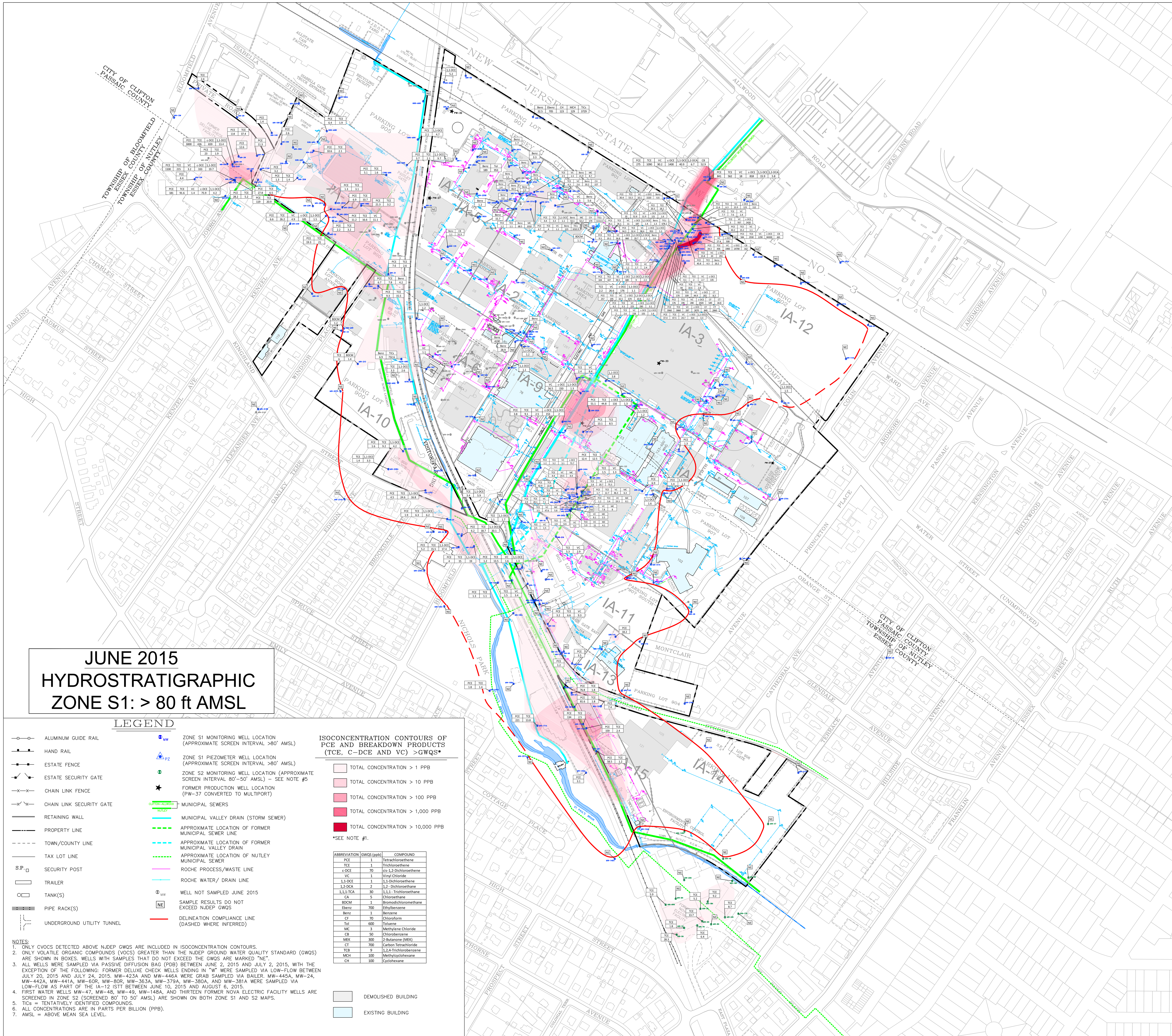

JUNE 2015 HYDROSTRATIGRAPHIC ZONE S1: > 80 ft AMSL

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
- S.P. SECURITY POST
- TRAILER
- TANK(S)
- PIPE RACK(S)
- UNDERGROUND UTILITY TUNNEL
- MW — ZONE S1 MONITORING WELL LOCATION (APPROXIMATE SCREEN INTERVAL >80' AMSL)
- PZ — ZONE S1 PIEZOMETER WELL LOCATION (APPROXIMATE SCREEN INTERVAL >80' AMSL)
- ZONE S2 MONITORING WELL LOCATION (APPROXIMATE SCREEN INTERVAL 80'–50' AMSL) – SEE NOTE #5
- ★ FORMER PRODUCTION WELL LOCATION (PW–37 CONVERTED TO MULTIPORT)
- CLIFTON–ALLWOOD / NUTLEY — 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
- MW — WELL NOT SAMPLED JUNE 2015
- NE — SAMPLE RESULTS DO NOT EXCEED NJDEP GWQS
- 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
- TOTAL CONCENTRATION > 1,000 PPB
- TOTAL CONCENTRATION > 10,000 PPB

*SEE NOTE #1.

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
1,2-DCA	2	1,2 - Dichloroethane
1,1,1-TCA	30	1,1,1 - Trichloroethane
CA	5	Chloroethane
BDCM	1	Bromodichloromethane
Ebenz	700	Ethylbenzene
Benz	1	Benzene
CF	70	Chloroform
Tol	600	Toluene
MC	3	Methylene Chloride
CB	50	Chlorobenzene
