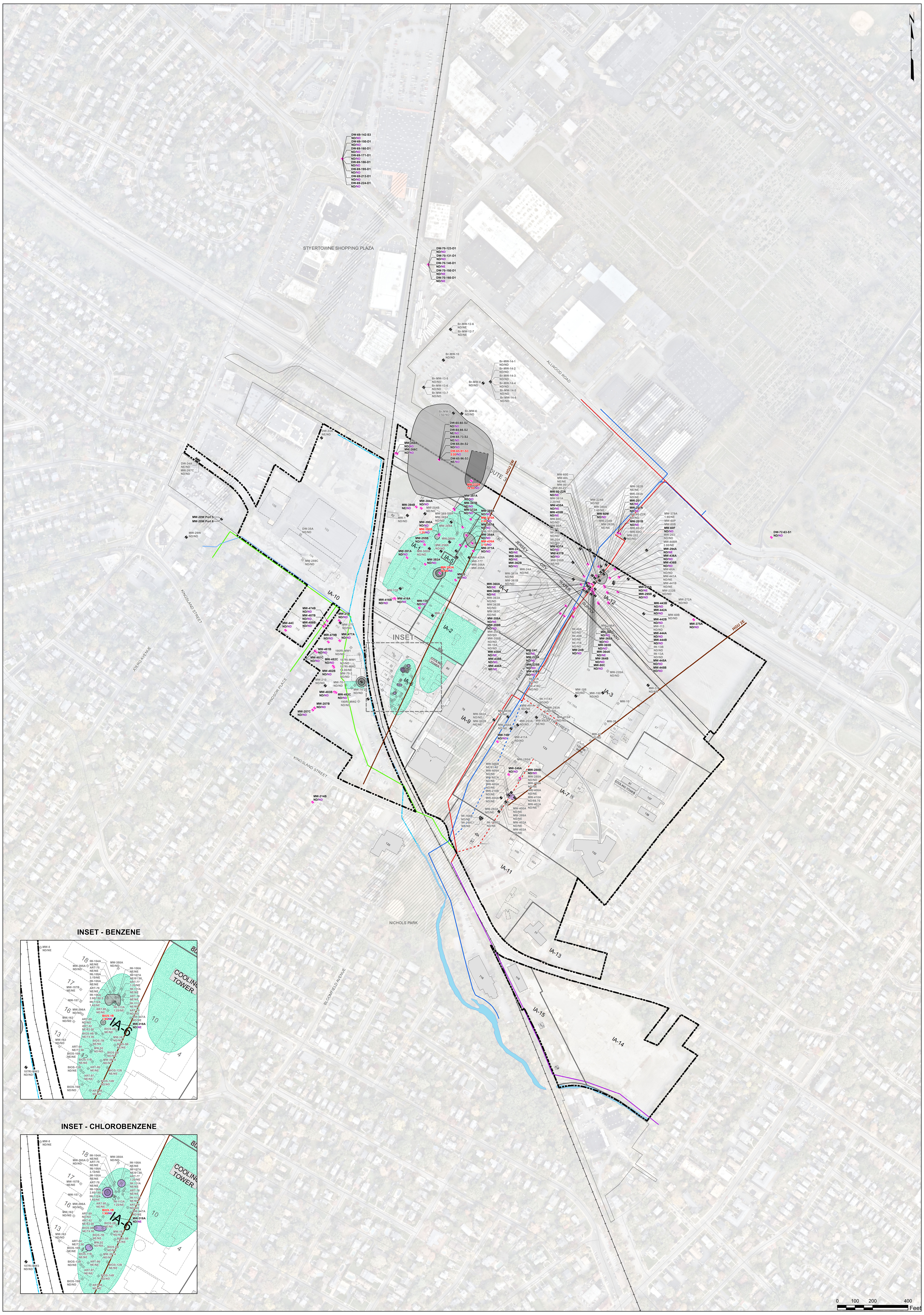

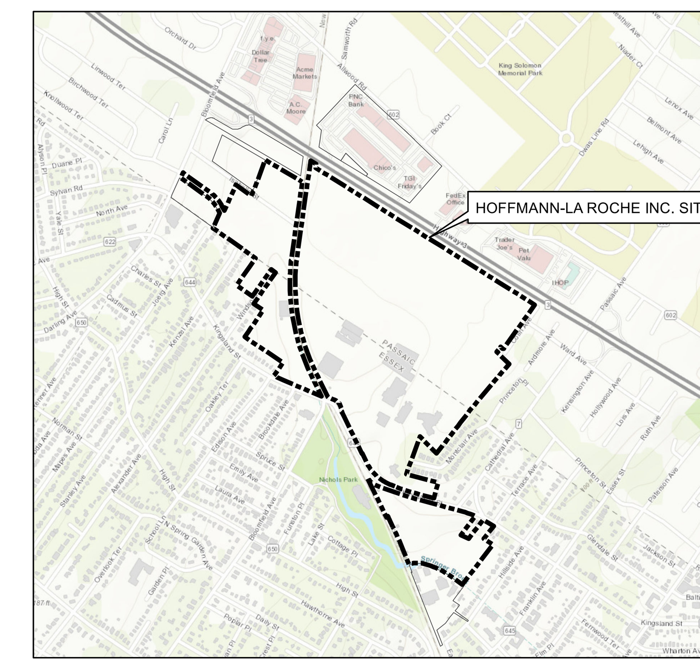

KEY MAP
SCALE: 1" = 1,000'

LEGEND

- HOFFMANN-LA ROCHE INC. SITE PROPERTY BOUNDARY
- INVESTIGATIVE AREAS
- OFF-SITE PROPERTY BOUNDARY
- DEMOLISHED BUILDING
- CURRENT BUILDING
- RAILROAD
- ROADWAY
- HGU SUBCROP BOUNDARY
- APPROXIMATE FAULT ZONE
- APPROXIMATE EXTENT OF IRM TREATMENT AREA(S)
- ST. PAUL'S BROOK
- SPRINGER BROOK (CULVERT)
- ST. PAUL'S BROOK (CULVERT)
- VALLEY DRAIN
- FORMER VALLEY DRAIN
- CLIFTON-ALLWOOD MUNICIPAL SEWER
- FORMER CLIFTON-ALLWOOD MUNICIPAL SEWER
- NUTLEY MUNICIPAL SEWER
- TRUNK SEWER

HGU 2 WELL LOCATIONS

- MW-207B ND/ND — WELL SAMPLED 3Q 2018 SEMI-ANNUAL & IRM PROGRAMS
- MW-272A ND/ND — WELL SAMPLED DURING PREVIOUS SAMPLING EVENTS - 1Q 2015 THROUGH 2Q 2018 (DATA USED FOR CONTOURING)
- MW-20W Port 5 — WELL SAMPLED PRIOR TO 1Q 2015 (DATA NOT SHOWN)
- MW-407 ND/NE — DECOMMISSIONED WELL THROUGH 3Q 2018

BENZENE ISOCONCENTRATION CONTOURS

- >1 AND ≤10 PPB
- >10 AND ≤100 PPB

CHLOROBENZENE ISOCONCENTRATION CONTOURS

- >50 AND ≤100 PPB
- >100 AND ≤1,000 PPB

BENZENE/CHLOROBENZENE DATA PRESENTATION

- MW-390B 1.20/ND — Well ID and benzene concentration above the GWQS are shown in red. Chloroenzene concentrations are shown in purple.
- MW-445B ND/ND — Well ID and benzene concentration at or below the GWQS are shown in black. Chloroenzene concentrations are shown in purple.
- MW-232B ND/ND — The most recent historical data were used for some wells not sampled during the current reporting period to interpolate benzene/chlorobenzene contours. Well ID and benzene/chlorobenzene concentration are shown in gray.

