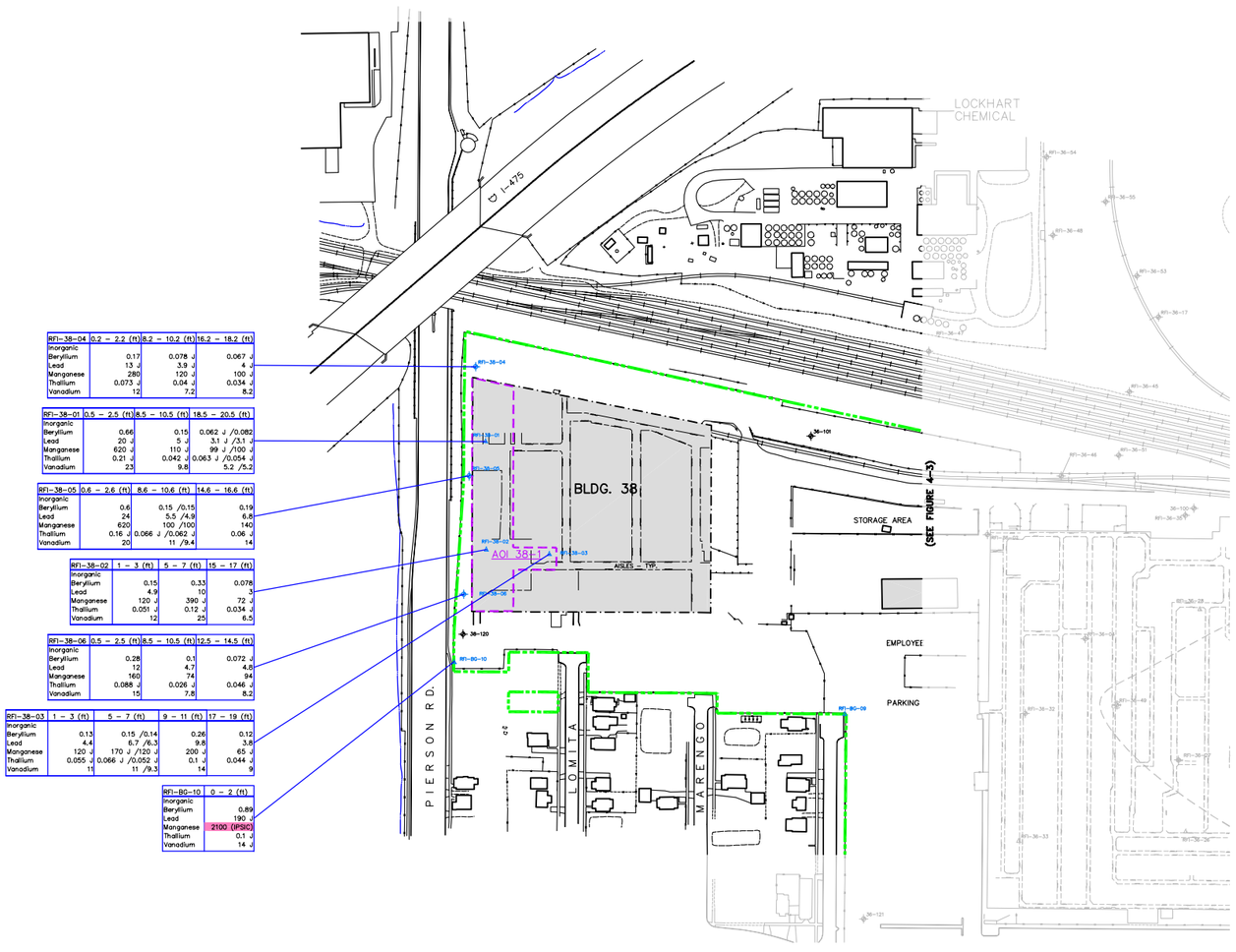
SITE LOCATION



RFI-38-04	0.2 – 2.2 (ft)	8.2 – 10.2 (ft)	16.2 – 18.2 (ft)
Inorganic			
Beryllium	0.17	0.078 J	0.067 J
Lead	13 J	3.9 J	4 J
Manganese	280	120 J	100 J
Thallium	0.073 J	0.04 J	0.034 J
Vanadium	12	7.2	8.2

RFI-38-01	0.5 – 2.5 (ft)	8.5 – 10.5 (ft)	18.5 – 20.5 (ft)
Inorganic			
Beryllium	0.66	0.15	0.062 J /0.082
Lead	20 J	5 J	3.1 J /3.1 J
Manganese	620 J	110 J	99 J /100 J
Thallium	0.21 J	0.042 J	0.063 J /0.054 J
Vanadium	23	9.8	5.2 /5.2

RFI-38-05	0.6 – 2.6 (ft)	8.6 – 10.6 (ft)	14.6 – 16.6 (ft)
Inorganic			
Beryllium	0.6	0.15 /0.15	0.19
Lead	24	5.5 /4.9	6.8
Manganese	620	100 /100	140
Thallium	0.16 J	0.066 J /0.062 J	0.06 J
Vanadium	20	11 /9.4	14

RFI-38-02	1 – 3 (ft)	5 – 7 (ft)	15 – 17 (ft)
Inorganic			
Beryllium	0.15	0.33	0.078
Lead	4.9	10	3
Manganese	120 J	390 J	72 J
Thallium	0.051 J	0.12 J	0.034 J
Vanadium	12	25	6.5

RFI-38-06	0.5 – 2.5 (ft)	8.5 – 10.5 (ft)	12.5 – 14.5 (ft)
Inorganic			
Beryllium	0.28	0.1	0.072 J
Lead	12	4.7	4.8
Manganese	160	74	94
Thallium	0.088 J	0.026 J	0.046 J
Vanadium	15	7.8	8.2

RFI-38-03	1 – 3 (ft)	5 – 7 (ft)	9 – 11 (ft)	17 – 19 (ft)
Inorganic				
Beryllium	0.13	0.15 /0.14	0.26	0.12
Lead	4.4	6.7 /6.3	9.8	3.8
Manganese	120 J	170 J /120 J	200 J	65 J
Thallium	0.055 J	0.066 J /0.052 J	0.1 J	0.044 J
Vanadium	11	11 /9.3	14	9

RFI-BG-10	0 – 2 (ft)
Inorganic	
Beryllium	0.89
Lead	190 J
Manganese	2100 (IPSIC)
Thallium	0.1 J
Vanadium	14 J

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

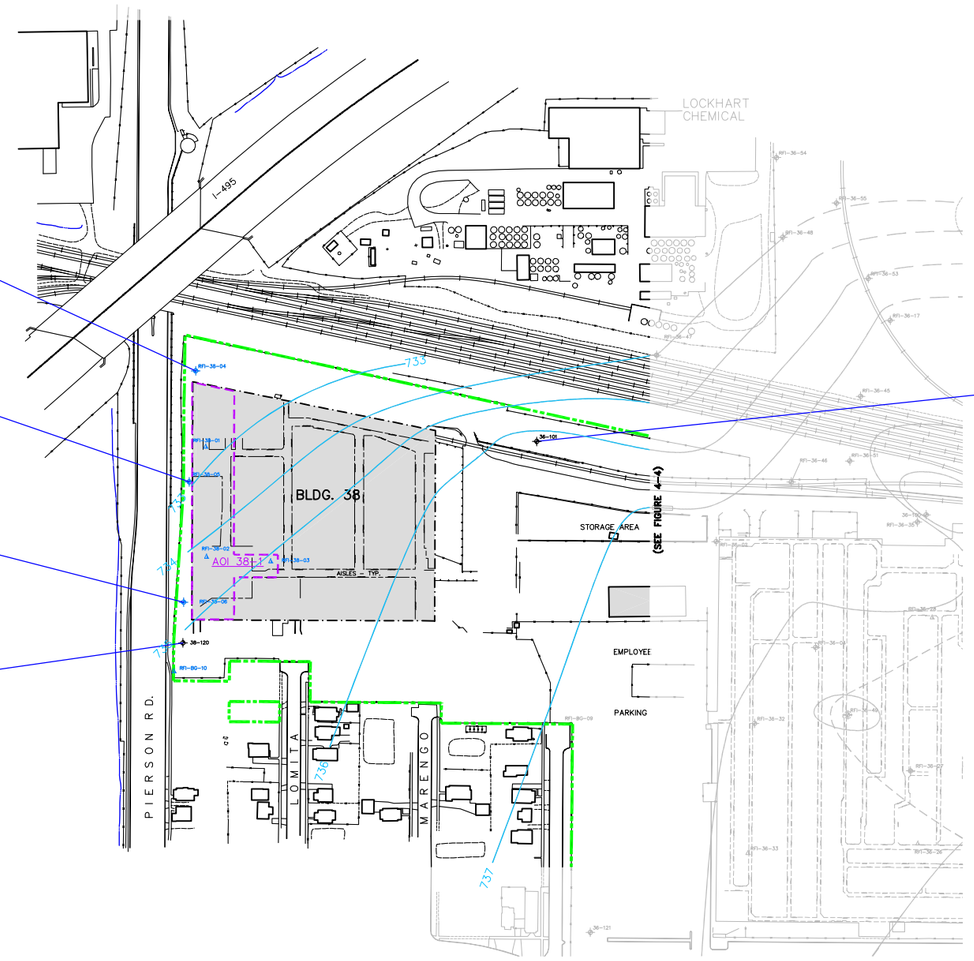
SOIL ANALYTICAL DATA - BUILDING 38 AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-1

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C01.DWG

SITE LOCATION



RFI-38-04	9/27/2001	6/13/2002	3/25/2003
Inorganic			
Beryllium	0.0011 J	ND(0.0004 J)	ND(0.0004)
Lead	0.00044	0.001 J	ND(0.0004)
Manganese	0.88 J (RDW)	0.49	0.24
Thallium	0.00024 J	0.000045 J	0.000068 J
Vanadium	ND(0.0008)	0.00075 J	ND(0.0008)
Inorganic-Dissolved			
Beryllium	ND(0.0004)	ND(0.0004)	NS
Lead	ND(0.0004)	0.0065 (GW,RDW)	NS
Manganese	0.77 J	1.7 J (RDW)	NS
Thallium	ND(0.0002)	ND(0.0002)	NS
Vanadium	ND(0.0008)	0.0045	NS

RFI-38-05	9/28/2001
Inorganic	
Beryllium	0.0015 J
Lead	0.00051
Manganese	0.55 J
Thallium	0.00046 J
Vanadium	ND(0.0008)
Inorganic-Dissolved	
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.52 J
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

RFI-38-06	9/28/2001	2/21/2002	6/13/2002	3/25/2003	10/13/2004
Inorganic					
Beryllium	0.0015 J /0.034 (GW,RDW)	NS	ND(0.0004 J)	ND(0.0004)	ND(0.001)
Lead	0.00048 /0.0007 J	NS	0.000093 J	0.00022 J	NS
Manganese	0.55 J /1 (RDW)	NS	0.41	0.34	NS
Thallium	0.0038 J (GW,RDW) /0.0049 (GW,RDW)	NS	0.0022 (GW,RDW)	0.0026 (GW,RDW)	0.003 (GW,RDW)
Vanadium	ND(0.0008) /0.0054 J (RDW)	NS	ND(0.0008)	ND(0.0008)	NS
Inorganic-Dissolved					
Beryllium	ND(0.0004) /ND(0.0004)	NS	NS	NS	NS
Lead	ND(0.0004) /ND(0.0004)	NS	NS	NS	NS
Manganese	0.55 J /0.52 J	NS	NS	NS	NS
Thallium	0.0031 (GW,RDW) /0.003 (GW,RDW)	0.0034 (GW,RDW)	NS	NS	NS
Vanadium	ND(0.0008) /ND(0.0008)	NS	NS	NS	NS

38-120	9/27/2001
Inorganic	
Beryllium	0.0032 J
Lead	0.00056
Manganese	0.57 J
Thallium	0.0019 J
Vanadium	ND(0.0008)
Inorganic-Dissolved	
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.41
Thallium	0.00089
Vanadium	ND(0.0008)

36-101	9/28/2001	6/13/2002
Inorganic		
Beryllium	0.00037 J	ND(0.0004 J)
Lead	0.00038 J	0.00013 J
Manganese	0.44 J	0.33 J
Thallium	0.00025 J	0.000056 J
Vanadium	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved		
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.45 J	NS
Thallium	ND(0.0002)	NS
Vanadium	ND(0.0008)	NS

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
11. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

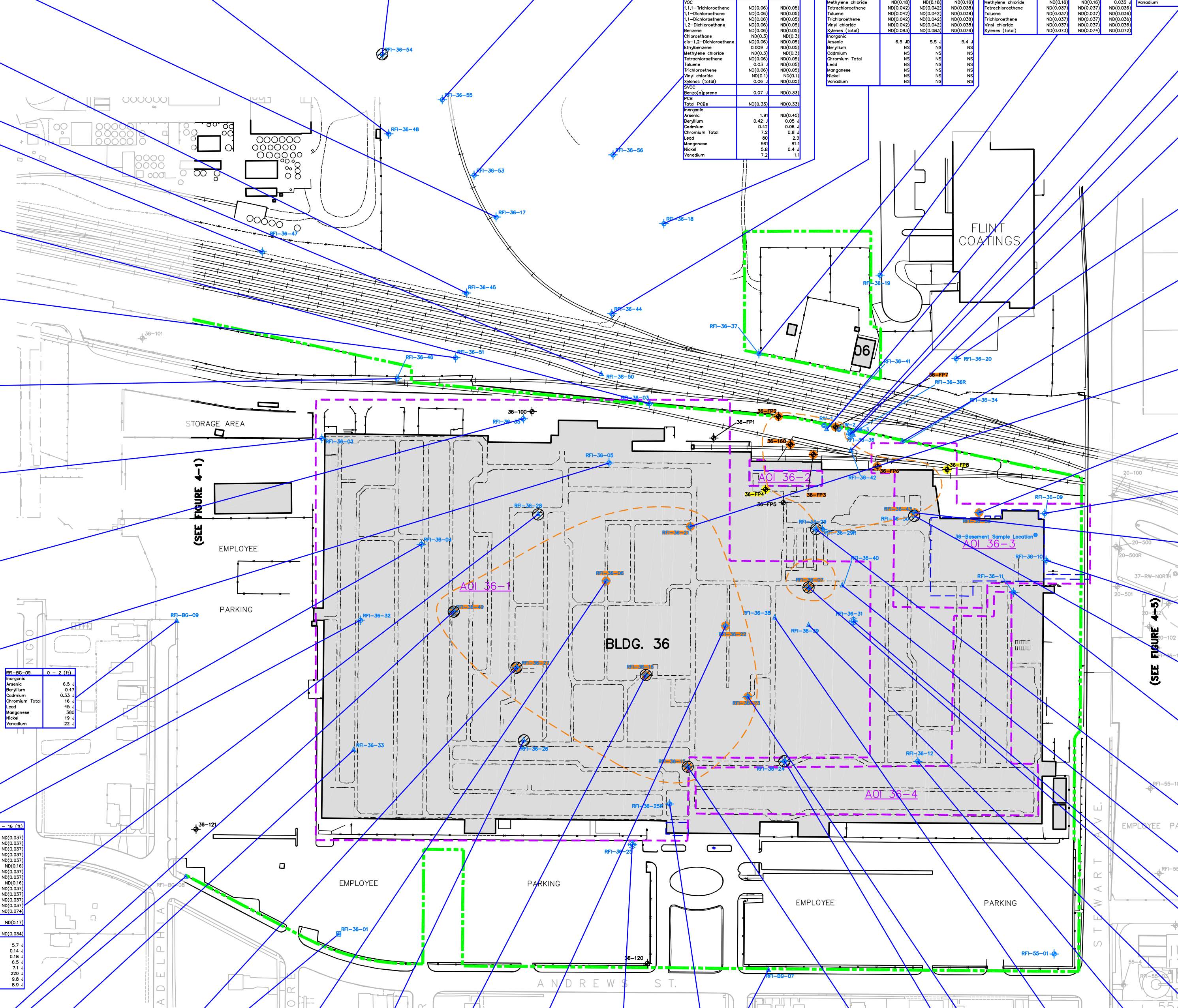
GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDING 38 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-2

