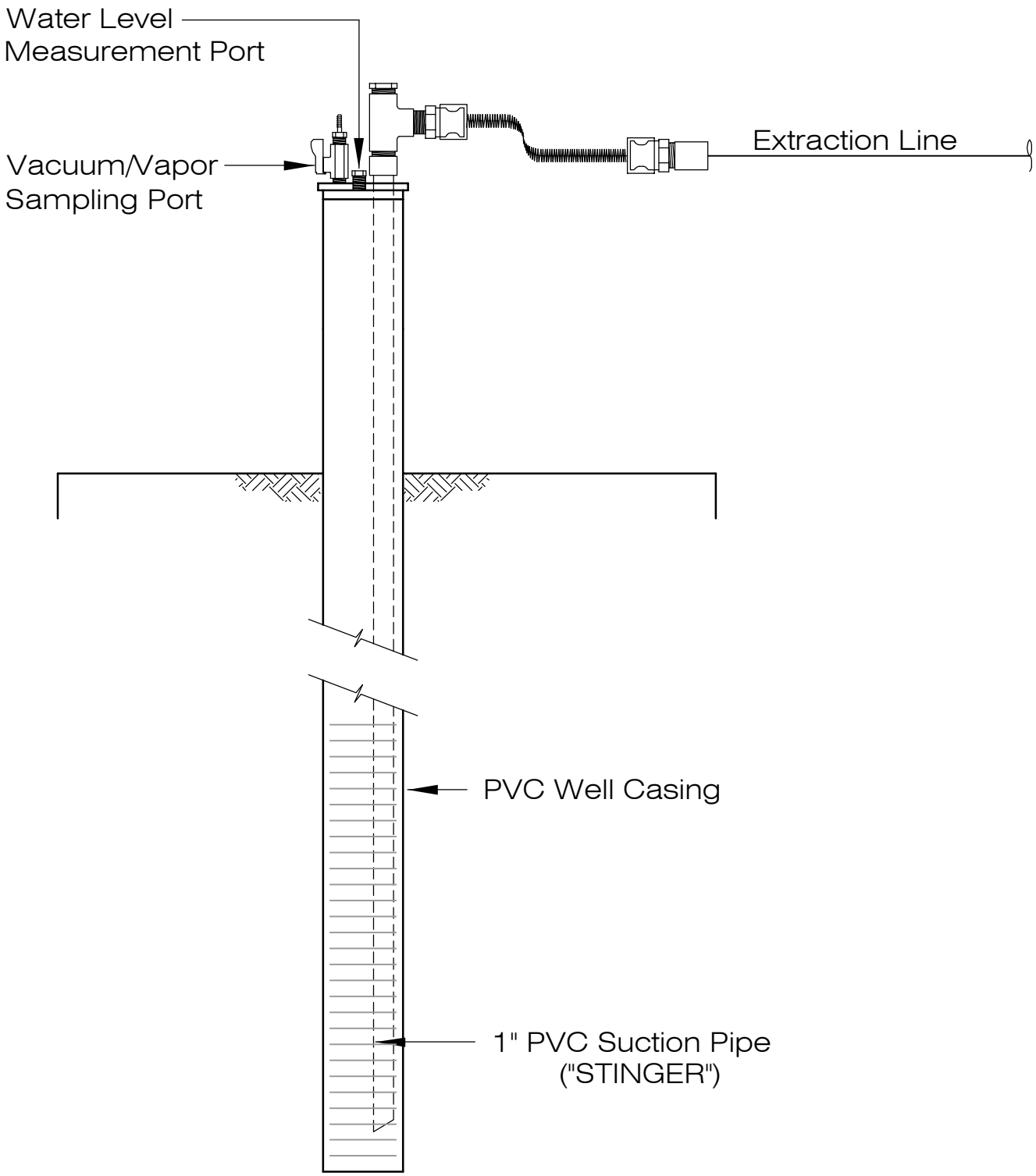
q:\DRAWINGS\0311903E\11903E-SOIL VAPOR PFD

ENVIRON

2-PHASE™ Extraction Process Flow Diagram
Hitachi GST
San Jose, California

Figure
11

Drafter: EC | Date: 9/28/07 | Contract Number: 03-11903E | Approved: | Revised:



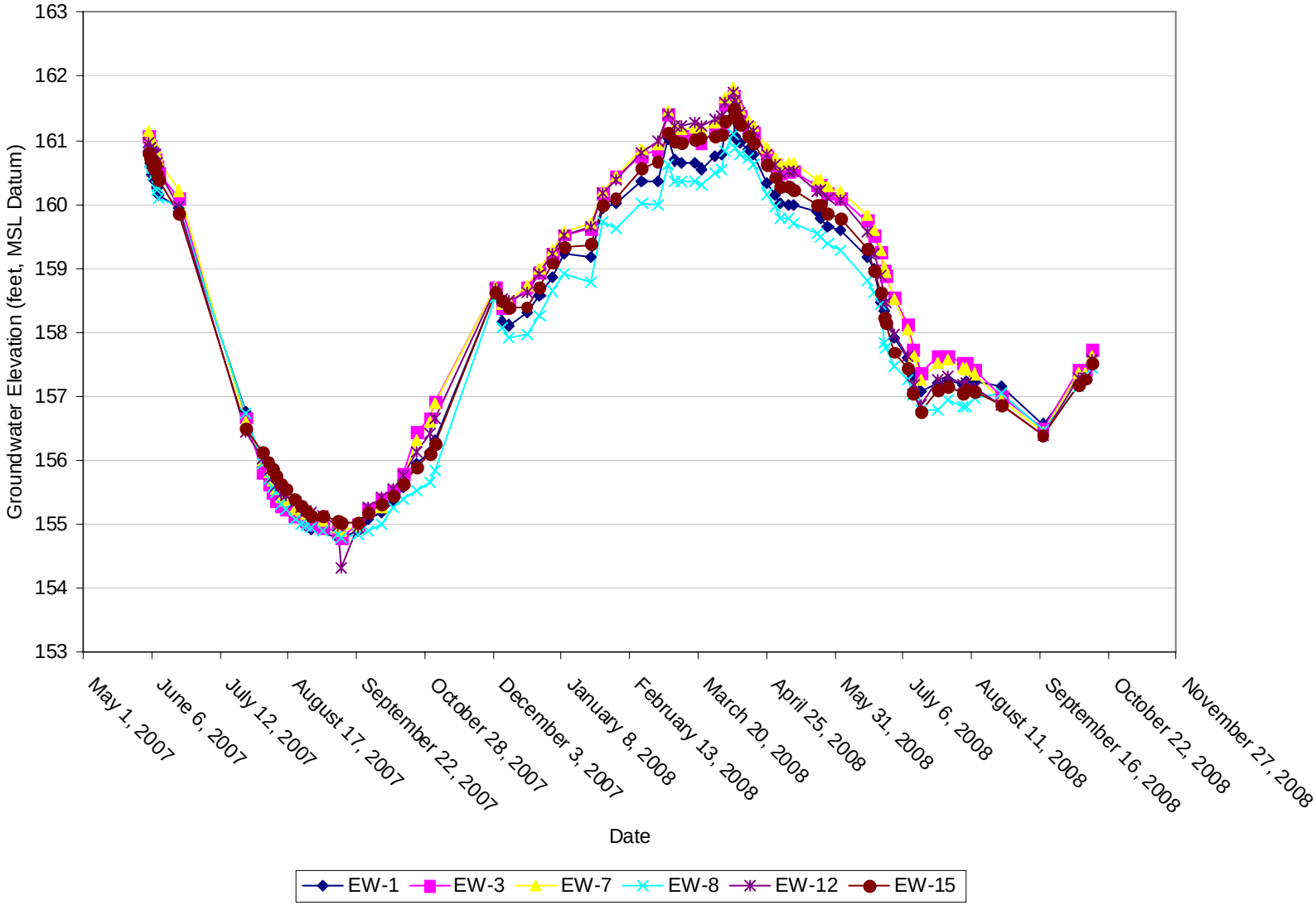
Q:\DRAWINGS\0311903E\11903E-EX-7-2.dwg - Wed, 25 Jun 2008 - 10:46am

