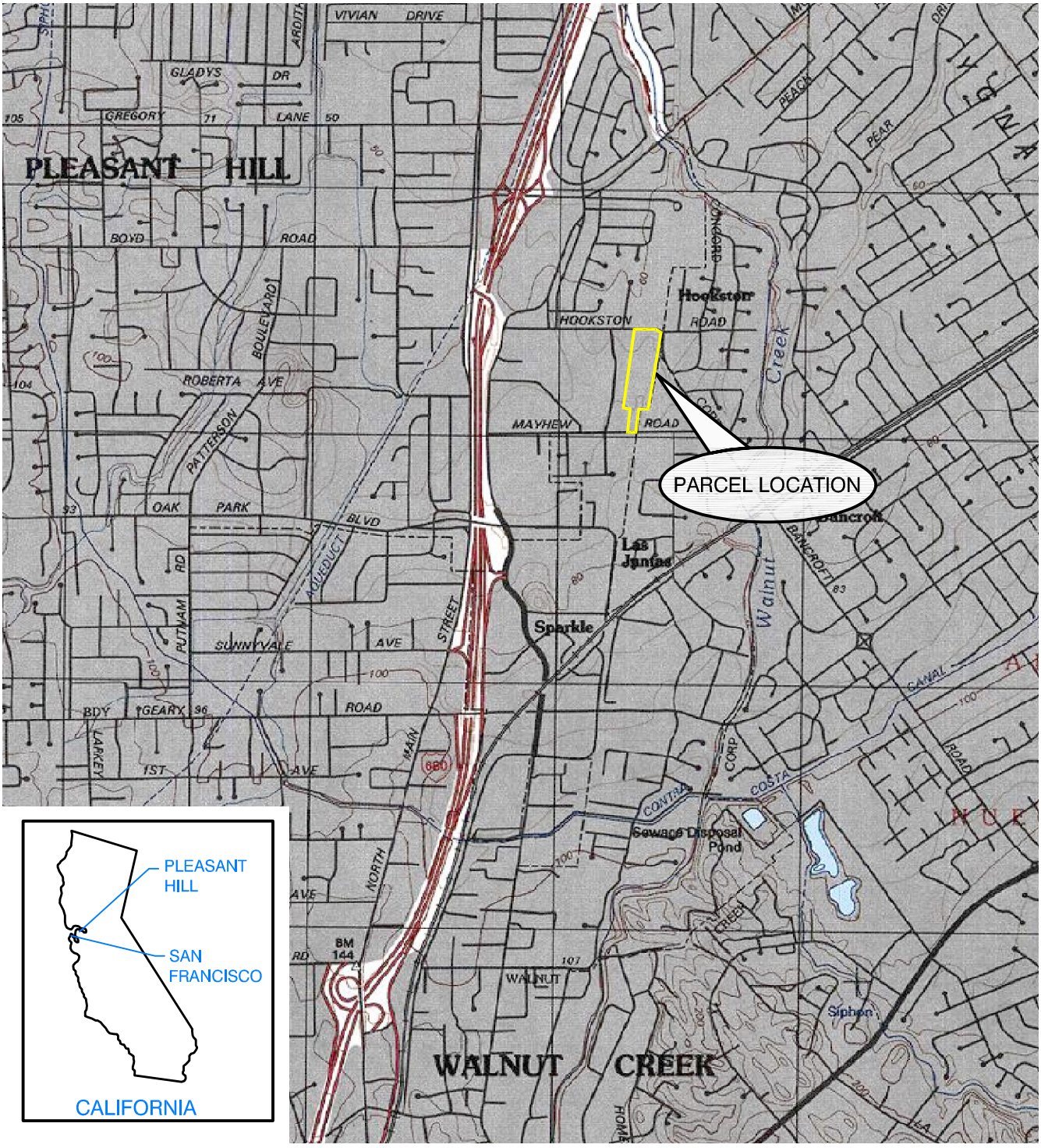
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Drawn By: J. Estrada
Date: 07/01/06
Project No. 0020557



SCALE 1: 24,000

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1 .5 0 1 KILOMETER

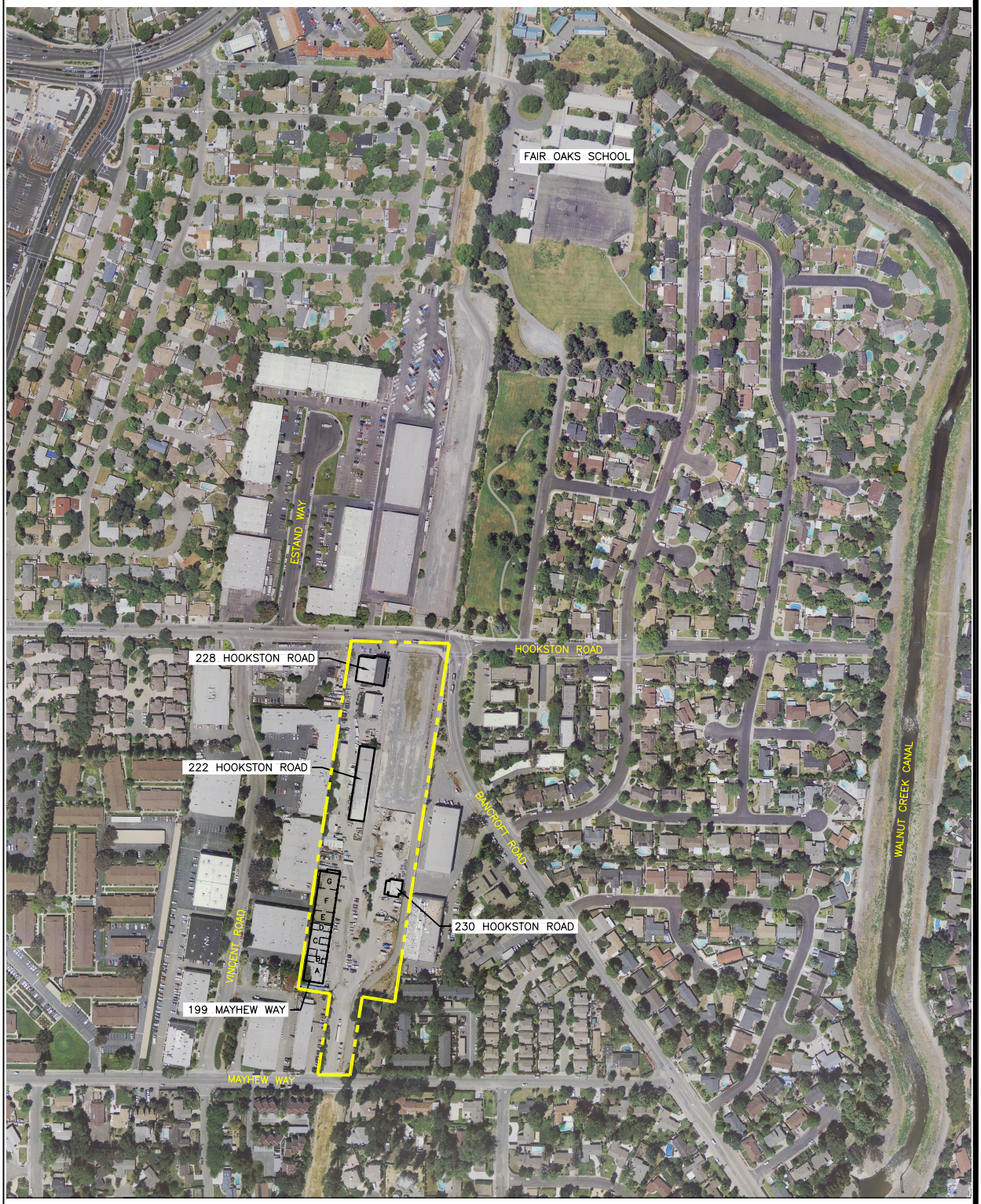
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References:
TOPO!® Software
U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle,
Walnut Creek, California
Dated: 1995

Figure 1-1
Parcel Location Map
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-40.dwg	J. Estrada	07/01/06	0020557.10



Aerial photograph from HJW Geospacial, Inc.
Date of photograph is May 15, 2006

LEGEND

Hookston Station Parcel Property Boundary

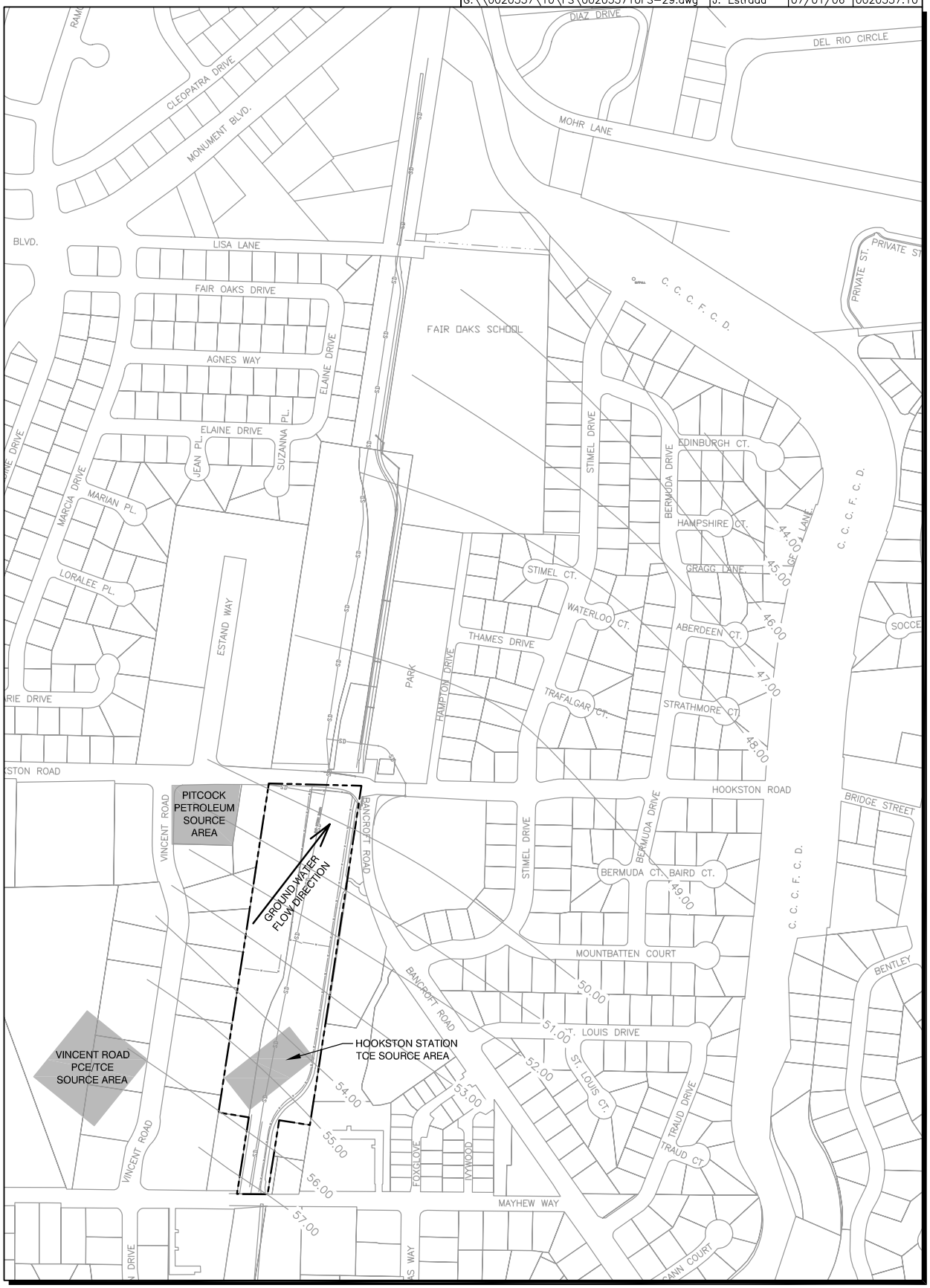
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FEET

Figure 1-2
Hookston Station Vicinity Map
Hookston Station
Pleasant Hill, California

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-29.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

Hookston Station Parcel Property Boundary

53.00 Ground Water Elevation Contour, A-Zone, 23 January 2006 (feet above mean sea level)

Note: Source areas depicted are schematic to illustrate relative positions.

N

0 300

FEET

Figure 1-3

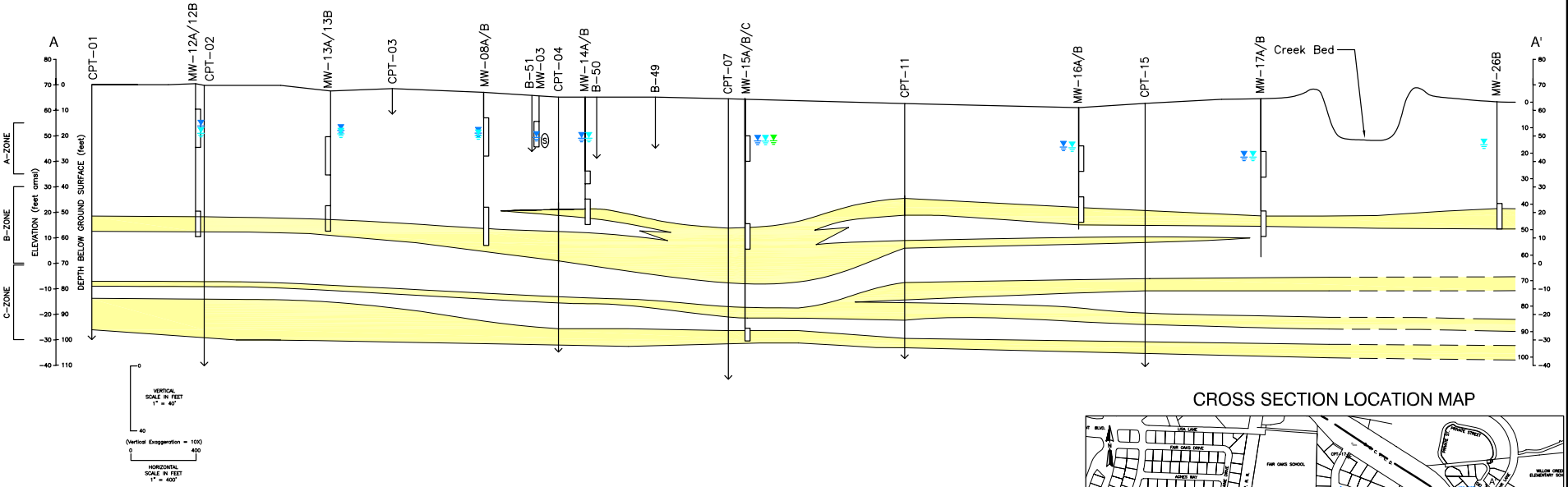
Hookston Station and Adjacent Environmental Sites

