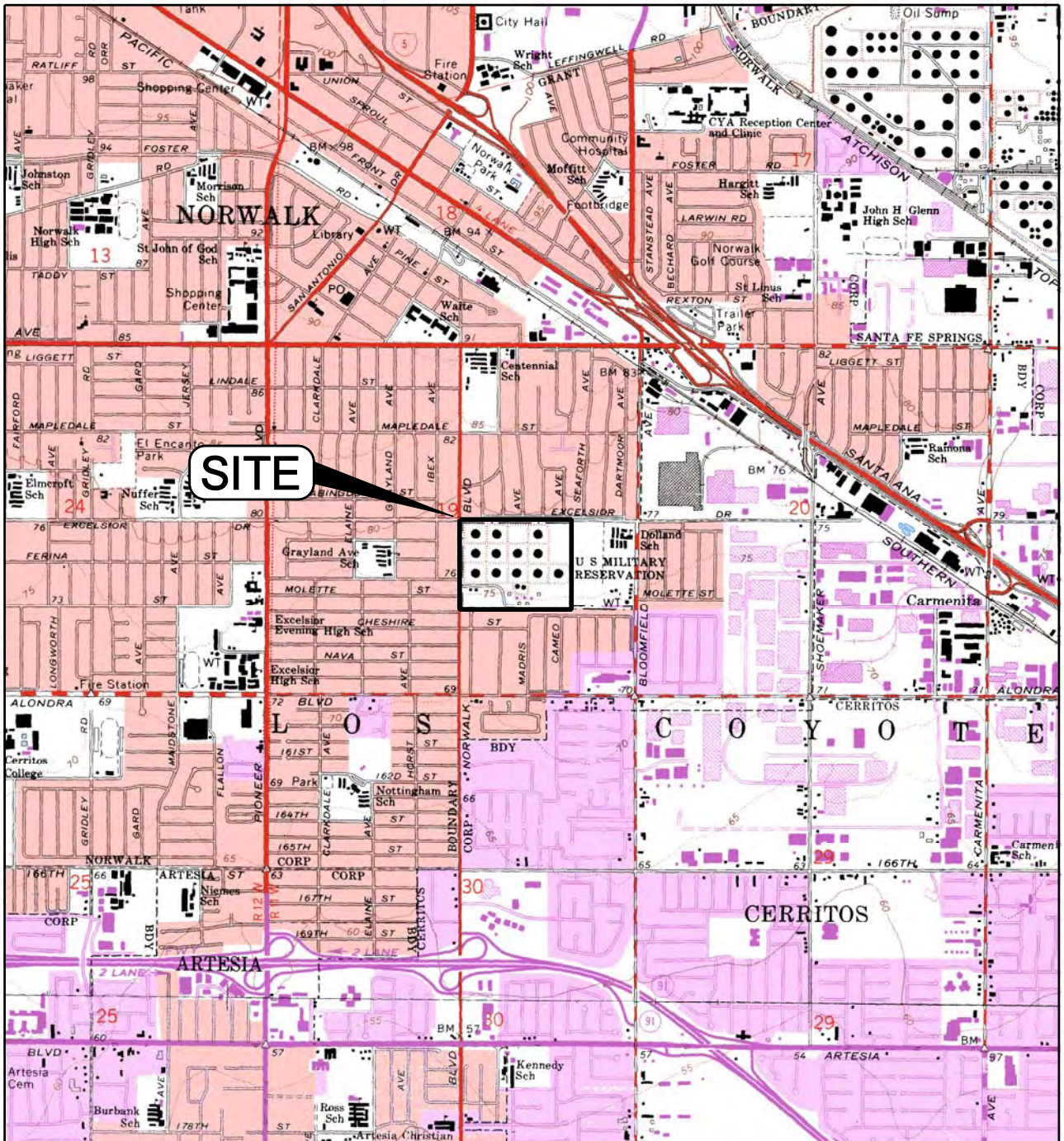
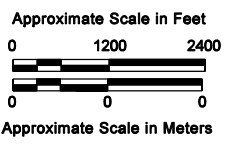


## FIGURES

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**SITE**



BASEMAP MODIFIED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP  
 LOS ALAMITOS 1964, CALIFORNIA. PHOTO-REVISED 1981.  
 WHITTIER 1965, CALIFORNIA. PHOTO-REVISED 1981.