ENVIRON

Schematic of 2-Phase ™ Extraction Well Head
Hitachi GST
San Jose, California

Figure
12

Drafter: EC | Date: 9/28/07 | Contract Number: 03-11903E | Approved: | Revised:

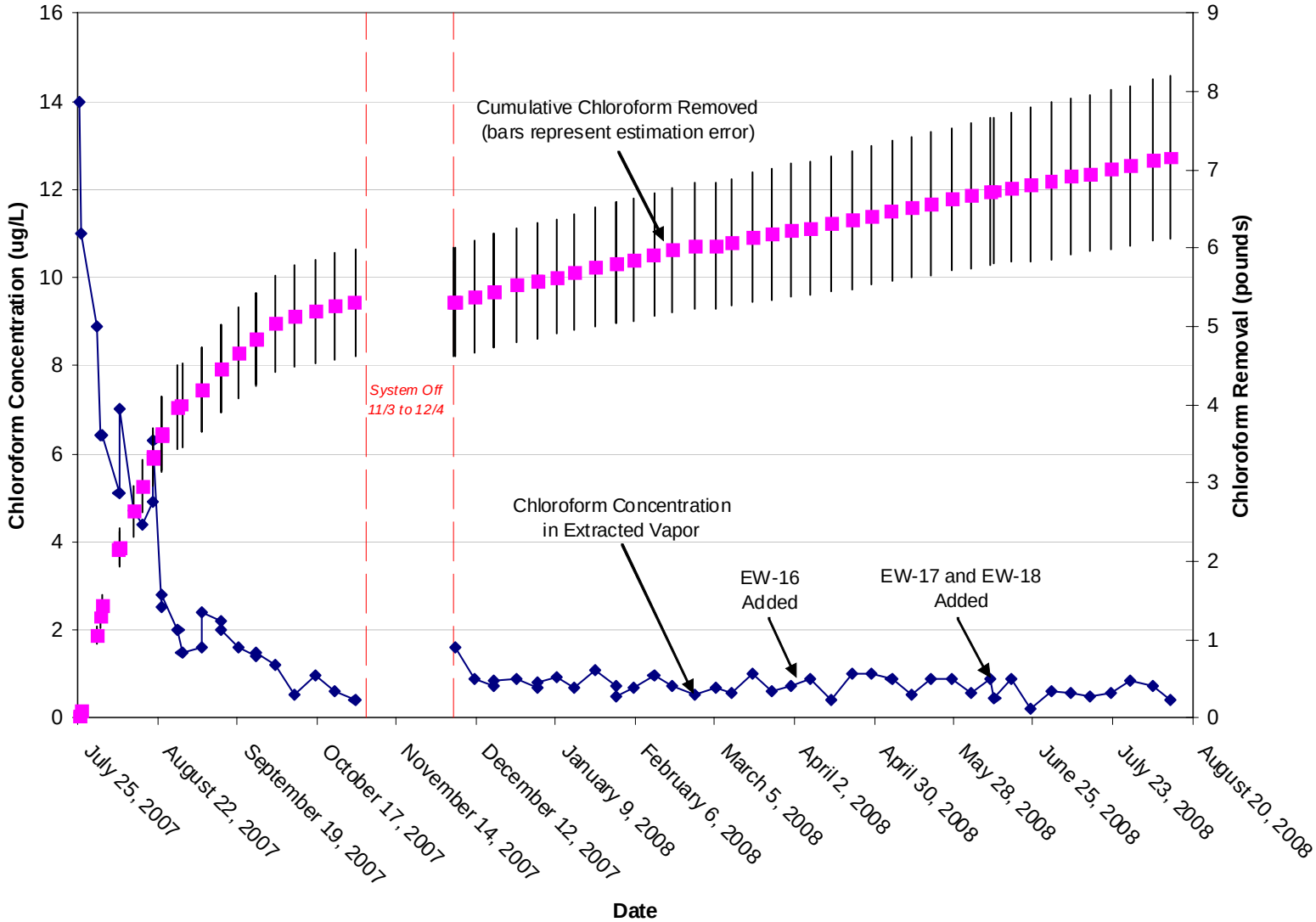


ENVIRON

Groundwater Elevations in Monitoring Wells June 2007 – October 2008
Hitachi GST
San Jose, California

Figure
13

Drafter: CJR Date: 10/27/08 Contract Number: 03-11903E Approved: Revised:

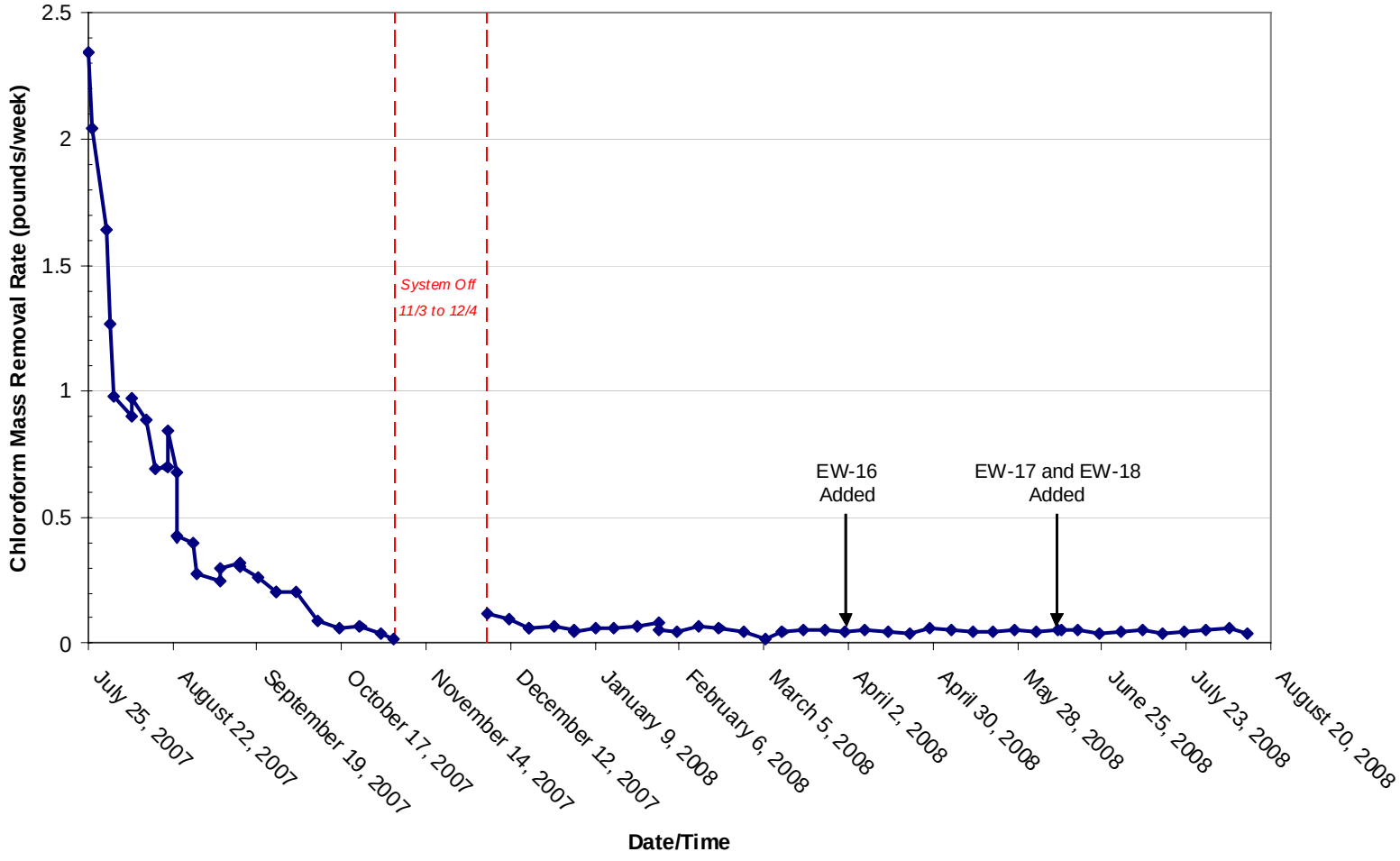


ENVIRON

Chloroform Concentrations in Extracted Vapor and Cumulative Mass Removal
Hitachi GST
San Jose, California

