

# **DFSP NORWALK**

**Facilities Planning, Construction and Management  
Defense Logistics Agency - Energy Update**

**August 27, 2015**

# Status of Remediation System

## Status of Remediation System

- **Groundwater Remediation: Treated 73 Million Gallons since April 1996 (182,000 gallons in fourth quarter of 2014)**
- **SVE System: Recovered 2.9 million pounds since April (10 lbs in fourth quarter of 2014)**
- **SVE System is Currently Operating – with Majority of Vapors Drawn From Treatment Cells**
- **LNAPL Recovery: 934 gallons for the year of 2014 (146 for fourth quarter of 2014)**

# Soil Remediation – Site Wide

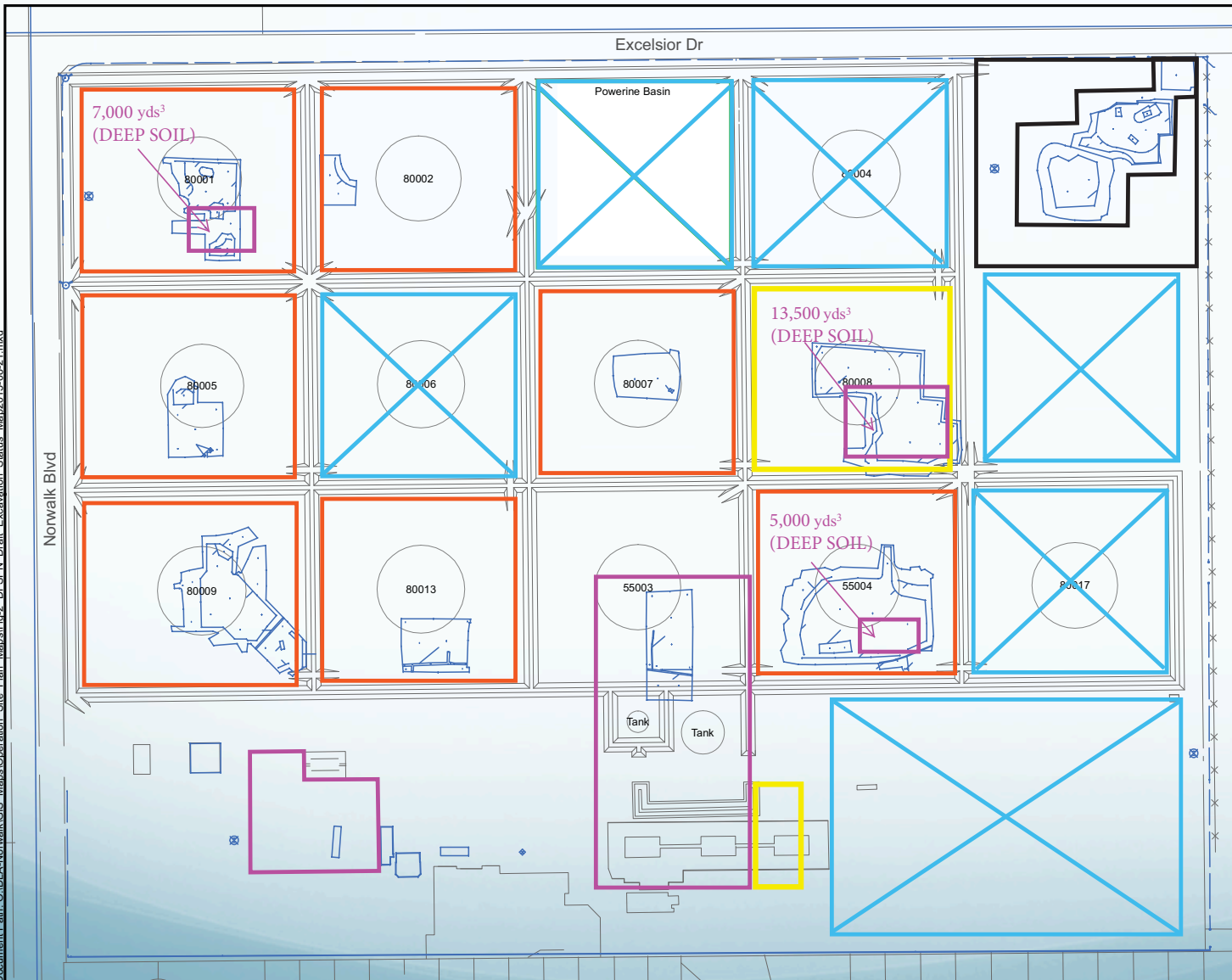
## Soil Remediation:

- **Soil Remediation Accomplished by Excavation and On-site Bio-remediation**
- **All Soil Between 0 to 10 feet with *Contamination Above Cleanup Goals* to be Excavated and Treated:**
  - **Over 90% of the Targeted Shallow Soil Excavated from the Future Park Area**
  - **Over 50% of the Targeted Shallow Soil Excavated Site-wide**
- **Deeper Soil (> 10 feet) with Highest Concentrations of Contamination (affecting groundwater) to be Removed and Treated**

# Soil Remediation – Site Wide

## Soil Remediation Project Progress:

- ✦ **Approximately 40,000 yds<sup>3</sup> of Soil Excavated**
- ✦ **Approximately 19,000 yds<sup>3</sup> of Contaminated Soil Excavated and Placed into Treatment:**
  - ✦ **3,500 yds<sup>3</sup> Treated and OK'd For Backfill**
  - ✦ **15,500 yds<sup>3</sup> Currently Being Treated; 50% Nearly Ready for Re-use**
  - ✦ **Approximately 1,000 yds<sup>3</sup> Added Each Day**
- ✦ **Contaminated Soil from the Northeast Portion of Site has been Removed and the Excavation Backfilled with Clean Soil**
- ✦ **Smaller Excavations on the West Allowed Construction of Treatment Cells**
- ✦ **Focusing on Future Park Land**



**Legend**

- Clean Area, Initially No 0-10 Feet TPH
- Majority of Contaminated Soil Removed from 0 to 10 Feet; Closure Pending
- Area Remaining to be Removed
- Soil Removal in Progress
- Remediation Complete and Backfilled