**SITE LOCATION MAP**

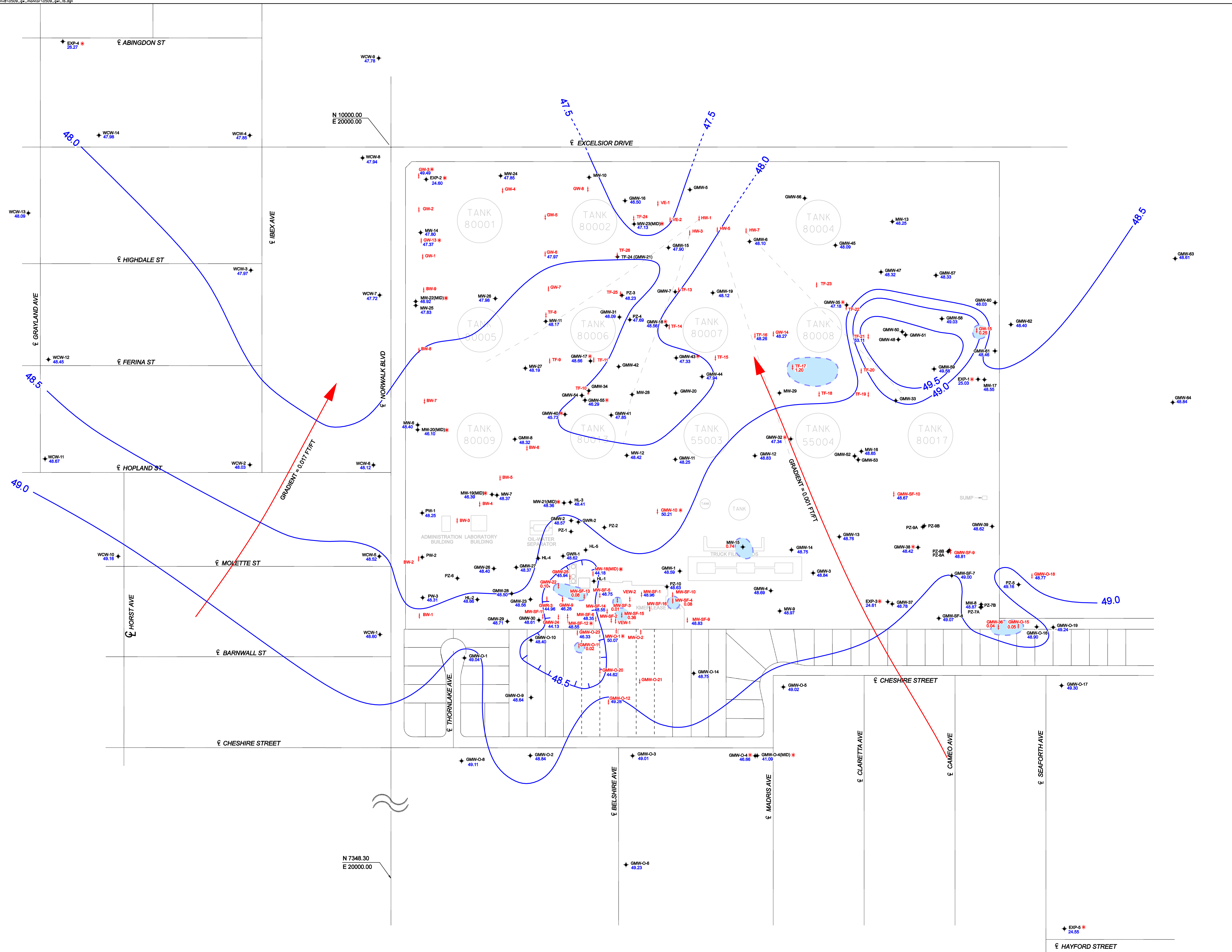
**DFSP NORWALK  
 Norwalk, California**

By: kle	Date: 07/19/07	Project No: 1603.044
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**AMEC Geomatrix**

Figure 1





**Explanation**

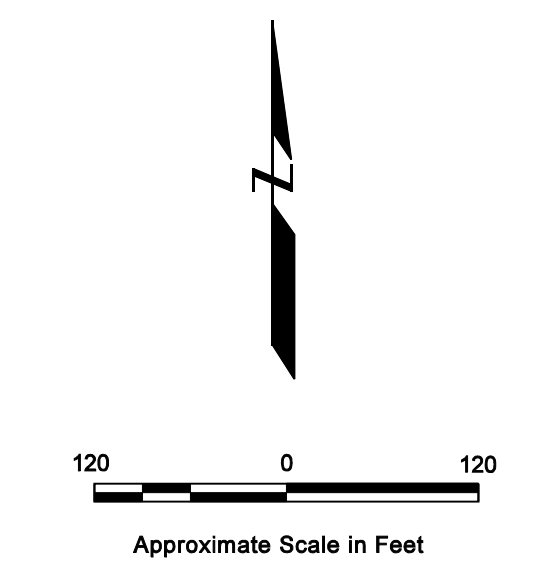
- GMW-39 ↗ Monitoring well used for sample collection and/or water level measurement
- VE-1 ↗ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- GMW-64 ↗ Groundwater elevation in feet above mean sea level (MSL)
- MW-SF-4 ↗ Apparent thickness of free product measured in well (feet)
- MW-22(MID)\* ↗ Groundwater elevation not used in contouring (see Note 2)
- 48.0 - - - Lines of equal groundwater elevation showing groundwater elevation in feet above MSL. (dashed where inferred)
- ↗ Approximate direction of groundwater flow
- Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater (dashed where inferred)

**Notes:**

1. Groundwater elevations shown at wells are based on data collected by Blaine Tech Services, Inc. (Blaine Tech), on behalf of SFPD and DESC on April 20, 2009, and by Envent Corporation (Envent) on April 21, 2009, on behalf of SFPD.
2. Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer are not used in contouring. Groundwater elevation contours are intended to represent generalized site-wide conditions and are interpreted from data collected by Blaine Tech and Envent. Wells with groundwater elevations not used in contouring are marked with a red asterisk (\*).
3. Parsons gauged 67 wells between April 15 and 17, 2009. Forty-five of these wells were gauged by Blaine Tech during the dates listed in Note 1. The groundwater extraction systems for the south-central and southeastern areas were in operation during Parsons' gauging activities between April 15 and 17, 2009. Groundwater levels measured by Parsons were not used in contouring due to difference in pumping status of the groundwater extraction systems between the gauging events by Parsons and Blaine Tech, but are listed in Table 3 and in Appendix B.
4. Product levels in wells GW-15 and TF-17 were measured by Parsons on April 15 and 17, 2009, respectively.