Figure
14

Drafter: CJR Date: 11/6/08 Contract Number: 03-11903E Approved: Revised:

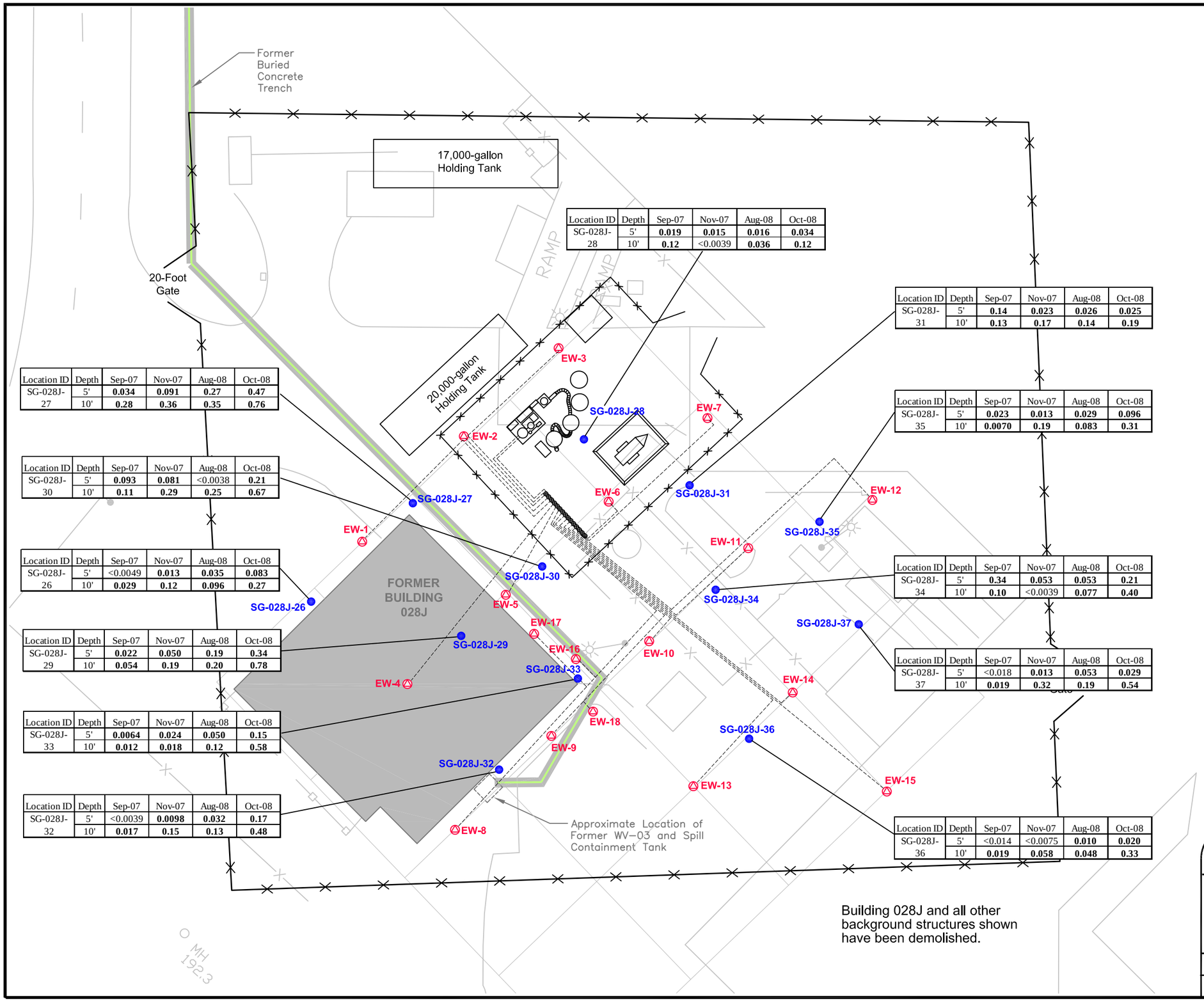


ENVIRON

Chloroform Mass Removal Rate Versus Time
Hitachi GST
San Jose, California

Figure
15

Drafter: CJR Date: 11/6/08 Contract Number: 03-11903E Approved: Revised:



Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-27	5'	**0.034**	**0.091**	**0.27**	**0.47**
	10'	**0.28**	**0.36**	**0.35**	**0.76**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-30	5'	**0.093**	**0.081**	<0.0038	**0.21**
	10'	**0.11**	**0.29**	**0.25**	**0.67**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-26	5'	<0.0049	**0.013**	**0.035**	**0.083**
	10'	**0.029**	**0.12**	**0.096**	**0.27**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-29	5'	**0.022**	**0.050**	**0.19**	**0.34**
	10'	**0.054**	**0.19**	**0.20**	**0.78**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-33	5'	**0.0064**	**0.024**	**0.050**	**0.15**
	10'	**0.012**	**0.018**	**0.12**	**0.58**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-32	5'	<0.0039	**0.0098**	**0.032**	**0.17**
	10'	**0.017**	**0.15**	**0.13**	**0.48**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-28	5'	**0.019**	**0.015**	**0.016**	**0.034**
	10'	**0.12**	<0.0039	**0.036**	**0.12**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-31	5'	**0.14**	**0.023**	**0.026**	**0.025**
	10'	**0.13**	**0.17**	**0.14**	**0.19**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-35	5'	**0.023**	**0.013**	**0.029**	**0.096**
	10'	**0.0070**	**0.19**	**0.083**	**0.31**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-34	5'	**0.34**	**0.053**	**0.053**	**0.21**
	10'	**0.10**	<0.0039	**0.077**	**0.40**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-37	5'	<0.018	**0.013**	**0.053**	**0.029**
	10'	**0.019**	**0.32**	**0.19**	**0.54**

Location ID	Depth	Sep-07	Nov-07	Aug-08	Oct-08
SG-028J-36	5'	<0.014	<0.0075	**0.010**	**0.020**
	10'	**0.019**	**0.058**	**0.048**	**0.33**

EXPLANATION:

EW-12 — Groundwater Monitoring / Extraction Well

Approximate Soil Gas Sample Location

Construction Fence

12-foot Security Fence

Aboveground Extraction Well Piping

Notes:

1. Results shown in microgram per liter (ug/L)
2. The residential risk-based target concentration (RBTC) for chloroform in soil gas is 1.1 ug/L (5') or 1.9 ug/L (10').
3. < = Not detected at the listed detection limit.

Building 028J and all other background structures shown have been demolished.