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C02.DWG



RFI-36-50	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	0.036 J	0.049	0.078
1,1-Dichloroethane	ND(0.04)	ND(0.037)	ND(0.039)
1,1-Dichloroethene	ND(0.04)	ND(0.037)	ND(0.039)
1,2-Dichloroethane	ND(0.04)	ND(0.037)	ND(0.039)
Benzene	ND(0.04)	ND(0.037)	ND(0.039)
Chloroethane	ND(0.17)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.037)	ND(0.039)
Ethylbenzene	ND(0.04)	ND(0.037)	ND(0.039)
Methylene chloride	ND(0.17)	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.04)	ND(0.037)	ND(0.039)
Toluene	ND(0.08)	ND(0.075)	ND(0.078)
Trichloroethene	ND(0.04)	ND(0.037)	ND(0.039)
Vinyl chloride	ND(0.08)	ND(0.075)	ND(0.078)
Xylenes (total)	ND(0.08)	ND(0.075)	ND(0.078)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.18)	ND(0.19)
PCB			
Total PCBs	ND(0.04)	ND(0.038)	8.37 (RDC)
Inorganic			
Arsenic	6.2	4.4	3.8
Beryllium	0.42	0.11	0.11
Cadmium	ND(0.051)	ND(0.14)	ND(0.12)
Chromium Total	14	5.3	4.9
Lead	8.1	5	4.2
Manganese	210 J	130 J	100 J
Nickel	14	7.4	6.2
Vanadium	25	11	11

RFI-36-45	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.041)	ND(0.038)	ND(0.039)
1,1-Dichloroethane	ND(0.041)	ND(0.038)	ND(0.039)
1,1-Dichloroethene	ND(0.041)	ND(0.038)	ND(0.039)
1,2-Dichloroethane	ND(0.041)	ND(0.038)	ND(0.039)
Benzene	ND(0.041)	ND(0.038)	ND(0.039)
Chloroethane	ND(0.18)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.038)	ND(0.039)
Ethylbenzene	ND(0.041)	ND(0.038)	ND(0.039)
Methylene chloride	ND(0.18)	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.041 J)	ND(0.038)	ND(0.039)
Toluene	0.031 J	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.041)	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.041)	ND(0.038)	ND(0.039)
Xylenes (total)	0.079 J	ND(0.077)	ND(0.078)
Inorganic			
Arsenic	11 J (RDC)	4.6 J	6.9 J
Beryllium	NS	NS	NS
Cadmium	NS	NS	NS
Chromium Total	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-17	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
1,1-Dichloroethane	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
1,1-Dichloroethene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
1,2-Dichloroethane	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Benzene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.16 J) /ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Ethylbenzene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Methylene chloride	ND(0.16)	ND(0.16) /ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Toluene	0.033 J	ND(0.037) /ND(0.038)	ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037) /ND(0.038)	ND(0.037)
Xylenes (total)	0.031 J	ND(0.074) /ND(0.076)	ND(0.074)
SVOC			
Benzo(a)pyrene	NS	ND(0.18) /ND(0.18)	NS
PCB			
Total PCBs	NS	ND(0.037) /ND(0.037)	NS
Inorganic			
Arsenic	NS	NS	NS
Beryllium	NS	NS	NS
Cadmium	NS	NS	NS
Chromium Total	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-48	0 - 2 (ft)	6 - 8 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
1,1-Dichloroethane	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
1,1-Dichloroethene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
1,2-Dichloroethane	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Benzene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Chloroethane	ND(0.15)	ND(0.18)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Ethylbenzene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Methylene chloride	ND(0.15 J)	ND(0.18 J)	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Toluene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Trichloroethene	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Vinyl chloride	ND(0.036)	ND(0.043)	ND(0.037)	ND(0.04)
Xylenes (total)	ND(0.071)	ND(0.086)	ND(0.075)	ND(0.081)
Inorganic				
Arsenic	7.3 J	19 J (RDC)	8.2 J (RDC)	5.4 J
Beryllium	0.27 J	0.31 J	0.25 J	0.14 J
Cadmium	0.8	1.4	0.62	0.17
Chromium Total	64	410 J (IPSIC,RPSIC)	61 J	9 J
Lead	83 J	110 J	100 J	7 J
Manganese	710 J	4800 J (IPSIC,RPSIC)	1200 J	220 J
Nickel	28 J	130 J	31 J	8.8 J
Vanadium	17 J	9 J	18 J	16 J

RFI-36-54	0 - 2 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.05)	ND(0.06)	ND(0.05) /ND(0.05)
1,1-Dichloroethane	ND(0.05)	ND(0.06)	ND(0.05) /ND(0.05)
1,1-Dichloroethene	ND(0.05)	ND(0.06)	ND(0.05) /ND(0.05)
1,2-Dichloroethane	ND(0.05)	ND(0.06)	ND(0.05) /ND(0.05)
Benzene	ND(0.05)	0.03 J	0.01 J /0.01 J
Chloroethane	ND(0.3)	ND(0.3)	ND(0.3) /ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	0.01 J	ND(0.05) /ND(0.05)
Ethylbenzene	0.02 J	0.03 J	0.02 J /0.02 J
Methylene chloride	ND(0.3)	ND(0.3)	ND(0.3) /ND(0.3)
Tetrachloroethene	ND(0.05)	ND(0.06)	ND(0.05) /ND(0.05)
Toluene	0.03 J	0.04 J	0.02 J /0.02 J
Trichloroethene	ND(0.05)	0.01 J	ND(0.05) /ND(0.05)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1) /ND(0.1)
Xylenes (total)	0.21	0.11 J	0.04 J /0.04 J
SVOC			
Benzo(a)pyrene	0.73	0.78	0.05 J /0.2 J
PCB			
Total PCBs	1.2	0.05 J	0.11 J /0.08 J
Inorganic			
Arsenic	0.77	3.02	1.58 /1.53
Beryllium	0.17 J	0.72	0.45 J /0.44 J
Cadmium	2.08	1.98	0.55 /0.54
Chromium Total	73.6	280 (IPSIC,RPSIC)	59.7 /59.6
Lead	545 (RDC)	339	68.2 /68.6
Manganese	6730 (IPSIC,RPSIC)	1550 (IPSIC)	1400 /1410
Nickel	45.1	119	22.6 /22.4
Vanadium	2	18.4	5.1 /5.2

RFI-36-55	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.05)	ND(0.06)
1,1-Dichloroethane	ND(0.05)	ND(0.06)
1,1-Dichloroethene	ND(0.05)	ND(0.06)
1,2-Dichloroethane	ND(0.05)	ND(0.06)
Benzene	0.009 J	ND(0.06)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.06)
Ethylbenzene	0.01 J	ND(0.06)
Methylene chloride	ND(0.3)	ND(0.3)
Tetrachloroethene	1.54	0.04 J
Toluene	0.08	ND(0.06)
Trichloroethene	ND(0.05)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)
Xylenes (total)	0.15 J	ND(0.06)
SVOC		
Benzo(a)pyrene	0.1 J	ND(0.33)
PCB		
Total PCBs	0.07 J	ND(0.33)
Inorganic		
Arsenic	2.03	0.97
Beryllium	0.2 J	0.03 J
Cadmium	0.36	0.05 J
Chromium Total	18.1	1 J
Lead	44.2	2.1
Manganese	542	102
Nickel	16.4	1.8
Vanadium	3.3	1.4

RFI-36-53	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.06)	ND(0.05)	ND(0.06)
1,1-Dichloroethane	ND(0.06)	ND(0.05)	ND(0.06)
1,1-Dichloroethene	ND(0.06)	ND(0.05)	ND(0.06)
1,2-Dichloroethane	ND(0.06)	ND(0.05)	ND(0.06)
Benzene	ND(0.06)	ND(0.05)	ND(0.06)
Chloroethane	ND(0.3)	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.06)	ND(0.05)	ND(0.06)
Ethylbenzene	ND(0.06)	ND(0.05)	0.13
Methylene chloride	ND(0.3)	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(0.06)	ND(0.05)	ND(0.06)
Toluene	ND(0.06)	ND(0.05)	ND(0.06)
Trichloroethene	ND(0.06)	ND(0.05)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
Xylenes (total)	ND(0.06)	ND(0.05)	0.39 J
SVOC			
Benzo(a)pyrene	ND(0.3)	ND(0.3)	ND(0.3)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	0.81 J	1.17 J	1.58 J
Beryllium	0.348	ND(0.1)	ND(0.1)
Cadmium	ND(0.13)	ND(0.12)	ND(0.17)
Chromium Total	5.15	2.13	1.96
Lead	7	3.15	3.23
Manganese	319 J	93.2 J	136 J
Nickel	7.29	2.88	3.45
Vanadium	6.13	3.13	3.46

RFI-36-18	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.036)	ND(0.04)
1,1-Dichloroethane	ND(0.038)	ND(0.036)	ND(0.04)
1,1-Dichloroethene	ND(0.038)	ND(0.036)	ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.036)	ND(0.04)
Benzene	ND(0.038)	ND(0.036)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.036)	ND(0.04)
Ethylbenzene	ND(0.038)	ND(0.036)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.036)	ND(0.04)
Toluene	ND(0.038)	ND(0.036)	ND(0.04)
Trichloroethene	ND(0.038)	ND(0.036)	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.036)	ND(0.04)
Xylenes (total)	ND(0.075)	ND(0.072)	ND(0.08)

RFI-36-37	0 - 2 (ft)	6 - 8 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
1,1-Dichloroethane	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
1,1-Dichloroethene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
1,2-Dichloroethane	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Benzene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.15)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Ethylbenzene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Methylene chloride	0.029 J	0.081 J	0.078 J	0.028 J
Tetrachloroethene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Toluene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Trichloroethene	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Vinyl chloride	ND(0.037)	ND(0.036)	ND(0.036)	ND(0.038)
Xylenes (total)	0.064 J	ND(0.073)	ND(0.072)	ND(0.076)
SVOC				
Benzo(a)pyrene	0.0904 J	ND(0.18)	ND(0.17)	ND(0.19)
PCB				
Total PCBs	NS	NS	ND(0.036)	NS

RFI-36-36R	1 - 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cadmium	NS
Chromium Total	220
Chromium VI (Hexavalent)	ND(0.02)
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS

RFI-36-36	1 - 3 (ft)	5 - 7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.04)
1,1-Dichloroethane	ND(0.038)	ND(0.04)
1,1-Dichloroethene	ND(0.038)	ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.04)
Benzene	ND(0.038)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)
Ethylbenzene	ND(0.038)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.04)
Toluene	ND(0.038)	ND(0.04)
Trichloroethene	ND(0.038)	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.04)
Xylenes (total)	ND(0.076)	ND(0.08)
SVOC		
Benzo(a)pyrene	ND(0.92 J)	ND(0.98)
PCB		
Total PCBs	ND(0.038)	ND(0.04)
Inorganic		
Arsenic	5.8	3.8
Beryllium	0.15 J	0.25 J
Cadmium	0.17 J	0.068 J
Chromium Total	450 J (IPSIC,RPSIC)	54 J
Lead	40 J	14 J
Manganese	1100 J	240 J
Nickel	47 J	14 J
Vanadium	120 J	22 J

RFI-36-42	0.1 - 1.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cadmium	NS
Chromium Total	8.7
Chromium VI (Hexavalent)	0.075
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS

RFI-36-44	1 - 3 (ft)	7 - 9 (ft)	9 - 11 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.042)	ND(0.042)	ND(0.038)
1,1-Dichloroethane	ND(0.042)	ND(0.042)	ND(0.038)
1,1-Dichloroethene	ND(0.042)	ND(0.042)	ND(0.038)
1,2-Dichloroethane	ND(0.042)	ND(0.042)	ND(0.038)
Benzene	ND(0.042)	ND(0.042)	ND(0.038)
Chloroethane	ND(0.18)	ND(0.18)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.042)	ND(0.038)
Ethylbenzene	ND(0.042)	ND(0.042)	ND(0.038)
Methylene chloride	ND(0.18)	ND(0.18)	ND(0.16)
Tetrachloroethene	ND(0.042)	ND(0.042)	ND(0.038)
Toluene	ND(0.042)	ND(0.042)	ND(0.038)
Trichloroethene	ND(0.042)	ND(0.042)	ND(0.038)
Vinyl chloride	ND(0.042)	ND(0.042)	ND(0.038)
Xylenes (total)	ND(0.083)	ND(0.083)	ND(0.076)
Inorganic			
Arsenic	6.5 JD	5.5 J	5.4 J
Beryllium	NS	NS	NS
Cadmium	NS	NS	NS
Chromium Total	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-56	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.06)	ND(0.05)
1,1-Dichloroethane	ND(0.06)	ND(0.05)
1,1-Dichloroethene	ND(0.06)	ND(0.05)
1,2-Dichloroethane	ND(0.06)	ND(0.05)
Benzene	ND(0.06)	ND(0.05)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.06)	ND(0.05)
Ethylbenzene	0.009 J	ND(0.05)
Methylene chloride	ND(0.3)	ND(0.3)
Tetrachloroethene	ND(0.06)	ND(0.05)
Toluene	0.03 J	ND(0.05)
Trichloroethene	ND(0.06)	ND(0.05)
Vinyl chloride	ND(0.1)	ND(0.1)
Xylenes (total)	0.06 J	ND(0.05)
SVOC		
Benzo(a)pyrene	0.07 J	ND(0.33)
PCB		
Total PCBs	ND(0.33)	ND(0.33)
Inorganic		
Arsenic	1.91	ND(0.45)
Beryllium	0.42 J	0.05 J
Cadmium	0.42	0.06 J
Chromium Total	7.2	0.8 J
Lead	80	2.3
Manganese	561	81.1
Nickel	5.8	0.4 J
Vanadium	7.2	1.1