**NOTE:**

ESTIMATED VOLUME (IN CUBIC YARDS) DOES NOT INCLUDE OVERBURDEN

**DFSP Norwalk**  
15306 Norwalk Boulevard  
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	8/25/2015	PW/AC	PP/NI

0      70      140      280  
Feet

**DRAFT EXCAVATION STATUS MAP  
(AUGUST 2015)**

**SGI** environmental  
**THE SOURCE GROUP, Inc.**  
1962 Freeman Avenue  
Signal Hill, CA 90755  
(562) 597-1055

**Figure**  
**1**



# Typical Excavation



## View of Soil Movement and Stockpiles





## The Earth Cleaning Machine (ECM)





# Soil Treatment Cells





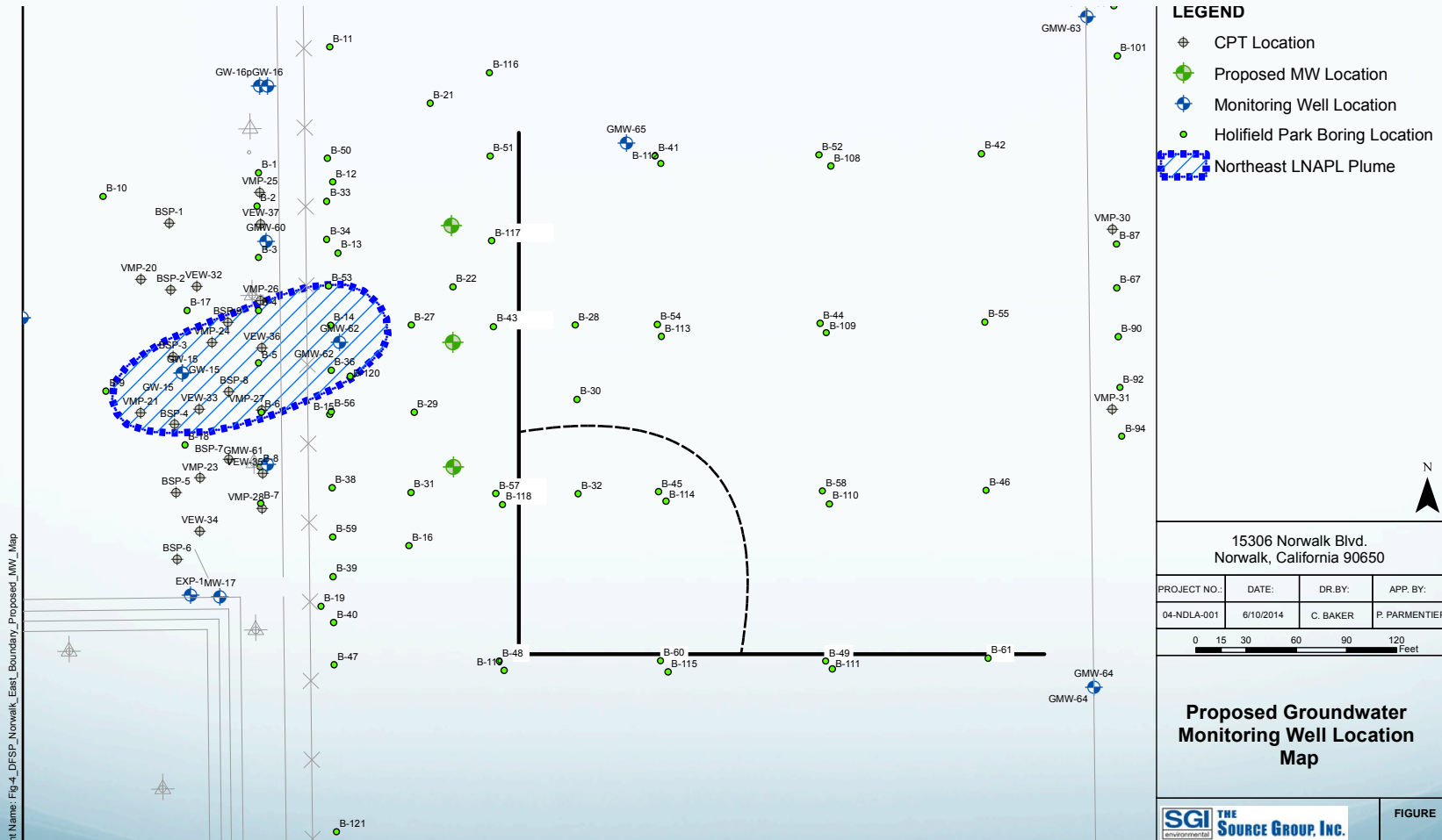
## Backfilling – Northeast Corner



# Assessment at GMW-62

- ✦ **Evaluated Occurrence of Free Product**
  - **Three Wells Installed on Holifield Park**
  - **Measured physical parameters of pore fluid saturation and free product mobility**
  - **No Free Product Found in Any New Well**
  - **Free Product is Removed from GMW-62; Current Thickness of 0.02 Feet**
  - **Currently Preparing Approach for Removal of Free Product and Dissolved Hydrocarbons at GMW-62 and Holifield Park**