N

0 25

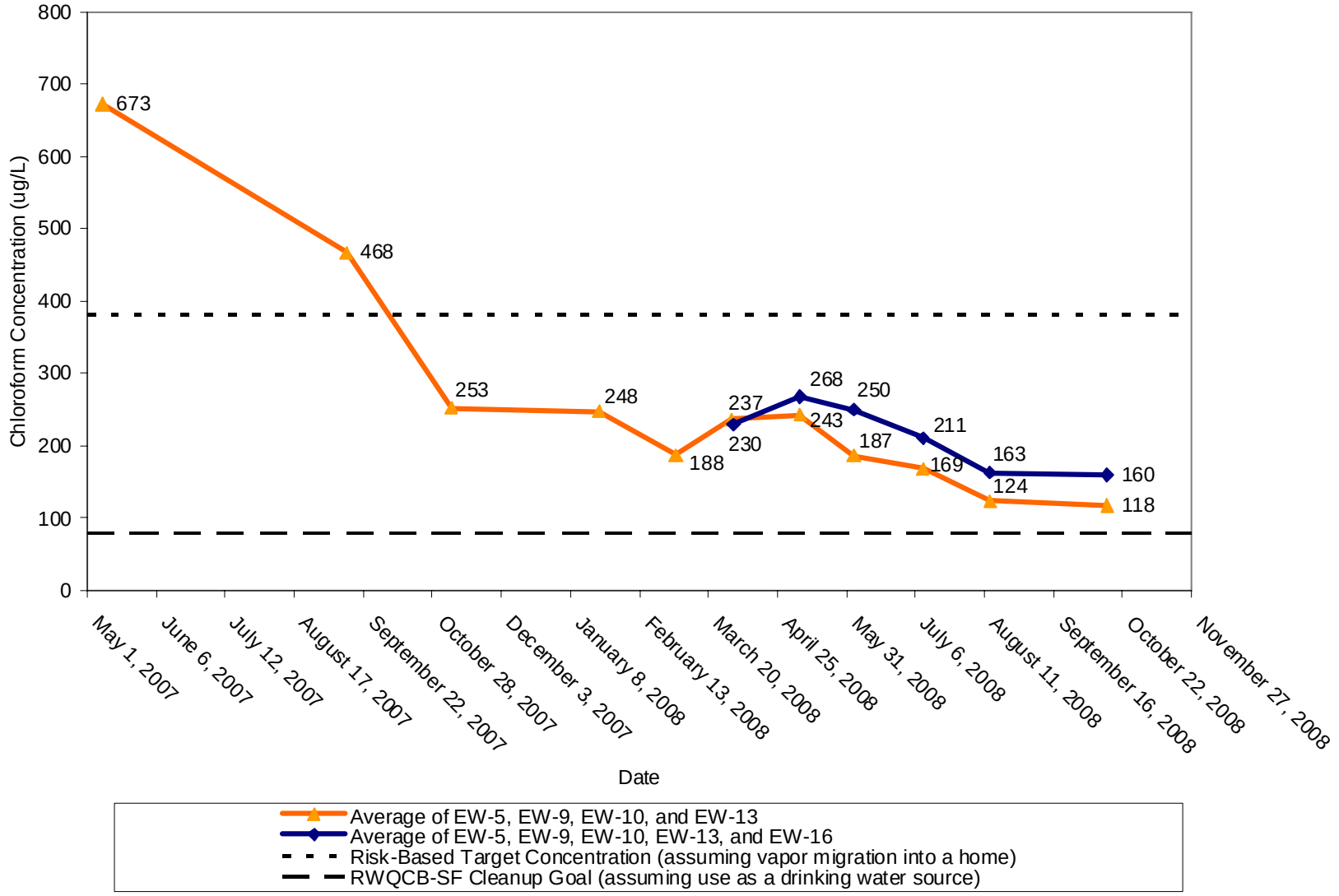
SCALE IN FEET

ENVIRON

Interim and Post-Remediation Soil Gas Sample Locations and Chloroform Results
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
10/21/08	03-11903E		16
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-b026-28J-chloroform-OCT-08.dwg - Thu, 13 Nov 2008 - 4:39pm



ENVIRON

Chloroform Concentration Trend in Area of Residual Chloroform Wells
Hitachi GST
San Jose, California

Figure
17

Drafter: CJR Date: 11/6/08 Contract Number: 03-11903E Approved: Revised:

Former Buried Concrete Trench

17,000-gallon Holding Tank

20-Foot Gate

RAMP

RAMP

20,000-gallon Holding Tank

EW-3

EW-2

EW-7

EW-6

EW-12

EW-11

EW-1

SB-2

SB-1

EW-5

EW-17

SB-4

SB-8

EW-10

EW-16

SB-3

FORMER BUILDING 028J

SB-7

EW-4

EW-14

20-Foot Gate

SB-6

EW-18

EW-9

SB-5

EW-13

EW-15

EW-8

Approximate Location of Former WV-03 and Spill Containment Tank

MH 192.3

EXPLANATION:

Soil Boring Location - April 2008

EW-12 Groundwater Monitoring / Extraction Well

Construction Fence

12-foot Security Fence

N

0 25

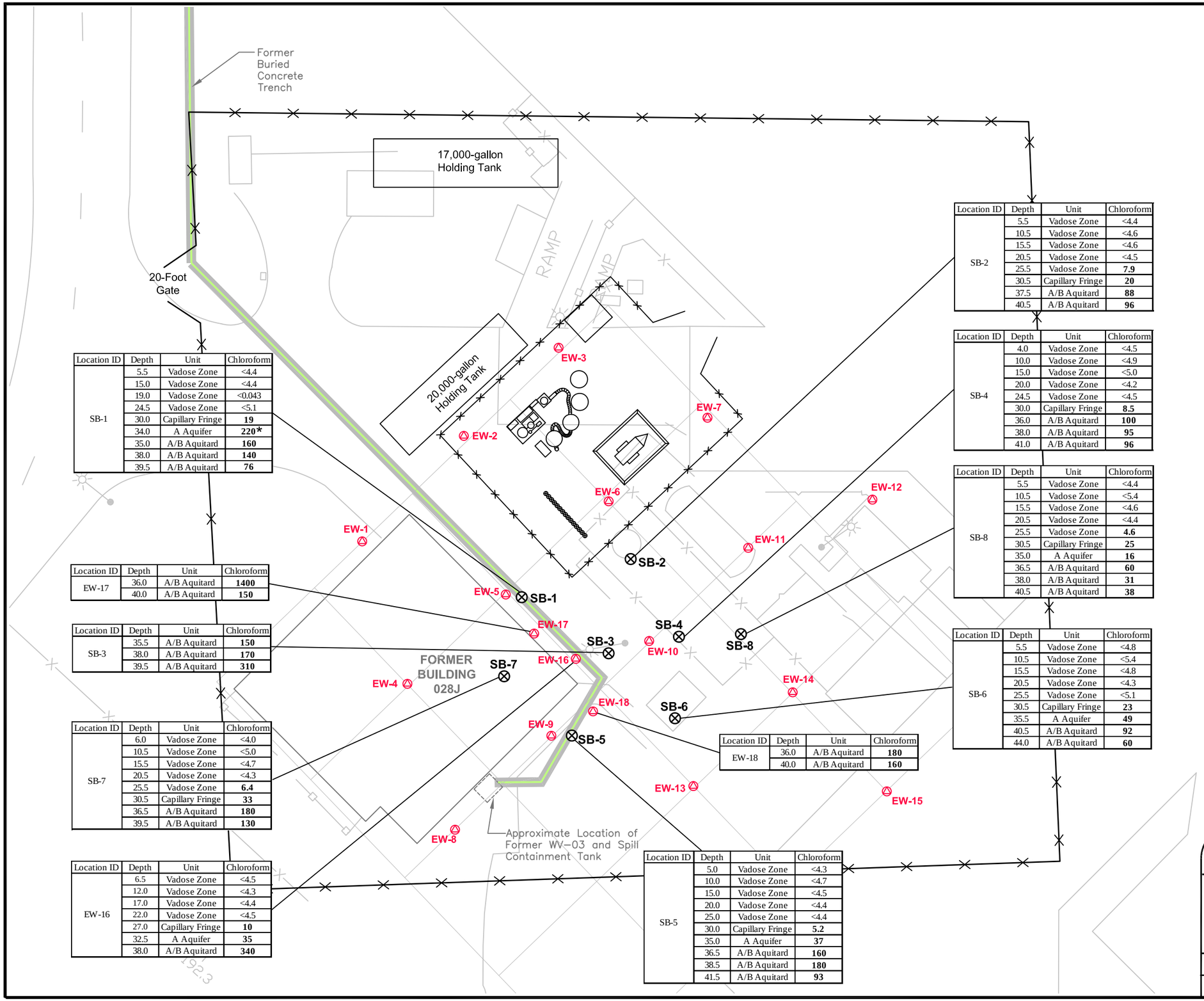
SCALE IN FEET

ENVIRON

Location of April/May 2008 Soil Borings
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/12/08	03-11903E		18
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-SOIL-BORING-location.dwg - Thu, 26 Jun 2008 - 2:46pm