MEK	300	2-Butanone (MEK)
CT	700	Carbon Tetrachloride
TCB	9	1,2,4-Trichlorobenzene
MCH	100	Methylcyclohexane
CH	100	Cyclohexane

- DEMOLISHED BUILDING
- EXISTING BUILDING

NOTES:
1. ONLY CVOCS DETECTED ABOVE NJDEP GWQS ARE INCLUDED IN ISOCONCENTRATION CONTOURS.
2. 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".
3. ALL WELLS WERE SAMPLED VIA PASSIVE DIFFUSION BAG (PDB) BETWEEN JUNE 2, 2015 AND JULY 2, 2015, WITH THE EXCEPTION OF THE FOLLOWING: FORMER DELUXE CHECK WELLS ENDING IN "W" WERE SAMPLED VIA LOW–FLOW BETWEEN JULY 20, 2015 AND JULY 24, 2015. MW–423A AND MW–446A WERE GRAB SAMPLED VIA BAILER. MW–445A, MW–24, MW–442A, MW–441A, MW–60R, MW–80R, MW–363A, MW–379A, MW–380A, AND MW–381A WERE SAMPLED VIA LOW–FLOW AS PART OF THE IA–12 ISTT BETWEEN JUNE 10, 2015 AND AUGUST 6, 2015.
4. FIRST WATER WELLS MW–47, MW–48, MW–49, MW–148A, AND THIRTEEN FORMER NOVA ELECTRIC FACILITY WELLS ARE SCREENED IN ZONE S2 (SCREENED 80' TO 50' AMSL) ARE SHOWN ON BOTH ZONE S1 AND S2 MAPS.
5. TICs = TENTATIVELY IDENTIFIED COMPOUNDS.
6. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (PPB).
7. AMSL = ABOVE MEAN SEA LEVEL.