RFI-36-19	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.037)	ND(0.036)
1,1-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.036)
1,1-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.036)
1,2-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.036)
Benzene	ND(0.037)	ND(0.037)	ND(0.036)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.15)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.036)
Ethylbenzene	ND(0.037)	ND(0.037)	ND(0.036)
Methylene chloride	ND(0.16)	ND(0.16)	0.035 J
Tetrachloroethene	ND(0.037)	ND(0.037)	ND(0.036)
Toluene	ND(0.037)	ND(0.037)	ND(0.036)
Trichloroethene	ND(0.037)	ND(0.037)	ND(0.036)
Vinyl chloride	ND(0.037)	ND(0.037)	ND(0.036)
Xylenes (total)	ND(0.073)	ND(0.074)	ND(0.072)

RFI-36-41	1 - 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cadmium	NS
Chromium Total	110
Chromium VI (Hexavalent)	0.34
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS

RFI-36-20	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.037)	ND(0.038)
1,1-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.038)
1,1-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.038 J)
1,2-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.038)
Benzene	ND(0.037)	ND(0.037)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.038)
Ethylbenzene	ND(0.037)	ND(0.037)	ND(0.038)
Methylene chloride	0.033 J	0.032 J	0.033 J
Tetrachloroethene	ND(0.037)	ND(0.037)	ND(0.038)
Toluene	ND(0.037)	ND(0.037)	ND(0.038)
Trichloroethene	ND(0.037)	ND(0.037)	ND(0.038)
Vinyl chloride	ND(0.037)	ND(0.037)	ND(0.038)
Xylenes (total)	ND(0.074)	ND(0.074)	ND(0.077)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.18)	ND(0.18)
Inorganic			
Arsenic	NS	3.8	NS
Beryllium	NS	0.12	NS
Cadmium	NS	0.072	NS
Chromium Total	NS	4.5	NS
Lead	NS	4	NS
Manganese	NS	140	NS
Nickel	NS	6.1	NS
Vanadium	NS	8.5	NS

RFI-36-34	0.9 - 2.9 (ft)	6.9 - 8.9 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.04)
1,1-Dichloroethane	ND(0.039)	ND(0.04)
1,1-Dichloroethene	ND(0.039)	ND(0.04)
1,2-Dichloroethane	ND(0.039)	ND(0.04)
Benzene	ND(0.039)	ND(0.04)
Chloroethane	ND(0.17)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04)
Ethylbenzene	ND(0.039)	ND(0.04)
Methylene chloride	0.052 J	0.031 J
Tetrachloroethene	ND(0.039 J)	ND(0.04)
Toluene	ND(0.039)	ND(0.04)
Trichloroethene	ND(0.039)	ND(0.04)
Vinyl chloride	ND(0.039)	ND(0.04)
Xylenes (total)	ND(0.078)	ND(0.079)
SVOC		
Benzo(a)pyrene	ND(0.19)	ND(0.19)
PCB		
Total PCBs	ND(0.039)	ND(0.039)
Inorganic		
Arsenic	5.2	3.4
Beryllium	0.28 J	0.13 J
Cadmium	0.15 J	0.097 J
Chromium Total	13 J	5.2 J
Lead	7.1 J	3.9 J
Manganese	230 J	440 J
Nickel	15 J	5.7 J
Vanadium	18 J	11 J

RFI-36-21	6 - 8 (ft)	8 - 10 (ft)	10 - 12 (ft)	12 - 14 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
1,1-Dichloroethane	ND(0.041)	ND(0.036)	0.22	ND(0.036)
1,1-Dichloroethene	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
1,2-Dichloroethane	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
Benzene	ND(0.041)	ND(0.036)	0.13	ND(0.036)
Chloroethane	ND(0.17)	ND(0.15)	ND(0.16)	ND(0.15)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
Ethylbenzene	ND(0.041 J)	ND(0.036)	0.37	ND(0.036)
Methylene chloride	ND(0.17)	0.047 J	ND(0.16)	0.039 J
Tetrachloroethene	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
Toluene	ND(0.041)	ND(0.036)	1.4	ND(0.036)
Trichloroethene	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
Vinyl chloride	ND(0.041)	ND(0.036)	ND(0.038)	ND(0.036)
Xylenes (total)	ND(0.082)	ND(0.071)	1.4	ND(0.072)
SVOC				
Benzo(a)pyrene	ND(0.19)	ND(0.18 J)	0.902 J	ND(0.18 J)
PCB				
Total PCBs	ND(0.038)	ND(0.034)	ND(0.036)	ND(0.18)
Inorganic				
Arsenic	4.6 J	3.5	9.5 J (RDC)	1.7
Beryllium	0.2 J	0.16 J	0.31 J	ND(0.17)
Cadmium	0.049 J	0.098 J	0.38 J	0.034 J
Chromium Total	6	4.8	46 J	2.4
Lead	6.5 J	4.6 J	52 J	2 J
Manganese	220 J	170	510 J	67
Nickel	9.9 J	15	46 J	2.8
Vanadium	9.6 J	7.2	13 J	3.6

RFI-36-08	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.044)	ND(0.04 J)
1,1-Dichloroethane	ND(0.044)	ND(0.04 J)
1,1-Dichloroethene	ND(0.044)	ND(0.04 J)
1,2-Dichloroethane	ND(0.044)	ND(0.04 J)
Benzene	ND(0.044)	1.4 J
Chloroethane	ND(0.19)	ND(0.17 J)
cis-1,2-Dichloroethene	ND(0.044)	ND(0.04 J)
Ethylbenzene	ND(0.044)	25 D
Methylene chloride	ND(0.19 J)	0.064 J
Tetrachloroethene	ND(0.044)	ND(0.04 J)
Toluene	ND(0.044)	25 D
Trichloroethene	ND(0.044)	ND(0.04 J)
Vinyl chloride	ND(0.044)	ND(0.04 J)
Xylenes (total)	0.038 J	87
SVOC		
Benzo(a)pyrene	ND(0.21)	ND(0.2 J)
PCB		
Total PCBs	ND(0.044)	ND(0.041)
Inorganic		
Arsenic	4	5.7
Beryllium	0.16	0.22
Cadmium	0.12	0.75
Chromium Total	11	12
Lead	6.4	47
Manganese	200 J	430 J
Nickel	11	14
Vanadium	11	16

RFI-36-09	1 - 3 (ft)	5 - 7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.04) /ND(0.038)
1,1-Dichloroethane	ND(0.038)	ND(0.04) /ND(0.038)
1,1-Dichloroethene	ND(0.038)	ND(0.04) /ND(0.038)
1,2-Dichloroethane	ND(0.038)	ND(0.04) /ND(0.038)
Benzene	1.9 (RSVIA)	ND(0.04) /ND(0.038)
Chloroethane	ND(0.16)	ND(0.17) /ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04) /ND(0.038)
Ethylbenzene	2.9	ND(0.04) /ND(0.038)
Methylene chloride	ND(0.16)	ND(0.17) /ND(0.16 J)
Tetrachloroethene	ND(0.038)	ND(0.04) /ND(0.038)
Toluene	0.13	ND(0.04) /ND(0.038)
Trichloroethene	ND(0.038)	ND(0.04) /ND(0.038)
Vinyl chloride	ND(0.038)	ND(0.04) /ND(0.038)
Xylenes (total)	0.654	ND(0.079) /ND(0.076)
SVOC		
Benzo(a)pyrene	0.0525 J	ND(0.19) /ND(0.19)
PCB		
Total PCBs	ND(0.038)	ND(0.04) /ND(0.038)
Inorganic		
Arsenic	5.3	5.5 /6.2
Beryllium	0.26	0.15 /0.18
Cadmium	0.27	0.14 /0.13
Chromium Total	19	5.3 /7.5
Lead	22	6.1 /8.9
Manganese	230 J	100 J /99 J
Nickel	16	8.7 /8.3
Vanadium	16	12 /19

RFI-36-43	0.9 - 2.9 (ft)	6.9 - 8.9 (ft)	10.9 - 12.9 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.038)	ND(0.038)
1,1-Dichloroethane	ND(0.038)	ND(0.038)	ND(0.038)
1,1-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.038)
1,2-Dichloroethane	ND(0.038 J)	ND(0.038 J)	ND(0.038 J)
Benzene	0.058	ND(0.038)	0.64
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.038)
Ethylbenzene	0.069	0.24	17 D
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.038)	ND(0.038)	ND(0.038)
Toluene	ND(0.038)	0.32	29 D
Trichloroethene	ND(0.038)	ND(0.038)	ND(0.038)
Vinyl chloride	ND(0.038)	ND(0.038)	ND(0.038)
Xylenes (total)	0.076	1.27	80
SVOC			
Benzo(a)pyrene	0.104 J	ND(0.18)	ND(0.18)
PCB			
Total PCBs	ND(0.038)	ND(0.037)	ND(0.038)
Inorganic			
Arsenic	3.5 J	2.2 J	2.7 J
Beryllium	0.23 J	0.13 J	0.12 J
Cadmium	0.15 J	0.045 J	0.083 J
Chromium Total	8.4 J	5.1 J	5 J
Lead	7.5 J	2.9 J	3.7 J
Manganese	190 J	42 J	46 J
Nickel	7.9	4.9	5.4
Vanadium	11	9.3	8.9

RFI-36-10	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.036)	ND(0.038)
1,1-Dichloroethane	ND(0.036)	ND(0.038)
1,1-Dichloroethene	ND(0.036)	ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.038)
Benzene	ND(0.036)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.038)
Ethylbenzene	ND(0.036)	ND(0.038)
Methylene chloride	ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.036)	ND(0.038)
Toluene	ND(0.036)	ND(0.038)
Trichloroethene	ND(0.036)	ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.038)
Xylenes (total)	ND(0.073)	ND(0.076)
SVOC		
Benzo(a)pyrene	ND(0.18)	ND(0.18)
PCB		
Total PCBs	ND(0.036)	ND(0.038)
Inorganic		
Arsenic	3.7	3.6
Beryllium	0.1	0.12
Cadmium	0.12	0.1
Chromium Total	5.1	4.9
Lead	4.8	4.1
Manganese	140 J	140 J
Nickel	7.6	5.8
Vanadium	7.9	7.7

RFI-36-30	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.037)	ND(0.035)
1,1-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.035)
1,1-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.035)
1,2-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.035)
Benzene	1.5	9.3 D (ISVIA,RSVIA)	1.3
Chloroethane	ND(0.16)	ND(0.16)	ND(0.15)
cis-1,2-Dichloroethene	0.087	ND(0.037)	ND(0.035)
Ethylbenzene	0.54	28 D	7.8 D
Methylene chloride	ND(0.16)	ND(0.16)	0.041 J
Tetrachloroethene	ND(0.037)	ND(0.037)	ND(0.035)
Toluene	3.7	100 D	21 D
Trichloroethene	0.049	0.14	ND(0.035)
Vinyl chloride	ND(0.037)	ND(0.037)	ND(0.035)
Xylenes (total)	1.85	104	31.7
SVOC			
Benzo(a)pyrene	ND(0.18 J)	ND(0.18 J)	ND(0.18)
PCB			
Total PCBs	ND(0.038)	ND(0.037)	ND(0.035)
Inorganic			
Arsenic	3.8	2.5	3.6
Beryllium	0.22 J	0.074 J	0.1 J
Cadmium	0.35	0.061	0.12
Chromium Total	23	3.1	4.2
Lead	24 J	3.4 J	3.8 J
Manganese	290	42	52
Nickel	10	4.7	6.1
Vanadium	17	5.3	6.2

RFI-36-11	0.8 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.044)	0.078
1,1-Dichloroethane	ND(0.04)	ND(0.044)	ND(0.038)
1,1-Dichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
1,2-Dichloroethane	ND(0.04)	ND(0.044)	ND(0.038)
Benzene	ND(0.04)	ND(0.044)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.19)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Ethylbenzene	ND(0.04)	ND(0.044)	ND(0.038)
Methylene chloride	ND(0.17)	ND(0.19)	ND(0.16)
Tetrachloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Toluene	ND(0.04)	ND(0.044)	ND(0.038)
Trichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Vinyl chloride	ND(0.04)	ND(0.044)	ND(0.038)
Xylenes (total)	ND(0.08)	ND(0.089)	ND(0.077)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.18)	ND(0.21)
Inorganic			
Arsenic	7.7 J (RDC)	4.6 J	3.7 J
Beryllium	NS	NS	NS
Cadmium	0.23	0.17	0.12
Chromium Total	67	5	12
Lead	29	4.4	4.5
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-29	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,1-Dichloroethane	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,1-Dichloroethene	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,2-Dichloroethane	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Benzene	ND(0.039)	ND(0.036)	0.23 /0.19
Chloroethane	ND(0.17)	ND(0.15)	ND(0.16) /ND(0.15)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Ethylbenzene	ND(0.039)	ND(0.036)	0.047 /0.042
Methylene chloride	ND(0.17)	0.039 J	ND(0.16) /ND(0.15)
Tetrachloroethene	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Toluene	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Trichloroethene	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Vinyl chloride	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Xylenes (total)	ND(0.079)	ND(0.071)	ND(0.072) /ND(0.072)
SVOC			
Benzo(a)pyrene	ND(0.19 J)	ND(0.17)	ND(0.18 J) /ND(0.18 J)
PCB			
Total PCBs	ND(0.037)	ND(0.036)	ND(0.036) /ND(0.036)
Inorganic			
Arsenic	2.3 J	2.4	2.9 /2.4
Beryllium	0.27 J	0.085 J	0.13 J /0.099 J
Cadmium	0.14 J	0.093 J	0.14 /0.081 J
Chromium Total	11 J	3.3	6.7 /5.5
Lead	16 J	2.7 J	4.7 J /3.3 J
Manganese	930 J	190	220 /160
Nickel	11 J	4.5	8 /5.7
Vanadium	13 J	5.5	7.6 /6.7

RFI-36-40	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	12.5 - 14.5 (ft)
VOC			
1,1,1-Trichloroethane	NS	NS	NS
1,1-Dichloroethane	NS	NS	NS
1,1-Dichloroethene	NS	NS	NS
1,2-Dichloroethane	NS	NS	NS
Benzene	0.056	4.7 (RSVIA)	6.3 D (RSVIA)
Chloroethane	NS	NS	NS
cis-1,2-Dichloroethene	NS	NS	NS
Ethylbenzene	ND(0.011)	2.6	52 D
Methylene chloride	NS	NS	NS
Tetrachloroethene	NS	NS	NS
Toluene	0.12	19 D	150 D
Trichloroethene	NS	NS	NS
Vinyl chloride	NS	NS	NS
Xylenes (total)	0.053	7.7	198 (IDC,ISVIA,RDC,RSVIA)