Location ID	Depth	Unit	Chloroform
SB-1	5.5	Vadose Zone	<4.4
	15.0	Vadose Zone	<4.4
	19.0	Vadose Zone	<0.043
	24.5	Vadose Zone	<5.1
	30.0	Capillary Fringe	**19**
	34.0	A Aquifer	**220***
	35.0	A/B Aquitard	**160**
	38.0	A/B Aquitard	**140**
	39.5	A/B Aquitard	**76**

Location ID	Depth	Unit	Chloroform
EW-17	36.0	A/B Aquitard	**1400**
	40.0	A/B Aquitard	**150**

Location ID	Depth	Unit	Chloroform
SB-3	35.5	A/B Aquitard	**150**
	38.0	A/B Aquitard	**170**
	39.5	A/B Aquitard	**310**

Location ID	Depth	Unit	Chloroform
SB-7	6.0	Vadose Zone	<4.0
	10.5	Vadose Zone	<5.0
	15.5	Vadose Zone	<4.7
	20.5	Vadose Zone	<4.3
	25.5	Vadose Zone	**6.4**
	30.5	Capillary Fringe	**33**
	36.5	A/B Aquitard	**180**
	39.5	A/B Aquitard	**130**

Location ID	Depth	Unit	Chloroform
EW-16	6.5	Vadose Zone	<4.5
	12.0	Vadose Zone	<4.3
	17.0	Vadose Zone	<4.4
	22.0	Vadose Zone	<4.5
	27.0	Capillary Fringe	**10**
	32.5	A Aquifer	**35**
	38.0	A/B Aquitard	**340**

Location ID	Depth	Unit	Chloroform
SB-2	5.5	Vadose Zone	<4.4
	10.5	Vadose Zone	<4.6
	15.5	Vadose Zone	<4.6
	20.5	Vadose Zone	<4.5
	25.5	Vadose Zone	**7.9**
	30.5	Capillary Fringe	**20**
	37.5	A/B Aquitard	**88**
	40.5	A/B Aquitard	**96**

Location ID	Depth	Unit	Chloroform
SB-4	4.0	Vadose Zone	<4.5
	10.0	Vadose Zone	<4.9
	15.0	Vadose Zone	<5.0
	20.0	Vadose Zone	<4.2
	24.5	Vadose Zone	<4.5
	30.0	Capillary Fringe	**8.5**
	36.0	A/B Aquitard	**100**
	38.0	A/B Aquitard	**95**
	41.0	A/B Aquitard	**96**

Location ID	Depth	Unit	Chloroform
SB-8	5.5	Vadose Zone	<4.4
	10.5	Vadose Zone	<5.4
	15.5	Vadose Zone	<4.6
	20.5	Vadose Zone	<4.4
	25.5	Vadose Zone	**4.6**
	30.5	Capillary Fringe	**25**
	35.0	A Aquifer	**16**
	36.5	A/B Aquitard	**60**
	38.0	A/B Aquitard	**31**
	40.5	A/B Aquitard	**38**

Location ID	Depth	Unit	Chloroform
SB-6	5.5	Vadose Zone	<4.8
	10.5	Vadose Zone	<5.4
	15.5	Vadose Zone	<4.8
	20.5	Vadose Zone	<4.3
	25.5	Vadose Zone	<5.1
	30.5	Capillary Fringe	**23**
	35.5	A Aquifer	**49**
	40.5	A/B Aquitard	**92**
	44.0	A/B Aquitard	**60**

Location ID	Depth	Unit	Chloroform
EW-18	36.0	A/B Aquitard	**180**
	40.0	A/B Aquitard	**160**

Location ID	Depth	Unit	Chloroform
SB-5	5.0	Vadose Zone	<4.3
	10.0	Vadose Zone	<4.7
	15.0	Vadose Zone	<4.5
	20.0	Vadose Zone	<4.4
	25.0	Vadose Zone	<4.4
	30.0	Capillary Fringe	**5.2**
	35.0	A Aquifer	**37**
	36.5	A/B Aquitard	**160**
	38.5	A/B Aquitard	**180**
	41.5	A/B Aquitard	**93**

EXPLANATION:

- ⊗ Soil Boring Location - April 2008
- EW-12 Groundwater Monitoring / Extraction Well
- Construction Fence
- 12-foot Security Fence

Notes:

1. Results shown in microgram per kilogram (µg/kg).
2. < = Not detected at the listed detection limit.

* = Sample collected at the interface between the A-Aquifer and A/B Aquitard.