NORTH KEY MAP

NUTLEY SITE

MONITORING WELLS SHOWN ON THIS FIGURE

Well Designation	Hydrogeologic Zone	Investigation Area (IA)	Well Designation	Hydrogeologic Zone	Investigation Area (IA)
MW-1	S1	IA-01	187RI-MW3	S1	IA-10
MW-4A	S1	IA-01	190RI-MW1	S1	IA-10
MW-16	S1	IA-01	190RI-MW2	S1	IA-10
MW-135	S1	IA-01	MW-15W	S1	IA-10
MW-136	S1	IA-01	MW-17AW	S1	IA-10
MW-254B	S1	IA-01	MW-22W	S1	IA-10
MW-255B	S1	IA-01	MW-23W	S1	IA-10
MW-256A	S1	IA-01	MW-27	S1	IA-10
MW-256B	S1	IA-01	MW-28	S1	IA-10
MW-356A	S1	IA-01	MW-30	S1	IA-10
MW-357A	S1	IA-01	MW-31	S1	IA-10
MW-357-SBR	S1	IA-01	MW-32	S1	IA-10
MW-368A	S1	IA-01	MW-43	S1	IA-10
MW-369A	S1	IA-01	MW-44	S1	IA-10
MW-369-SBR	S1	IA-01	MW-45	S1	IA-10
MW-370A	S1	IA-01	MW-126	S1	IA-10
MW-372A	S1	IA-01	MW-205	S1	IA-10
MW-384A	S1	IA-01	MW-207A	S1	IA-10
MW-385A	S1	IA-01	MW-208A	S1	IA-10
MW-386A	S1	IA-01	MW-210	S1	IA-10
MW-387A	S1	IA-01	MW-229A	S1	IA-10
MW-388A	S1	IA-01	MW-259A	S1	IA-10
MW-389A	S1	IA-01	MW-274A	S1	IA-10
MW-390A	S1	IA-01	MW-275A	S1	IA-10
MW-391A	S1	IA-01	MW-280A	S1	IA-10
MW-392A	S1	IA-01	MW-281A	S1	IA-10
MW-393A	S1	IA-01	MW-283A	S1	IA-10
MW-416A	S1	IA-01	MW-284A	S1	IA-10
ART-MW-2AR	S1	IA-02	MW-285A	S1	IA-10
ART-MW-3AR	S1	IA-02	MW-286A	S1	IA-10
ART-MW-4AR	S1	IA-02	MW-287A	S1	IA-10
ART-MW-5BR	S1	IA-02	MW-446A	S1	IA-10
MW-13AR	S1	IA-02	PZ-02	S1	IA-10
MW-186AR	S1	IA-02	PZ-03	S1	IA-10
MW-137	S1	IA-02	MW-8A	S1	IA-11
MW-226A	S1	IA-02	MW-18	S1	IA-11
MW-243A	S1	IA-02	MW-25	S1	IA-11
MW-309A	S1	IA-02	MW-33	S1	IA-11
MW-310A	S1	IA-02	MW-33A	S1	IA-11
MW-10	S1	IA-03	MW-33B	S1	IA-11
MW-12	S1	IA-03	MW-62	S1	IA-11
MW-34	S1	IA-03	MW-64	S1	IA-11
MW-35	S1	IA-03	MW-65	S1	IA-11
MW-37	S1	IA-03	MW-66	S1	IA-11
MW-38	S1	IA-03	MW-67	S1	IA-11
MW-39A	S1	IA-03	MW-68	S1	IA-11
MW-150	S1	IA-03	MW-69	S1	IA-11
MW-187	S1	IA-03	MW-72	S1	IA-11
MW-188	S1	IA-03	MW-99	S1	IA-11
MW-189A	S1	IA-03	MW-100	S1	IA-11
MW-190A	S1	IA-03	MW-101	S1	IA-11
MW-191A	S1	IA-03	MW-102	S1	IA-11
MW-239	S1	IA-03	MW-138	S1	IA-11
PZ-04	S1	IA-03	MW-172	S1	IA-11
SVE-1	S1	IA-03	MW-219	S1	IA-11
SVE-2	S1	IA-03	MW-227A	S1	IA-11
SVE-3	S1	IA-03	MW-242	S1	IA-11
MW-2	S1	IA-04	MW-366A	S1	IA-11
MW-20	S1	IA-04	MW-24	S1	IA-12
MW-39-1	S1	IA-04	MW-58	S1	IA-12
MW-39-2A	S1	IA-04	MW-59	S1	IA-12
MW-174	S1	IA-04	MW-60R	S1	IA-12
MW-175	S1	IA-04	MW-60A	S1	IA-12
MW-177	S1	IA-04	MW-60B	S1	IA-12
MW-178	S1	IA-04	MW-60C	S1	IA-12
MW-179	S1	IA-04	MW-60E	S1	IA-12
MW-180	S1	IA-04	MW-60F	S1	IA-12
MW-182	S1	IA-04	MW-60G	S1	IA-12
MW-183	S1	IA-04	MW-60M	S1	IA-12