RFI-36-31	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039)	ND(0.038)	ND(0.037)
1,1-Dichloroethane	ND(0.039)	ND(0.038)	ND(0.037)
1,1-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.037)
1,2-Dichloroethane	ND(0.039)	ND(0.038)	ND(0.037)
Benzene	ND(0.039)	0.056	ND(0.037)
Chloroethane	ND(0.17)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.037)
Ethylbenzene	ND(0.039)	0.11	0.069
Methylene chloride	0.12 J	0.043 J	ND(0.16)
Tetrachloroethene	ND(0.039)	ND(0.038)	ND(0.037)
Toluene	ND(0.039)	0.4	0.18
Trichloroethene	ND(0.039)	ND(0.038)	ND(0.037)
Vinyl chloride	ND(0.039)	ND(0.038)	ND(0.037)
Xylenes (total)	ND(0.077)	0.46	0.267
SVOC			
Benzo(a)pyrene	6.16 JD (RDC)	ND(0.19)	ND(0.18 J)
PCB			
Total PCBs	ND(0.037)	ND(0.039)	ND(0.036)
Inorganic			
Arsenic	2.2 J	3.8	2.6 J
Beryllium	0.16 J	0.12 J	ND(0.22)
Cadmium	0.14 J	0.074 J	0.043 J
Chromium Total	13 J	7.8	3.1 J
Lead	5.8 J	5.7 J	2.9 J
Manganese	200 J	120	51 J
Nickel	9.7 J	8.7	3.7 J
Vanadium	6.9 J	5.8	4.6 J

RFI-36-47	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.036)	ND(0.039)
1,1-Dichloroethane	ND(0.038)	ND(0.036)	ND(0.039)
1,1-Dichloroethene	ND(0.038)	ND(0.036)	ND(0.039)
1,2-Dichloroethane	ND(0.038)	ND(0.036)	ND(0.039)
Benzene	ND(0.038)	ND(0.036)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.15)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.036)	ND(0.039)
Ethylbenzene	0.035 J	0.026 J	ND(0.039)
Methylene chloride	ND(0.16)	ND(0.15)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.036)	ND(0.039)
Toluene	0.092	0.054	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.036)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.036)	ND(0.039)
Xylenes (total)	0.3	0.34	ND(0.078)
Inorganic			
Arsenic	8.2 J (RDC)	3.3 J	3.4 J
Beryllium	0.33 J	0.15 J	0.079 J
Cadmium	0.55	0.2	0.11
Chromium Total	24 J	13 J	7.7 J
Lead	91 J	27 J	7.8 J
Manganese	390 J	100 J	51 J
Nickel	20 J	11 J	6.8 J
Vanadium	26 J	17 J	15 J

RFI-36-03	0.8 - 2 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
1,1-Dichloroethane	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
1,1-Dichloroethene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
1,2-Dichloroethane	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Benzene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Chloroethane	ND(0.15)	ND(0.18)	ND(0.18) /ND(0.18)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Ethylbenzene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Methylene chloride	ND(0.15)	ND(0.18)	ND(0.18) /ND(0.18)
Tetrachloroethene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Toluene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Trichloroethene	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Vinyl chloride	ND(0.036)	ND(0.041)	ND(0.041) /ND(0.042)
Xylenes (total)	ND(0.071)	ND(0.083)	ND(0.082) /ND(0.085)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.18)	ND(0.21) /ND(0.21)
Inorganic			
Arsenic	4.5 J	7.6 J	3.8 J /3.4 J
Beryllium	NS	NS	NS
Cadmium	0.17	0.064	0.11 /0.27
Chromium Total	11	6.4	4.4 /13
Lead	12	5.7	4.3 /4.7
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-51	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.042)	ND(0.039)	ND(0.037)
1,1-Dichloroethane	ND(0.042)	ND(0.039)	ND(0.037)
1,1-Dichloroethene	ND(0.042)	ND(0.039)	ND(0.037)
1,2-Dichloroethane	ND(0.042)	ND(0.039)	ND(0.037)
Benzene	ND(0.042)	ND(0.039)	ND(0.037)
Chloroethane	ND(0.18)	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.039)	ND(0.037)
Ethylbenzene	ND(0.042)	ND(0.039)	ND(0.037)
Methylene chloride	ND(0.18)	ND(0.17)	ND(0.16)
Tetrachloroethene	ND(0.042)	ND(0.039)	ND(0.037)
Toluene	0.048 J	ND(0.079)	ND(0.073)
Trichloroethene	ND(0.042)	ND(0.039)	ND(0.037)
Vinyl chloride	ND(0.083)	ND(0.079)	ND(0.073)
Xylenes (total)	0.107 J	ND(0.079)	ND(0.073)
SVOC			
Benzo(a)pyrene	ND(0.2)	ND(0.19)	ND(0.18)
PCB			
Total PCBs	ND(0.042)	ND(0.04)	ND(0.038)
Inorganic			
Arsenic	8.9 (RDC)	4.9	5
Beryllium	0.61	0.18	0.14
Cadmium	0.19	ND(0.086)	ND(0.088)
Chromium Total	20	6.8	5.7
Lead	13	6.3	6.3
Manganese	350 J	78 J	67 J
Nickel	24	6.1	5.5
Vanadium	34	14	12

RFI-36-46	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
1,1-Dichloroethane	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
1,1-Dichloroethene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
1,2-Dichloroethane	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Benzene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.17) /ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Ethylbenzene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Methylene chloride	0.039 J	0.059 J /0.057 J	0.061 J
Tetrachloroethene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Toluene	0.038 J	ND(0.039) /ND(0.039)	ND(0.038)
Trichloroethene	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.041)	ND(0.039) /ND(0.039)	ND(0.038)
Xylenes (total)	0.168	ND(0.078) /ND(0.078)	ND(0.076)
SVOC			
Benzo(a)pyrene	ND(2 J)	ND(0.19) /ND(0.19)	ND(0.19)
PCB			
Total PCBs	ND(0.041)	ND(0.038) /ND(0.038)	ND(0.038)
Inorganic			
Arsenic	8.6 (RDC)	3.8 /2.5	3.1
Beryllium	0.82	0.19 /0.27	0.16
Cadmium	0.57	0.089 /0.089	0.08
Chromium Total	24	11 /7.8	6.3
Lead	29	5.7 /6.2	5.2
Manganese	810	100 /67	65
Nickel	14	5.7 /5.8	5.2
Vanadium	19	14 /16	11

RFI-36-02	1 - 3 (ft)	7 - 9 (ft)	9 - 11 (ft)	13 - 15 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
1,1-Dichloroethane	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
1,1-Dichloroethene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
1,2-Dichloroethane	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Benzene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.19)	ND(0.16) /ND(0.15)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Ethylbenzene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Methylene chloride	0.033 J	0.036 J	0.034 J /0.042 J	0.033 J
Tetrachloroethene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Toluene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Trichloroethene	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.044)	ND(0.037) /ND(0.036)	ND(0.037)
Xylenes (total)	ND(0.075)	ND(0.087)	ND(0.074) /ND(0.071)	ND(0.074)
SVOC				
Benzo(a)pyrene	ND(0.19 J)	ND(0.22 J)	ND(0.18 J) /NS	ND(0.18)
PCB				
Total PCBs	ND(0.038)	ND(0.044)	ND(0.037) /NS	ND(0.037)
Inorganic				
Arsenic	3.6 J	4.2 J	3.1 J /NS	4 J
Beryllium	0.091 J	0.12 J	0.058 J /NS	0.061 J
Cadmium	0.073 J	0.1 J	0.065 J /NS	0.1 J
Chromium Total	5 J	7.6 J	4.5 J /NS	4.2 J
Lead	5 J	6.3 J	4.1 J /NS	5.1 J
Manganese	120 J	180 J	110 J /NS	120 J
Nickel	6.8 J	8.4 J	5.8 J /NS	5.6 J
Vanadium	8.6 J	10 J	7.8 J /NS	7.2 J

RFI-36-35	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039)	0.07	0.14
1,1-Dichloroethane	ND(0.039)	ND(0.038)	ND(0.04)
1,1-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.04)
1,2-Dichloroethane	ND(0.039)	ND(0.038)	ND(0.04)
Benzene	ND(0.039)	ND(0.038)	ND(0.04)
Chloroethane	ND(0.17)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.04)
Ethylbenzene	ND(0.039)	ND(0.038)	ND(0.04)
Methylene chloride	0.05 J	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.039)	ND(0.038)	ND(0.04)
Toluene	ND(0.039)	ND(0.038)	ND(0.04)
Trichloroethene	ND(0.039)	ND(0.038)	ND(0.04)
Vinyl chloride	ND(0.039)	ND(0.038)	ND(0.04)
Xylenes (total)	ND(0.078)	ND(0.077)	ND(0.081)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.18)	ND(0.2)
PCB			
Total PCBs	ND(0.037)	ND(0.038)	ND(0.041)
Inorganic			
Arsenic	3.5	4.3	3.8
Beryllium	0.16 J	0.091 J	ND(0.19)
Cadmium	0.15	0.1 J	0.088 J
Chromium Total	8.2	4.4 J	3.2 J
Lead	7.3 J	4.1 J	4.1 J
Manganese	180	98	82
Nickel	8.9	5	3.9
Vanadium	9.2	6.9	3.9

RFI-36-05	0.8 - 2 (ft)	8 - 10 (ft)	16 - 18 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.042)	ND(0.042)	ND(0.045)
1,1-Dichloroethane	ND(0.042)	ND(0.042)	ND(0.045)
1,1-Dichloroethene	ND(0.042)	ND(0.042)	ND(0.045)
1,2-Dichloroethane	ND(0.042)	ND(0.042)	ND(0.045)
Benzene	ND(0.042)	ND(0.042)	ND(0.045)
Chloroethane	ND(0.18)	ND(0.18)	ND(0.19)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.042)	ND(0.045)
Ethylbenzene	ND(0.042)	ND(0.042)	ND(0.045)
Methylene chloride	ND(0.18 J)	ND(0.18 J)	ND(0.19 J)
Tetrachloroethene	ND(0.042)	ND(0.042)	ND(0.045)
Toluene	ND(0.042)	ND(0.042)	ND(0.045)
Trichloroethene	ND(0.042)	0.047	ND(0.045)
Vinyl chloride	ND(0.042)	ND(0.042)	ND(0.045)
Xylenes (total)	ND(0.084)	ND(0.085)	ND(0.089)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.18)	ND(0.18)
Inorganic			
Arsenic	3.4	5.3	2.5
Beryllium	NS	NS	NS
Cadmium	0.095	0.16	0.063
Chromium Total	6.8	12	5.9
Lead	6.1	12	4.9
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-04	0.6 - 2 (ft)	8 - 10 (ft)	18 - 20 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
1,1-Dichloroethane	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
1,1-Dichloroethene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
1,2-Dichloroethane	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Benzene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Chloroethane	ND(0.14)	ND(0.16)	ND(0.18) /ND(0.18)
cis-1,2-Dichloroethene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Ethylbenzene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Methylene chloride	ND(0.14 J)	ND(0.16 J)	ND(0.18 J) /ND(0.18)
Tetrachloroethene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042 J)
Toluene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Trichloroethene	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Vinyl chloride	ND(0.033)	ND(0.037)	ND(0.042) /ND(0.042)
Xylenes (total)	ND(0.065)	ND(0.073)	ND(0.084) /ND(0.084)
SVOC			
Benzo(a)pyrene	1.08	ND(0.19 J)	ND(0.2) /ND(0.21)
Inorganic			
Arsenic	5.6	4.8	2.7 /2.7
Beryllium	NS	NS	NS
Cadmium	0.15	0.13	0.038 /0.046
Chromium Total	16	9.4	3.5 /4.4
Lead	14	12	3.6 /4.2
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-BG-09	0 - 2 (ft)
Inorganic	
Arsenic	6.5 J
Beryllium	0.47
Cadmium	0.33 J
Chromium Total	16 J
Lead	45 J
Manganese	380
Nickel	19 J
Vanadium	22 J

RFI-36-32	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)	16 - 18 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,1-Dichloroethane	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,1-Dichloroethene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
1,2-Dichloroethane	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Benzene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Chloroethane	ND(0.17)	ND(0.17)	ND(0.15)	ND(0.15) /ND(0.15)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Ethylbenzene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Methylene chloride	ND(0.17)	ND(0.17)	ND(0.15)	ND(0.15) /ND(0.15)
Tetrachloroethene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Toluene	0.099	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Trichloroethene	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Vinyl chloride	ND(0.039)	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.036)
Xylenes (total)	0.061 J	ND(0.078)	ND(0.071)	ND(0.072) /ND(0.072)
SVOC				
Benzo(a)pyrene	ND(0.19 J)	ND(0.19 J)	ND(0.18 J)	ND(0.17) /ND(0.17)
PCB				
Total PCBs	0.05	ND(0.039)	ND(0.036)	ND(0.036) /ND(0.034)
Inorganic				
Arsenic	3.3 J	7.4 J	4 J	2.9 /3 J
Beryllium	0.18 J	0.37 J	0.068 J	0.059 J /ND(0.17)
Cadmium	0.11 J	0.17 J	0.1 J	0.084 J /0.062 J
Chromium Total	10 J	12 J	3.1 J	5.9 /3.1 J
Lead	15 J	10 J	4.3 J	3 J /3.1 J
Manganese	180 J	360 J	130 J	86 /94 J
Nickel	8.3 J	18 J	4.8 J	4 /4.2 J
Vanadium	7 J	17 J	4.8 J	3.6 /4 J

RFI-36-28	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)	14 - 16 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.042)	0.15 /0.092	ND(0.037)	ND(0.037)
1,1-Dichloroethane	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
1,1-Dichloroethene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
1,2-Dichloroethane	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Benzene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Chloroethane	ND(0.18)	ND(0.17) /ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Ethylbenzene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Methylene chloride	ND(0.18)	ND(0.17) /ND(0.16)	ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Toluene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Trichloroethene	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Vinyl chloride	ND(0.042)	ND(0.039) /ND(0.037)	ND(0.037)	ND(0.037)
Xylenes (total)	ND(0.084)	ND(0.077) /ND(0.075)	ND(0.074)	ND(0.074)
SVOC				
Benzo(a)pyrene	ND(0.2)	ND(0.18 J) /ND(0.18 J)	ND(0.18)	ND(0.17)
PCB				
Total PCBs	ND(0.038)	ND(0.036) /ND(0.036)	ND(0.035)	ND(0.034)
Inorganic				
Arsenic	2.3 J	3.5 J /3.2 J	4.3 J	5.7 J
Beryllium	ND(0.2)	0.21 J /0.16 J	ND(0.17)	0.14 J
Cadmium	0.077 J	0.18 J /0.75 J	0.074 J	0.18 J
Chromium Total	7.9 J	10 J /15 J	2.5 J	6.5 J
Lead	7.1 J	13 J /9.7 J	4.5 J	7.1 J
Manganese	97 J	200 J /240 J	110 J	220 J
Nickel	5.5 J	9.7 J /10 J	4 J	9.8 J
Vanadium	4.3 J	10 J /8.9 J	3.6 J	8.9 J