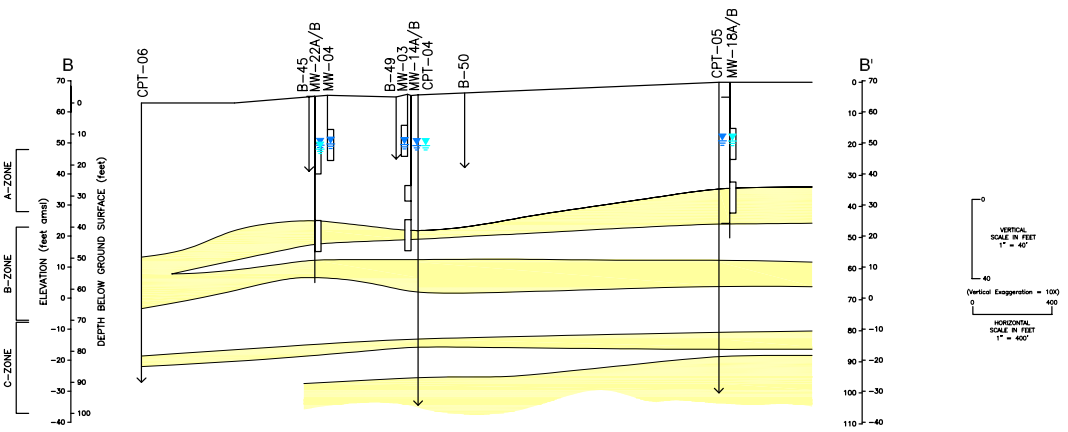
Hookston Station

Pleasant Hill, California

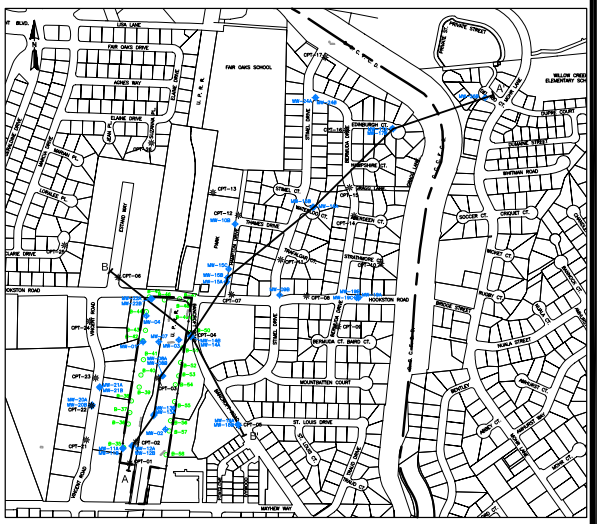
ERM 07/06

CAD File: G:\0020557\10\FS\0020557FS-31.dwg
Drawn By: R. Olson
Date: 07/01/06
Project No. 0020557.10





CROSS SECTION LOCATION MAP



Legend

- Monitoring Well, A Zone
- Monitoring Well, B Zone
- Monitoring Well, C Zone
- CPT Ground Water Sample Location
- Shallow Hydropunch Location
- Sewer Pipe

A-Zone — A-Zone Aquifer; Generally 15–35 ft below ground surface

B-Zone — B-Zone Aquifer; Generally 40–70 ft below ground surface

C-Zone — C-Zone Aquifer; Generally 70–100 ft below ground surface

- A-Zone Ground Water Elevation (ft amsl)
- B-Zone Ground Water Elevation (ft amsl)
- C-Zone Ground Water Elevation (ft amsl)

Note: Water Levels measured on 19 April 2004.

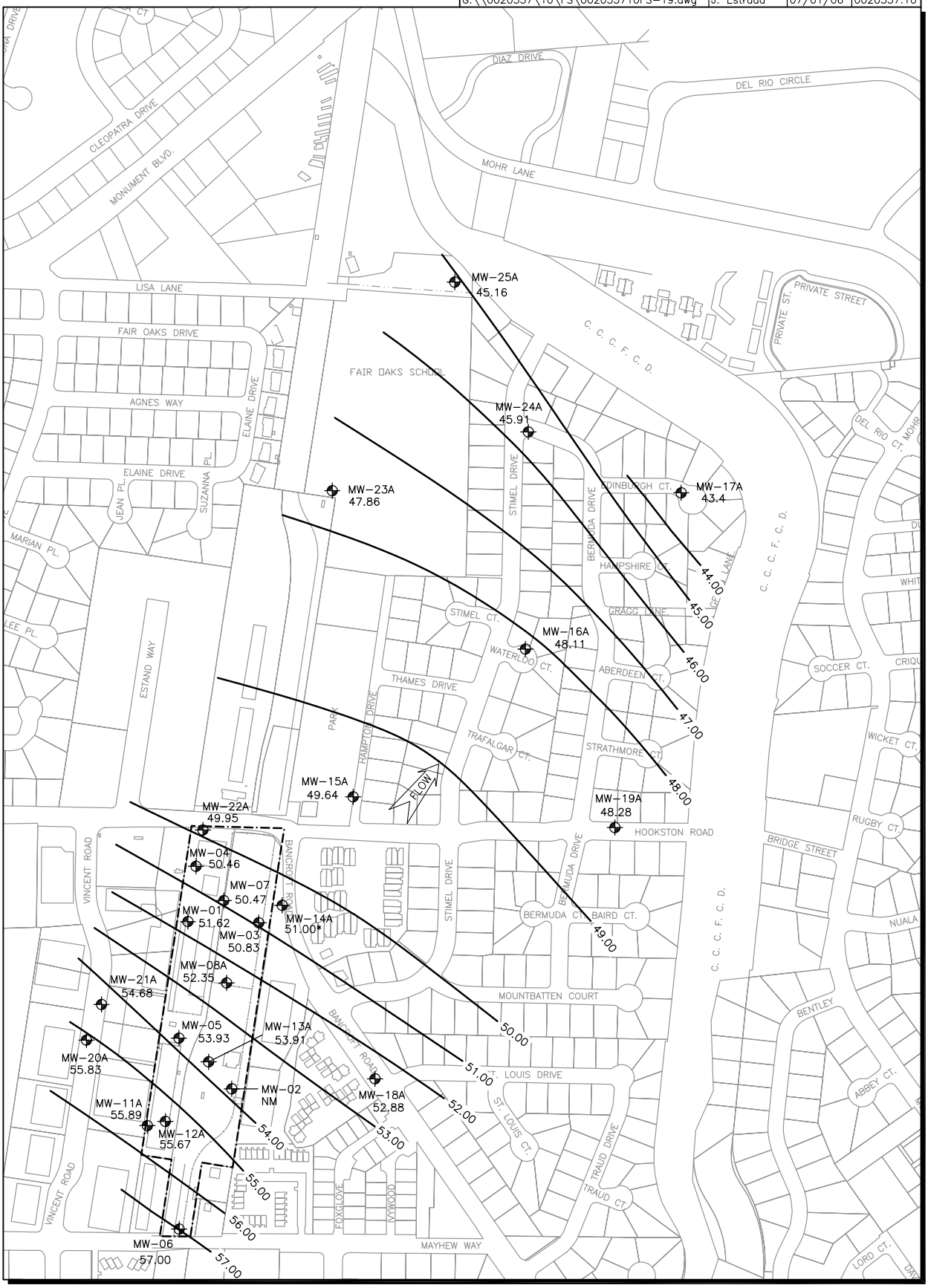
MONITORING WELL — Screened Interval

HYDROPUNCH/CPT BORINGS

Coarse-Grained Deposits

Figure 2-1
Geological Cross Sections
Hookston Station
Pleasant Hill, California
ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-19.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well, A Zone
- Hookston Station Parcel Property Boundary
- 53.00 — Ground Water Elevation Contour, 1 Foot Interval
- * Datum Not Used for Contouring
- NM Not Measured
- FLOW Ground Water Flow Direction

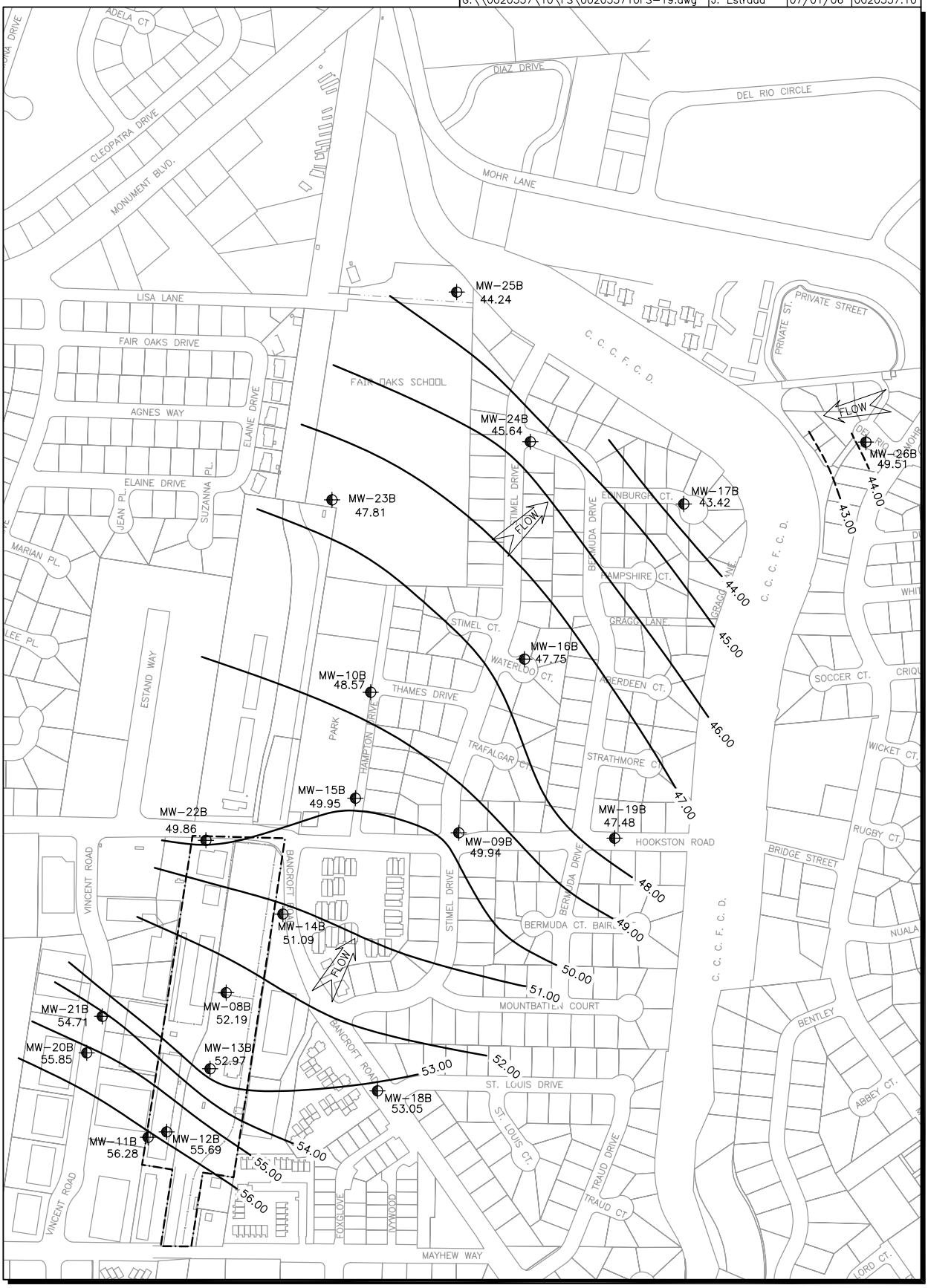
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FEET

Figure 2-2
Ground Water Elevation Map, A Zone
23 January 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-19.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- B-Zone Monitoring Well
- Hookston Station Parcel Property Boundary
- 48.00 Ground Water Elevation Contour, 1 Foot Interval
- NM Not Measured
- FLOW Ground Water Flow Direction

N

0 300

FEET

Figure 2-3

Ground Water Elevation Map, B-Zone

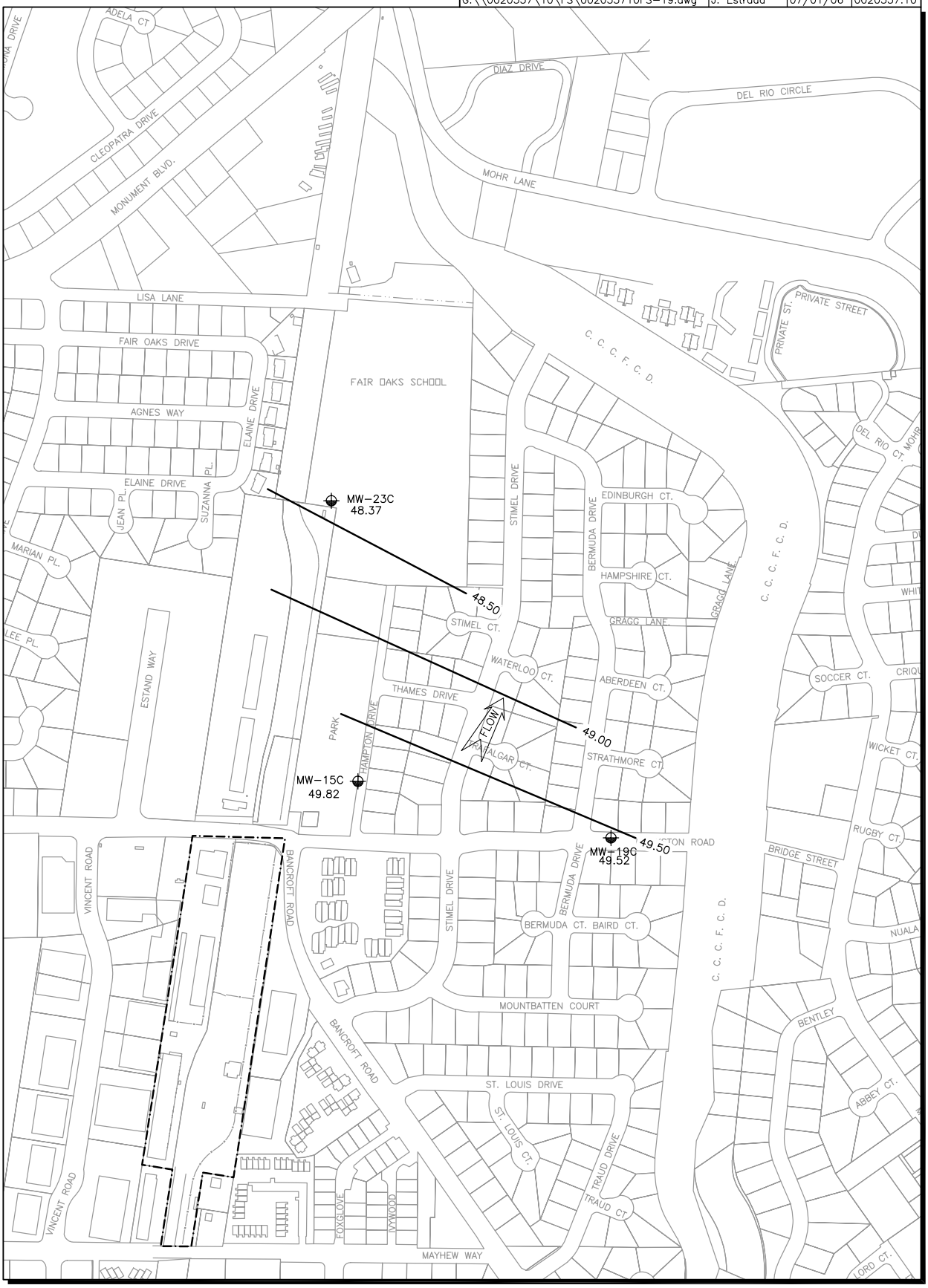
23 January 2006

Hookston Station

Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-19.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- C-Zone Monitoring Well
- Hookston Station Parcel Property Boundary
- 49.00 Ground Water Elevation Contour, 0.5 Foot Interval
- FLOW Ground Water Flow Direction