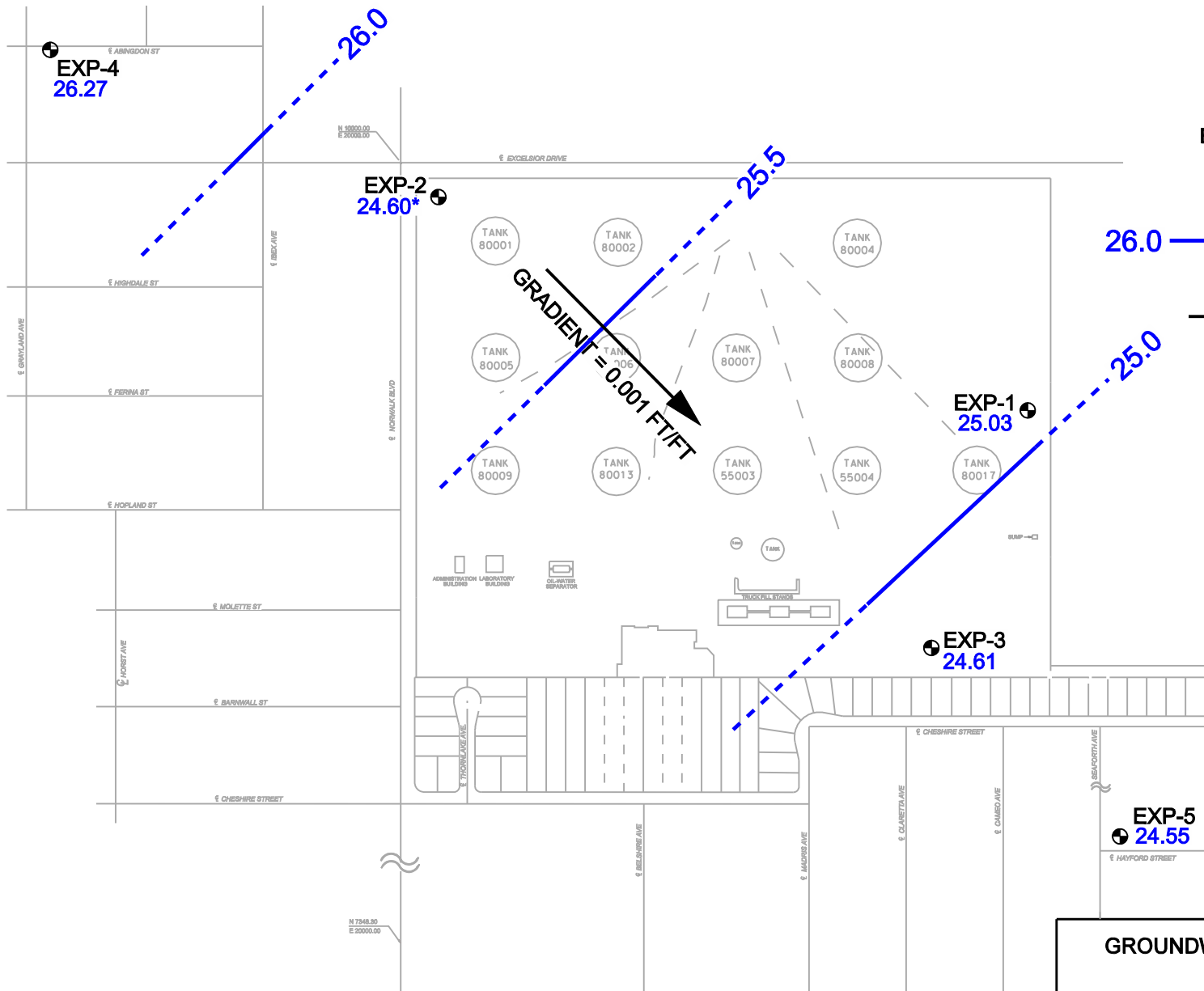
**Survey Notes:**

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTE and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.



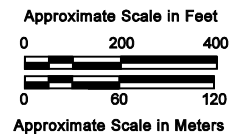
**GROUNDWATER ELEVATIONS AND MEASURABLE LIQUID-PHASE HYDROCARBONS IN UPPERMOST GROUNDWATER ZONE**  
 APRIL 2009  
 DFSP NORWALK  
 Norwalk, California

By: pah      Date: 07/24/09      Project No: 1603.044



**Explanation**

- EXP-5 24.55 ● Groundwater monitoring well and groundwater elevation in feet above mean sea level (MSL)
- 26.0 — — — Line of equal groundwater elevation in feet MSL; dashed where inferred
- ➔ Approximate direction of groundwater flow
- \* Anomalous groundwater elevation not used on contouring



Basemap modified from data provided by Groundwater Technology, Dulin and Boynton, Geomatrix, and Parsons.