GROUNDWATER QUALITY STANDARD TABLE

ABBREVIATION	GWQS (ppb)	COMPOUND
1,2-DCA	2	1,2-Dichloroethane
BENZ	1	Benzene
BDCM	1	Bromodichloromethane
BF	4	Bromoform
BM	10	Bromomethane
CB	50	Chlorobenzene
CE	5	Chloroethane
CF	70	Chloroform
CM	100	Chloromethane
CT	1	Carbon tetrachloride
DBCM	1	Dibromochloromethane
MTBE	70	Methyl Tert Butyl Ether (MTBE)
MEK	300	2-Butanone (MEK)
TICs	500	Total VOC TICs

NOTES

1. HGU = HYDROGEOLOGIC UNIT.
2. REFER TO REPORT TABLE 2 FOR WELL GRID LOCATIONS.
3. THIS FIGURE DEPICTS THE BENZENE (BENZ) AND CHLOROBENZENE (CB) GROUNDWATER QUALITY DATA WITHIN HGU 2.
4. HGUs DIP TO THE NORTHWEST AND THEREFORE HGUs 1, 2, 3, AND 4 ARE NOT UNIFORMLY PRESENT BENEATH THE ENTIRE SITE AS THEY SUBCROP (i.e., INTERSECT THE BEDROCK SURFACE) FROM EAST TO WEST ACROSS THE SITE. HGU SUBCROP BOUNDARIES FOR HGUs 1, 2, 3, AND 4 ARE SHOWN AND THE RESPECTIVE HGUs ARE NOT PRESENT EAST OF THESE LINES.
5. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (PPB).
6. THE DATA SUMMARIZED ON THIS FIGURE INCLUDE THE SITE-WIDE SEMI-ANNUAL SAMPLING EVENT CONDUCTED IN 3Q 2018 AND INTERIM REMEDIAL MEASURES (IRM) PERFORMANCE MONITORING DATA COLLECTED IN 2Q18 AND 3Q18.
7. THE CURRENT EXTENT OF THE BENZENE (BENZ) AND CHLOROBENZENE (CB) PLUMES ARE SHOWN ON THIS FIGURE AND THE ISOCONCENTRATION CONTOURS ARE DASHED WHERE INFERRED.
8. THE DATA TABLE SHOWS ALL GROUNDWATER CONTAMINANT EXCEEDANCES OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) GROUND WATER QUALITY STANDARDS (GWQS) FOR "OTHER VOCs" (EXCLUDES PCE+, TCA+, AND 1,4-DIOXANE COMPOUNDS).
9. WELLS WITH SAMPLES THAT DO NOT EXCEED THE GWQS ARE MARKED "NE". WELLS WITH SAMPLES THAT HAVE NO DETECTIONS ARE MARKED "ND".
10. THE MOST RECENT HISTORICAL DATA WERE USED FOR WELLS THAT WERE NOT SAMPLED DURING THE CURRENT REPORTING PERIOD TO INTERPOLATE BENZ AND CB CONTOURS.