N

0 300

FEET

Figure 2-4

Ground Water Elevation Map, C-Zone

23 January 2006

Hookston Station

Pleasant Hill, California

ERM 07/06

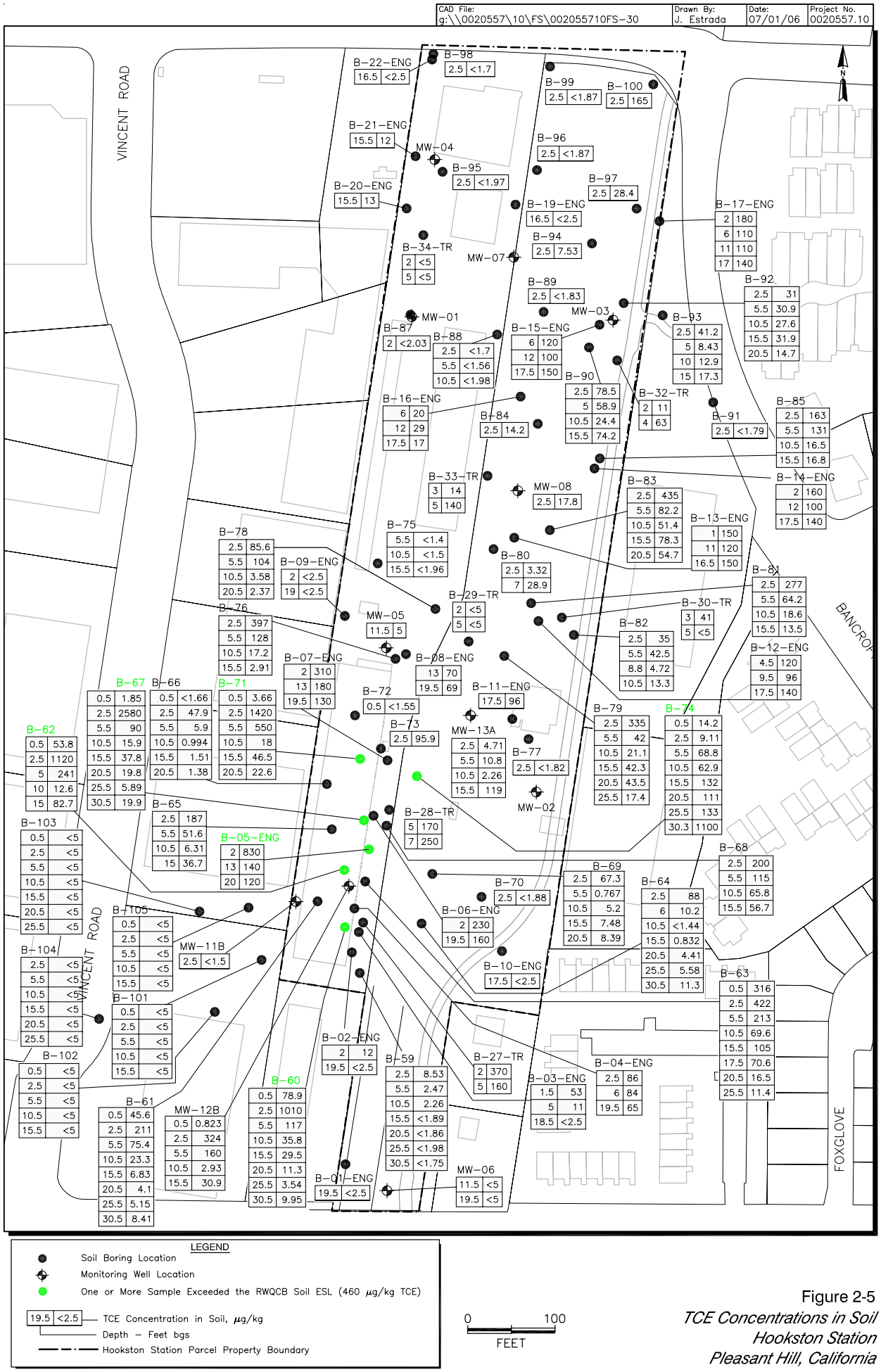
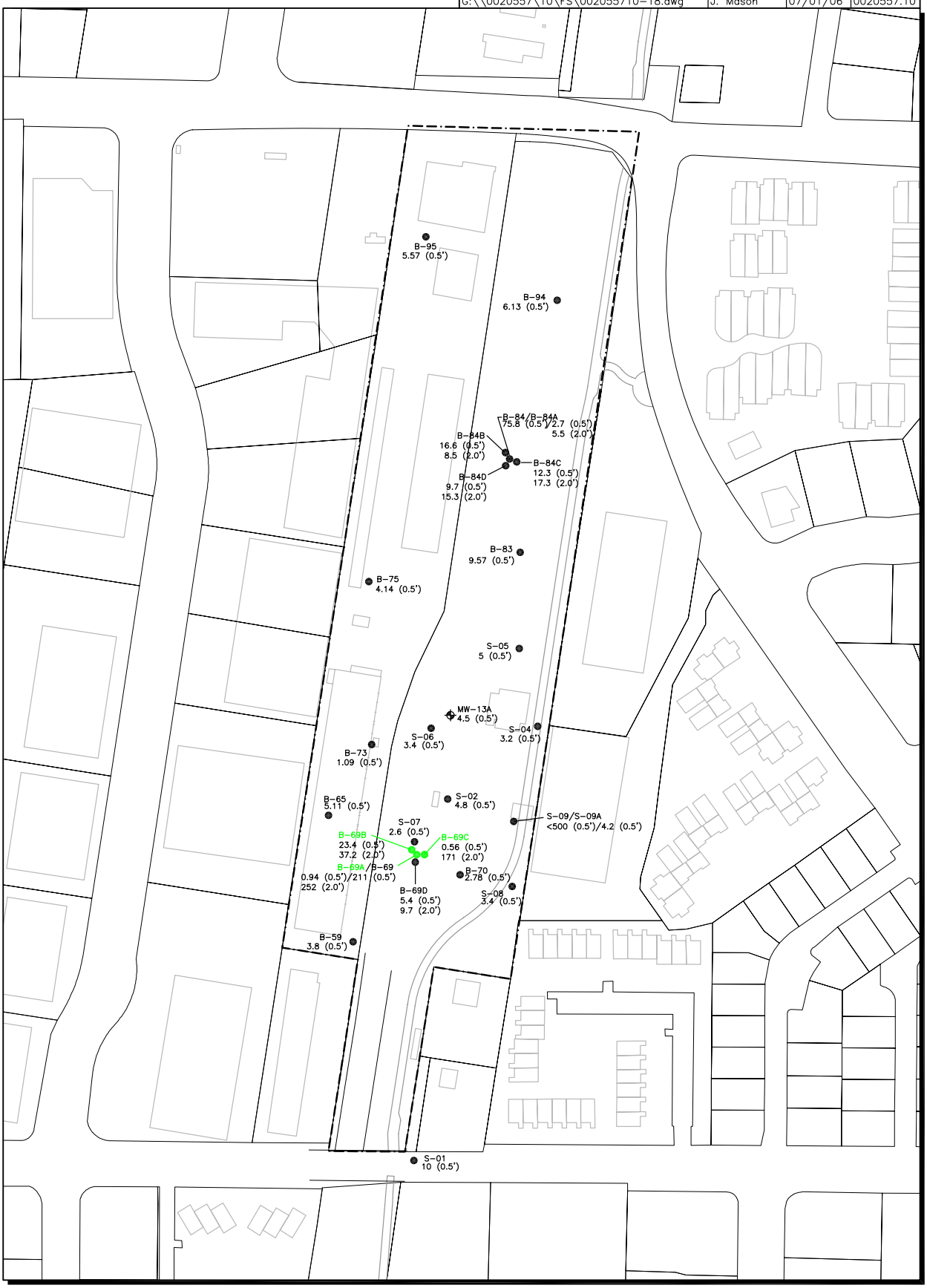


Figure 2-5
TCE Concentrations in Soil
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-18.dwg	J. Mason	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- Soil Boring Location
- Hookston Station Parcel Property Boundary
- One or More Sample Exceeds Background Levels for Arsenic in Bay Area Soils (31 mg/kg). B-69 and B-84 Based on May 2006 Sampling Results for B-69A/B/C/D and B-84A/B/C/D

10 (0.5') Arsenic Concentration in Soil (mg/Kg); Sample Depth (feet bgs)

< = Not Detected Above Reported Limit

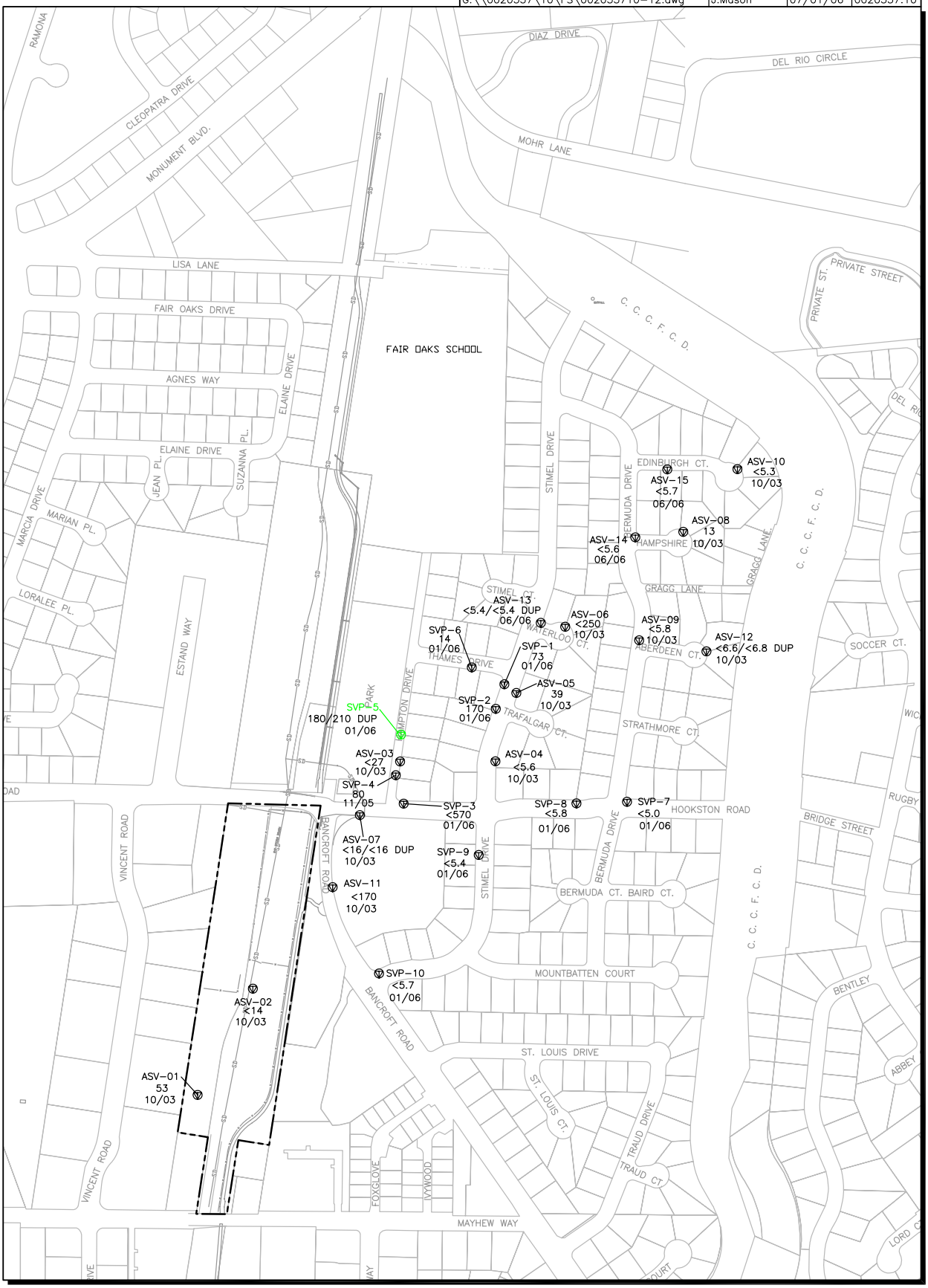
N

0 120
FEET

Figure 2-6
Soil Arsenic Concentrations
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-12.dwg	J.Mason	07/01/06	0020557.10



LEGEND

▽	Soil Vapor Monitoring Probe Location
— — —	Hookston Station Parcel Property Boundary
53	PCE Soil Vapor Concentration ($\mu g/m^3$)
DUP	Duplicate
▽	Result Exceeds the Residential Landuse Soil Vapor CHHSL (180$\mu g/m^3$ PCE) (Downgradient Study Area Locations) or the Commercial/Industrial Landuse Soil Vapor CHHSL (603 $\mu g/m^3$) (Hookston Station Parcel Locations)

N

0 300

FEET

Figure 2-7

PCE in Active Soil Vapor Samples

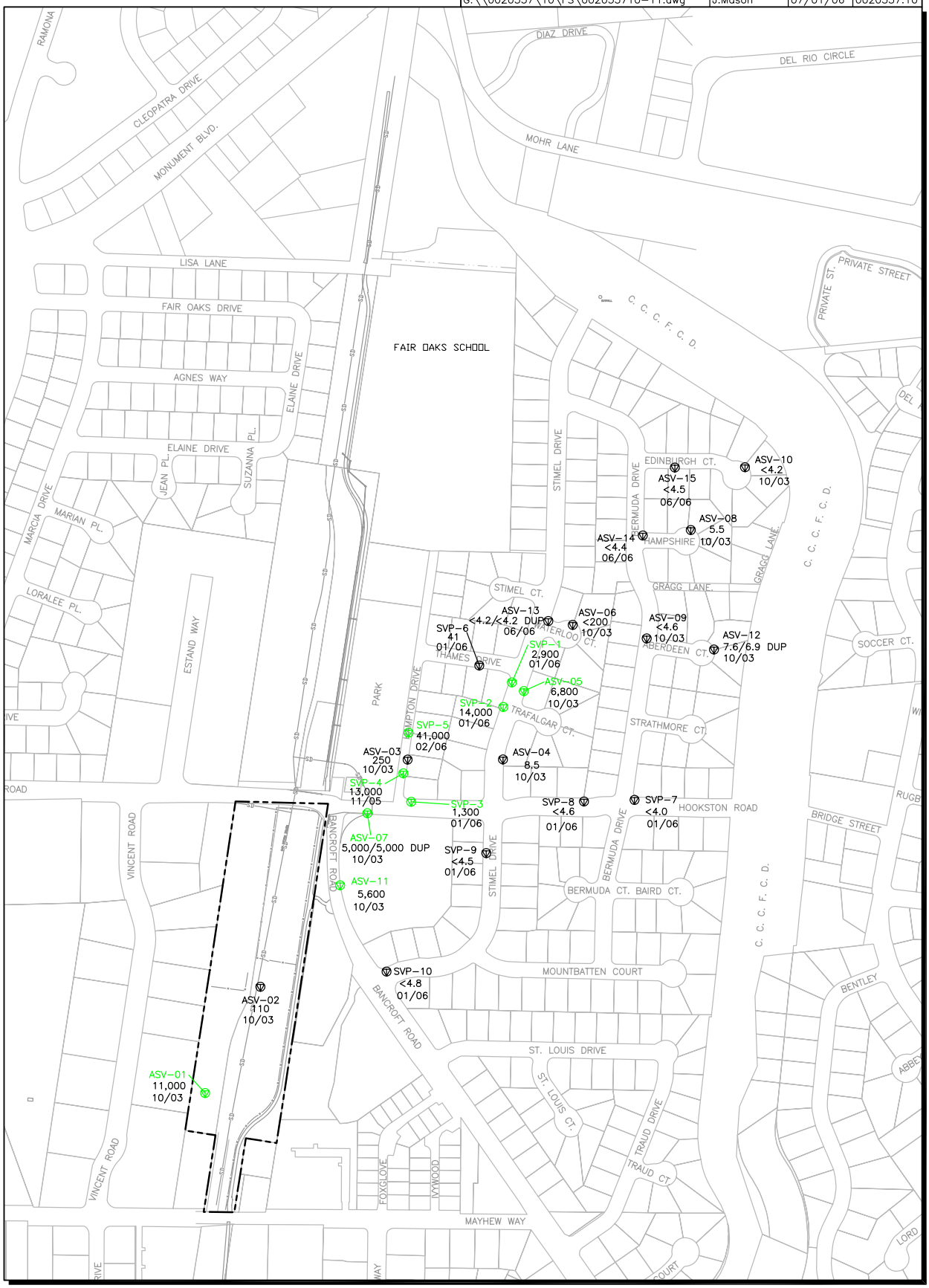
October 2003 - June 2006

Hookston Station

Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-11.dwg	J.Mason	07/01/06	0020557.10