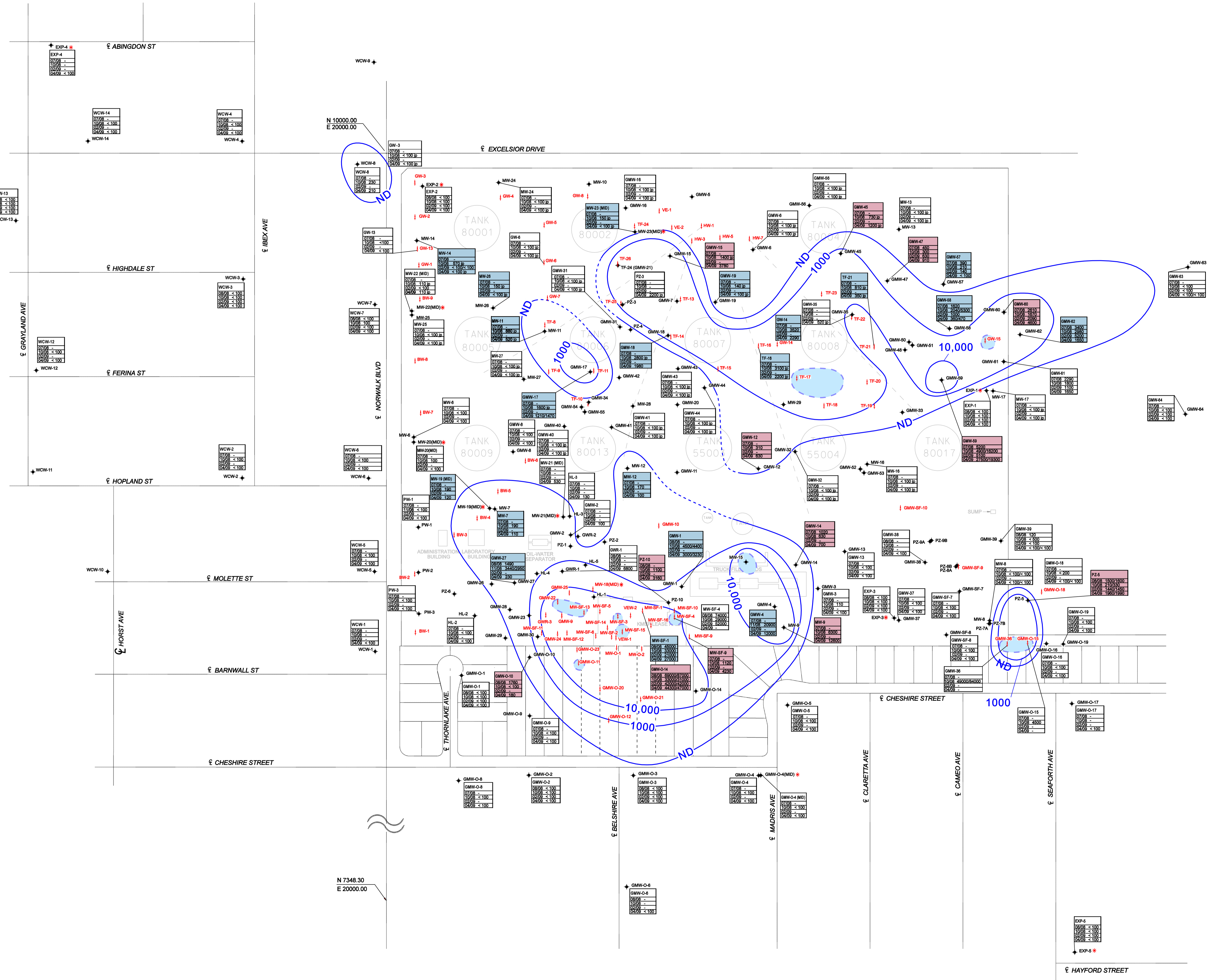
**GROUNDWATER EQUIPOTENTIAL MAP FOR EXPOSITION AQUIFER  
 APRIL 20, 2009  
 DFSP NORWALK  
 Norwalk, California**

By: pah      Date: 07/24/09      Project No: 1603.044

**AMEC Geomatrix**

Figure **3**





### Explanation

- GMW-5 ↗ Monitoring well and designation
- VE-1 ↓ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- MW-13 

07/08	< 100
10/08	< 100
02/09	< 100
04/09	< 100

 TPH (TPHg and TPH<sub>p</sub> or TPHg and TPH<sub>p</sub>) results in micrograms per liter (µg/L) for the two most recent semi-annual and entry events; where the databox is shown in white, the concentration of TPH (or TPH<sub>p</sub> where TPHg was not analyzed) has remained similar (concentration change is less than 10%) at that location since the previous semi-annual monitoring event or the dataset shown does not provide a basis for comparison
- GMW-60 

07/08	2510
10/08	2400
02/09	2000
04/09	2000

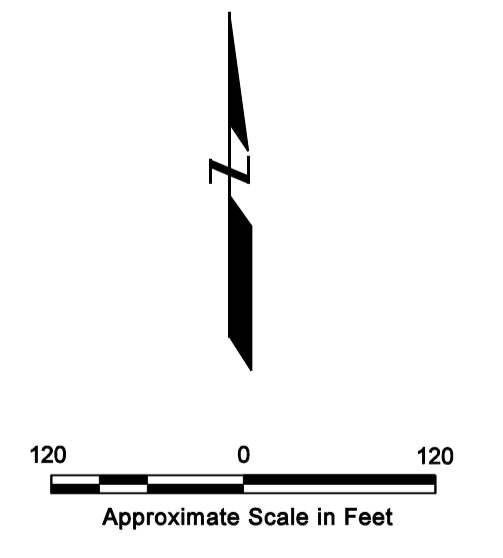
 Where the databox is shown in red, the concentration of TPH (or TPH<sub>p</sub> where TPHg was not analyzed) has increased by 10% or more at that location since the previous semi-annual monitoring event
- GMW-42 

