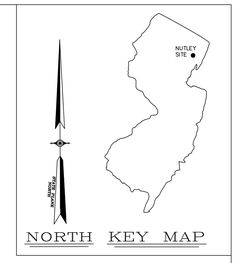
# JUNE 2015
# HYDROSTRATIGRAPHIC
# ZONE D3: 250 - 400 ft BMSL




## MONITORING WELLS SHOWN ON THIS FIGURE

| Well Designation | Hydrogeologic Zone | Investigation Area (IA) |
|---|---|---|
| DW-9D | D3 | IA-03 |
| DW-41C | D3 | IA-03 |
| DW-12C | D3 | IA-04 |
| DW-21D | D3 | IA-04 |
| DW-44C | D3 | IA-06 |
| DW-6D | D3 | IA-07 |
| DW-38C | D3 | IA-07 |
| DW-13D | D3 | IA-10 |
| DW-14C | D3 | IA-10 |
| DW-15C | D3 | IA-10 |
| DW-16C | D3 | IA-10 |
| DW-27C | D3 | IA-10 |
| DW-33C | D3 | IA-10 |
| DW-40C | D3 | IA-10 |
| CH-17 Port 10 | D3 | IA-11 |
| CH-17 Port 11 | D3 | IA-11 |
| CH-17 Port 12 | D3 | IA-11 |
| DW-2D | D3 | IA-12 |
| DW-8D | D3 | IA-12 |
| DW-29C | D3 | IA-12 |
| DW-31C | D3 | IA-12 |
| DW-39C | D3 | IA-13 |
| DW-25C | D3 | IA-15 |
| DW-1D | D3 | Off-Site |
| DW-4D | D3 | Off-Site |
| DW-7D | D3 | Off-Site |
| DW-11D | D3 | Off-Site |
| DW-18D | D3 | Off-Site |

## LEGEND

- ALUMINUM GUIDE RAIL
- HAND RAIL
- ESTATE FENCE
- ESTATE SECURITY GATE
- CHAIN LINK FENCE
- CHAIN LINK SECURITY GATE
- RETAINING WALL
- PROPERTY LINE
- TOWN/COUNTY LINE
- TAX LOT LINE
- SECURITY POST
- TRAILER
- TANK(S)
- PIPE RACK(S)
- UNDERGROUND UTILITY TUNNEL

- ZONE D3 MONITORING WELL LOCATION (APPROXIMATE SCREENED 250'-400' BMSL)
- CH-17 MULTIPORT
- MUNICIPAL SEWERS
- MUNICIPAL VALLEY DRAIN (STORM SEWER)
- APPROXIMATE LOCATION OF FORMER MUNICIPAL SEWER LINE
- APPROXIMATE LOCATION OF FORMER MUNICIPAL VALLEY DRAIN
- APPROXIMATE LOCATION OF NUTLEY MUNICIPAL SEWER
- ROCHE PROCESS/WASTE LINE
- ROCHE WATER/ DRAIN LINE
- FORMER PRODUCTION WELL LOCATION (PW-37 CONVERTED TO MULTIPORT)
- WELL NOT SAMPLED JUNE 2015
- SAMPLE RESULTS DO NOT EXCEED NJDEP GWQS
- INSUFFICIENT DATA – INFERRED CONTAMINANT DISTRIBUTION
- DELINEATION COMPLIANCE LINE (DASHED WHERE INFERRED)

### ISOCONCENTRATION CONTOURS OF PCE AND BREAKDOWN PRODUCTS (TCE, C-DCE AND VC) >GWQS*

- TOTAL CONCENTRATION > 1 PPB
- TOTAL CONCENTRATION > 10 PPB
- TOTAL CONCENTRATION > 100 PPB

*SEE NOTE #2.

| ABBREVIATION | GWQS (ppb) | COMPOUND |
|---|---|---|
| PCE | 1 | Tetrachloroethene |
| TCE | 1 | Trichloroethene |
| c-DCE | 70 | cis-1,2 Dichloroethene |
| VC | 1 | Vinyl Chloride |
| 1,1-DCE | 1 | 1,1 - Dichloroethene |
| 1,1-DCA | 50 | 1,1 - Dichloroethane |
| Benz | 1 | Benzene |

- DEMOLISHED BUILDING
- EXISTING BUILDING

NOTES:
1. ONLY VOLATILE ORGANIC COMPOUNDS (VOCS) GREATER THAN THE NJDEP GROUND WATER QUALITY STANDARD (GWQS) ARE SHOWN IN BOXES. WELLS WITH SAMPLES THAT DO NOT EXCEED THE GWQS ARE MARKED "NE".
2. ONLY CVOCS DETECTED ABOVE NJDEP GWQS ARE INCLUDED IN ISOCONCENTRATION CONTOURS.
3. ALL WELLS WERE SAMPLED VIA PASSIVE DIFFUSION BAG (PDB) BETWEEN JUNE 3, 2015 AND JUNE 19, 2015.
4. TICs = TENTATIVELY IDENTIFIED COMPOUNDS.
5. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (PPB).
6. BMSL = BELOW MEAN SEA LEVEL.

ENGINEER IN RESPONSIBLE CHARGE OF THE WORK SHOWN ON THIS DRAWING

DATE: _____ SIGNATURE

PROFESSIONAL ENGINEER: ENG LIC. # 15

TRC ENVIRONMENTAL CORP.
41 SPRING STREET
NEW PROVIDENCE, NEW JERSEY 07974
908-988-1700

KEY PLAN
INDICATES AREA OF THIS DRAWING

GRAPHIC SCALE (FT)
150 0 75 150 300

| REV | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 1 | 12/15/15 | MG | SUBMITTED FOR SITE-WIDE GROUNDWATER PROGRESS REPORT (DECEMBER 2015) |
| 0 | 7/20/15 | MG | DRAFT ISSUED FOR REVIEW |

DESIGN SUPERVISOR
PROJECT ENGINEER

PROJECT TITLE: NUTLEY SITE REMEDIATION PROJECT

INITIATED: T. O'MEARA
DRAWN BY: M. GIAMBATTISTA
DATE DRAWN: 7-20-15
CHECKED BY: S. McCRAY
SUPERVISOR: A. GOELLER
PROJECT ENGINEER: G. CIERPIAL

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF HOFFMANN-LA ROCHE INC. AND IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED UNLESS AUTHORIZED BY ROCHE AND IS SUBJECT TO RETURN ON DEMAND.

DRAWING TITLE: FIGURE 32
VOCs IN GROUNDWATER >GWQS
JUNE 2015 - ZONE D3
PDB SAMPLING EVENT

SCALE: AS SHOWN
BLDG. NO.: -

PREPARED FOR: Roche — Hoffmann-La Roche Inc.
340 KINGSLAND STREET NUTLEY, NEW JERSEY 07110-1199

DRAWING NO.: NR-STE-S29215-C2116 1

FILE:\\MILLBURN-FP2\DraftingFiles\Cad Files\Vision projects\105009\Site Wide Ground Water RIR\REPORT FIGURES\Q2 2015\VOC Maps\Q2 2015 Zone D3 CVOC Plumes, DATE:12/15/2015 1:25:28 PM