RFI-36-49	1 - 3 (ft)	7 - 9 (ft)	17 - 19 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.039)	ND(0.037)
1,1-Dichloroethane	0.036 J	ND(0.039)	ND(0.037)
1,1-Dichloroethene	ND(0.037)	ND(0.039)	ND(0.037)
1,2-Dichloroethane	ND(0.037)	ND(0.039)	ND(0.037)
Benzene	ND(0.037)	ND(0.039)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.039)	ND(0.037)
Ethylbenzene	ND(0.037)	ND(0.039)	ND(0.037)
Methylene chloride	0.15 J	0.13 J	0.15 J
Tetrachloroethene	ND(0.037)	ND(0.039)	ND(0.037)
Toluene	ND(0.073)	ND(0.078)	ND(0.074)
Trichloroethene	ND(0.037)	ND(0.039)	ND(0.037)
Vinyl chloride	ND(0.073)	ND(0.078)	ND(0.074)
Xylenes (total)	ND(0.073)	ND(0.078)	0.046 J
SVOC			
Benzo(a)pyrene	ND(4.4 J)	ND(0.2)	ND(4.5 J)
PCB			
Total PCBs	ND(0.037)	ND(0.041)	0.039
Inorganic			
Arsenic	2.3 J	4.5 J	2.7 J
Beryllium	0.1 J	0.34 J	0.11 J
Cadmium	ND(0.071)	0.17	ND(0.048)
Chromium Total	8.8	15	4
Lead	5.8 J	11 J	3.4 J
Manganese	120	470	59
Nickel	5.9 J	13 J	4.1 J
Vanadium	8.3 J	24 J	8.3 J

RFI-36-33	0 - 2 (ft)	8 - 10 (ft)	16 - 18 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.04)	ND(0.036)
1,1-Dichloroethane	ND(0.038)	ND(0.04)	ND(0.036)
1,1-Dichloroethene	ND(0.038)	ND(0.04)	ND(0.036)
1,2-Dichloroethane	ND(0.038)	ND(0.04)	ND(0.036)
Benzene	ND(0.038)	ND(0.04)	ND(0.036)
Chloroethane	ND(0.16)	ND(0.17)	ND(0.15)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)	ND(0.036)
Ethylbenzene	ND(0.038)	ND(0.04)	ND(0.036)
Methylene chloride	ND(0.16)	ND(0.17)	ND(0.15)
Tetrachloroethene	ND(0.038)	ND(0.04)	ND(0.036)
Toluene	ND(0.038)	ND(0.04)	0.07
Trichloroethene	ND(0.038)	ND(0.04)	ND(0.036)
Vinyl chloride	ND(0.038)	ND(0.04)	ND(0.036)
Xylenes (total)	ND(0.076)	ND(0.081)	0.037 J
SVOC			
Benzo(a)pyrene	ND(0.19 J)	ND(0.19)	ND(0.17 J)
PCB			
Total PCBs	ND(0.037)	ND(0.038)	ND(0.034)
Inorganic			
Arsenic	8.2 J (RDC)	7.2 J	10 J (RDC)
Beryllium	0.46 J	0.47 J	0.055 J
Cadmium	0.67 J	0.41 J	0.056 J
Chromium Total	41 J	9.5 J	2.6 J
Lead	91 J	9.6 J	4 J
Manganese	250 J	350 J	140 J
Nickel	19 J	16 J	4.3 J
Vanadium	20 J	15 J	3.9 J

RFI-BG-08	0 - 2 (ft)
Inorganic	
Arsenic	8.5 J (RDC)
Beryllium	0.42
Cadmium	0.34 J
Chromium Total	16 J
Lead	30 J
Manganese	500
Nickel	14 J
Vanadium	24 J

RFI-36-27	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)	14 - 16 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
1,1-Dichloroethane	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
1,1-Dichloroethene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
1,2-Dichloroethane	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Benzene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Ethylbenzene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Toluene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.037)	ND(0.037)	ND(0.039)
Xylenes (total)	ND(0.076)	ND(0.075)	ND(0.073)	0.111 J
SVOC				
Benzo(a)pyrene	ND(0.18)	ND(0.18)	ND(0.18 J)	ND(0.19 J)
PCB				
Total PCBs	ND(0.037)	ND(0.038)	ND(0.034)	ND(0.038)
Inorganic				
Arsenic	3.4	3.9	1.7	3.3
Beryllium	0.15 J	0.21	0.071 J	0.11 J
Cadmium	0.16 J	0.079 J	0.076 J	0.088 J
Chromium Total	8.7 J	5.7 J	3.5 J	4.8 J
Lead	7.4 J	4.6 J	2.8 J	5.2 J
Manganese	130	130	95	140
Nickel	6.8	8.9	4.2	6.6
Vanadium	7.7	8.6	4.9	7.5

RFI-36-01	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	12.5 - 14.5 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
1,1-Dichloroethane	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
1,1-Dichloroethene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
1,2-Dichloroethane	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Benzene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Chloroethane	ND(0.17)	ND(0.17) /ND(0.17)	ND(0.1
cis-1,2-Dichloroethene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Ethylbenzene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Methylene chloride	ND(0.17)	ND(0.17) /ND(0.17)	ND(0.1
Tetrachloroethene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Toluene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Trichloroethene	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Vinyl chloride	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Xylenes (total)	ND(0.079)	ND(0.077) /ND(0.082)	ND(0.07
SVOC			
Benzo(a)pyrene	ND(0.19 J)	ND(0.19) /ND(0.2)	ND(0.1
PCB			
Total PCBs	ND(0.04)	ND(0.039) /ND(0.041)	ND(0.03
Inorganic			
Arsenic	5.5	3.2 /5.1	2
Beryllium	0.41	0.44 /0.45	0.088
Cadmium	0.29	0.13 /0.15	0.0
Chromium Total	12	18 /15	5
Lead	62 J	8.2 J /8.7 J	3
Manganese	270	390 /350	140
Nickel	13	24 /21	6
Vanadium	16	20 /23	9

RFI-36-26	0 - 2 (ft)	2 - 4 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
1,1-Dichloroethane	0.87	1.6	ND(0.038)	0.41
1,1-Dichloroethene	0.071 (RSVIA)	0.14 (RSVIA)	ND(0.038)	0.047
1,2-Dichloroethane	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
Benzene	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
Chloroethane	ND(0.16)	ND(0.15)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	0.21	ND(0.038)	0.053
Ethylbenzene	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
Methylene chloride	ND(0.16)	0.038 J	ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
Toluene	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.036)
Trichloroethene	ND(0.038)	0.16	ND(0.038)	0.085
Vinyl chloride	ND(0.038)	0.036	ND(0.038)	0.012
Xylenes (total)	ND(0.076)	ND(0.071)	ND(0.076)	ND(0.073)
SVOC				
Benzo(a)pyrene	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.18)
PCB				
Total PCBs	0.06	R	ND(0.036)	ND(0.036)
Inorganic				
Arsenic	3.3	4.6	2.4	2.7
Beryllium	ND(0.22)	ND(0.18)	0.072 J	ND(0.18)
Cadmium	0.083 J	0.11 J	0.068 J	0.13 J
Chromium Total	13 J	28	3.4 J	5.8 J
Lead	8.5 J	11 J	3.2 J	3.6 J
Manganese	160	210	91	110
Nickel	10	16	4.5	5.7
Vanadium	5.7	8.2	5.2	6.1

RFI-36-06	0.7 - 2 (ft)	6 - 8 (ft)	16 - 17 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.036)	ND(0.033)	ND(0.041)
1,1-Dichloroethane	0.04	ND(0.033)	ND(0.041)
1,1-Dichloroethene	ND(0.036)	ND(0.033)	ND(0.041)
1,2-Dichloroethane	ND(0.036)	ND(0.033)	ND(0.041)
Benzene	ND(0.036)	ND(0.033)	ND(0.041)
Chloroethane	ND(0.15)	ND(0.14)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.033)	ND(0.041)
Ethylbenzene	ND(0.036)	ND(0.033)	ND(0.041)
Methylene chloride	ND(0.15)	ND(0.14)	ND(0.17)
Tetrachloroethene	ND(0.036 J)	ND(0.033)	ND(0.041)
Toluene	0.097	ND(0.033)	ND(0.041)
Trichloroethene	0.05	ND(0.033)	ND(0.041)
Vinyl chloride	ND(0.036)	ND(0.033)	ND(0.041)
Xylenes (total)	ND(0.071)	ND(0.067)	ND(0.082)
SVOC			
Benzo(a)pyrene	ND(4.6)	ND(0.19)	ND(1.8)
Inorganic			
Arsenic	3	8.2 (RDC)	1.6
Beryllium	NS	NS	NS
Cadmium	0.18	0.16	0.11
Chromium Total	25	11	1.9
Lead	9	8.4	2.2
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-16	0.9 - 2 (ft)	8 - 10 (ft)	18 - 20 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.034)	ND(0.039)	ND(0.041)
1,1-Dichloroethane	0.066	ND(0.039)	ND(0.041)
1,1-Dichloroethene	ND(0.034)	ND(0.039)	ND(0.041 J)
1,2-Dichloroethane	ND(0.034)	ND(0.039)	ND(0.041)
Benzene	ND(0.034)	ND(0.039)	ND(0.041)
Chloroethane	ND(0.15)	ND(0.17)	ND(0.17)
cis-1,2-Dichloroethene	3.1	ND(0.039)	ND(0.041)
Ethylbenzene	ND(0.034)	ND(0.039)	ND(0.041)
Methylene chloride	ND(0.15)	ND(0.17)	ND(0.17)
Tetrachloroethene	ND(0.034 J)	ND(0.039 J)	ND(0.041 J)
Toluene	0.31	ND(0.039)	0.043
Trichloroethene	1.5	ND(0.039)	0.053
Vinyl chloride	ND(0.034)	ND(0.039)	ND(0.041)
Xylenes (total)	ND(0.068)	ND(0.078)	ND(0.082)
SVOC			
Benzo(a)pyrene	ND(1.8)	ND(0.18)	ND(1)
Inorganic			
Arsenic	3.2	3.1	8.1 (RDC)
Beryllium	NS	NS	NS
Cadmium	0.21	0.078	0.14
Chromium Total	32	4.2	9.1
Lead	19	3.4	5.9
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-25	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039)	ND(0.037)	ND(0.042)
1,1-Dichloroethane	ND(0.039)	ND(0.037)	ND(0.042)
1,1-Dichloroethene	ND(0.039)	ND(0.037)	ND(0.042)
1,2-Dichloroethane	ND(0.039)	ND(0.037)	ND(0.042)
Benzene	ND(0.039)	ND(0.037)	ND(0.042)
Chloroethane	ND(0.17)	ND(0.16)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.037)	ND(0.042)
Ethylbenzene	ND(0.039)	ND(0.037)	ND(0.042)
Methylene chloride	ND(0.17)	ND(0.16)	ND(0.18)
Tetrachloroethene	ND(0.039)	ND(0.037)	ND(0.042)
Toluene	ND(0.039)	ND(0.037)	ND(0.042)
Trichloroethene	ND(0.039)	ND(0.037)	ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.037)	ND(0.042)
Xylenes (total)	ND(0.078)	ND(0.073)	ND(0.084)
SVOC			
Benzo(a)pyrene	ND(0.19 J)	0.152 J	ND(0.2)
PCB			
Total PCBs	R	ND(0.036)	ND(0.041)
Inorganic			
Arsenic	7.8 (RDC)	3.5	3.8
Beryllium	ND(0.15)	0.086 J	0.13 J
Cadmium	0.16 J	0.066 J	0.13 J
Chromium Total	28 J	3.2 J	5.1 J
Lead	11 J	4 J	4.9 J
Manganese	380	91	160
Nickel	23	5.1	8
Vanadium	19	5.9	9.7

RFI-BG-07	0 - 2 (ft)
Inorganic	
Arsenic	9.9 J (RDC)
Beryllium	0.72
Cadmium	0.97 J
Chromium Total	35 J
Lead	150 J
Manganese	610
Nickel	20 J
Vanadium	23 J

RFI-36-15	0.8 - 2 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.035)	ND(0.036)	ND(0.041)
1,1-Dichloroethane	ND(0.035)	ND(0.036)	0.057
1,1-Dichloroethene	ND(0.035)	ND(0.036)	ND(0.041)
1,2-Dichloroethane	ND(0.035)	ND(0.036)	ND(0.041)
Benzene	ND(0.035)	ND(0.036)	ND(0.041)
Chloroethane	ND(0.15)	ND(0.15)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.035)	ND(0.036)	ND(0.041)
Ethylbenzene	ND(0.035)	ND(0.036)	ND(0.041)
Methylene chloride	ND(0.15)	ND(0.15)	ND(0.18)
Tetrachloroethene	ND(0.035)	ND(0.036)	ND(0.041 J)
Toluene	ND(0.035)	ND(0.036)	ND(0.041)
Trichloroethene	ND(0.035)	ND(0.036)	0.12
Vinyl chloride	ND(0.035)	ND(0.036)	ND(0.041)
Xylenes (total)	ND(0.07)	ND(0.071)	ND(0.082)
SVOC			
Benzo(a)pyrene	ND(3.6)	ND(0.18)	ND(4.1)
Inorganic			
Arsenic	4 J	3.3 J	39 J (IDC,RDC)
Beryllium	NS	NS	NS
Cadmium	0.08	0.067	0.085
Chromium Total	7.5	6.3	7.3
Lead	12	9.7	4.3
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

RFI-36-38	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	10.5 - 12.5 (ft)
VOC			
1,1,1-Trichloroethane	NS	NS	NS
1,1-Dichloroethane	NS	NS	NS
1,1-Dichloroethene	NS	NS	NS
1,2-Dichloroethane	NS	NS	NS
Benzene	ND(0.011)	ND(0.011)	ND(0.01) /ND(0.012)
Chloroethane	NS	NS	NS
cis-1,2-Dichloroethene	NS	NS	NS
Ethylbenzene	ND(0.011)	ND(0.011)	ND(0.01) /ND(0.012)
Methylene chloride	NS	NS	NS
Tetrachloroethene	NS	NS	NS
Toluene	ND(0.011)	ND(0.011)	ND(0.01 J) /0.083 J
Trichloroethene	NS	NS	NS
Vinyl chloride	NS	NS	NS
Xylenes (total)	ND(0.022)	ND(0.022)	ND(0.021) /0.043

RFI-36-39	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	10.5 - 12.5 (ft)
VOC			
1,1,1-Trichloroethane	NS	NS	NS
1,1-Dichloroethane	NS	NS	NS
1,1-Dichloroethene	NS	NS	NS
1,2-Dichloroethane	NS	NS	NS
Benzene	ND(0.011)	ND(0.011)	ND(0.01)
Chloroethane	NS	NS	NS
cis-1,2-Dichloroethene	NS	NS	NS
Ethylbenzene	ND(0.011)	ND(0.011)	ND(0.01)
Methylene chloride	NS	NS	NS
Tetrachloroethene	NS	NS	NS
Toluene	ND(0.011)	ND(0.011)	ND(0.01)
Trichloroethene	NS	NS	NS
Vinyl chloride	NS	NS	NS
Xylenes (total)	ND(0.022)	ND(0.022)	ND(0.021)