07/08	3400
10/08	2800
02/09	1100
04/09	1850

 Where the databox is shown in blue, the concentration of TPH (or TPH<sub>p</sub> where TPHg was not analyzed) has decreased by 10% or more at that location since the previous semi-annual monitoring event
- < 100 µg TPH results that include only TPH<sub>p</sub> results are marked with 'p'
- < 100 Not detected at or above laboratory reporting limit shown
- Not sampled/not analyzed
- < 100 / < 100 Primary sample analytical result/duplicate sample analytical result (µg/L)
- MW-22(MID)\* ↗ Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer are not used in contouring
- ND --- Estimated extent of detected dissolved TPH in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- 1000 --- Lines of equal TPH concentration (µg/L) in groundwater; dashed where inferred
- Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater; dashed where inferred

### Survey Notes:

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTE and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.

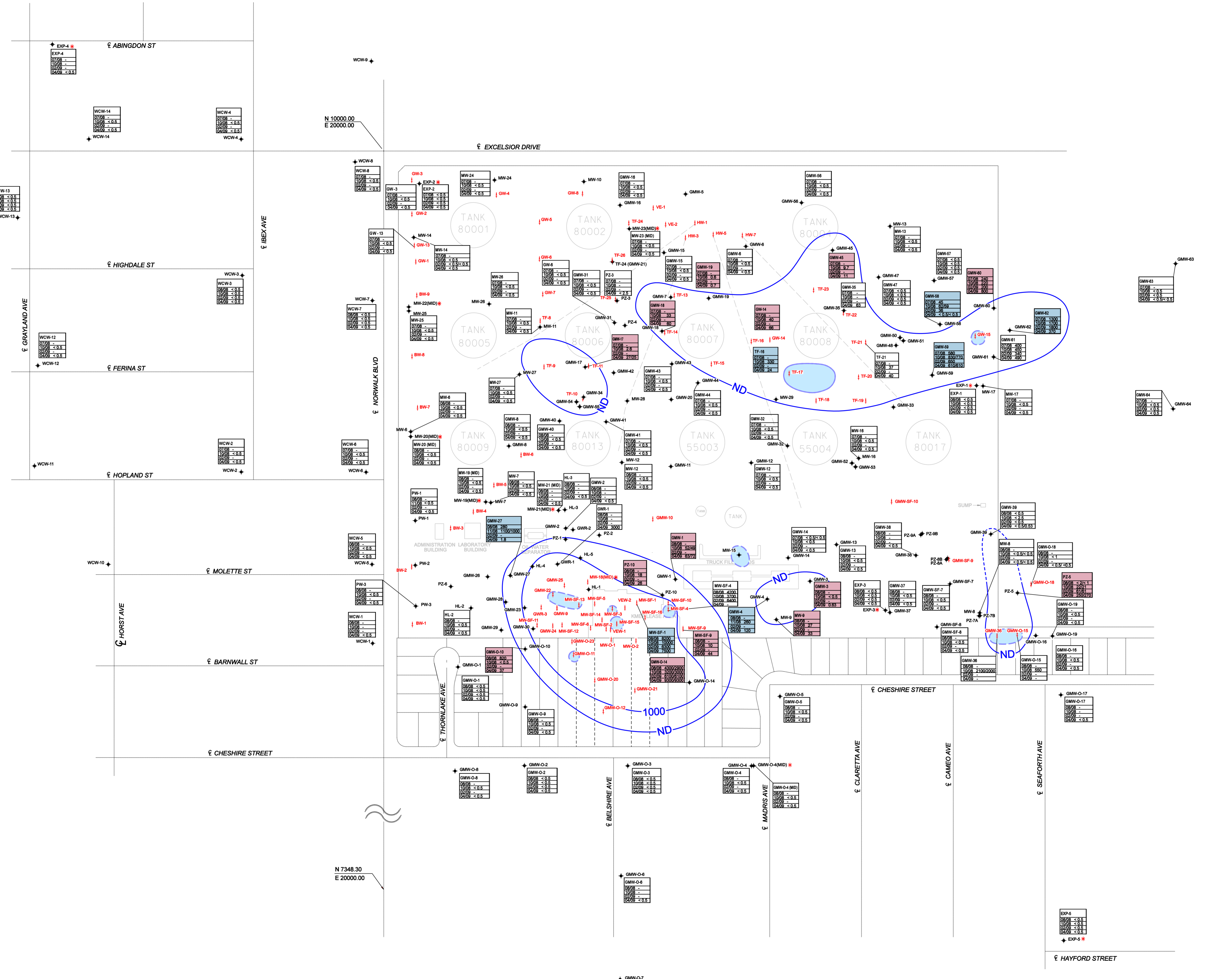


## TOTAL PETROLEUM HYDROCARBONS IN UPPERMOST GROUNDWATER ZONE APRIL 2009

DFSP NORWALK  
Norwalk, California

By: pah      Date: 7/24/09      Project No: 1603.044

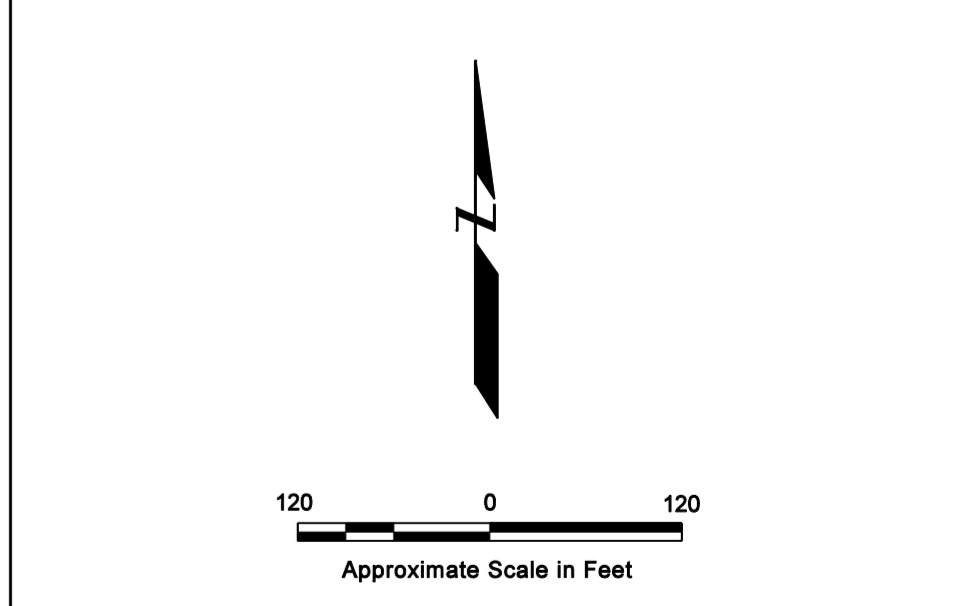




**Explanation**

- GMW-5 Monitoring well and designation