11. DURING THE 3Q 2018 SAMPLING EVENT, ALL WELLS WERE SAMPLED VIA PASSIVE DIFFUSION BAG (PDB) FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BETWEEN SEPTEMBER 24, 2018 AND SEPTEMBER 28, 2018 DURING IRM PERFORMANCE MONITORING EVENTS WELLS WERE SAMPLED VIA LOW-FLOW FOR VOCs BETWEEN AUGUST 2, 2018 AND OCTOBER 30, 2018. WESTBAY PORT SAMPLING (DW-65, DW-69, DW-70, AND DW-72) FOR VOCs WAS CONDUCTED BETWEEN SEPTEMBER 6, 2018 AND SEPTEMBER 11, 2018
12. IN SOME CASES, ADJACENT WELLS SCREENED AT DIFFERENT DEPTH INTERVALS HAVE CONCENTRATIONS THAT DIFFER BY MORE THAN AN ORDER OF MAGNITUDE. IN THESE CASES, THE WELL WITH THE HIGHEST CONCENTRATION WAS USED FOR CONTOURING PURPOSES.
13. GROUNDWATER QUALITY DATA OF OFF-SITE WELLS ON THE BRIAD PROPERTY (NORTH OF ROUTE 3), COLLECTED IN FEBRUARY 2016 AND BETWEEN APRIL 5 AND 9, 2018, WERE USED FOR CONTOURING THE EXTENT OF BENZ AND/OR CB IN THIS AREA. REFER TO RANSOM RIR APRIL 2017 AND RANSOM RAR ADDENDUM JUNE 2018.
14. DELUXE WELLS LOCATED ON-SITE AND OFF-SITE WERE LAST SAMPLED BY ROCHE IN 2015 OR 2016.
15. GROUNDWATER IRM PROGRAMS TARGETING ON-SITE BENZ AND/OR CB CONSTITUENTS WERE INITIATED IN IA-1/IA-4 AND IA-6 IN 2Q 2016 AND IN IA-10 B70 IN 1Q 2015. ALL GROUNDWATER IRMs HAVE BEEN COMPLETED.
16. PRE-IRM GROUNDWATER QUALITY DATA FOR BENZ AND CB ARE EXCLUDED FROM THE PRESENT DEPICTION OF BENZ AND CB IMPACTS IN THE FOLLOWING WELLS: MW-135, MW-137, MW-177, MW-355A, MW-356A, MW-357-SBR, MW-368A, MW-369-SBR, MW-389A, AND MW-428A.
17. TICs = TENTATIVELY IDENTIFIED COMPOUNDS.
18. SELECT WELLS SAMPLED DURING THE 3Q 2018 SAMPLING EVENT AND THE IRM PERFORMANCE MONITORING EVENTS WERE DECOMMISSIONED SUBSEQUENT TO SAMPLING.
19. SURVEYED PHYSICAL FEATURES MAY NOT ALIGN WITH AERIAL PHOTOGRAPHY DUE TO THE OBLIQUENESS OF THE AERIAL PHOTOGRAPH RELATIVE TO VERTICAL.