RFI-36-22	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
1,1-Dichloroethane	ND(0.036)	ND(0.038)	0.17 /ND(0.038)
1,1-Dichloroethene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Benzene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Chloroethane	ND(0.16)	ND(0.16 J)	ND(0.16) /ND(0.16)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Ethylbenzene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Methylene chloride	0.048 J	0.071 J	ND(0.16) /0.053 J
Tetrachloroethene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Toluene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Trichloroethene	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.038)	ND(0.037) /ND(0.038)
Xylenes (total)	ND(0.073)	ND(0.077)	ND(0.073) /ND(0.075)
SVOC			
Benzo(a)pyrene	ND(0.18 J)	ND(0.18)	ND(0.18) /ND(0.18)
PCB			
Total PCBs	ND(0.035)	ND(0.036)	ND(0.036) /ND(0.036)
Inorganic			
Arsenic	2.5	3.6	2.5 /2.9
Beryllium	0.096 J	0.15 J	0.11 J /0.099 J
Cadmium	0.099	0.06 J	0.074 J /0.1 J
Chromium Total	11	6.1	6.2 J /4.5
Lead	7.8 J	4.9 J	3 J /3.6 J
Manganese	180	93	92 /190
Nickel	10	7.9	5.4 /7.4
Vanadium	5.1	7.9	6.3 /5.9

RFI-36-25R	1 - 3 (ft)	7 - 9 (ft)	11 - 13 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.044)	ND(0.038)
1,1-Dichloroethane	ND(0.04)	ND(0.044)	ND(0.038)
1,1-Dichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
1,2-Dichloroethane	ND(0.04 J)	ND(0.044 J)	ND(0.038 J)
Benzene	ND(0.04)	ND(0.044)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.19)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Ethylbenzene	ND(0.04)	ND(0.044)	ND(0.038)
Methylene chloride	ND(0.17)	ND(0.19)	ND(0.16)
Tetrachloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Toluene	ND(0.04)	ND(0.044)	ND(0.038)
Trichloroethene	ND(0.04)	ND(0.044)	ND(0.038)
Vinyl chloride	ND(0.04)	ND(0.044)	ND(0.038)
Xylenes (total)	ND(0.079)	ND(0.087)	ND(0.076)
SVOC			
Benzo(a)pyrene	0.0418 J	ND(0.21)	ND(0.19)
PCB			
Total PCBs	ND(0.04)	ND(0.044)	ND(0.038)
Inorganic			
Arsenic	3 J	6.8 J	2.4 J
Beryllium	0.29 J	0.86 J	0.2 J
Cadmium	0.13 J	0.21 J	0.079 J
Chromium Total	13 J	21 J	4.7 J
Lead	10 J	12 J	3.9 J
Manganese	260 J	630 J	92 J
Nickel	10	32	5.4
Vanadium	13	26	9.9

RFI-36-24	0 - 2 (ft)	6 - 8 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
1,1-Dichloroethane	ND(0.036)	0.062	ND(0.035)	ND(0.038) /ND(0.036)
1,1-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
1,2-Dichloroethane	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Benzene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.15)	ND(0.16) /ND(0.16)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Ethylbenzene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.15)	ND(0.16) /ND(0.16)
Tetrachloroethene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Toluene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Trichloroethene	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Vinyl chloride	ND(0.036)	ND(0.037)	ND(0.035)	ND(0.038) /ND(0.036)
Xylenes (total)	ND(0.073)	ND(0.073)	ND(0.07)	ND(0.076) /ND(0.072)
SVOC				
Benzo(a)pyrene	ND(0.18 J)	ND(0.18)	ND(0.18 J)	ND(0.19 J) /ND(0.18 J)
PCB				
Total PCBs	0.08	ND(0.037)	ND(0.036)	ND(0.037) /0.028 J
Inorganic				
Arsenic	7.1	4.6	6.3	3.3 /4.8
Beryllium	0.54	0.16 J	ND(0.22)	0.16 J /0.099 J
Cadmium	0.47 J	0.14 J	0.2 J	0.18 J /0.14 J
Chromium Total	39 J	11 J	5.4 J	14 J /4.2 J
Lead	15 J	11 J	5.6 J	7.8 J /4 J
Manganese	330	210	300	150 /190
Nickel	22	11	7.6	10 /6
Vanadium	11	12	10	12 /8.1

RFI-36-23	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.037)	ND(0.037)
1,1-Dichloroethane	ND(0.037)	ND(0.037)	0.061
1,1-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.037)
1,2-Dichloroethane	ND(0.037)	ND(0.037)	ND(0.037)
Benzene	ND(0.037)	ND(0.037)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.037)
Ethylbenzene	ND(0.037)	ND(0.037)	ND(0.037)
Methylene chloride	0.04 J	0.062 J	0.039 J
Tetrachloroethene	ND(0.037)	ND(0.037)	ND(0.037)
Toluene	0.041	ND(0.037)	ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037)	ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037)	ND(0.037)
Xylenes (total)	ND(0.074)	ND(0.075)	ND(0.073)
SVOC			
Benzo(a)pyrene	ND(0.18 J)	ND(0.18)	ND(0.18 J)
PCB			
Total PCBs	ND(0.036)	ND(0.036)	ND(0.035)
Inorganic			
Arsenic	6.7	3.6	6.4
Beryllium	0.58	0.14 J	0.17 J
Cadmium	0.2	0.063 J	0.14
Chromium Total	21	6.4	8.8
Lead	21 J	5.3 J	8.2 J
Manganese	260 D	130	130
Nickel	23	8.4	12
Vanadium	21	6.9	13

RFI-36-12	0.8 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	0.35	ND(0.049)
1,1-Dichloroethane	1.4	ND(0.049)
1,1-Dichloroethene	ND(0.04)	ND(0.049)
1,2-Dichloroethane	ND(0.04)	ND(0.049)
Benzene	ND(0.04)	ND(0.049)
Chloroethane	ND(0.17)	ND(0.21)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.049)
Ethylbenzene	ND(0.04)	ND(0.049)
Methylene chloride	ND(0.17)	ND(0.21)
Tetrachloroethene	ND(0.04)	ND(0.049)
Toluene	ND(0.04)	ND(0.049)
Trichloroethene	ND(0.04)	ND(0.049)
Vinyl chloride	ND(0.04)	ND(0.049)
Xylenes (total)	ND(0.08)	ND(0.098)
SVOC		
Benzo(a)pyrene	ND(1.9)	ND(0.2)
Inorganic		
Arsenic	2.6 J	5.1 J
Beryllium	NS	NS
Cadmium	0.13	0.19
Chromium Total	20	6.1
Lead	22	5.2
Manganese	NS	NS
Nickel	NS	NS
Vanadium	NS	NS

RFI-36-07	0.8 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.043)	ND(2)
1,1-Dichloroethane	ND(0.037)	ND(0.043)	ND(2)
1,1-Dichloroethene	ND(0.037)	ND(0.043)	ND(2)
1,2-Dichloroethane	ND(0.037)	ND(0.043)	ND(2)
Benzene	ND(0.037)	ND(0.043)	240 (ISVIA,IVSIC,RDC,RSVIA,RVSIC)
Chloroethane	ND(0.16)	ND(0.18)	ND(8.5)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.043)	ND(2)
Ethylbenzene	ND(0.037)	ND(0.043)	680 D (IDC,ISVIA,RDC,RSVIA)
Methylene chloride	ND(0.16)	ND(0.18)	ND(8.5)
Tetrachloroethene	ND(0.037)	ND(0.043)	ND(2)
Toluene	ND(0.037)	0.19	4100 D (IDC,ISVIA,IVSIC,RDC,RSVIA,RVSIC)
Trichloroethene	ND(0.037)	ND(0.043)	ND(2)
Vinyl chloride	ND(0.037)	ND(0.043)	ND(2)
Xylenes (total)	ND(0.074)	ND(0.086)	2480 (IDC,ISVIA,RDC,RSVIA)
SVOC			
Benzo(a)pyrene	ND(9.3)	ND(0.18)	ND(38)
Inorganic			
Arsenic	4.8 J	3 J	3.8 J
Beryllium	NS	NS	NS
Cadmium	0.15	0.079	0.16
Chromium Total	13	3.8	7
Lead	8.7	3.5	4.8
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Vanadium	NS	NS	NS

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-05-19D — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION
  - ISVIA – INDUSTRIAL SOIL VOLATILIZATION TO INDOOR AIR
  - IISVSIC – INDUSTRIAL INFINITE SOURCE VOLATILE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ALL DEPTH IN FEET.
7. ND (0.039)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
8. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
9. NS–NOT ANALYZED FOR THIS CONSTITUENT.
10. J–ESTIMATED CONCENTRATION.
11. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
12. R–RESULT REJECTED DURING DATA VALIDATION.
13. RDC–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C03.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - BUILDING 36 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-3

RFI-36-46	2/25/2002	6/17/2002	3/25/2003	10/11/2004	6/9/2005
VOC					
1,1,1-Trichloroethane	0.033	0.059	0.072	0.044	0.018
1,1-Dichloroethane	0.055	0.11 D	0.049	0.016 J	0.021
1,1-Dichloroethene	0.012 (IDW,RDW)	0.021 (IDW,RDW)	0.013 (IDW,RDW)	0.005 J	0.004
1,2-Dichloroethane	0.00076 J	0.0011	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	0.0018	ND(0.001)	ND(0.001 J)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	0.00089 J	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0012	0.00059 J	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)
Inorganic					
Arsenic	NS	0.00048 J	ND(0.001)	NS	NS
Beryllium	NS	ND(0.0004 J)	ND(0.0004)	NS	NS
Cadmium	NS	0.00015 J	0.00024	NS	NS
Chromium Total	NS	0.00028 J	0.0014	NS	NS
Lead	NS	0.00014 J	ND(0.0004)	NS	NS
Manganese	NS	1.6 J (RDW)	1.2 (RDW)	NS	NS
Nickel	NS	0.018	0.015	NS	NS
Vanadium	NS	ND(0.0008)	ND(0.0008)	NS	NS

RFI-36-35	9/27/2001	6/18/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	0.27 D (IDW,RDW)
1,1-Dichloroethane	0.061	0.78 D
1,1-Dichloroethene	ND(0.001)	0.095 (IDW,RDW)
1,2-Dichloroethane	ND(0.001)	0.0093 (IDW,RDW)
Benzene	0.00052 J	0.0023
Chloroethane	0.05	1.1 D (RDW)
cis-1,2-Dichloroethene	0.011	0.017
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001 J)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	0.0027	ND(0.001)
Vinyl chloride	0.00083 J	0.093 (IDW,RDW)
Xylenes (total)	ND(0.002)	ND(0.002)
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Arsenic	0.02 J	0.015
Beryllium	0.0036 J	ND(0.0004 J)
Cadmium	0.0013 J	0.00027
Chromium Total	0.22 (IDW,RDW)	0.003
Lead	0.0025	0.0022
Manganese	0.85 J	1.1 (RDW)
Nickel	0.031	0.038
Vanadium	0.21 (IDW,RDW)	0.0025
Inorganic-Dissolved		
Arsenic	0.005	0.012
Beryllium	ND(0.0004)	ND(0.0004 J)
Cadmium	ND(0.0002)	0.00031
Chromium Total	0.0022	0.0054
Lead	0.0039	0.00091
Manganese	0.5 J	0.89 J (RDW)
Nickel	0.023	0.031
Vanadium	ND(0.0008)	0.0017

RFI-36-51	4/28/2003	6/10/2005
VOC		
1,1,1-Trichloroethane	0.3 D (IDW,RDW)	0.116
1,1-Dichloroethane	0.29 D	0.05
1,1-Dichloroethene	0.09 D (IDW,RDW)	0.014 (IDW,RDW)
1,2-Dichloroethane	0.0016	ND(0.001)
Benzene	0.0044	0.0008 J
Chloroethane	0.034	ND(0.001)
cis-1,2-Dichloroethene	0.004	0.0003 J
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	0.0011	0.0003 J
Vinyl chloride	0.01 (IDW,RDW)	0.001
Xylenes (total)	ND(0.002)	ND(0.001)
Inorganic		
Arsenic	0.00079 J	NS
Beryllium	0.00028 J	NS
Cadmium	0.00022	NS
Chromium Total	0.00025 J	NS
Lead	0.00048	NS
Manganese	0.42	NS
Nickel	0.013	NS
Vanadium	0.00015 J	NS

RFI-36-47	12/13/2002	3/25/2003	6/10/2005
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.0085	0.004	0.006
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.001)

RFI-36-45	2/20/2002	6/20/2002	3/25/2003	6/10/2005
VOC				
1,1,1-Trichloroethane	0.31 D (IDW,RDW)	0.19 D	0.22 D (IDW,RDW) /0.2 D	0.013 /0.013
1,1-Dichloroethane	0.75 D	0.44 D	1.1 D (RDW) /1.1 D (RDW)	0.121 /0.135
1,1-Dichloroethene	0.023 (IDW,RDW)	0.021 (IDW,RDW)	0.073 (IDW,RDW) /0.074 (IDW,RDW)	0.013 (IDW,RDW) /0.013 (IDW,RDW)
1,2-Dichloroethane	0.0037	0.0019	0.0053 (IDW,RDW) /0.0056 (IDW,RDW)	ND(0.001) /ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)
Chloroethane	0.074	0.11 D	0.11 D /0.1 D	0.005 J /0.004 J
cis-1,2-Dichloroethene	0.003	0.0024	0.011 /0.011	0.001 /0.001
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)
Methylene chloride	0.0021 J	ND(0.005)	ND(0.005) /ND(0.005)	ND(0.005) /ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001)	0.00057 J	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	0.074 (IDW,RDW)	0.065 (IDW,RDW)	0.11 D (IDW,RDW) /0.11 D (IDW,RDW)	ND(0.001) /ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002) /ND(0.002)	ND(0.001) /ND(0.001)
Inorganic				
Arsenic	NS	NS	NS	NS
Beryllium	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS
Chromium Total	NS	0.00082	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	0.51	NS	NS
Nickel	NS	NS	NS	NS
Vanadium	NS	ND(0.0008)	NS	NS
Inorganic-Dissolved				
Arsenic	0.0052 J	NS	NS	NS
Beryllium	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Nickel	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS

RFI-36-48	12/13/2002	2/28/2005	6/10/2005
1,1,1-Trichloroethane	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	0.003 /0.002	0.002
1,1-Dichloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	0.002 /0.001	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005) /ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Toluene	0.00086 J	ND(0.001) /ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	0.005 (IDW,RDW) /0.006 (IDW,RDW)	0.004 (IDW,RDW)
Xylenes (total)	ND(0.002)	ND(0.001) /ND(0.001)	ND(0.001)