- VE-1 Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- GMW-58 Benzene results in micrograms per liter (µg/L) for the two most recent semi-annual and safety events; where the databox is shown in white, the concentration of Benzene has remained similar (concentration change is less than 10%) at that location since the previous semi-annual monitoring event or the dataset shown does not provide a basis for comparison
- GMW-60 Where the databox is shown in red, the concentration of Benzene has increased by 10% or more at that location since the previous semi-annual monitoring event
- GMW-62 Where the databox is shown in blue, the concentration of Benzene has decreased by 10% or more at that location since the previous semi-annual monitoring event
- <0.5 Not detected at or above laboratory reporting limit shown
- Not sampled/not analyzed
- <0.5 / <0.5 Primary sample analytical result / duplicate sample analytical result (µg/L)
- MW-22(MID) Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer are not used in contouring
- ND Estimated extent of detected dissolved Benzene in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- 1000 Lines of equal Benzene concentration (µg/L) in groundwater; dashed where inferred
- Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater; dashed where inferred

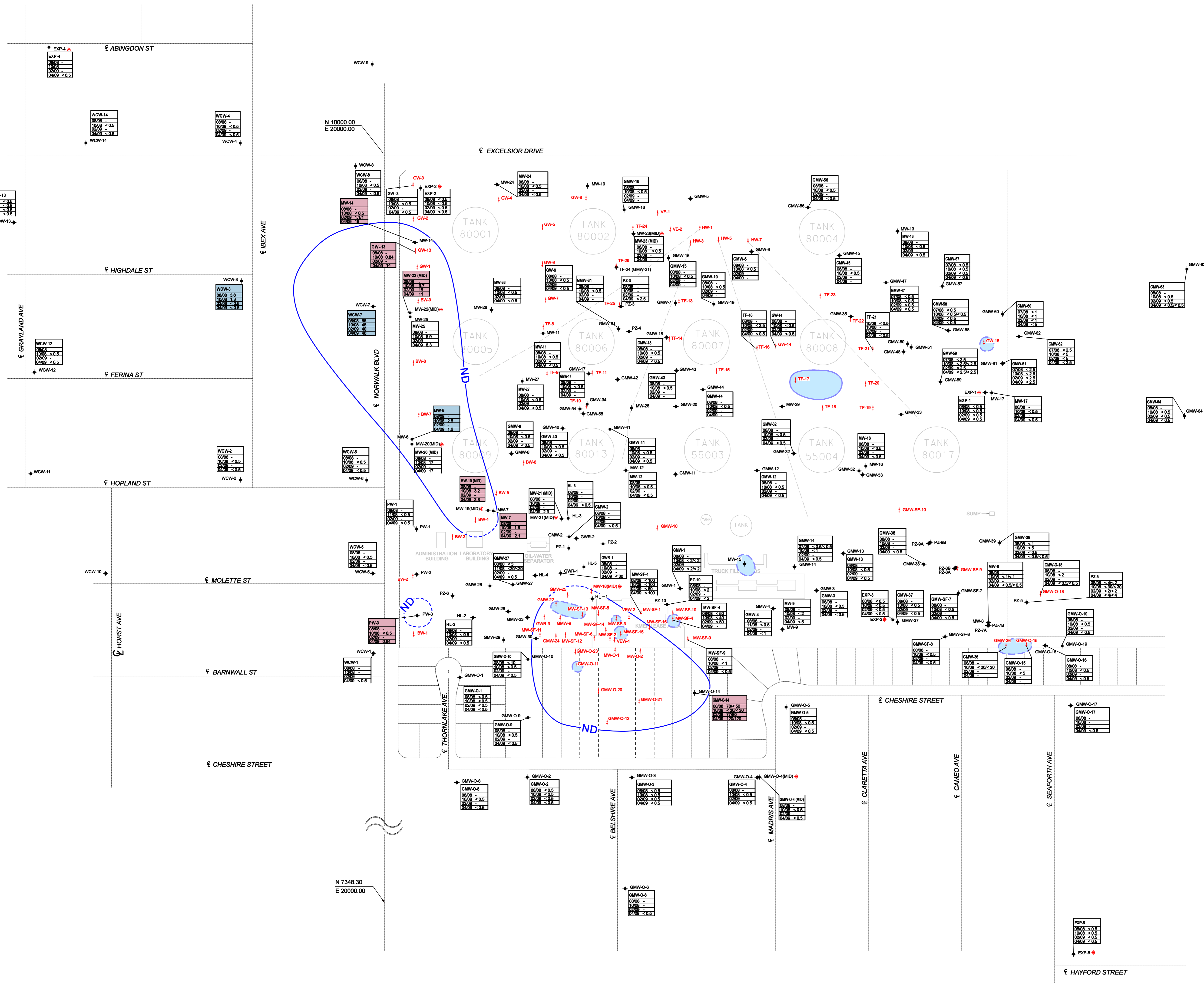
- Survey Notes:**
- Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
  - Except as noted below, well locations surveyed by Dulin & Boynton.
  - Locations of wells HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTE and Woodward-Clyde.
  - Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.