LEGEND

- Soil Vapor Monitoring Probe Location
- Hookston Station Parcel Property Boundary
- 110 — TCE Soil Vapor Concentration (µg/m³)
- DUP — Duplicate
- Result Exceeds the Residential Landuse Soil Vapor CHHSL (528µg/m³ TCE) (Downgradient Study Area Locations) or the Commercial/Industrial Landuse Soil Vapor CHHSL (1,770 µg/m³) (Hookston Station Parcel Locations)

N

0 300

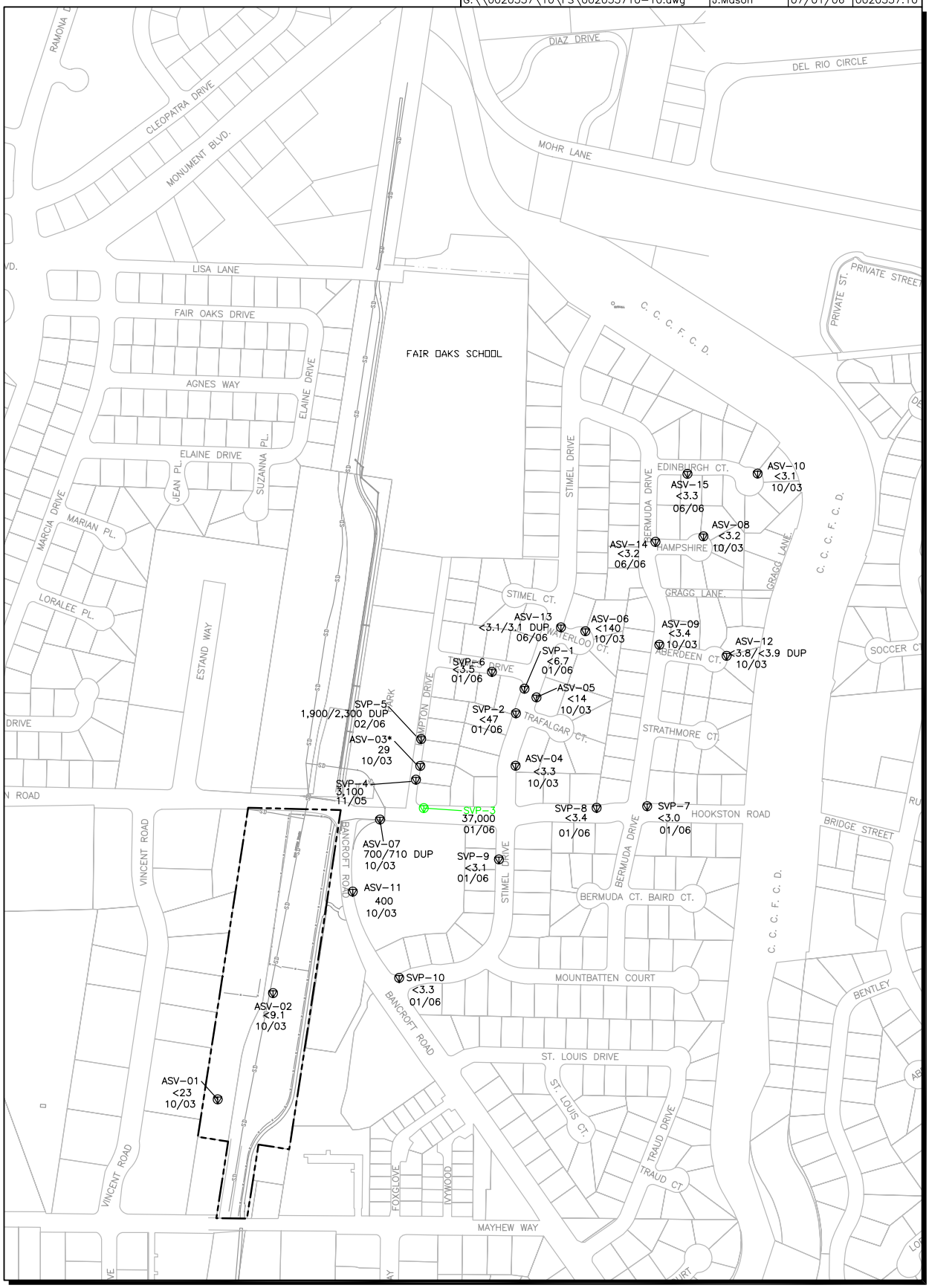
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Figure 2-8

TCE in Active Soil Vapor Samples
October 2003 - June 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-10.dwg	J.Mason	07/01/06	0020557.10



LEGEND

- Soil Vapor Monitoring Probe Location
- Hookston Station Parcel Property Boundary
- 400 cis-1,2-DCE Soil Vapor Concentration (µg/m³)
- DUP Duplicate
- * Data Not Used For Contouring
- Result Exceeds the Residential Landuse Soil Vapor CHHSL (15,900 µg/m³ cis-1,2-DCE) (Downgradient Study Area Locations) or the Commercial/Industrial Landuse Soil Vapor CHHSL (44,400 µg/m³ cis-1,2-DCE) (Hookston Station Parcel Locations)

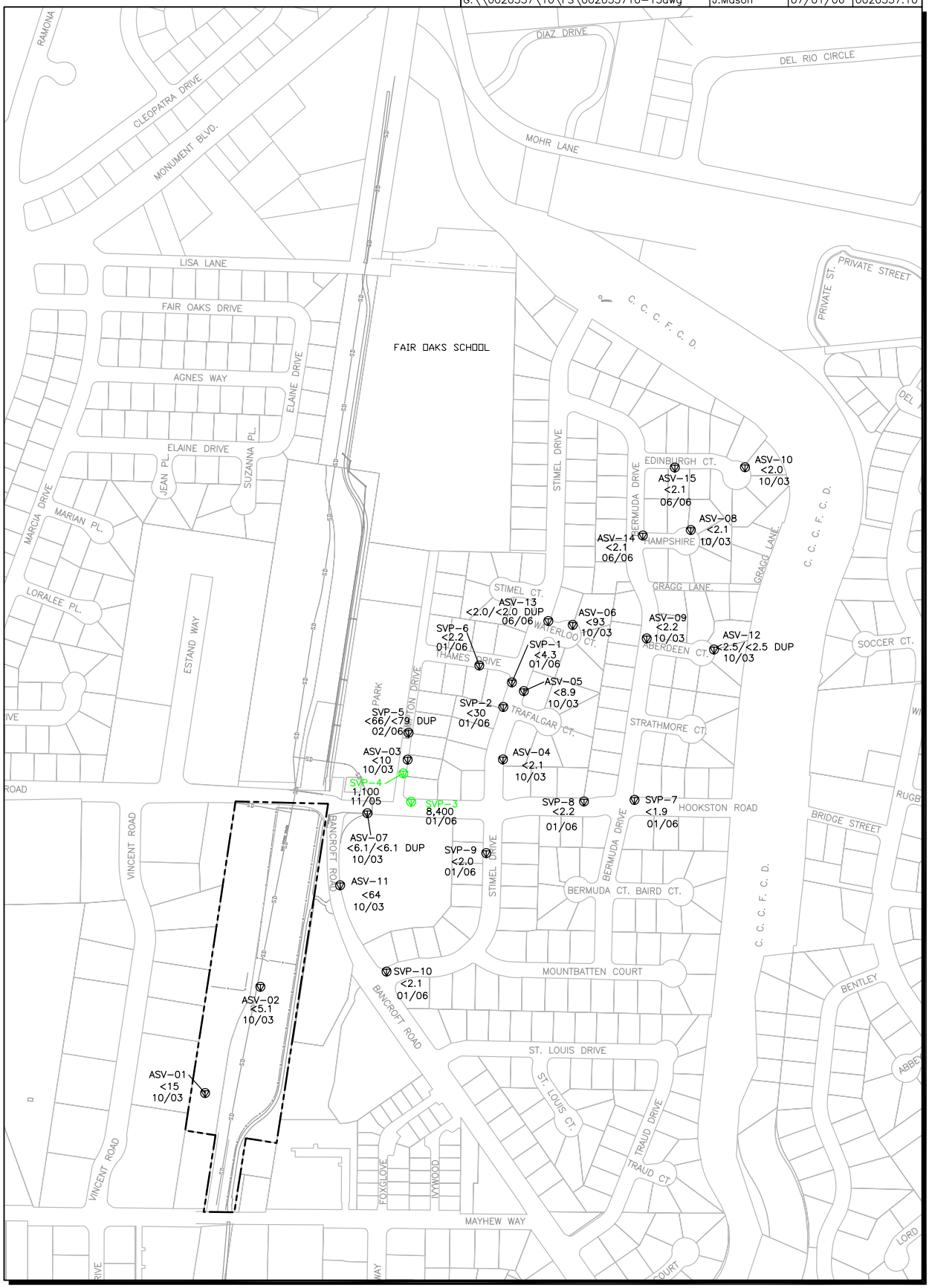
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0 300
FEET

Figure 2-9
cis-1,2-DCE in
Active Soil Vapor Samples
October 2003 - June 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-13dwg	J.Mason	07/01/06	0020557.10



LEGEND

▽	Soil Vapor Monitoring Probe Location
— - - —	Hookston Station Parcel Property Boundary
<15	Vinyl Chloride Soil Vapor Concentration ($\mu g/m^3$)
DUP	Duplicate
NS	Not Sampled
▽	Result Exceeds the Residential Landuse Soil Vapor CHHSL (13.3 $\mu g/m^3$ Vinyl Chloride) (Downgradient Study Area Locations) or the Commercial/Industrial Landuse Soil Vapor CHHSL (44.8 $\mu g/m^3$ Vinyl Chloride) (Hookston Station Parcel Locations)

N

0 300

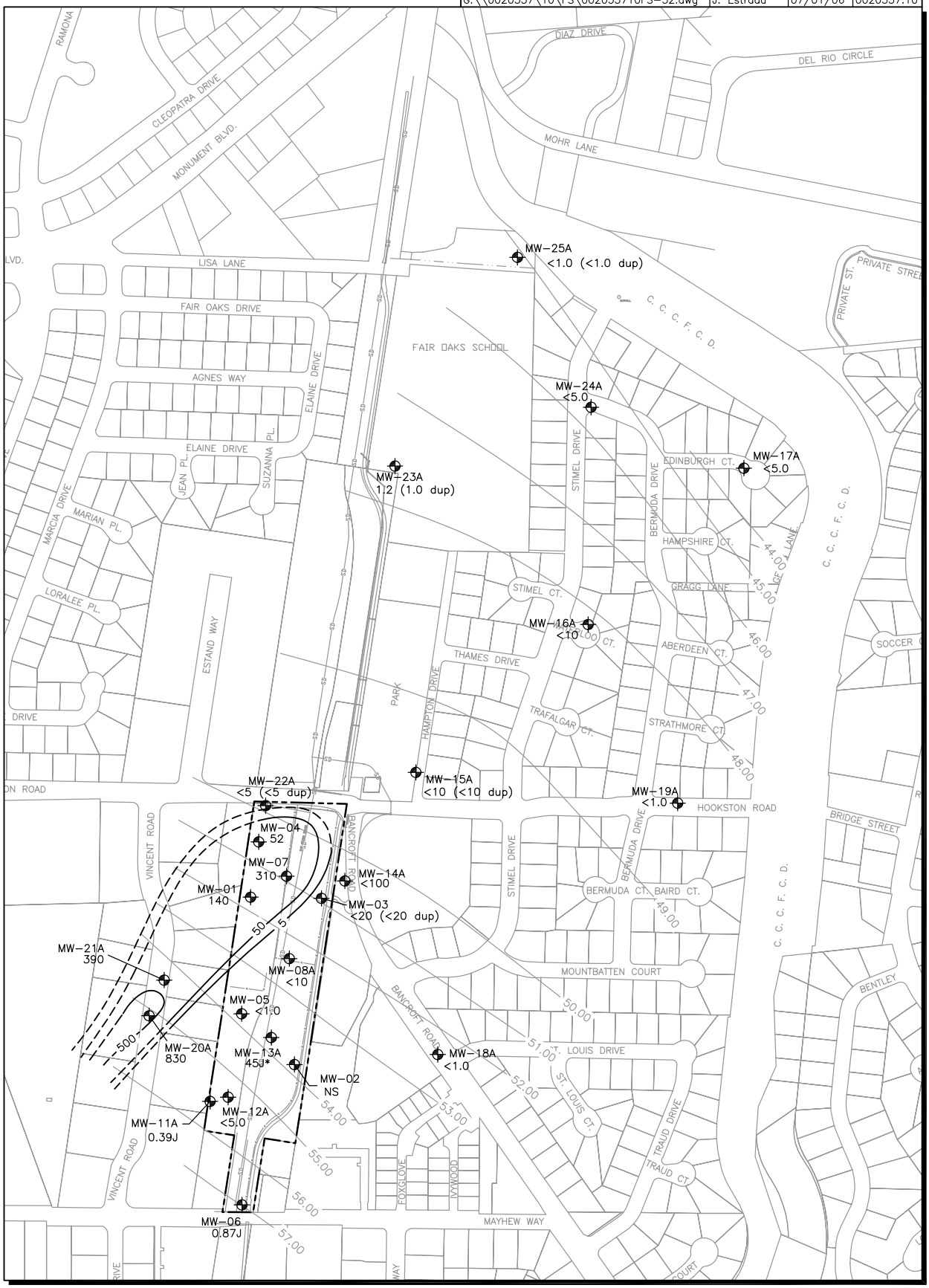
FEET

Figure 2-10

Vinyl Chloride in Active Soil Vapor Samples October 2003 - June 2006 Hookston Station Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-32.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 470 — PCE Concentration (µg/L)
- 50 ——— PCE in Ground Water Contour, Solid Based On First Quarter 2006 Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Groundwater Sampling.
- Hookston Station Parcel Property Boundary
- 53.00 ——— Ground Water Elevation Contour, A-Zone, 23 January 2006 (feet above mean sea level)
- J Estimated Values
- NS Not Sampled
- * Not Used in Contouring Based on Historical Data