RFI-36-17	9/28/2001	10/7/2004	2/28/2005	6/10/2005
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
1,1-Dichloroethane	ND(0.001)	0.022 J	0.79	0.292
1,1-Dichloroethene	ND(0.001)	0.001 J	0.01 (IDW,RDW)	0.004 J
1,2-Dichloroethane	ND(0.001)	ND(0.001)	0.002	ND(0.005)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Chloroethane	ND(0.001)	0.043 J	0.06	0.04
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	0.0004 J	ND(0.005)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Methylene chloride	ND(0.005)	0.001 J	0.001 J	ND(0.03)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Trichloroethene	0.00074 J	0.0003 J	0.002	ND(0.005)
Vinyl chloride	ND(0.001)	0.082 (IDW,RDW)	0.198 (IDW,RDW)	0.107 (IDW,RDW)
Xylenes (total)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.005)

RFI-36-18	9/28/2001	10/7/2004	6/8/2005
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	0.003 J	0.011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001 J)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.001)	ND(0.001)

RFI-36-44	2/20/2002	6/20/2002	3/25/2003	10/7/2004	6/8/2005
VOC					
1,1,1-Trichloroethane	0.051	0.033	0.042	0.048	0.028
1,1-Dichloroethane	0.03	0.025	0.037	0.033	0.029
1,1-Dichloroethene	0.0022	0.0017	0.0024	0.0008 J	0.001
1,2-Dichloroethane	0.00061 J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	0.012	0.0064	0.013	ND(0.001 J)	0.003
cis-1,2-Dichloroethene	0.00083 J	0.00073 J	0.0011	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0054 (IDW,RDW)	0.0031	0.0039	0.002	0.001
Vinyl chloride	0.002	0.0016	0.0021 (IDW,RDW)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)
Inorganic					
Arsenic	NS	0.0011 J	NS	NS	NS
Beryllium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Inorganic-Dissolved					
Arsenic	0.0047 J	NS	NS	NS	NS
Beryllium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS

RFI-36-55	7/6/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	0.001 J
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.001)

RFI-36-53	4/4/2005	6/10/2005
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.003	0.001
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	0.009 J	0.007 J
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Ethylbenzene	0.004	0.003
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)
Toluene	0.0004 J	0.0003 J
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	0.013 (IDW,RDW)	0.013 (IDW,RDW)
Xylenes (total)	0.011	0.008

RFI-36-56	7/21/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	0.004
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.001)
Trichloroethene	0.0003 J
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.001)

RFI-36-19	9/28/2001	10/6/2004
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.001)

RFI-36-02	10/4/2001	6/13/2002	3/25/2003	10/13/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	NS	NS	0.0004 J
1,1-Dichloroethane	0.00076 J	NS	NS	0.004 J
1,1-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
1,2-Dichloroethane	ND(0.001)	NS	NS	ND(0.001)
Benzene	ND(0.001)	NS	NS	ND(0.001)
Chloroethane	ND(0.001)	NS	NS	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
Ethylbenzene	ND(0.001)	NS	NS	ND(0.001)
Methylene chloride	ND(0.005)	NS	NS	0.0004 J
Tetrachloroethene	ND(0.001 J)	NS	NS	ND(0.001)
Toluene	ND(0.001)	NS	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	NS	ND(0.001)
Xylenes (total)	ND(0.002)	NS	NS	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	0.085 J (IDW,RDW)	0.091 (IDW,RDW)	0.019	0.013
Beryllium	0.00074 J	ND(0.0004 J)	ND(0.0004)	NS
Cadmium	ND(0.0002)	ND(0.0002)	0.00014 J	NS
Chromium Total	0.001	0.0005 J	0.00043 J	NS
Lead	0.00051	0.00042 J	0.0013	NS
Manganese	1.2 J (RDW)	1.4 J (RDW)	0.64	NS
Nickel	0.13 (IDW,RDW)	0.092	0.066	0.02
Vanadium	ND(0.0008)	ND(0.0008)	ND(0.0008)	NS
Inorganic-Dissolved				
Arsenic	0.057 (IDW,RDW)	NS	NS	NS
Beryllium	ND(0.0004 J)	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS
Chromium Total	ND(0.0006 J)	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.78	NS	NS	NS
Nickel	0.077	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS

RFI-36-05	9/21/2001	12/16/2002	4/2/2003	6/10/2005
VOC				
1,1,1-Trichloroethane	0.48 D (IDW,RDW) /0.44 D (IDW,RDW)	0.19 D	0.12 D	0.209 (IDW,RDW)
1,1-Dichloroethane	0.49 D /0.45 D	0.33 D	0.24 D	0.404
1,1-Dichloroethene	0.014 (IDW,RDW) /0.014 (IDW,RDW)	0.0056	0.0025	0.009 (IDW,RDW)
1,2-Dichloroethane	0.0007 J /0.00076 J	ND(0.001)	ND(0.001)	ND(0.005)
Benzene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Chloroethane	0.0074 /0.0071	0.0082	0.017	ND(0.005)
cis-1,2-Dichloroethene	0.0045 /0.0043	0.0019	0.001	0.003 J
Ethylbenzene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Methylene chloride	ND(0.005) /ND(0.005)	ND(0.005)	ND(0.005)	ND(0.03)
Tetrachloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Toluene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Trichloroethene	0.0063 (IDW,RDW) /0.0062 (IDW,RDW)	0.0023	0.0014	ND(0.005)
Vinyl chloride	0.008 (IDW,RDW) /0.0076 (IDW,RDW)	0.00069 J	ND(0.001)	0.019 (IDW,RDW)
Xylenes (total)	ND(0.002) /ND(0.002)	ND(0.002)	ND(0.002)	ND(0.005)
SVOC				
Benzo(a)pyrene	ND(0.002) /ND(0.002 J)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0045	NS	NS
Beryllium	NS	ND(0.0004 J)	NS	NS
Cadmium	NS	0.00014 J	NS	NS
Chromium Total	NS	0.0022	NS	NS
Lead	NS	0.00096 J	NS	NS
Manganese	NS	1.4 J (RDW)	NS	NS
Nickel	NS	0.073 J	NS	NS
Vanadium	NS	0.00022 J	NS	NS
Inorganic-Dissolved				
Arsenic	0.0051 /0.0046	NS	NS	NS
Beryllium	ND(0.0004) /ND(0.0004)	NS	NS	NS
Cadmium	ND(0.0002) /ND(0.0002)	NS	NS	NS
Chromium Total	0.00083 /0.00072	NS	NS	NS
Lead	0.00061 /0.00063	NS	NS	NS
Manganese	1.1 (RDW) /1.1 (RDW)	NS	NS	NS
Nickel	0.069 /0.07	NS	NS	NS
Vanadium	ND(0.0008) /ND(0.0008)	NS	NS	NS

RFI-36-04	9/28/2001	6/18/2002	4/2/2003
VOC			
1,1,1-Trichloroethane	ND(0.001 J)	NS	NS
1,1-Dichloroethane	0.00082 J	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS
1,2-Dichloroethane	ND(0.001)	NS	NS
Benzene	ND(0.001)	NS	NS
Chloroethane	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	ND(0.001)	NS	NS
Ethylbenzene	ND(0.001)	NS	NS
Methylene chloride	ND(0.005)	NS	NS
Tetrachloroethene	ND(0.001)	NS	NS
Toluene	ND(0.001)	NS	NS
Trichloroethene	ND(0.001 J)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
Xylenes (total)	ND(0.002)	NS	NS
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.08 (IDW,RDW) /0.08 J (IDW,RDW)	0.087 (IDW,RDW)
Beryllium	NS	ND(0.0004 J) /0.00013 J	ND(0.0004)
Cadmium	NS	ND(0.0002) /0.00012 J	0.00019 J
Chromium Total	NS	0.00071 /0.00067	0.0033
Lead	NS	0.001 /0.00091	0.0018
Manganese	NS	0.44 /0.56 J	0.6 J
Nickel	NS	0.061 /0.061	0.04
Vanadium	NS	0.00021 J /ND(0.0008)	0.00065 J
Inorganic-Dissolved			
Arsenic	0.081 (IDW,RDW)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.33 J	NS	NS
Nickel	0.043	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-36-32	9/28/2001	12/19/2002	4/2/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS
1,2-Dichloroethane	ND(0.001)	NS	NS
Benzene	0.00053 J	NS	NS
Chloroethane	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	ND(0.001)	NS	NS
Ethylbenzene	ND(0.001)	NS	NS
Methylene chloride	ND(0.005)	NS	NS
Tetrachloroethene	ND(0.001)	NS	NS
Toluene	ND(0.001)	NS	NS
Trichloroethene	ND(0.001)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
Xylenes (total)	ND(0.002)	NS	NS
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.076 J (IDW,RDW)	0.037
Beryllium	NS	0.00045 J	ND(0.0004)
Cadmium	NS	0.0032 J	0.00016 J
Chromium Total	NS	0.025 J	0.0019
Lead	NS	0.022 J (IDW,RDW)	0.0002 J
Manganese	NS	2.2 J (RDW)	1.2 J (RDW)
Nickel	NS	0.034 J	0.021
Vanadium	NS	0.025 J (RDW)	ND(0.0008)
Inorganic-Dissolved			
Arsenic	0.05	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Lead	0.0018	NS	NS
Manganese	1.6 J (RDW)	NS	NS
Nickel	0.013	NS	NS
Vanadium	ND(0.0008)	NS	NS

36-FP1	9/27/2001	6/14/2002	3/27/2003	6/9/2005
VOC				
1,1,1-Trichloroethane	0.14 JD /0.15 JD	0.098 D	0.24 D (IDW,RDW)	0.186
1,1-Dichloroethane	0.31 JD /0.32 JD	0.11 D	0.5 D	0.401
1,1-Dichloroethene	0.0017 J /0.0016 J	0.0011	0.0056	ND(0.005)
1,2-Dichloroethane	ND(0.001 J) /ND(0.001 J)	0.0042	0.004	ND(0.005)
Benzene	2 JD (IDW,RDW) /1.9 JD (IDW,RDW)	1.3 D (IDW,RDW)	2 D (IDW,RDW)	0.711 (IDW,RDW)
Chloroethane	0.052 J /0.06 J	0.023	0.089	0.069 J
cis-1,2-Dichloroethene	0.0023 J /0.0022 J	0.0018	0.0025	ND(0.005)
Ethylbenzene	ND(0.001 J) /ND(0.001 J)	ND(0.001)	ND(0.001)	ND(0.005)
Methylene chloride	ND(0.005 J) /ND(0.005 J)	ND(0.005 J)	ND(0.005)	ND(0.03)
Tetrachloroethene	ND(0.001 J) /ND(0.001 J)	ND(0.001 J)	ND(0.001)	ND(0.005)
Toluene	ND(0.001 J) /ND(0.001 J)	ND(0.001)	ND(0.001)	ND(0.005)
Trichloroethene	0.035 JD (IDW,RDW) /0.034 JD (IDW,RDW)	0.018 (IDW,RDW)	0.018 (IDW,RDW)	0.005 J
Vinyl chloride	0.0031 J (IDW,RDW) /0.003 J (IDW,RDW)	0.0013	0.0081 (IDW,RDW)	ND(0.005)
Xylenes (total)	ND(0.002) /ND(0.002)	ND(0.002)	ND(0.002)	ND(0.005)
SVOC				
Benzo(a)pyrene	ND(0.002) /ND(0.0021)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	0.058 J (IDW,RDW) /0.058 J (IDW,RDW)	0.033	0.054 (IDW,RDW)	NS
Beryllium	0.001 J /0.009 (IDW,RDW)	ND(0.0004 J)	ND(0.0004)	NS
Cadmium	0.00014 J /0.00044 J	0.00014 J	ND(0.0002)	NS
Chromium Total	0.0011 /0.0015	0.00043 J	0.0014	NS
Lead	0.00043 /0.00044	0.00047	0.00057	NS
Manganese	1.7 J (RDW) /2.1 (RDW)	1.3 J (RDW)	0.84	NS
Nickel	0.023 /0.025	0.012	0.027	NS
Vanadium	ND(0.0008) /ND(0.0008)	ND(0.0008)	ND(0.0008)	NS
Inorganic-Dissolved				
Arsenic	0.048 /0.048	NS	NS	NS
Beryllium	ND(0.0004) /ND(0.0004)	NS	NS	NS
Cadmium	ND(0.0002) /ND(0.0002)	NS	NS	NS
Chromium Total	ND(0.0006) /ND(0.0006)	NS	NS	NS
Lead	ND(0.0004) /ND(0.0004)	NS	NS	NS
Manganese	1.5 J (RDW) /1.5 J (RDW)	NS	NS	NS
Nickel	0.016 /0.016	NS	NS	NS
Vanadium	ND(0.0008) /ND(0.0008)	NS	NS	NS

36-121	9/27/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.0021)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	0.00072
Lead	ND(0.0004)
Manganese	0.77
Nickel	0.013
Vanadium	ND(0.0008)

RFI-36-27	2/20/2002
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	0.00083 J
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.076 (IDW,RDW)
Beryllium	0.03 J (IDW,RDW)
Cadmium	0.0022 J
Chromium Total	0.0099
Lead	0.0011 J
Manganese	0.27
Nickel	0.052
Vanadium	ND(0.0008)

36-FP2	9/28/2001	6/14/2002	3/25/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	0.00064 J	ND(0.001)
1,1-Dichloroethane	0.0023	0.0034	0.0051
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	0.0052 (IDW,RDW)	0.013 (IDW,RDW)
Benzene	4 D (IDW,RDW)	2.7 D (IDW,RDW)	4.5 D (IDW,RDW)
Chloroethane	0.017	0.021	0.0098
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001 J)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)
SVOC			
Benzo(a)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	0.17 J (IDW,RDW)	0.12 (IDW,RDW)	0.094 (IDW,RDW)
Beryllium	0.00064 J	ND(0.0004 J)	ND(0.0004)
Cadmium	0.00017 J	ND(0.0002)	ND(0.0002)
Chromium Total	0.0011	0.00072	0.00047 J
Lead	0.00035 J	0.00027 J	0.00026 J
Manganese	0.15 J	0.14 J	0.11
Nickel	0.017	0.0084	0.0086
Vanadium	ND(0.0008)	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved			
Arsenic	0.12 (IDW,RDW)	0.12 (IDW,RDW)	NS
Beryllium	ND(0.0004)	ND(0.0004 J)	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	ND(0.0006)	0.00097	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	0.11 J	0.15	NS
Nickel	0.0096	0.0077	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS

36-FP5	9/28/2001	12/16/2002	4/2/2003
VOC			
1,1,1-Trichloroethane	0.019	0.0083	0.011
1,1-Dichloroethane	0.018	0.011	0.011
1,1-Dichloroethene	0.0026	0.00091 J	ND(0.001)
1,2-Dichloroethane	0.00085 J	0.00051 J	ND(0.001)
Benzene	0.0015	0.00091 J	ND(0.001)
Chloroethane	ND(0.001)	0.0026	0.0019
cis-1,2-Dichloroethene	0.00059 J	0.0006 J	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0012	ND(0.001)	ND(0.001)
Vinyl chloride	0.0025 (IDW,RDW)	0.0012	0.0014
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.037)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.078	NS	NS
Nickel	0.0064	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-36-25R	2/26/2002	6/19/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	NS
1,1-Dichloroethane	0.0018	NS
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Ethylbenzene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Toluene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
Xylenes (total)	0.00062 J	NS
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Arsenic	NS	0.0036
Beryllium	NS	ND(0.0004 J)
Cadmium	NS	ND(0.0002)
Chromium Total	NS	0.001
Lead	NS	0.00044
Manganese	NS	0.57
Nickel	NS	0.0074
Vanadium	NS	0.0005 J
Inorganic-Dissolved		
Arsenic	0.005 J	NS
Beryllium	0.0067 J (IDW,RDW)	NS
Cadmium	0.00056 J	NS
Chromium Total	0.016 J	NS
Lead	ND(0.0004 J)	NS
Manganese	0.63 J	NS
Nickel	0.012 J	NS
Vanadium	0.0027 J	NS