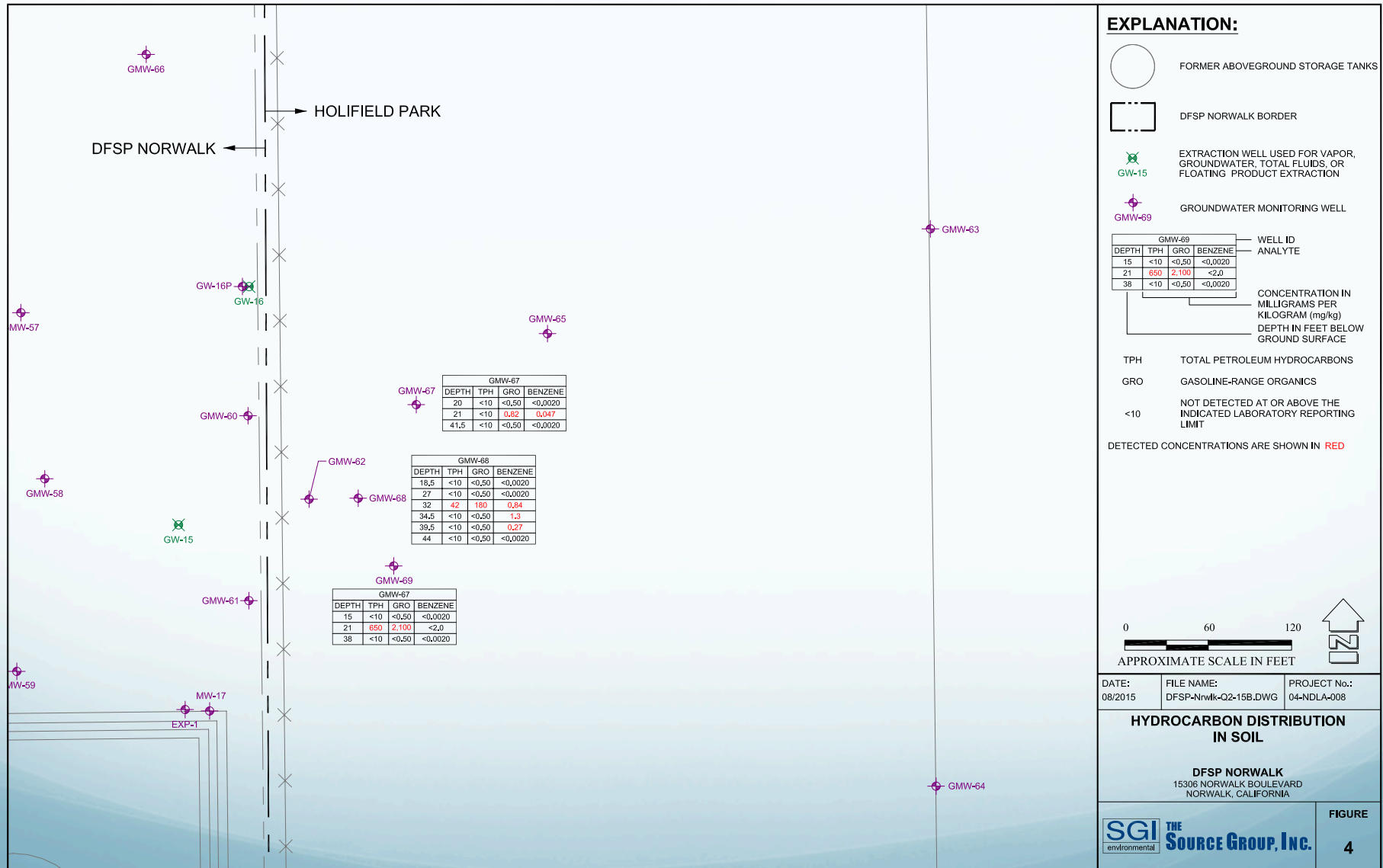
# Work Plan for Assessment at GMW-62



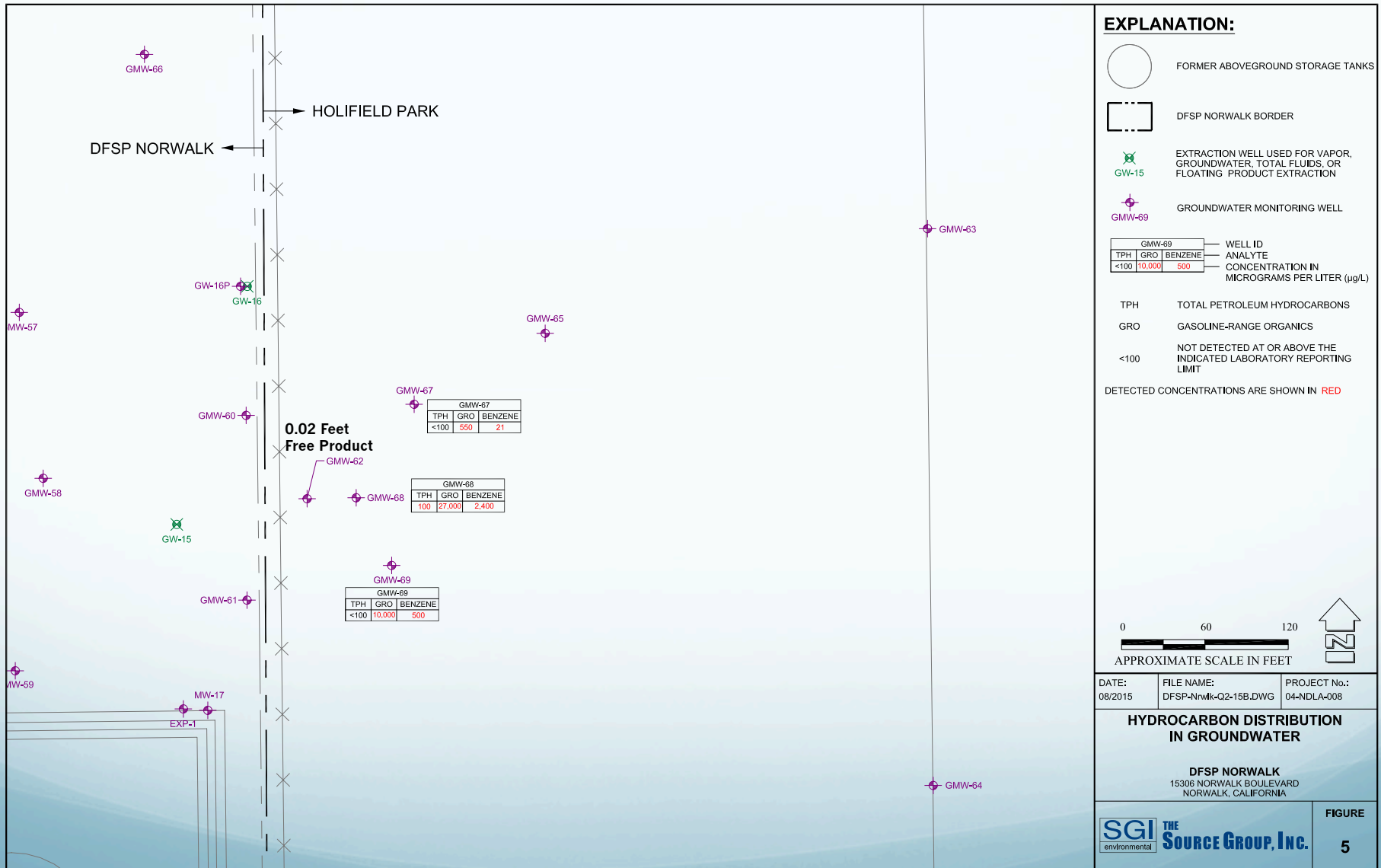
nt Name: Fig\_4\_DFSP\_Norwalk\_East\_Boundary\_Proposed\_MW\_Map



# Assessment at GMW-62



# Assessment at GMW-62



# Soil Gas Survey

- ✦ **Completed February 2015**
- ✦ **Used Sampling Points Previously Identified in the Northern Portion of the Site**
- ✦ **Results Consistent with Previous Studies:**
  - ✦ **Low Concentrations of Petroleum Constituents**
  - ✦ **Sporadic, Low Concentrations of tetrachloroethylene (PCE) in Northern Points Near Excelsior & Norwalk Blvd**

# Soil Gas Survey



Document Path: C:\GIS\_Mapping\DLA-Norwalk\GIS\_Maps\Sample\_Location\_Maps\Fig-2\_Soil\_Gas\_Sample\_Locations\_PCE\_Results.mxd



# DLA Update

 **Questions and Discussion**