The Maximum Contaminant Level for PCE in Drinking Water is 5 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

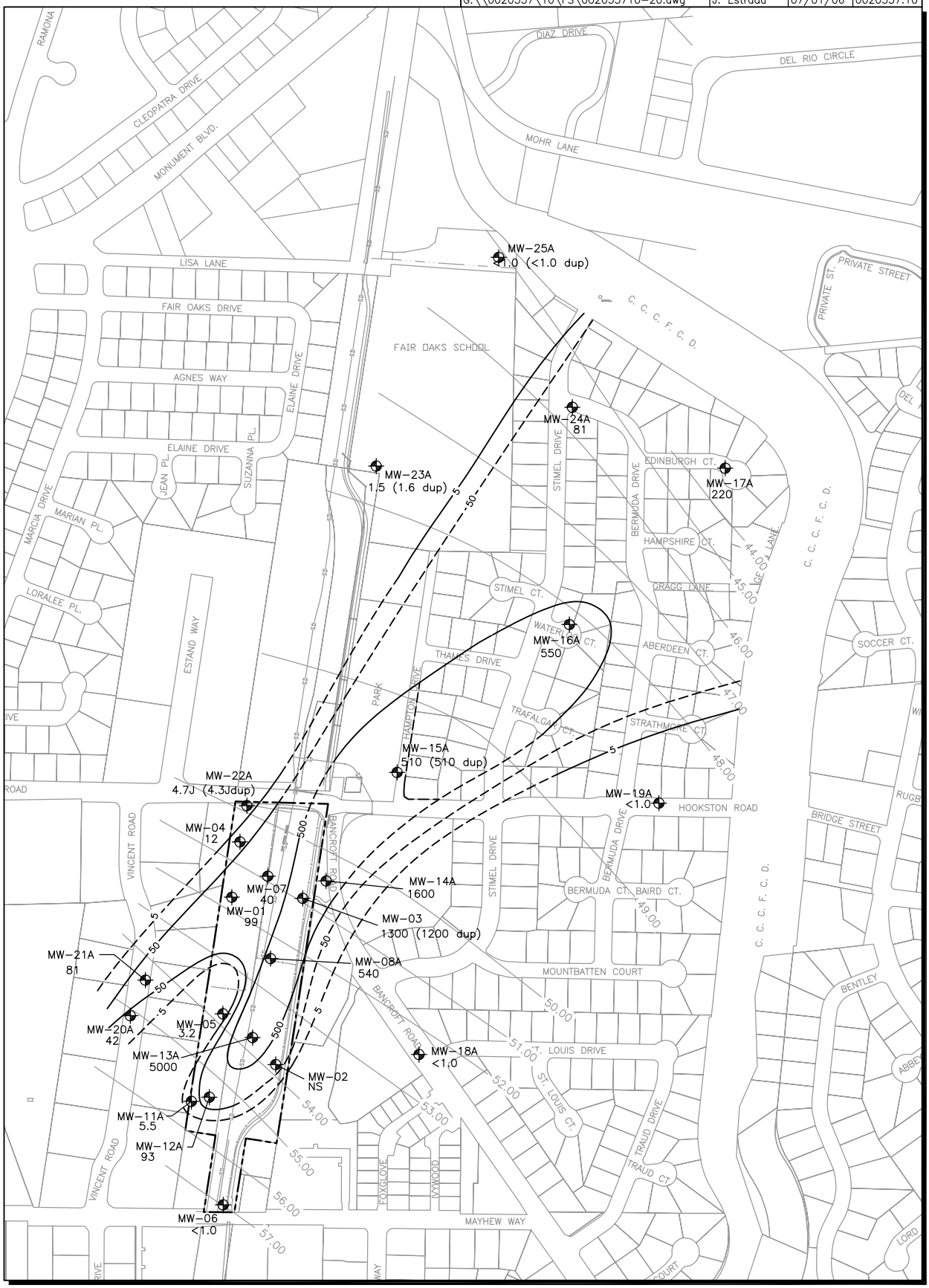
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FEET

Figure 2-11
PCE Isoconcentration Map
A Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-20.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 5.5 — TCE Concentration (µg/L)
- 50 — TCE in Ground Water Contour, Solid Based on First Quarter 2006 Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sampling.
- Hookston Station Parcel Property Boundary
- 53.00 — Ground Water Elevation Contour, A-Zone, 23 January 2006 (feet above mean sea level)
- J — Estimated Values
- NS — Not Sampled
- * — Not Used for Contouring Based on Historical Data

The Maximum Contaminant Level For TCE in Drinking Water is 5 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

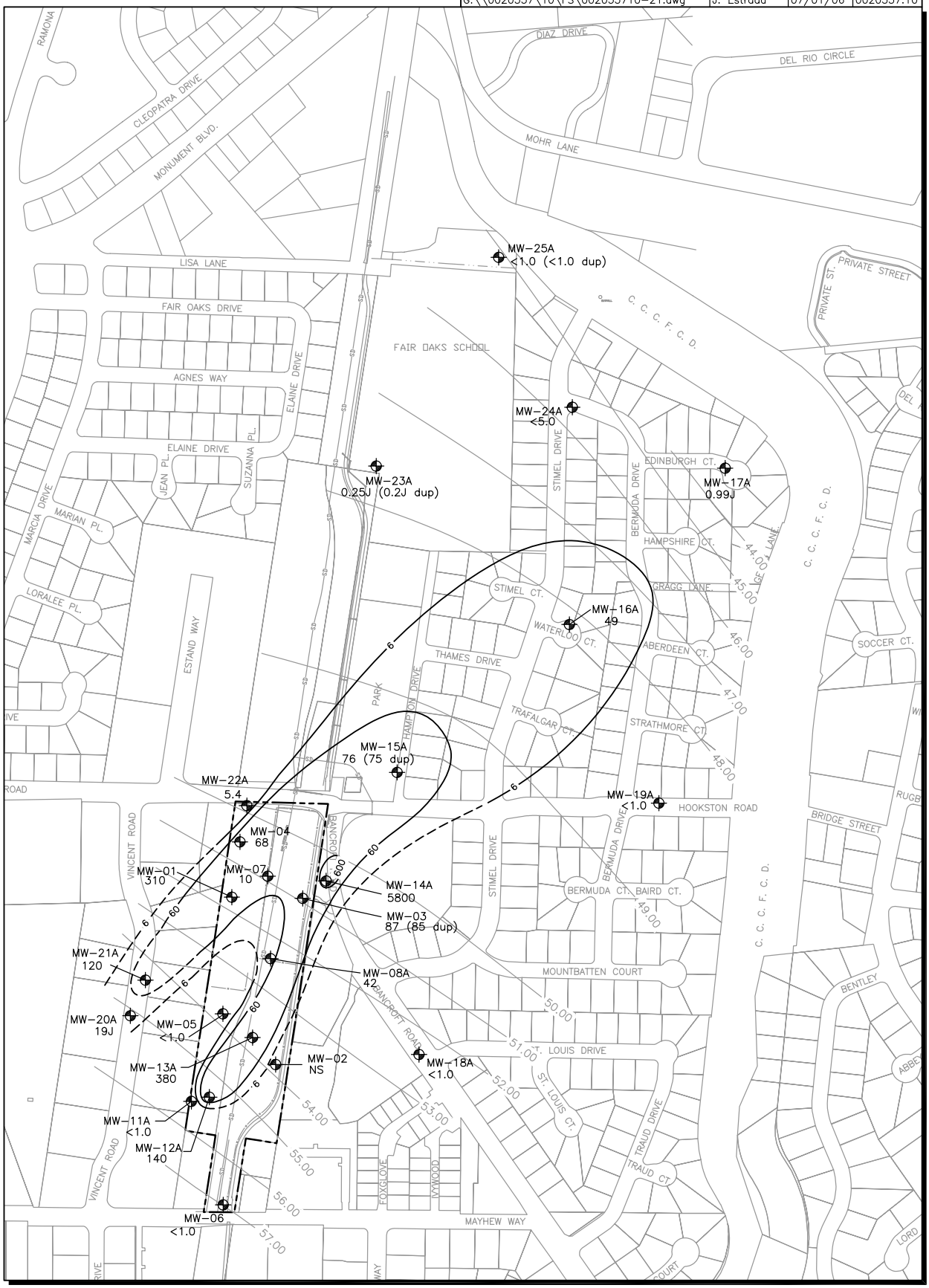
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0 300
FEET

Figure 2-12
TCE Isoconcentration Map
A Zone Ground Water
First Quarter 2006
Hookston Station Project
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-21.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 42 — cis-1,2-DCE Concentration (µg/L)
- 60 ——— cis-1,2-DCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 53.00 ——— Ground Water Elevation Contour, A-Zone, 23 January 2006 (feet above mean sea level)
- J — Estimated Values
- NS — Not Sampled

The Maximum Contaminant Level for cis-1,2-DCE in Drinking Water is 6 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

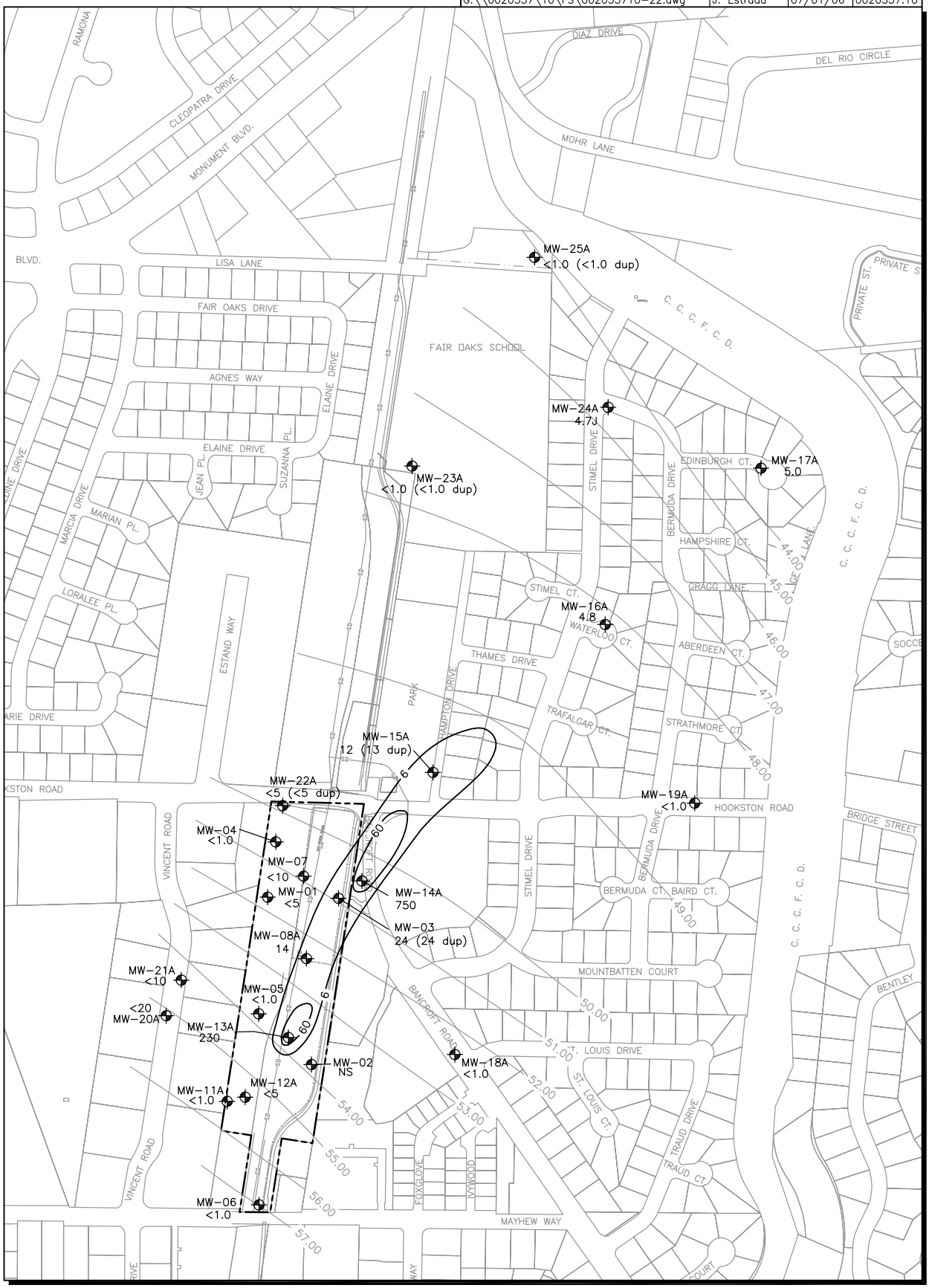
N

0 300
FEET

Figure 2-13
cis-1,2-DCE Isoconcentration Map
A Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-22.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 910 — 1,1-DCE Concentration (µg/L)
- 60 ——— 1,1-DCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 53.00 ——— Ground Water Elevation Contour, A-Zone, 23 January 2006 (feet above mean sea level)
- J Estimated Values
- NS Not Sampled

The Maximum Contaminant Level for 1,1-DCE in Drinking Water is 6 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

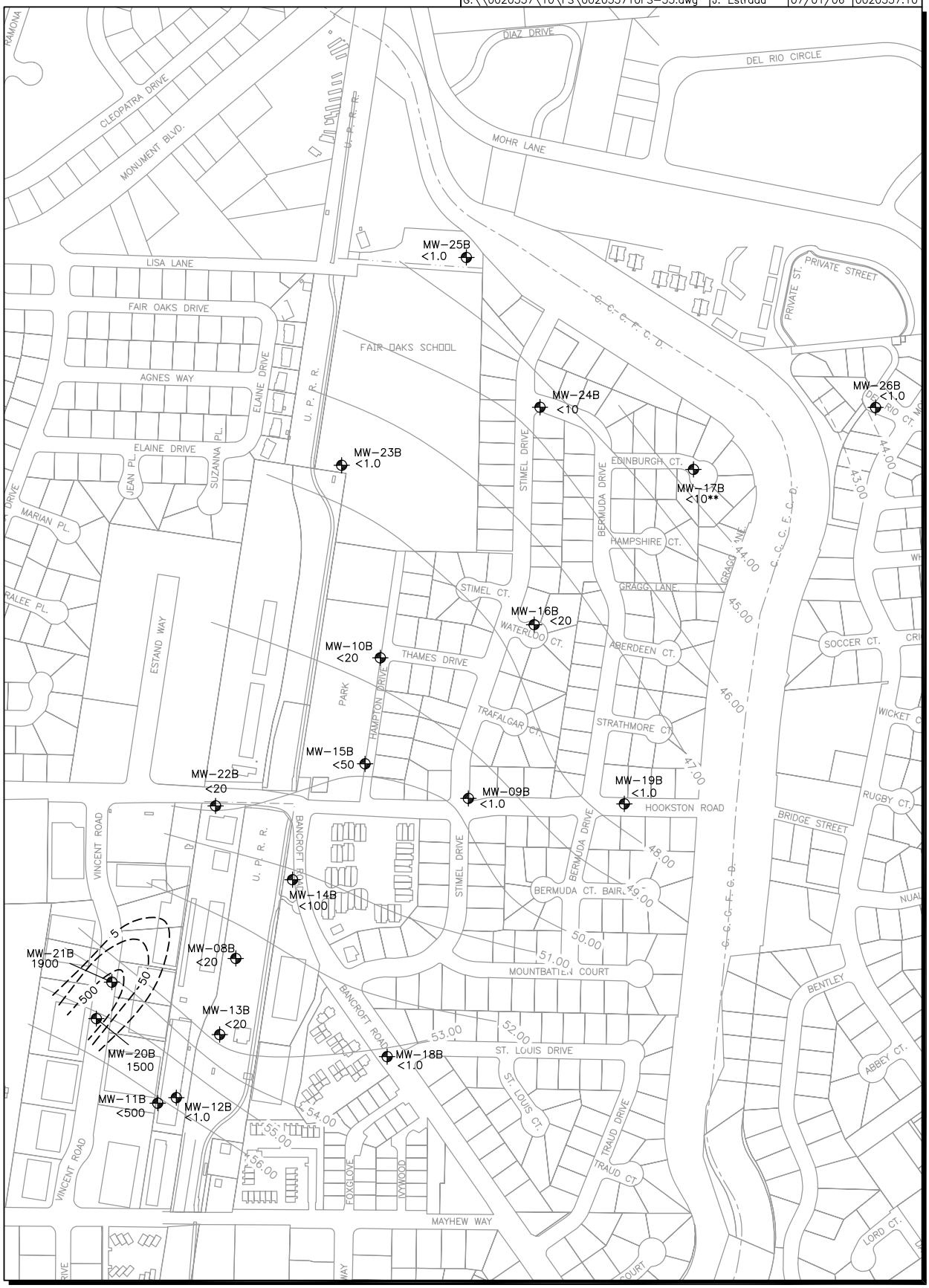
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0 300
FEET

Figure 2-14
1,1-DCE Isoconcentration Map
A Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-33.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 650 — PCE Concentration (µg/L)
- 50 ——— PCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 51.00 — Ground Water Elevation Contour, B-Zone, 23 January 2006 (feet above mean sea level)
- ** Multiple Sample Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted

The Maximum Contaminant Level for PCE in Drinking Water is 5 µg/L.