**BENZENE IN UPPERMOST GROUNDWATER ZONE  
APRIL 2009**

DFSP NORWALK  
Norwalk, California





### Explanation

- GMW-5 + Monitoring well and designation
- VE-1 ↓ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- GMW-64  
0508 < 0.5  
1008 < 0.5  
0409 < 0.5
- 1,2-DCA results in micrograms per liter (µg/L) for the two most recent semi-annual monitoring events; where the data box is shown in white, the concentration of 1,2-DCA has remained similar (concentration change is less than 10%) at that location since the previous semi-annual monitoring event or the dataset shown does not provide a basis for comparison
- GMW-54  
0508 < 0.5  
1008 < 0.5  
0409 < 0.5
- Where the data box is shown in red, the concentration of 1,2-DCA has increased by 10% or more at that location since the previous semi-annual monitoring event
- WCV-7  
0508 < 0.5  
1008 < 0.5  
0409 < 0.5
- Where the data box is shown in blue, the concentration of 1,2-DCA has decreased by 10% or more at that location since the previous semi-annual monitoring event
- <0.5 Not detected at or above laboratory reporting limit shown
- Not sampled/not analyzed
- <0.5 / <0.5 Primary sample analytical result / duplicate sample analytical result (µg/L)
- MW-22(MID) \* Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer are not used in contouring
- ND Estimated extent of detected dissolved 1,2-DCA in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- Estimated extent of measurable light nonaqueous phase hydrocarbons (LNAPL, free product) on groundwater; dashed where inferred

### Survey Notes:

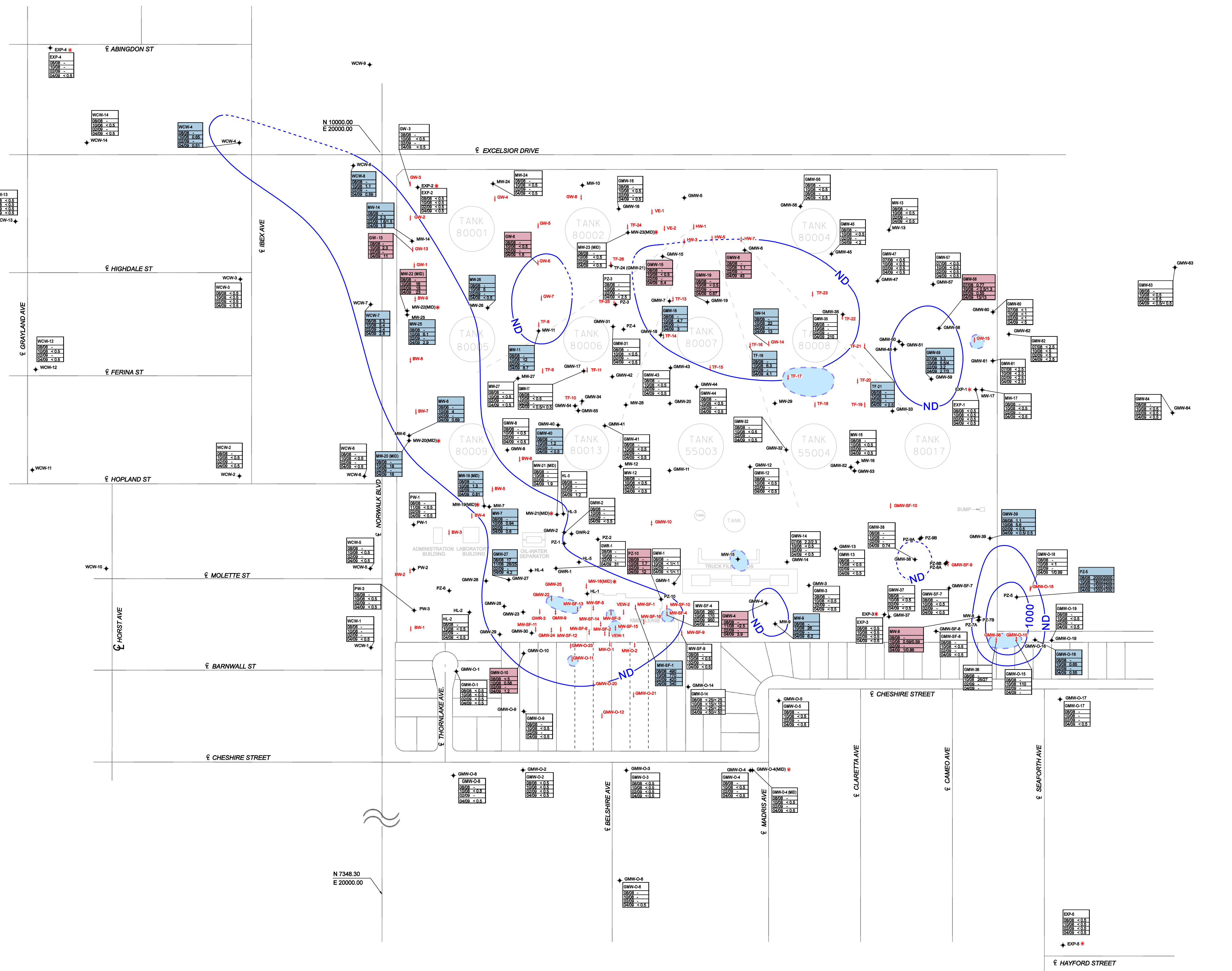
1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTE and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.