DATA FROM CURRENT REPORTING PERIOD - 3Q 2018

Well ID	Sample Date	BENZ	CB	1,2-DCA	BDCM	BF	CE	CF	CT	DBCM	MTBE	TICS	Other VOCs
BIOS-1B	9/17/2018	1.9	NE	ND	ND	ND	ND	ND	ND	ND	NE	837	NE
DW-65-60-S2	9/6/2018	ND	ND	NE	ND	ND	ND	ND	ND	ND	NE	646.2	NE
DW-65-66-S2	9/6/2018	NE	ND	ND	ND	ND	5.1	ND	ND	ND	200	NE	NE
DW-65-73-S2	9/6/2018	NE	ND	2.5	ND	ND	ND	ND	ND	ND	200	NE	NE
DW-65-84-S2	9/6/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	NE	ND	ND
DW-65-91-S3	9/6/2018	5	ND	NE	ND	ND	7.8	NE	ND	ND	310	NE	NE
DW-65-96-S3	9/6/2018	NE	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-142-S3	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-150-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-160-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-171-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-186-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-195-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-213-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-69-224-D1	9/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-70-123-D1	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-70-131-D1	9/11/2018	ND	ND	NE	ND	ND	ND	ND	ND	ND	NE	ND	NE
DW-70-140-D1	9/11/2018	ND	NE	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
DW-70-150-D1	9/11/2018	ND	NE	NE	ND	ND	ND	NE	ND	ND	NE	ND	NE
DW-70-160-D1	9/11/2018	ND	NE	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
DW-72-63-S1	9/7/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-2	10/22/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-15B	9/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-24	10/23/2018	ND	NE	NE	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-24B	10/23/2018	ND	ND	ND	ND	ND	ND	NE	1.1	ND	NE	ND	NE
MW-24C	10/26/2018	ND	NE	NE	1.1	NE	ND	NE	8.8	1.9	ND	NE	NE
MW-27B	9/25/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-44C	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-60F	10/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-60M	10/24/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-80C	10/23/2018	ND	ND	ND	5.2	ND	ND	130	1400	8.2	ND	ND	NE
MW-80-Z2R	10/24/2018	ND	NE	NE	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-136	10/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-201	9/25/2018	NE	NE	2.1	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-201A	9/25/2018	ND	NE	2.5	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-201B	9/25/2018	ND	NE	4.4	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-207B	9/27/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-207C	9/27/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-214B	9/26/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-225A	10/25/2018	ND	NE	ND	1.1	NE	ND	NE	13	1.2	ND	ND	NE
MW-225B	10/25/2018	ND	ND	ND	1.3	NE	ND	NE	25	1.9	ND	ND	NE
MW-237A	9/25/2018	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	10270	NE
MW-249A	9/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-255B	10/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-266B	9/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-266C	9/25/2018	ND	ND	NE	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-288B	9/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-294A	10/25/2018	ND	NE	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-295A	10/25/2018	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-295B	10/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-318A	9/17/2018	ND	NE	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-354A	10/22/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-357A	10/22/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-359A	10/23/2018	ND	NE	NE	NE	ND	ND	NE	ND	ND	NE	ND	NE
MW-359B	10/23/2018	ND	NE	NE	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-360A	10/23/2018	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-360B	10/23/2018	ND	NE	NE	NE	ND	ND	NE	NE	ND	NE	ND	NE
MW-362A	10/24/2018	ND	NE	NE	2.3	NE	ND	NE	ND	1.7	ND	ND	NE
MW-362B	10/24/2018	ND	NE	NE	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-364A	10/23/2018	ND	ND	ND	3.2	5.4	ND	NE	180	4.4	ND	ND	NE
MW-364B	10/23/2018	ND	ND	ND	NE	NE	ND	NE	2.2	NE	ND	ND	NE
MW-364C	10/24/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-365A	10/24/2018	ND	ND	ND	12	7.9	ND	NE	2.8	11	ND	ND	NE
MW-365B	10/24/2018	ND	ND	NE	NE	ND	ND	NE	2	NE	ND	ND	NE
MW-370A	10/23/2018	2.2	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-371A	10/23/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	NE	ND
MW-372A	10/23/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-375A	9/25/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-384A	10/23/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
MW-387A	10/23/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-387B	10/23/2018	NE	ND	ND	ND	ND	ND	NE	ND	ND	NE	ND	NE
MW-388A	10/23/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-390A	10/24/2018	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND
MW-390B	10/24/2018	1.2	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-391A	10/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-392A	10/23/2018	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND
MW-393A	10/23/2018	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-394B	10/25/2018	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-416A	9/24/2018	ND	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-416B	9/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-426A	10/25/2018	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND
MW-435A	10/30/2018	ND	NE	2.7	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-435B	10/30/2018	ND	NE	2.1	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-436A	10/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-436B	10/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-437A	10/25/2018	ND	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	NE
MW-437B	10/25/2018	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-438A	10/26/2018	ND	ND	NE	ND	ND	ND	ND	ND	ND	ND	NE	NE
MW-438B	10/26/2018	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE	ND	NE
MW-439A	10/25/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-440A	10/26/2018	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	NE	NE
MW-442A	10/25/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-442B	10/25/2018	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE	ND	NE
MW-443B	10/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-444A	10/23/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-444B	10/24/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-445A	10/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-445B	10/23/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-474B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-477A	9/25/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-479B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	NE	7.8	ND	ND	ND
MW-481B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-481C	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-482B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-482C	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-483B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-483C	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-487B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-488B	9/26/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	NE