MW-184	S1	IA-04	MW-60N	S1	IA-12
MW-185	S1	IA-04	MW-61	S1	IA-12
MW-200	S1	IA-04	MW-80A	S1	IA-12
MW-235	S1	IA-04	MW-80BR	S1	IA-12
MW-354A	S1	IA-04	MW-80C	S1	IA-12
MW-355A	S1	IA-04	MW-114A	S1	IA-12
MW-371A	S1	IA-04	MW-232B	S1	IA-12
MW-426A	S1	IA-04	MW-237A	S1	IA-12
MW-427A	S1	IA-04	MW-266A	S1	IA-12
MW-428A	S1	IA-04	MW-271A	S1	IA-12
MW-5	S1	IA-06	MW-272A	S1	IA-12
MW-6A	S1	IA-06	MW-294A	S1	IA-12
MW-52	S1	IA-06	MW-295A	S1	IA-12
MW-94	S1	IA-06	MW-296A	S1	IA-12
MW-158	S1	IA-06	MW-358A	S1	IA-12
MW-159	S1	IA-06	MW-359A	S1	IA-12
MW-160	S1	IA-06	MW-360A	S1	IA-12
MW-161	S1	IA-06	MW-361A	S1	IA-12
MW-162	S1	IA-06	MW-362A	S1	IA-12
MW-163	S1	IA-06	MW-363A	S1	IA-12
MW-317A	S1	IA-06	MW-364A	S1	IA-12
MW-318A	S1	IA-06	MW-365A	S1	IA-12
MW-322A	S1	IA-06	MW-375A	S1	IA-12
MW-346A	S1	IA-06	MW-379A	S1	IA-12
MW-395A	S1	IA-06	MW-380A	S1	IA-12
MW-396A	S1	IA-06	MW-381A	S1	IA-12
MW-397A	S1	IA-06	MW-383A	S1	IA-12
MW-398A	S1	IA-06	MW-441A	S1	IA-12
MW-423A	S1	IA-06	MW-442A	S1	IA-12
MW-9A	S1	IA-07	MW-445A	S1	IA-12
MW-15A	S1	IA-07	MW-141	S1	IA-13
MW-19A	S1	IA-07	MW-142	S1	IA-13
MW-36	S1	IA-07	MW-143	S1	IA-13
MW-42	S1	IA-07	MW-173	S1	IA-13
MW-46	S1	IA-07	MW-276A	S1	IA-13
MW-125	S1	IA-07	MW-131	S1	IA-14
MW-128	S1	IA-07	MW-148A	S2	IA-14
MW-139	S1	IA-07	MW-47	S2	IA-14
MW-192	S1	IA-07	MW-48	S2	IA-14
MW-193	S1	IA-07	MW-49	S2	IA-14
MW-194	S1	IA-07	MW-277A	S1	IA-14
MW-196	S1	IA-07	MW-57	S1	IA-15
MW-197	S1	IA-07	MW-111	S1	IA-15
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MW-199	S1	IA-07	MW-112A	S1	IA-15
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MW-248A	S1	IA-07	MW-130	S1	IA-15
MW-249A	S1	IA-07	MW-220	S1	IA-15
MW-253A	S1	IA-07	MW-367A	S1	IA-15
MW-269A	S1	IA-07	MW-60H	S1	Off-Site
MW-270A	S1	IA-07	MW-60I	S1	Off-Site
MW-288A	S1	IA-07	MW-60J	S1	Off-Site
MW-289A	S1	IA-07	MW-60K	S1	Off-Site
MW-290A	S1	IA-07	MW-60L	S1	Off-Site
MW-291A	S1	IA-07	MW-103A	S1	Off-Site
MW-292A	S1	IA-07	MW-104A	S1	Off-Site
MW-293A	S1	IA-07	MW-105A	S1	Off-Site
MW-373A	S1	IA-07	MW-106A	S1	Off-Site
MW-399S	S1	IA-07	MW-108A	S1	Off-Site
MW-399A	S1	IA-07	MW-109	S1	Off-Site
MW-400A	S1	IA-07	MW-144A	S1	Off-Site
MW-401S	S1	IA-07	MW-145A	S1	Off-Site
MW-401A	S1	IA-07	MW-146A	S1	Off-Site
MW-402S	S1	IA-07	MW-171A	S1	Off-Site
MW-402A	S1	IA-07	MW-201A	S1	Off-Site
MW-403S	S1	IA-07	MW-201	S1	Off-Site
MW-403A	S1	IA-07	MW-202	S1	Off-Site
MW-404A	S1	IA-07	MW-203	S1	Off-Site
MW-405A	S1	IA-07	MW-209A	S1	Off-Site
MW-406S	S1	IA-07	MW-213A	S1	Off-Site