### 1,2-DICHLOROETHANE IN UPPERMOST GROUNDWATER ZONE APRIL 2009

DFSP NORWALK  
Norwalk, California

By: pah | Date: 07/24/09 | Project No: 1603.044



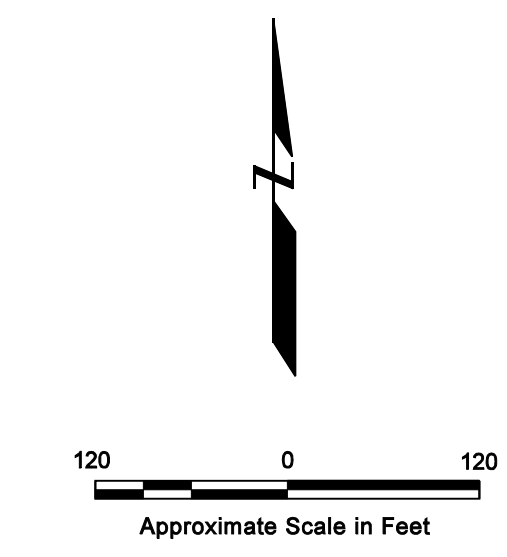


### Explanation

- GMW-5 ↗ Monitoring well and designation
- VE-1 ↓ Vapor extraction, groundwater extraction, total fluids, or free product extraction well used for site remediation
- |            |
|------------|
| GMW-64     |
| 0808 -     |
| 1108 < 0.5 |
| 0209 < 0.5 |
| 0409 < 0.5 |
- |            |
|------------|
| GMW-58     |
| 0708 3.7   |
| 1108 < 0.5 |
| 0209 < 0.5 |
| 0409 19.1  |
- |            |
|------------|
| GMW-59     |
| 0708 3.3   |
| 1108 3.94  |
| 0209 < 0.5 |
| 0409 2.76  |
- < 0.5 Not detected at or above laboratory reporting limit shown
- Not sampled/not analyzed
- < 0.5 / < 0.5 Primary sample analytical result / duplicate sample analytical result (µg/L)
- MW-22(MID) \* ↗ Wells screened in the Exposition aquifer or near the bottom of the uppermost aquifer are not used in contouring
- ND --- Estimated extent of detected dissolved MTBE in groundwater (concentration dependent on laboratory reporting limit); dashed where inferred
- 1000 --- Line of equal MTBE concentration (µg/L) in groundwater; dashed where inferred
- |            |
|------------|
| GMW-64     |
| 0808 -     |
| 1108 < 0.5 |
| 0209 < 0.5 |
| 0409 < 0.5 |

### Survey Notes:

1. Base map prepared from data provided by Fluor Daniel GTI, Dulin & Boynton, Geomatrix, and Parsons.
2. Except as noted below, well locations surveyed by Dulin & Boynton.
3. Locations of wells HL-1, HL-3, and HL-4 based on field measurements by Fluor Daniel GTE and Woodward-Clyde.
4. Locations of wells BW-1 through BW-9 surveyed by Geomatrix based on reference to other wells surveyed by Dulin & Boynton.



**METHYL TERT-BUTYL ETHER IN  
UPPERMOST GROUNDWATER ZONE  
APRIL 2009**

**DFSP NORWALK  
Norwalk, California**

By: pah      Date: 07/24/09      Project No: 1603.044





## APPENDIX A

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Well Purging and Sampling Records

February 2009 Sentry Event