N

0 25

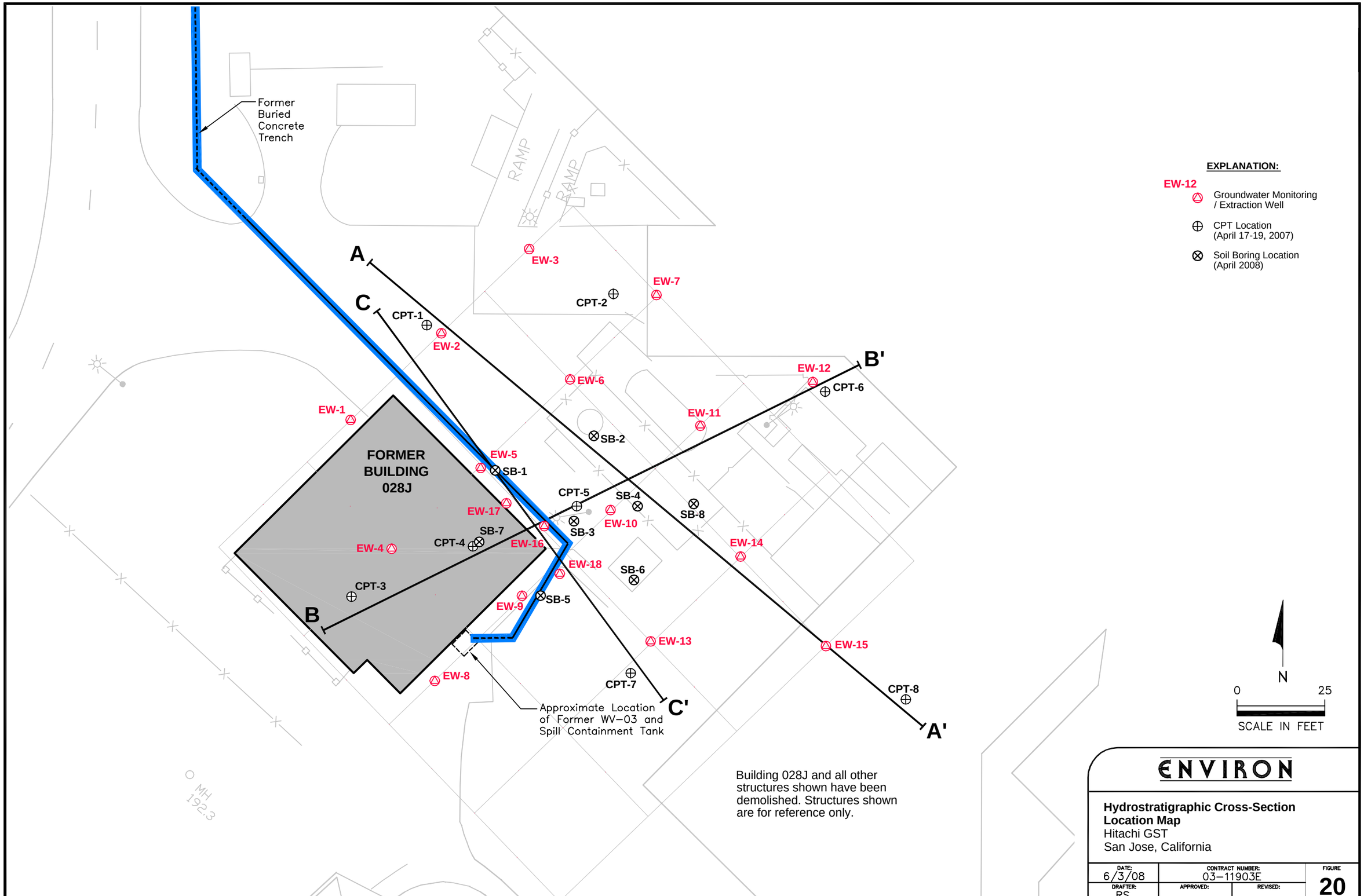
SCALE IN FEET

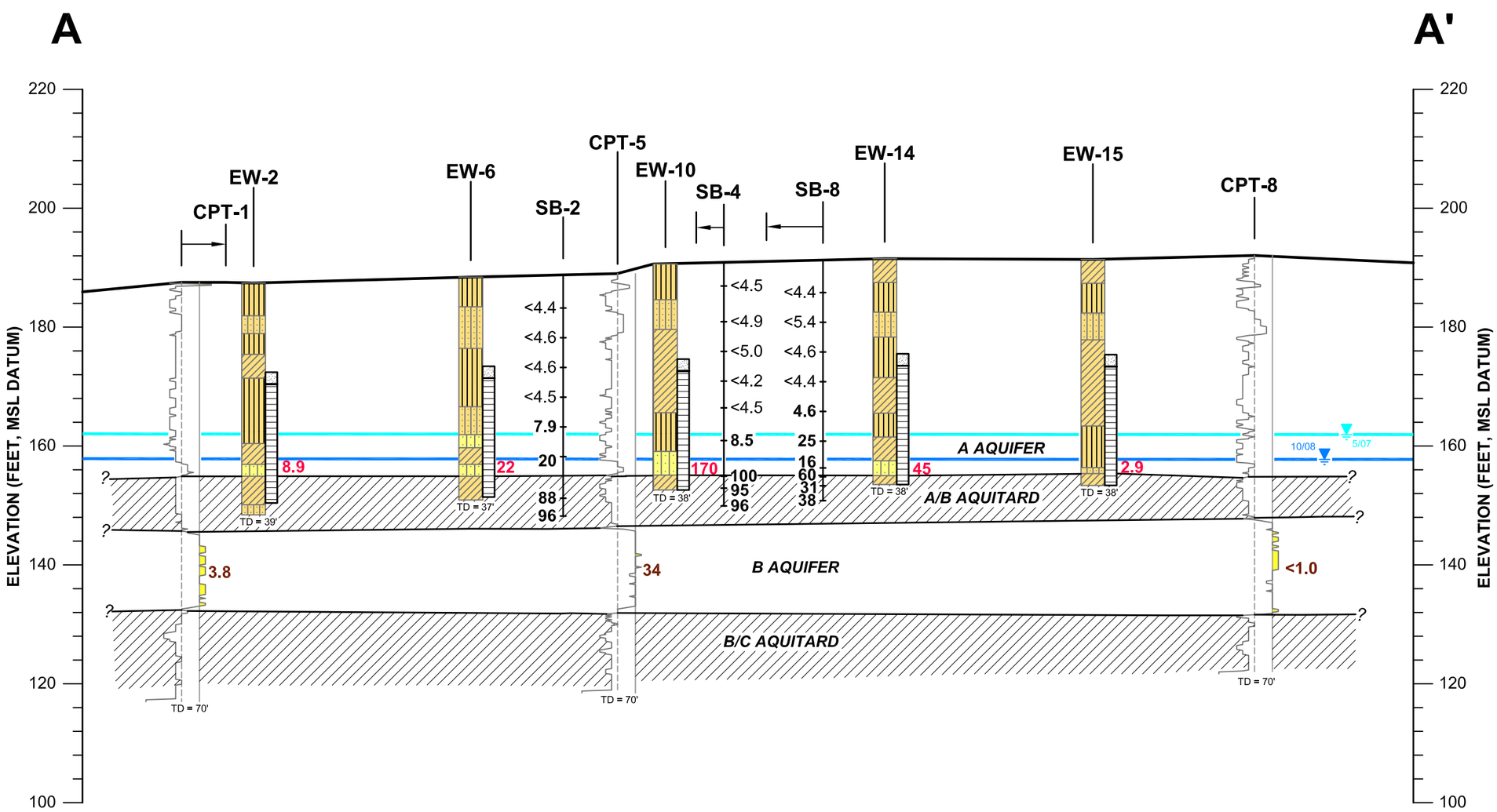
ENVIRON

Chloroform Results for April/May 2008 Soil Sampling
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
6/12/08	03-11903E		19
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-SOIL-chlor-5-2008.dwg - Tue, 11 Nov 2008 - 11:16am


Former Buried Concrete Trench
RAMP
RAMP
A
A'
B
B'
C
C'
EW-1
EW-2
EW-3
EW-4
EW-5
EW-6
EW-7
EW-8
EW-9
EW-10
EW-11
EW-12
EW-13
EW-14
EW-15
EW-16
EW-17
EW-18
CPT-1
CPT-2
CPT-3
CPT-4
CPT-5
CPT-6
CPT-7
CPT-8
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-7
SB-8
FORMER BUILDING 028J
Approximate Location of Former WV-03 and Spill Containment Tank
Building 028J and all other structures shown have been demolished. Structures shown are for reference only.
EXPLANATION:
EW-12
Groundwater Monitoring / Extraction Well
CPT Location (April 17-19, 2007)
Soil Boring Location (April 2008)
N
0
25
SCALE IN FEET
ENVIRON
Hydrostratigraphic Cross-Section Location Map
Hitachi GST
San Jose, California
DATE: 6/3/08
CONTRACT NUMBER: 03-11903E
FIGURE 20
DRAFTER: RS
APPROVED:
REVISED:
Q:\DRAWINGS\0311903E\0311903e-b026-28J-prop-XSECLOC-2.dwg - Thu, 26 Jun 2008 - 2:49pm



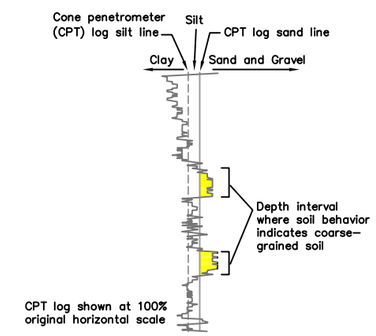
EXPLANATION:

- Groundwater Elevation in A-Aquifer measured in May 2007
- Groundwater Elevation in A-Aquifer measured in October 2008
- 34 Chloroform concentration in groundwater (µg/L) April 2007
- 25 Chloroform concentration in groundwater (µg/L) October 2008
- 100 Chloroform concentration in soil (µg/kg) March-April 2008
- Filter Pack
- Well Screen