N

0 300

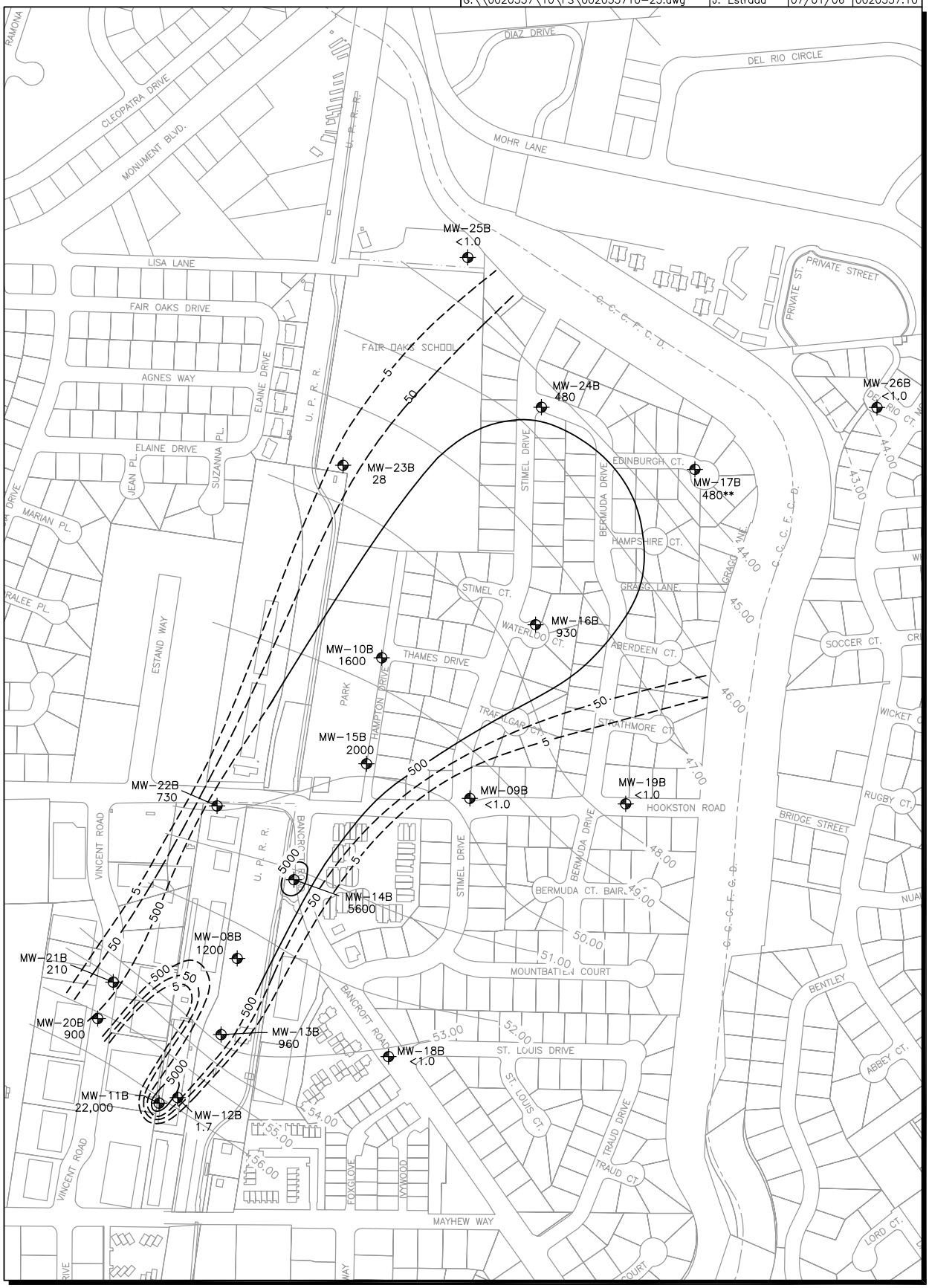
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Figure 2-15

PCE Isoconcentration Map
B Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-23.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 59 — TCE Concentration (µg/L)
- 50 ——— TCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 51.00 ——— Ground Water Elevation Contour, B-Zone, 23 January 2006 (feet above mean sea level)
- ** Multiple Sample Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted

The Maximum Contaminant Level for TCE in Drinking Water is 5 µg/L.

N

0 300

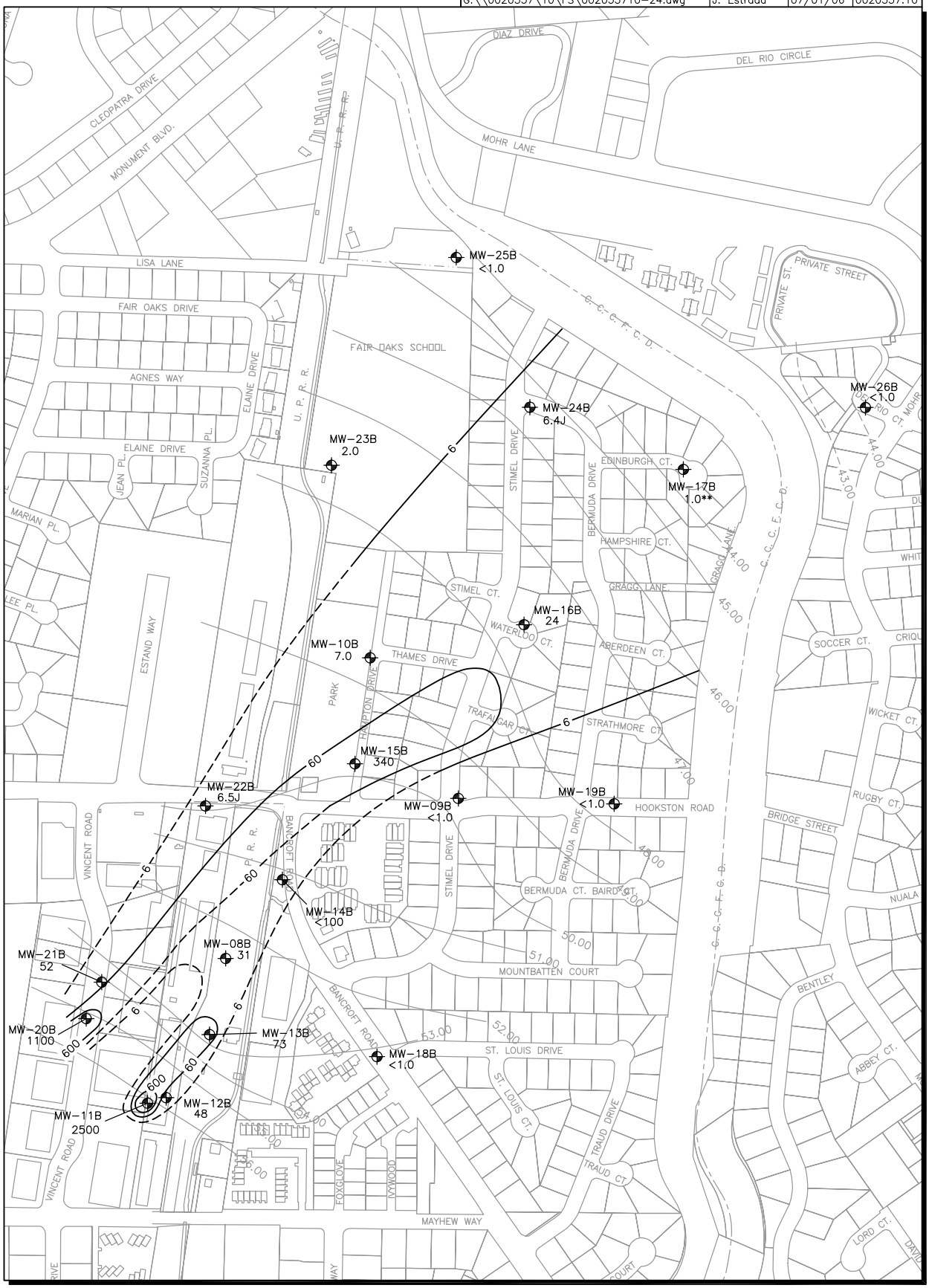
FEET

Figure 2-16

TCE Isoconcentration Map
B Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-24.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 21 — cis-1,2-DCE Concentration (µg/L)
- 60 ——— cis-1,2-DCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 51.00 — Ground Water Elevation Contour, B-Zone, 23 January 2006 (feet above mean sea level)
- J Estimated Values
- ** Multiple Sample Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted The Maximum Contaminant Level for cis-1,2-DCE in Drinking Water is 6 µg/L.

N

0 300

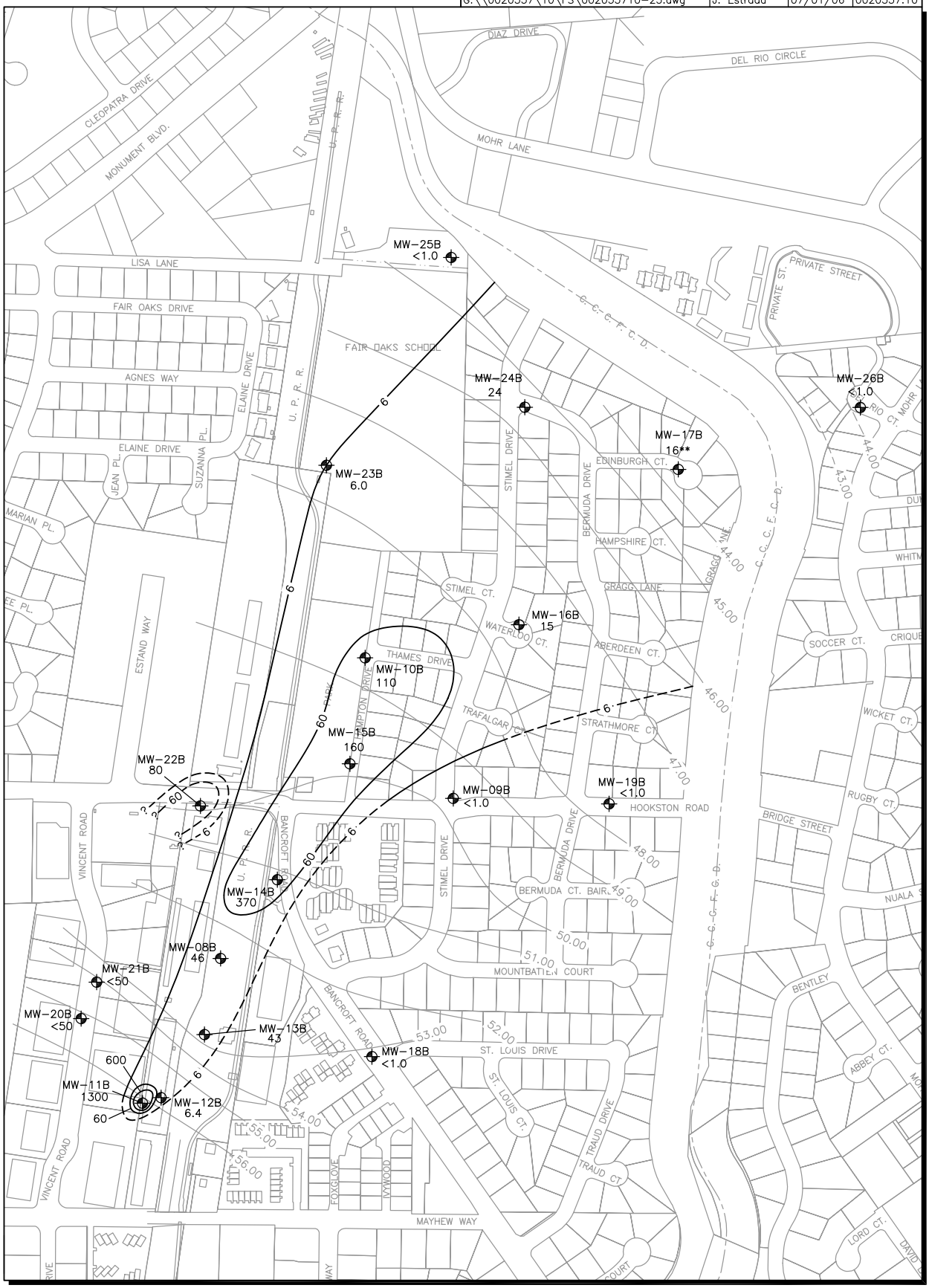
FEET

Figure 2-17

cis-1,2-DCE Isoconcentration Map
B Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710-25.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Monitoring Well Location
- 23 — 1,1-DCE Concentration (µg/L)
- 60 ——— 1,1-DCE in Ground Water Contour, Solid Based on First Quarter Monitoring Well Data, Dashed Where Inferred from Non-Hookston Station Investigation Data or Historical Grab Ground Water Sample Data.
- Hookston Station Parcel Property Boundary
- 51.00 ——— Ground Water Elevation Contour, B-Zone, 23 January 2006 (feet above mean sea level)
- ** Multiple Sample Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted

The Maximum Contaminant Level for 1,1-DCE in Drinking Water is 6 µg/L.