DATA FROM PREVIOUS SAMPLING EVENTS - 1Q 2015 THROUGH 2Q 2018

Well ID	Sample Date	BENZ	CB	1,2-DCA	BDCM	BF	BM	CE	CF	CM	CT	DBCM	MEK	TICs	Other VOCs
187RI-MW1	3/4/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
187RI-MW2	3/26/2018	14	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE	NE
187RI-MW3	3/22/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
190RI-MW1	3/22/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
190RI-MW2	1/19/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ART-75	6/26/2018	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE
ART-76	6/26/2018	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200	NE	NE
ART-77	6/26/2018	1.2	NE	NE	ND	ND	11	11	NE	210	ND	ND	1400	NE	NE
ART-78	6/26/2018	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	NE
ART-79	2/20/2018	ND	ND	ND	ND	NE	ND	ND	NE	ND	ND	ND	ND	ND	NE
ART-80	2/20/2018	NE	NE	ND	NE	NE	ND	ND	NE	ND	ND	NE	ND	ND	NE
ART-82	7/27/2017	NE	62	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
ART-84	7/27/2017	NE	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
ART-86	7/27/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
ART-87	7/27/2017	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
ART-88	7/27/2017	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
ART-89	7/27/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
BIOS-2B	7/27/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
BIOS-4B	7/28/2017	NE	74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
BIOS-5B	7/28/2017	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
BIOS-7B	10/6/2017	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
BIOS-8B	7/28/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
BIOS-9B	7/28/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
BIOS-10B	10/6/2017	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
BIOS-11B	7/27/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
BIOS-12B	7/27/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
BIOS-13B	7/27/2017	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
BIOS-14B	7/27/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
BIOS-15B	7/27/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-5	2/22/2016	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92
Br-MW-6	4/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-8	2/22/2016	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
Br-MW-10	2/22/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
Br-MW-12-6	4/5/2018	ND	12	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
Br-MW-12-7	4/6/2018	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-13-5	4/5/2018	ND	ND	ND	ND	ND	ND	75	ND	ND	ND	ND	ND	ND	NE
Br-MW-13-6	4/5/2018	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	88.8
Br-MW-13-7	4/5/2018	ND	ND	NE	ND	ND	ND	73	NE	ND	ND	ND	ND	ND	3.6
Br-MW-14-1	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-14-2	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-14-3	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-14-4	4/5/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
Br-MW-14-5	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
Br-MW-14-6	4/5/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
DW-33A	6/8/2015	NE	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
DW-34A	6/10/2015	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
DW-35A	3/26/2018	NE	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE
IW-10A	6/29/2017	ND	ND	ND	8.9	17	ND	ND	NE	NE	NE	12	ND	ND	NE
IW-11B	6/29/2017	ND	ND	NE	3.6	45	ND	ND	NE	NE	55	7.2	ND	ND	ND
IW-13A	7/24/2018	ND	ND	ND	10	15	ND	ND	90	ND	910	10	ND	ND	NE
IW-13B	7/24/2018	ND	ND	NE	2.7	7.8	ND	ND	NE	NE	13	2.9	ND	ND	NE
IW-35A	5/3/2017	ND	ND	ND	7.1	39	ND	ND	NE	NE	NE	14	ND	ND	NE
IW-35B	4/4/2017	ND	ND	ND	NE	6.8	ND	ND	NE	ND	ND	1.3	ND	ND	NE
IW-40A	7/24/2018	ND	ND	ND	2.8	NE	ND	ND	NE	ND	43	2.4	ND	ND	NE
IW-40B	7/24/2018	ND	NE	NE	1.6	NE	ND	ND	NE	ND	5.8	1.6	ND	ND	NE
IW-41A	7/26/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	22	ND	ND	ND	NE
IW-41B2	7/26/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
IW-104A	7/28/2017	NE	NE	ND	ND	ND	ND	ND	NE	NE	ND	ND	NE	NE	NE
IW-105A	7/28/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
IW-106A	7/28/2017	2.6	180	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
IW-107A	7/28/2017	NE	81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
IW-108A	7/28/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
IW-109A	5/31/2018	3.1	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	NE	1112	NE
IW-110A	6/26/2018	1.4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	550	NE	NE
IW-111A	7/28/2017	NE	NE	ND	ND	NE	ND	ND	NE	ND	ND	ND	ND	NE	NE
IW-112A	7/28/2017	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
IW-113A	6/26/2018	1.2	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	330	NE	NE
IW-117A1	1/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IW-168B	8/1/2017	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
IW-168C1	8/1/2017	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
IW-168C2	8/1/2017	ND	NE	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-1	10/10/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND
MW-5	6/17/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-10	3/11/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-24A	6/15/2015	ND	NE	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-27C	1/20/2016	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-29W	8/20/2015	ND	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-37	6/12/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-42	6/15/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-52	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-60A	12/21/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-60B	6/12/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-60C	6/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-60L	3/2/2015	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-60-Z2R	4/5/2018	ND	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-70-1	1/18/2016	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-70-2	1/19/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-70-3	1/20/2016	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE	ND	ND	ND	ND
MW-80A	11/4/2015	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-80BR	12/21/2015	5.1	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-113	4/4/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-150	3/11/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-157B	4/6/2018	NE	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	NE	NE
MW-161	4/5/2018	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-162	6/18/2015	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-163	4/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-188	3/11/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-202	11/3/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-203	11/3/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-210	3/22/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-218B	3/20/2017	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-224B	3/2/2015	ND	NE	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-228A	3/11/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-232B	6/12/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-250B	6/15/2015	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-253A	7/10/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
MW-254B	10/10/2017	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
MW-256B	10/10/2017	ND	ND	ND	ND	4.6	ND	ND	NE	ND	ND	NE	ND	ND	NE
MW-259C	9/23/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-263B	3/4/2016	NE	NE	NE	ND	ND	ND	NE	NE	ND	ND	ND	ND	ND	NE
MW-267C	6/10/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-272A	6/12/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-288A	6/17/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-292A	3/20/2017	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-293A	3/7/2016	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-296A	6/11/2015	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-350A	5/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-358A	6/29/2017	ND	ND	NE	5.2	NE	ND	ND	NE	ND	ND	3.7	ND	ND	NE
MW-358B	6/29/2017	ND	ND	NE	1.8	NE	ND	ND	NE	ND	ND	1.6	ND	ND	ND
MW-361A	6/15/2015	ND	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-361B	6/15/2015	ND	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-363A	4/3/2017	ND	ND	ND	2	7.2	ND	ND	NE	ND	ND	2.6	ND	ND	ND
MW-363B	4/3/2017	ND	ND	ND	3.1	4.3	ND	ND	NE	ND	ND	3.1	ND	ND	NE
MW-363C	4/4/2017	ND	NE	ND	ND	NE	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-369A	7/26/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-379A	12/22/2015	1.9	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-380A	12/21/2015	1.4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	515	ND	NE
MW-381A	12/23/2015	2.2	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-382B	12/23/2015	NE	NE	2.7	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-383A	12/22/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	536	ND	NE
MW-395A	4/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-396A	4/5/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-397A	4/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-399A	12/10/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-400A	9/1/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-401A	9/1/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-402A	12/9/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-403A	8/31/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-404A	12/9/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-405A	12/10/2015	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-406A	12/9/2015	ND	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND	NE
MW-406B	9/1/2015	NE	91.4	NE	ND	ND	ND	ND	NE	ND	ND	ND	NE	ND	NE
MW-407A	9/1/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND
MW-408A	12/9/2015	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-409A	12/9/2015	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-410A	8/31/2015	ND	66.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	ND	NE
MW-411A	7/23/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-412A	6/17/2015	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-441A	12/2/2015	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-441B	12/2/2015	ND	NE	NE	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	NE
MW-447A	4/5/2018	ND	NE	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-491A	7/10/2018	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-492A	1/16/2018	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE
MW-493B	7/10/2018	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
MW-494A	7/10/2018	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-500A	10/10/2017	ND	ND	ND	ND	ND	ND	ND	NE	ND	ND	ND	ND	ND	ND
MW-502A	1/16/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
MW-502B	1/16/2018	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE

PROJECT: HOFFMANN-LA ROCHE INC. SITE
NUTLEY, NEW JERSEY

TITLE: BENZENE, CHLOROBENZENE, AND OTHER VOC EXCEEDANCES IN GROUNDWATER HGU 2 - 3Q 2018

DATE: JANUARY 2020 | PROJ. NO.: 198233

FIGURE 32

TRC
41 Spring Street, Suite 102
New Providence, NJ 07974
Phone: 908.988.1700
www.TRCcompanies.com

FILE NO.: CBB_HGU2.mxd