NOTES:

TD = Total Depth
MSL = Mean Sea Level
na = Not Analyzed

Key to CPT Logs:



Key to Soil Types:

- Sand with Silt / Silty Sand
- Silty Fine Sand / Sandy Silt
- Silt
- Silty Clay

Scale

0 20 40

SCALE IN FEET

Vertical Exaggeration: 1X

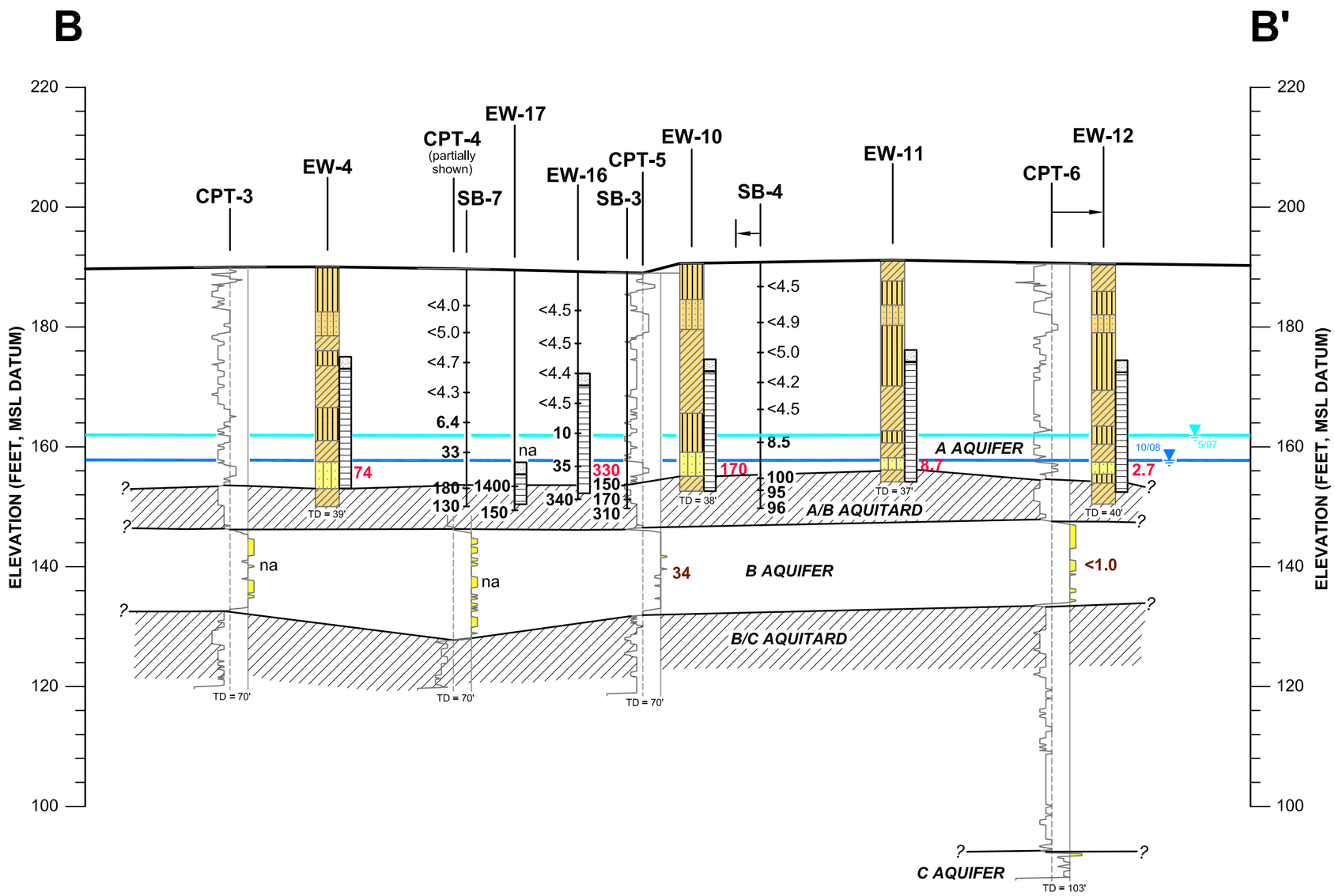
1" = 20 ft. vertical

ENVIRON

Conceptual Hydrostratigraphic Cross-Section A-A'
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
10/21/08	03-11903E		21
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\03119O3E\03119O3e-xsec-AA-Oct-08.dwg - Fri, 07 Nov 2008 - 12:27pm



EXPLANATION:

- Groundwater Elevation in A-Aquifer measured in May 2007
- Groundwater Elevation in A-Aquifer measured in October 2008
- **34** Chloroform concentration in groundwater (µg/L) April 2007
- **48** Chloroform concentration in groundwater (µg/L) October 2008
- **100** Chloroform concentration in soil (µg/kg) March-April 2008)

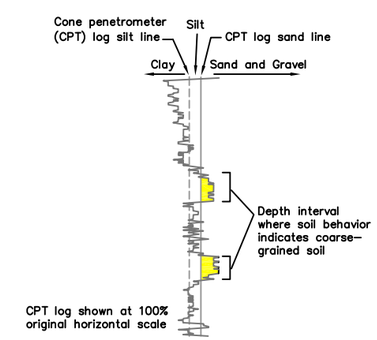
Filter Pack

Well Screen

NOTES:

TD = Total Depth
MSL = Mean Sea Level
na = Not Analyzed

Key to CPT Logs:



Scale

0 20 40

SCALE IN FEET

Vertical Exaggeration: 1X

1" = 20 ft. vertical

Key to Soil Types:

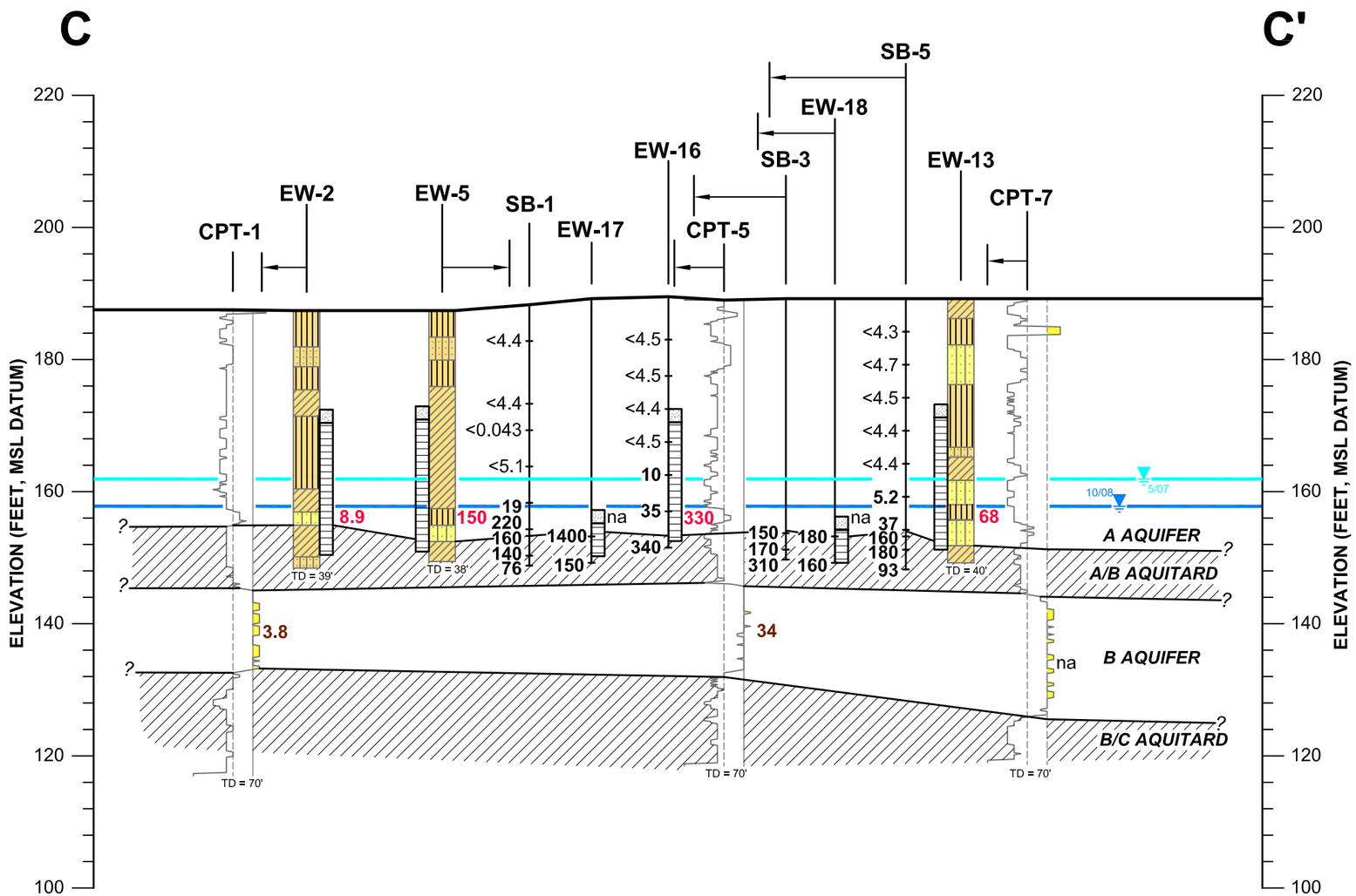
- Sand with Silt / Silty Sand
- Silty Fine Sand / Sandy Silt
- Silt
- Silty Clay