N

0 300

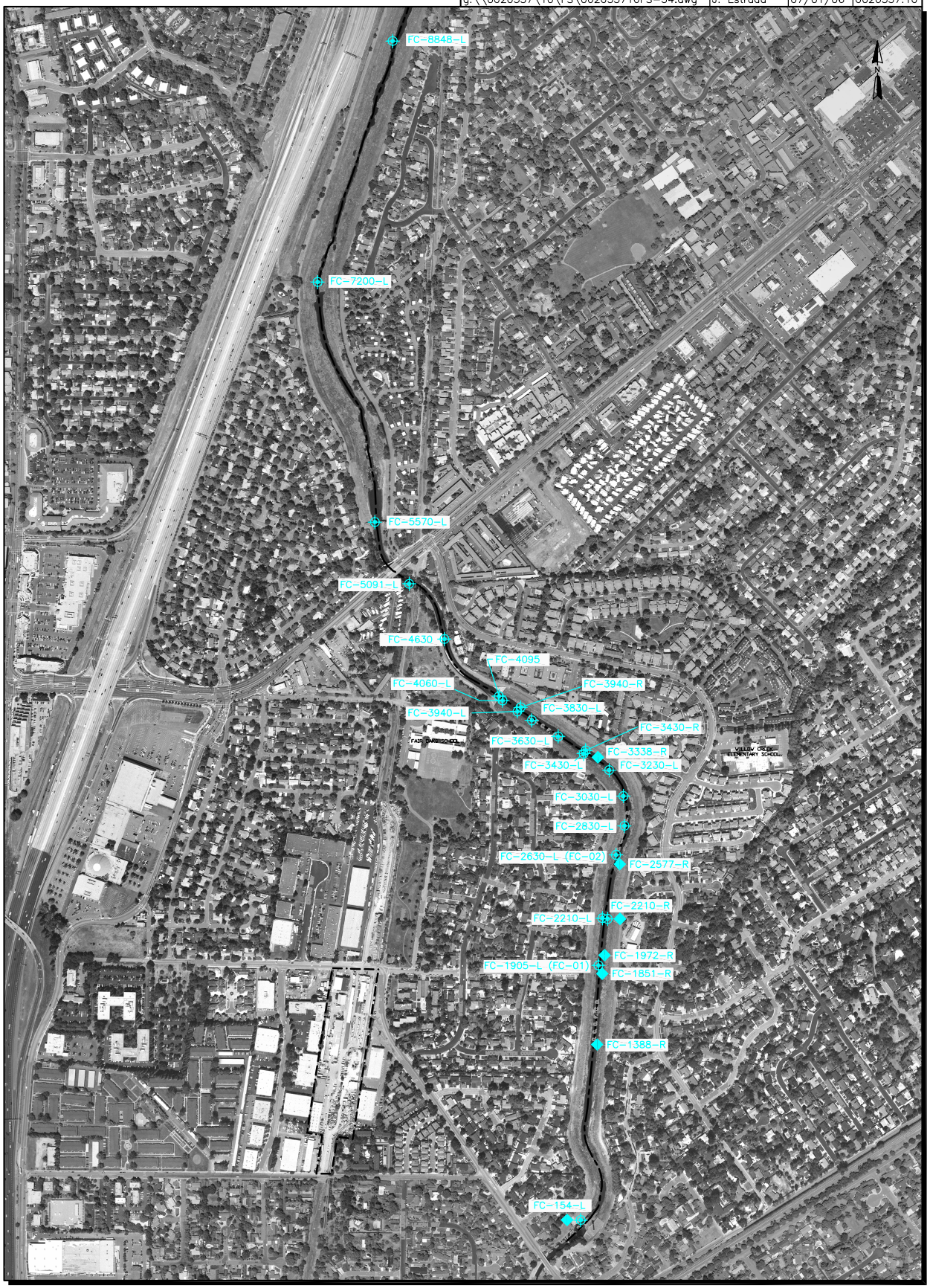
FEET

Figure 2-18

1,1-DCE Isoconcentration Map
B Zone Ground Water
First Quarter 2006
Hookston Station
Pleasant Hill, California

ERM 07/06

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LEGEND

FC-154-L — Canal Surface Water Sample

FC-154-L — Canal Sediment Sample

Hookston Station Parcel Property Boundary

Note: Aerial Photos Taken May 2000.

N

0 600

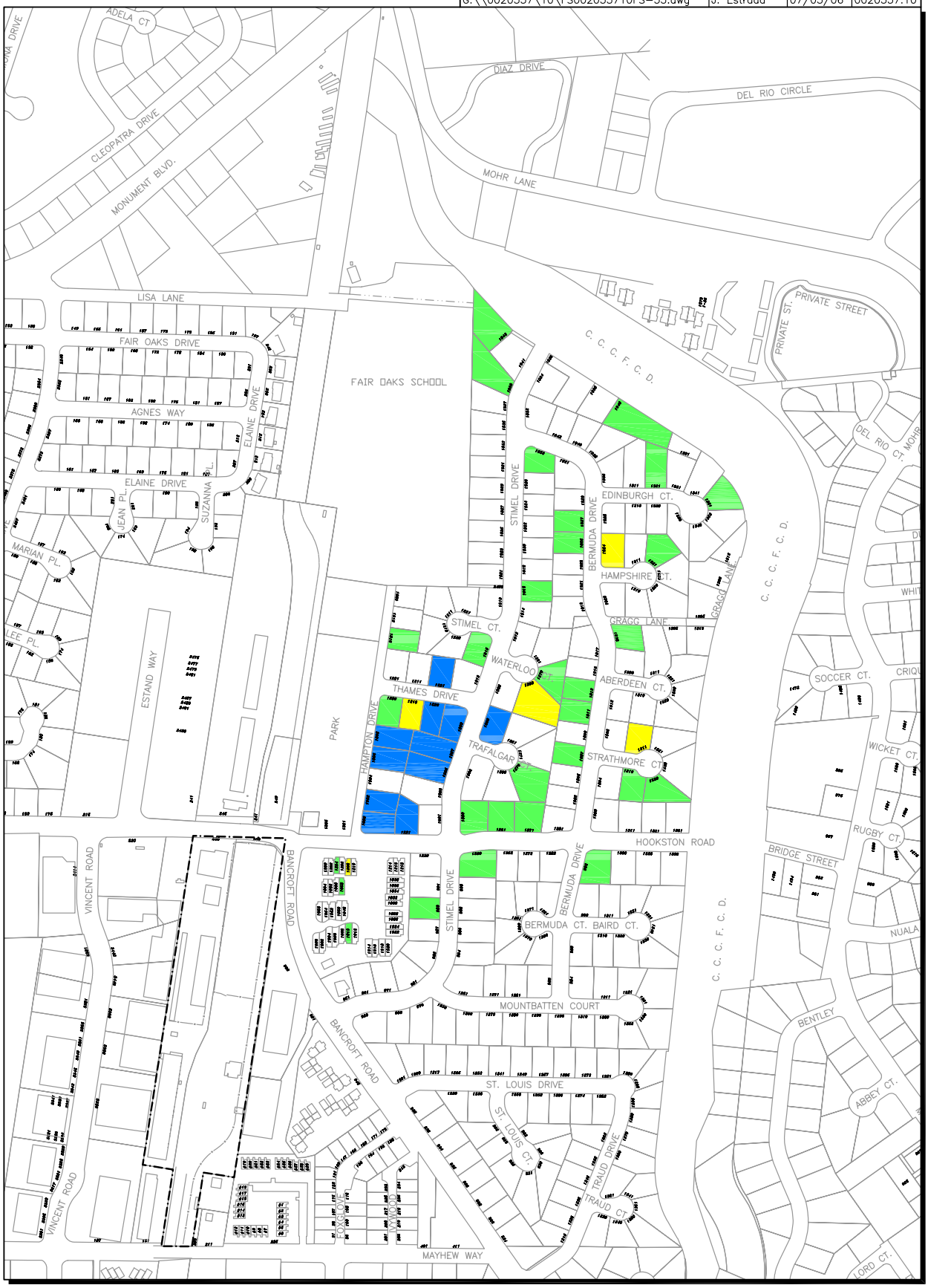
FEET

Figure 2-19

Surface Water and Sediment Sample Locations
Hookston Station
Pleasant Hill, California

ERM 07/06

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G:\\0020557\10\FS002055710FS-35.dwg	J. Estrada	07/03/06	0020557.10



LEGEND

- Hookston Station Parcel Property Boundary
- TCE Not Detected in Indoor Air Above Laboratory Reporting Limit
- TCE Detected in Indoor Air At a Concentration Below 1.22 µg/m³ (Residential CHHSL)
- TCE Detected in Indoor Air At a Concentration of 1.22 µg/m³ or Greater (Residential CHHSL)

Note: For homes sampled more than once, figure is based on the maximum TCE concentrations detected in indoor air.

Note: Graphic depicts highest concentrations detected historically to show extent of impacts. Many homes have been fitted with vapor intrusion prevention systems which have reduced indoor air concentrations to below CHHSLs.

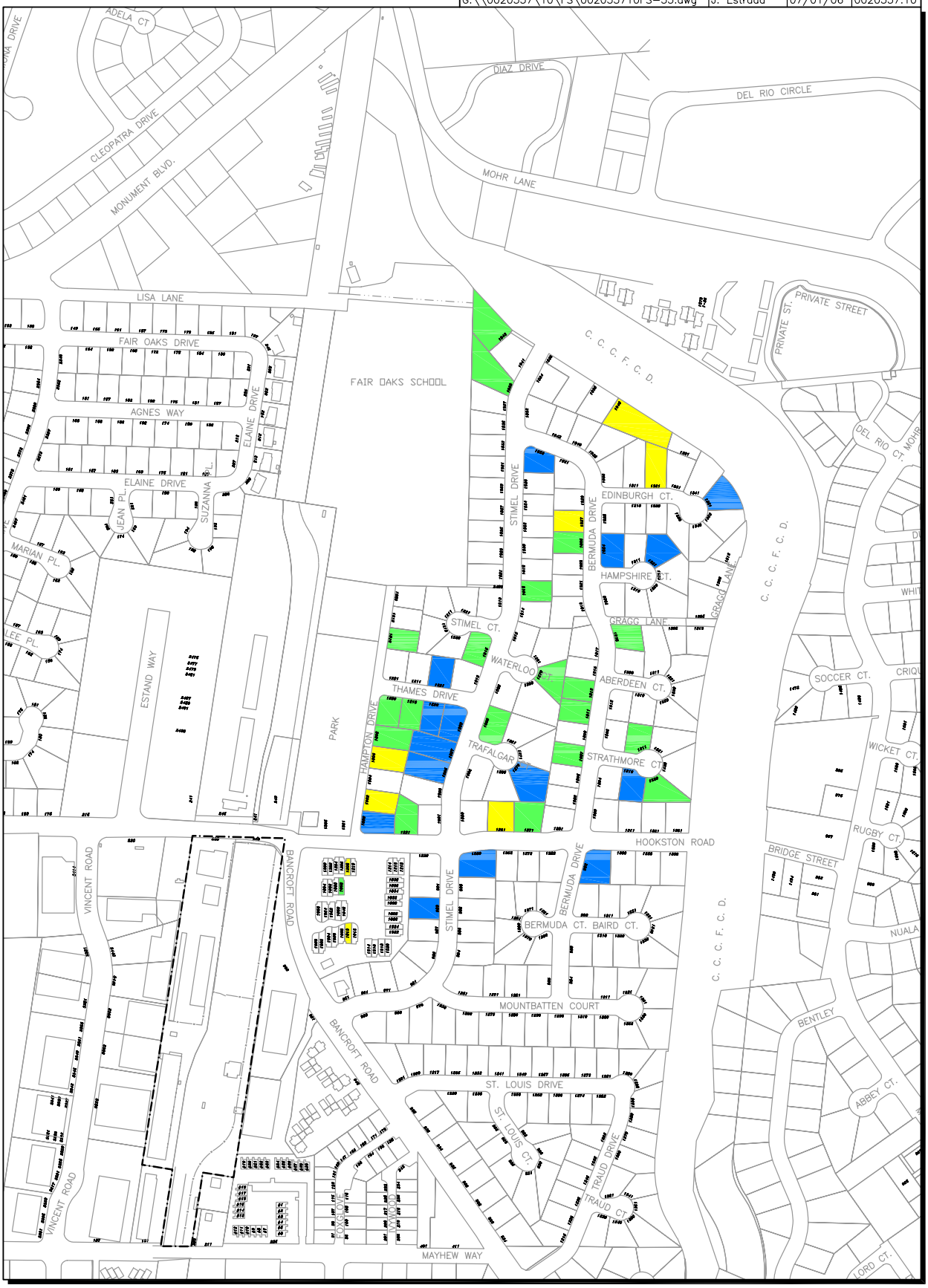
N

0 300
FEET

Figure 2-20
TCE in Residential Indoor Air (2004 - 2006)
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-35.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Hookston Station Parcel Property Boundary
- PCE Not Detected in Indoor Air Above Laboratory Reporting Limit
- PCE Detected in Indoor Air At a Concentration Below 0.412 µg/m³ (Residential CHHSL)
- PCE Detected in Indoor Air At a Concentration of 0.412 µg/m³ or Greater (Residential CHHSL)

Notes:
1. For homes sampled more than once, figure is based on the maximum PCE concentrations detected in indoor air.
2. Not all samples collected in 2004 were analyzed for PCE.

Note: Graphic depicts highest concentrations detected historically to show extent of impacts. Many homes have been fitted with vapor intrusion prevention systems which have reduced indoor air concentrations to below CHHSLs.