MW-406A	S1	IA-07	MW-213B	S1	Off-Site
MW-407S	S1	IA-07	MW-214A	S1	Off-Site
MW-407A	S1	IA-07	MW-257A	S1	Off-Site
MW-408S	S1	IA-07	MW-353A	S1	Off-Site
MW-408A	S1	IA-07	DW-1B	S1	Off-Site
MW-409A	S1	IA-07	MW-267A	S1	Private Road
MW-410A	S1	IA-07	MW-1G	S1	KSS
MW-411A	S1	IA-07	MW-2G	S1	KSS
MW-412A	S1	IA-07	MW-3G	S1	KSS
MW-417A	S1	IA-07	MW-4G	S1	KSS
PZ-05	S1	IA-07	MW-5G	S1	KSS
MW-7A	S1	IA-09	MW-2W	S1	Deluxe Check
MW-7B	S1	IA-09	MW-3W	S1	Deluxe Check
MW-14A	S1	IA-09	MW-4W	S1	Deluxe Check
MW-17	S1	IA-09	MW-5AW	S1	Deluxe Check
MW-21	S1	IA-09	MW-6W	S1	Deluxe Check
MW-164	S1	IA-09	MW-8W	S1	Deluxe Check
MW-165	S1	IA-09	MW-10W	S1	Deluxe Check
MW-166	S1	IA-09	MW-11W	S1	Deluxe Check
MW-247A	S1	IA-09	MW-12W	S1	Deluxe Check
MW-323A	S1	IA-09	MW-13W	S1	Deluxe Check
22RI-MW1	S1	IA-10	MW-14W	S1	Deluxe Check
23RI-MW2	S1	IA-10	MW-18W	S1	Deluxe Check
26RI-MW1	S1	IA-10	MW-20W Port 1	S1	Deluxe Check
53RI-MW2	S1	IA-10	MW-21W	S1	Deluxe Check
53RI-MW3	S1	IA-10	MW-24W	S1	Deluxe Check
53RI-MW4	S1	IA-10	MW-25W	S1	Deluxe Check
66RI-MW2	S1	IA-10	MW-37W	S1	Deluxe Check
MW-35W	S1	IA-10	MW-38W	S1	Deluxe Check
MW-36W	S1	IA-10	MW-1N	S2	Nova Electric
66RI-MW3	S1	IA-10	MW-2N	S2	Nova Electric
66RI-MW4	S1	IA-10	MW-3N	S2	Nova Electric
66RI-MW5	S1	IA-10	MW-5N	S2	Nova Electric
66RI-MW8	S1	IA-10	MW-6RN	S2	Nova Electric
131RI-MW1	S1	IA-10	MW-7N	S2	Nova Electric
138RI-MW1	S1	IA-10	MW-8N	S2	Nova Electric
179RI-MW1	S1	IA-10	MW-9N	S2	Nova Electric
186RI-MW1	S1	IA-10	MW-12N	S2	Nova Electric
186RI-MW2	S1	IA-10	MW-17N	S2	Nova Electric
186RI-MW3	S1	IA-10	MW-18N	S2	Nova Electric
186RI-MW4	S1	IA-10	MW-19N	S2	Nova Electric
187RI-MW2	S1	IA-10	MW-20N	S2	Nova Electric

ENGINEER IN RESPONSIBLE CHARGE OF THE WORK SHOWN ON THIS DRAWING

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PROFESSIONAL ENGINEER: ENG
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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	7/14/15	MG	DRAFT ISSUED FOR REVIEW

DESIGN SUPERVISOR
PROJECT ENGINEER

PROJECT TITLE: NUTLEY SITE REMEDIATION PROJECT

INITIATOR: T. O'MEARA | DRAWN BY: M. GIAMBATTISTA | CHECKED BY: S. McCRAY | PROJECT ENGINEER: G. CIERPIAL
START DATE: 7–14–15 | SUPERVISOR: A. GOELLER

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DRAWING TITLE: FIGURE 27 VOCs IN GROUNDWATER >GWQS JUNE 2015 – ZONE S1 PDB SAMPLING EVENT

SCALE: AS SHOWN
BLDG. NO.: –

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

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