ENVIRON

Conceptual Hydrostratigraphic Cross-Section B-B'
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
10/21/08	03-11903E		22
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\0311903E\0311903e-xsec-BB-Oct-08.dwg - Fri, 07 Nov 2008 - 12:45pm



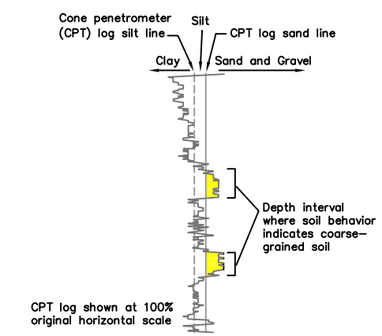
EXPLANATION:

- Groundwater Elevation in A-Aquifer measured in May 2007
- Groundwater Elevation in A-Aquifer measured in October 2008
- **34** Chloroform concentration in groundwater (µg/L) April 2007
- **29** Chloroform concentration in groundwater (µg/L) October 2008
- **150** Chloroform concentration in soil (µg/kg) March-April 2008
- Filter Pack
- Well Screen

NOTES:

TD = Total Depth
MSL = Mean Sea Level
na = Not Analyzed

Key to CPT Logs:



Scale

0 20 40

SCALE IN FEET

Vertical Exaggeration: 1X

1" = 20 ft. vertical

Key to Soil Types:

- Sand with Silt / Silty Sand
- Silty Fine Sand / Sandy Silt
- Silt
- Silty Clay

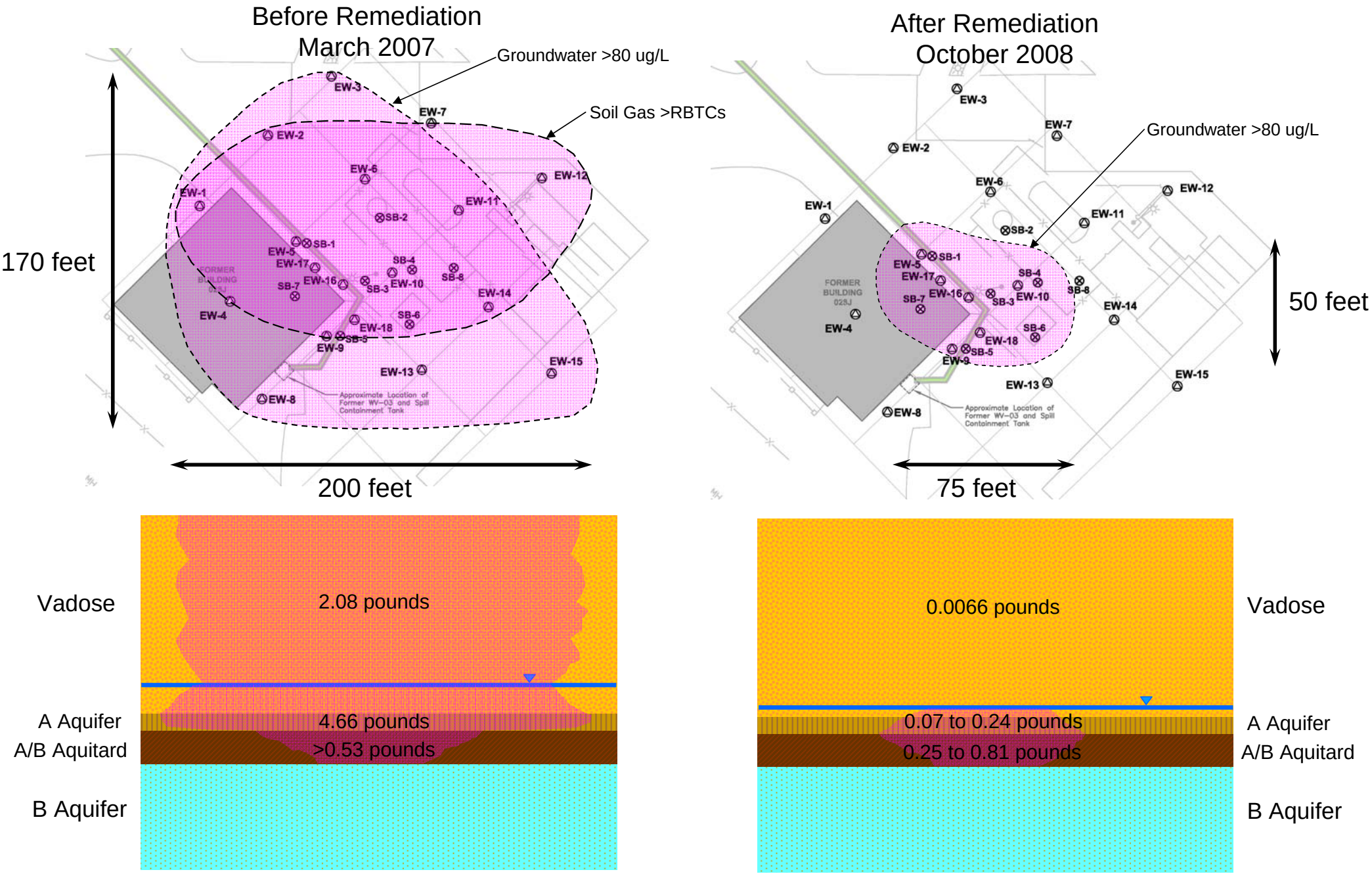
ENVIRON

Conceptual Hydrostratigraphic Cross-Section C-C'
Hitachi GST
San Jose, California

DATE:	CONTRACT NUMBER:		FIGURE
10/21/08	03-11903E		23
DRAFTER: RS	APPROVED:	REVISED:	

Q:\DRAWINGS\03119036\03119036e-xsec-C-C-OCT-08.dwg - Fri, 07 Nov 2008 - 12:30pm

Figure 24
Approximate Mass and Extent of Chloroform Before and After Remediation



Total Estimated Chloroform Mass >7.27 Pounds

Total Estimated Chloroform Mass ~ 0.68 Pounds