N

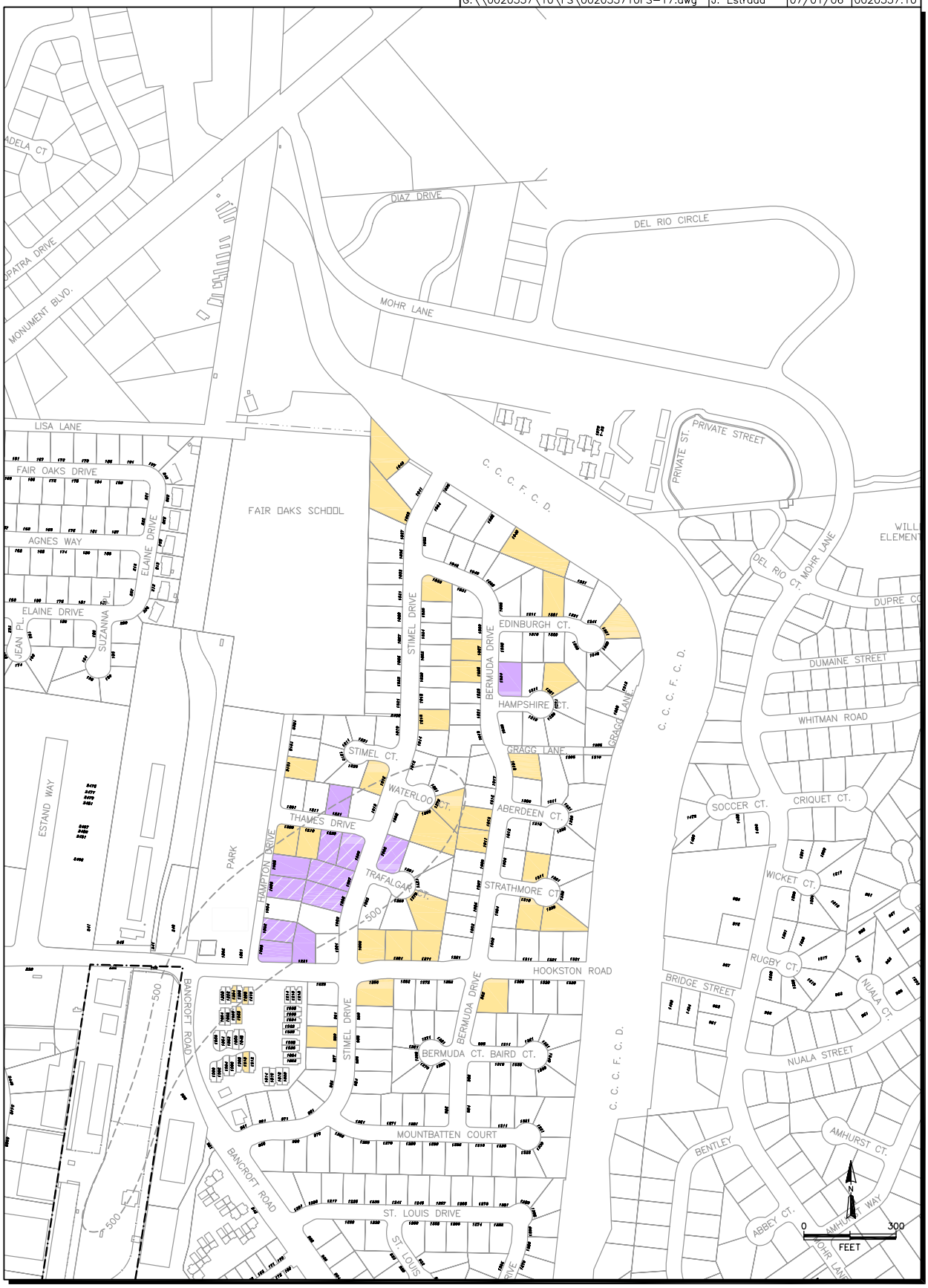
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FEET

Figure 2-21

PCE in Residential Indoor Air (2004 - 2006)
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
G:\\0020557\10\FS\002055710FS-17.dwg	J. Estrada	07/01/06	0020557.10



LEGEND

- Hookston Station Parcel Property Boundary
- TCE Detected in Indoor Air At a Concentration of 0.96 µg/m³ or Greater (risk-based cleanup goal)
- TCE Detected in Indoor Air at Concentrations Below 0.96 µg/m³, or Was Not Detected Above Laboratory Reporting Levels
- Vapor Intrusion Prevention System Installed
- 500 — TCE in A-Zone Ground Water Contour (500 µg/L), First Quarter 2006

Note: Figure is based on the maximum TCE concentrations detected in indoor air during 2004–2006.

Figure 4-1

Residential Indoor Air Relative to Risk-Based Cleanup Goal
Hookston Station
Pleasant Hill, California

ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
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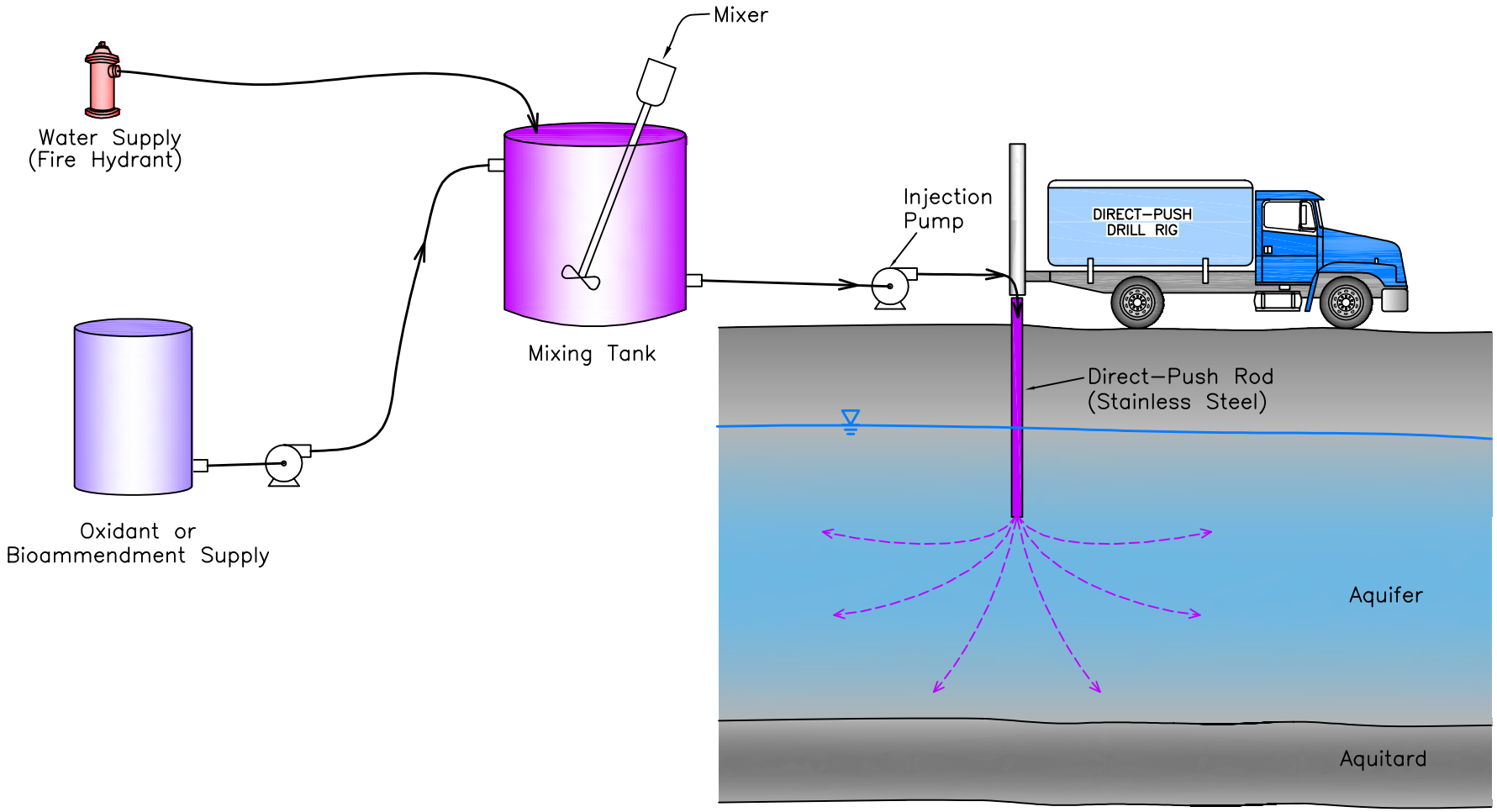


Figure 5-1

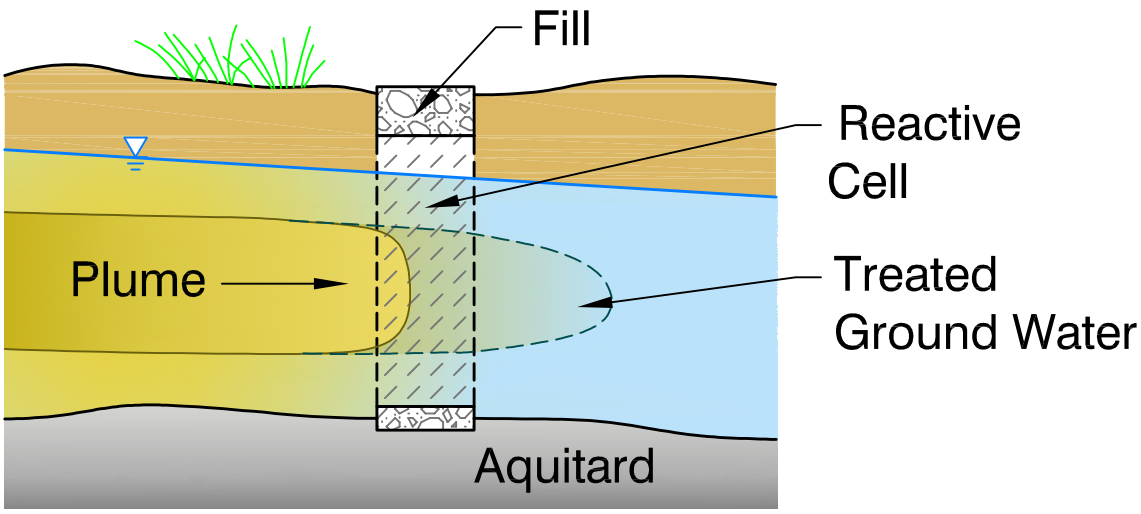
Conceptual View Direct-Push Injection System

Hookston Station

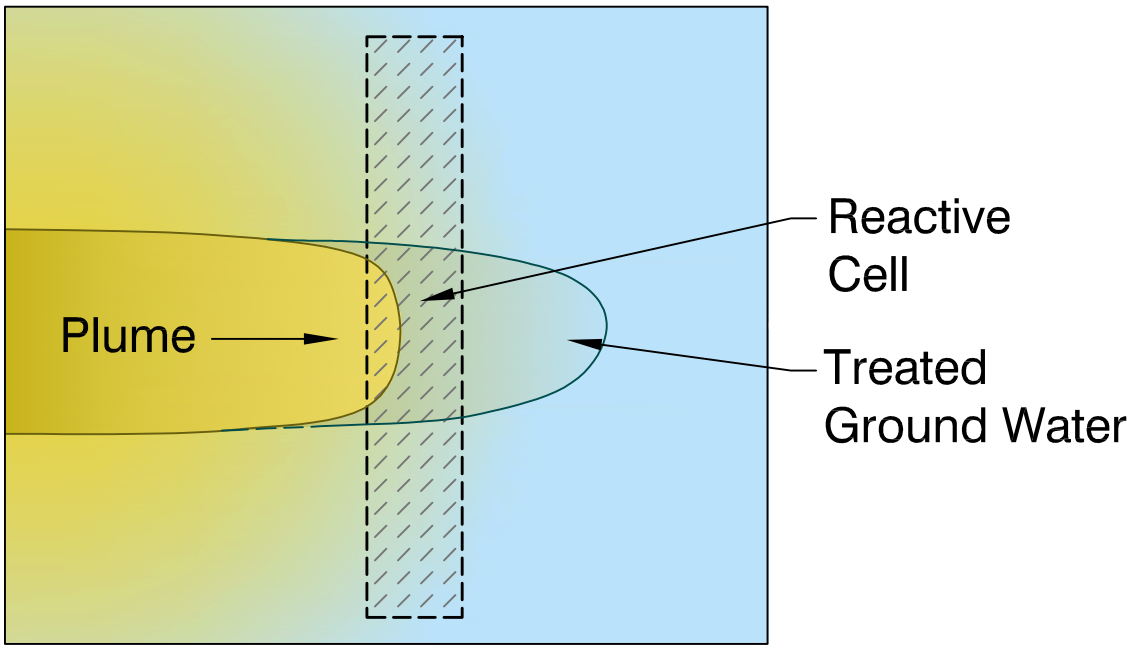
Pleasant Hill, California

ERM 07/06

Project No. 0020557.10
Date: 07/10/06
Drawn By: R. Olson
CAD File: G:\20557\10\FS\2055710FS-49.dwg



Permeable Reactive Barrier (Elevation View)



Permeable Reactive Barrier (Plan View)

Figure 5-2
Conceptual View Permeable Reactive Barrier Technology
Hookston Station
Pleasant Hill, California
ERM 07/06

CAD File:	Drawn By:	Date:	Project No.
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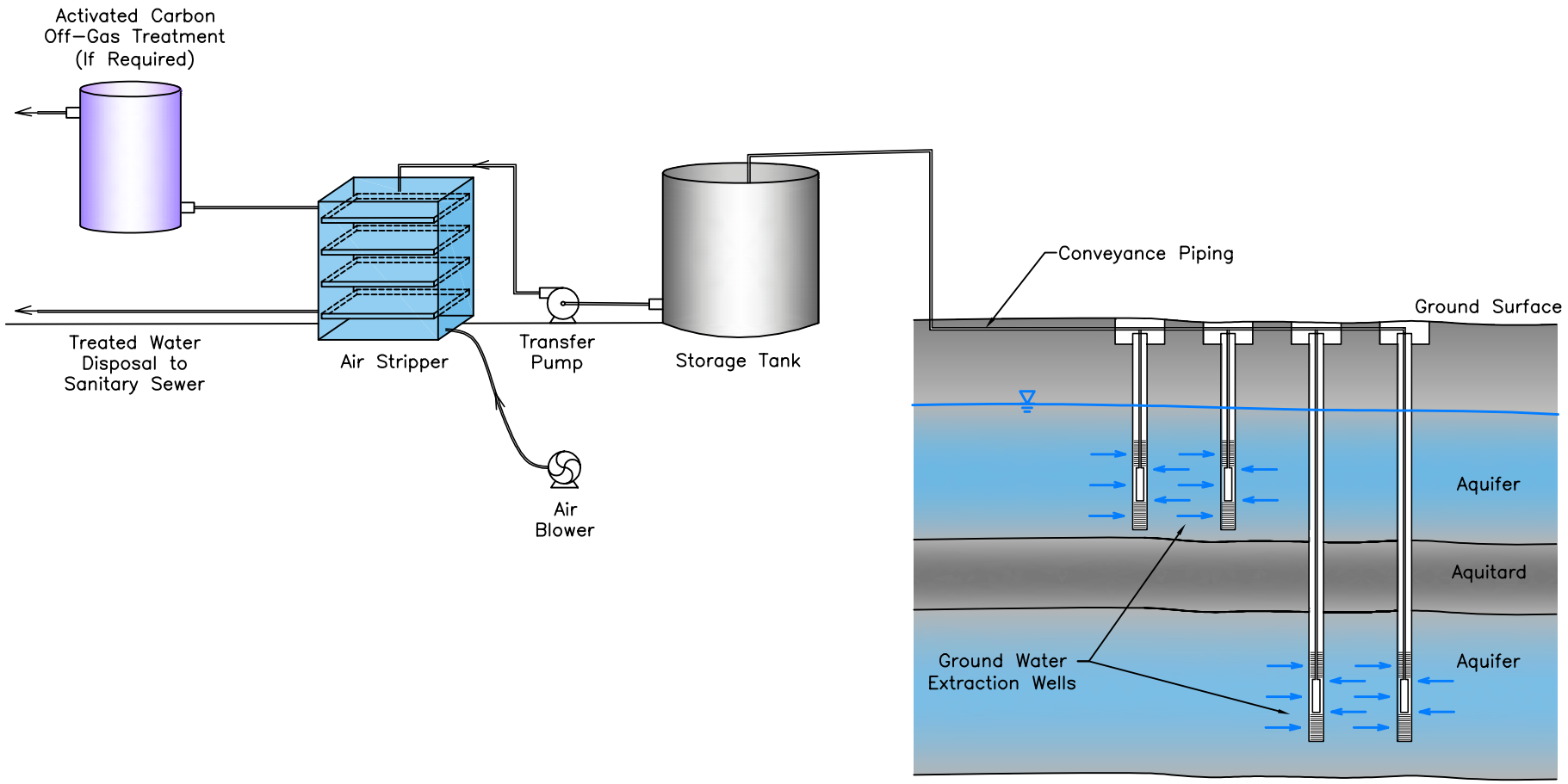


Figure 5-3

Conceptual View Ground Water Extraction Treatment and Disposal

Hookston Station

Pleasant Hill, California

ERM 07/06