36-120	9/27/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	0.00067
Chromium Total	ND(0.0006)
Lead	ND(0.0004)
Manganese	0.13 J
Nickel	0.01
Vanadium	ND(0.0008)

RFI-36-23	2/20/2002	6/19/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.0017	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	0.00084 J	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	0.021
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)
Tetrachloroethene	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)
SVOC		
Benzo(a)pyrene	ND(0.0022)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Arsenic	NS	0.093 (IDW,RDW)
Beryllium	NS	ND(0.0004 J)
Cadmium	NS	ND(0.0002)
Chromium Total	NS	0.001
Lead	NS	0.00017 J
Manganese	NS	0.098
Nickel	NS	0.01
Vanadium	NS	0.0038
Inorganic-Dissolved		
Arsenic	0.077 (IDW,RDW)	NS
Beryllium	0.0017 J	NS
Cadmium	ND(0.0002)	NS
Chromium Total	0.007	NS
Lead	ND(0.0004)	NS
Manganese	0.058	NS
Nickel	0.012	NS
Vanadium	0.0017	NS

RFI-36-24	10/5/2001	6/19/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.068	0.0064
1,1-Dichloroethene	0.013 (IDW,RDW)	0.0016
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	0.0006 J	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.15 D (IDW,RDW)	0.012
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)
Tetrachloroethene	ND(0.001 J)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	0.099 (IDW,RDW)	ND(0.001)
Vinyl chloride	0.0046 (IDW,RDW)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic-Dissolved		
Arsenic	0.0016	NS
Beryllium	ND(0.0004 J)	NS
Cadmium	0.00032	NS
Chromium Total	ND(0.0006 J)	NS
Lead	0.00091	NS
Manganese	0.25	NS
Nickel	0.0036	NS
Vanadium	ND(0.0008)	NS

RFI-36-31	10/5/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	0.0061
1,1-Dichloroethene	0.0021
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001 J)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0047
Beryllium	ND(0.0004 J)
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006 J)
Lead	ND(0.0004)
Manganese	0.71
Nickel	0.0053
Vanadium	ND(0.0008)

RFI-36-12	9/28/2001
VOC	
1,1,1-Trichloroethane	0.0014
1,1-Dichloroethane	0.024
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	0.012
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	0.0017
Toluene	ND(0.001)
Trichloroethene	0.0012
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.0022)
PCB	
Total PCBs	ND(0.00011)
PCB-Dissolved	
Total PCBs	ND(0.00011)
Inorganic-Dissolved	
Arsenic	ND(0.0022)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006)
Lead	ND(0.0004)
Manganese	0.2
Nickel	0.004
Vanadium	ND(0.0008)

RFI-36-29	10/3/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	0.049
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	0.0021
Benzene	0.087 (IDW,RDW)
Chloroethane	0.0013
cis-1,2-Dichloroethene	0.0072
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.0017)
Trichloroethene	ND(0.001)
Vinyl chloride	0.004 (IDW,RDW)
Xylenes (total)	ND(0.002)

RFI-36-29R	2/26/2002	6/20/2002	4/3/2003
VOC			
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)	ND(0.001 J) /ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.024 /0.026	0.018 J /0.028 J	0.081
1,1-Dichloroethene	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
1,2-Dichloroethane	0.002 /0.0024	0.0017 /0.0027	0.0069 (IDW,RDW)
Benzene	0.045 J (IDW,RDW) /0.047 (IDW,RDW)	0.05 J (IDW,RDW) /0.085 J (IDW,RDW)	0.36 D (IDW,RDW)
Chloroethane	0.04 /0.042	0.026 J /0.04 J	0.093
cis-1,2-Dichloroethene	0.0058 J /0.0066 J	0.0043 J /0.0068 J	0.018
Ethylbenzene	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)	ND(0.005) /ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Toluene	0.0026 J /0.0029	0.00057 J /0.001	ND(0.001)
Trichloroethene	ND(0.001) /ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	0.058 (IDW,RDW) /0.06 (IDW,RDW)	0.029 J (IDW,RDW) /0.05 J (IDW,RDW)	0.078 D (IDW,RDW)
Xylenes (total)	0.0008 J /0.0008 J	ND(0.002) /ND(0.002)	ND(0.002)
SVOC			
Benzo(a)pyrene	0.00055 J /ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.085 (IDW,RDW) /0.1 (IDW,RDW)	0.14 (IDW,RDW)
Beryllium	NS	ND(0.0004) /ND(0.0004)	ND(0.0004)
Cadmium	NS	0.00025 /0.00027	ND(0.0002)
Chromium Total	NS	0.0017 /0.0016	0.001
Lead	NS	0.0019 /0.0021	0.0013
Manganese	NS	0.12 /0.15	0.1 J
Nickel	NS	0.013 /0.017	0.013
Vanadium	NS	0.001 /0.0012	0.0013
Inorganic-Dissolved			
Arsenic	0.079 (IDW,RDW) /0.081 (IDW,RDW)	NS	0.05
Beryllium	0.014 J (IDW,RDW) /0.011 J (IDW,RDW)	NS	ND(0.0004)
Cadmium	0.00099 J /0.00071 J	NS	ND(0.0002)
Chromium Total	0.013 /0.012	NS	0.0065
Lead	0.00047 /ND(0.0004)	NS	0.00018 J
Manganese	0.11 /0.11	NS	0.086
Nickel	0.015 /0.014	NS	0.0097
Vanadium	0.0015 J /0.0018 J	NS	0.0017

RFI-36-43	2/26/2002
VOC	
1,1,1-Trichloroethane	ND(1)
1,1-Dichloroethane	ND(1)
1,1-Dichloroethene	ND(1)
1,2-Dichloroethane	ND(1)
Benzene	6 D (IDW,RDW,RGVIA)
Chloroethane	ND(1)
cis-1,2-Dichloroethene	ND(1 J)
Ethylbenzene	1.3 D (IDW,RDW)
Methylene chloride	ND(5)
Tetrachloroethene	ND(1)
Toluene	20 D (IDW,RDW)
Trichloroethene	ND(1)
Vinyl chloride	ND(1)
Xylenes (total)	5

RFI-36-11	9/21/2001
VOC	
1,1,1-Trichloroethane	0.011
1,1-Dichloroethane	0.014
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)pyrene	ND(0.0022)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.00011)
Inorganic-Dissolved	
Arsenic	0.0047
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006)
Lead	ND(0.0004)
Manganese	0.33
Nickel	0.0041
Vanadium	ND(0.0008)

RFI-36-10	9/28/2001	3/27/2003
VOC		
1,1,1-Trichloroethane	0.021	NS
1,1-Dichloroethane	0.002	NS
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Ethylbenzene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Toluene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
Xylenes (total)	ND(0.002)	NS
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.00011)	NS
PCB-Dissolved		
Total PCBs	ND(0.00011)	NS
Inorganic		
Arsenic	NS	ND(0.001) /ND(0.001)
Beryllium	NS	ND(0.0004) /ND(0.0004)
Cadmium	NS	0.00024 /0.00023
Chromium Total	NS	0.0032 /0.0031
Lead	NS	0.00052 /0.00042
Manganese	NS	0.43 /0.44
Nickel	NS	0.013 /0.012
Vanadium	NS	ND(0.0008) /ND(0.0008)
Inorganic-Dissolved		
Arsenic	ND(0.001)	NS
Beryllium	ND(0.0004)	NS
Cadmium	0.00022	NS
Chromium Total	ND(0.0006)	NS
Lead	ND(0.0004)	NS
Manganese	0.72	NS
Nickel	0.0058	NS
Vanadium	ND(0.0008)	NS

RFI-36-08	9/27/2001	6/14/2002	3/25/2003	10/8/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
1,1-Dichloroethane	0.0021	0.0019	ND(0.001)	ND(0.01)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	0.0011	ND(0.01)
Benzene	0.59 D (IDW,RDW)	1.3 D (IDW,RDW)	0.13 D (IDW,RDW)	0.78 (IDW,RDW)
Chloroethane	0.00076 J	ND(0.001)	ND(0.001)	ND(0.01 J)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Ethylbenzene	0.43 D	1.2 D (IDW,RDW)	0.025	0.77 (IDW,RDW)
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)	0.01 J (IDW,RDW)
Tetrachloroethene	ND(0.001)	ND(0.001 J)	ND(0.001)	ND(0.01)
Toluene	2.8 D (IDW,RDW)	0.87 D	0.098 D	1.5 (IDW,RDW)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Xylenes (total)	2.75	3.3	0.34	2.5 J
SVOC				
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	NS	NS	0.013	NS
Beryllium	NS	NS	ND(0.0004)	NS
Cadmium	NS	NS	ND(0.0002)	NS
Chromium Total	NS	NS	0.00051 J	NS
Lead	NS	NS	0.0004 J	NS
Manganese	NS	NS	0.57	NS
Nickel	NS	NS	0.0048	NS
Vanadium	NS	NS	ND(0.0008)	NS
Inorganic-Dissolved				
Arsenic	0.039	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS
Chromium Total	ND(0.0006)	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.36 J	NS	NS	NS
Nickel	0.0047	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS

36-FP8	9/27/2001	6/17/2002	3/25/2003
VOC			
1,1,1-Trichloroethane	0.0018	0.001	ND(0.001)
1,1-Dichloroethane	0.0011	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001 J)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)
SVOC			
Benzo(a)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	0.014 J	0.0023	ND(0.001)
Beryllium	0.0023 J	ND(0.0004 J)	ND(0.0004)
Cadmium	0.0012 J	0.000079 J	0.0025
Chromium Total	0.0012	0.00029 J	0.0038
Lead	0.00051	0.00014 J	0.0002 J
Manganese	1.3 J (RDW)	0.29 J	1.2 (RDW)
Nickel	0.015	0.0025	0.014
Vanadium	ND(0.0008)	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved			
Arsenic	0.011	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	0.00078	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	1.1 J (RDW)	NS	NS
Nickel	0.009	NS	NS
Vanadium	ND(0.0008)	NS	NS

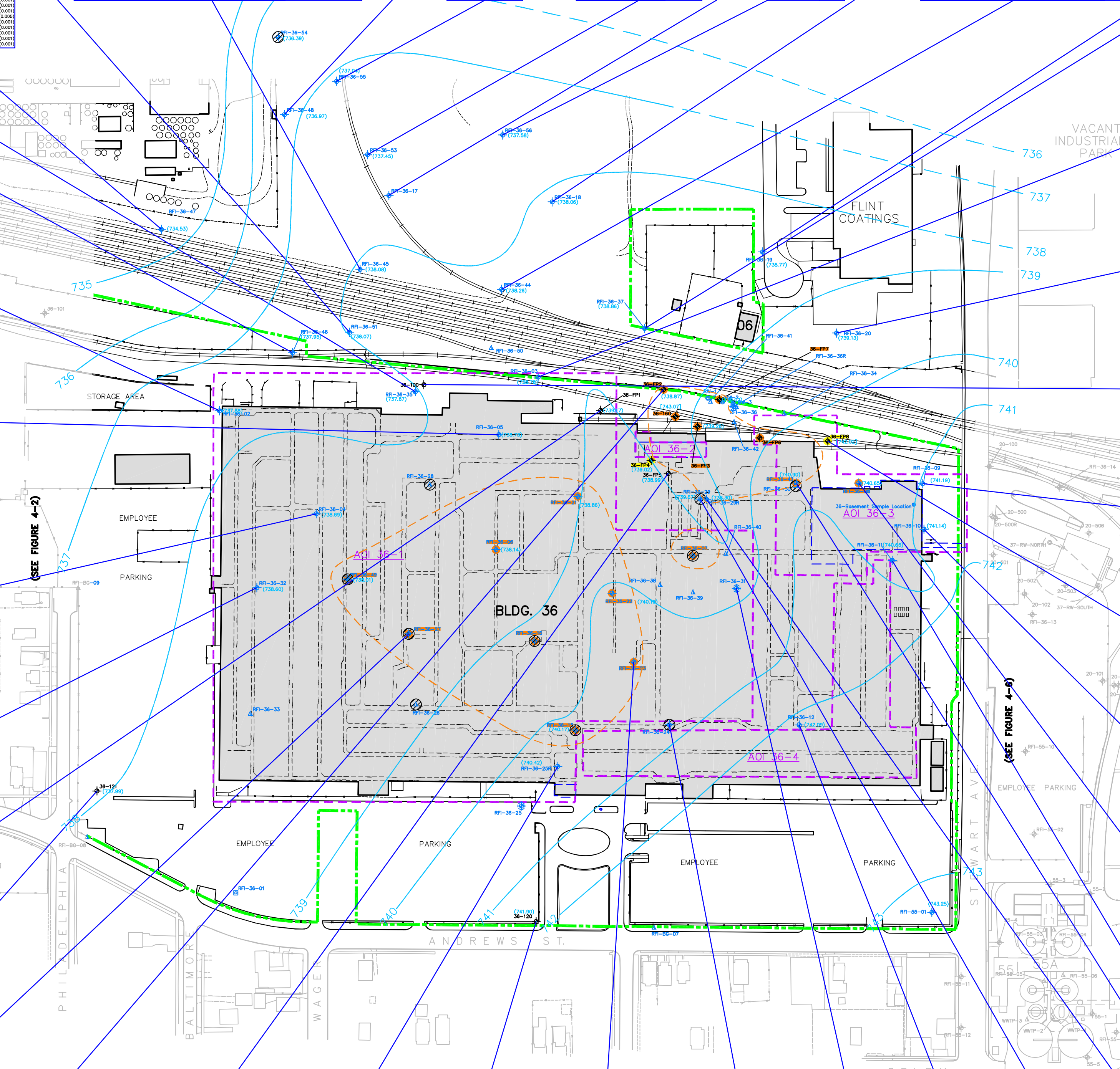
RFI-36-09	9/27/2001	6/14/2002	3/25/2003
VOC			
1,1,1-Trichloroethane	0.01	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS
1,2-Dichloroethane	ND(0.001)	NS	NS
Benzene	ND(0.001)	NS	NS
Chloroethane	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	ND(0.001)	NS	NS
Ethylbenzene	ND(0.001)	NS	NS
Methylene chloride	ND(0.005)	NS	NS
Tetrachloroethene	ND(0.001)	NS	NS
Toluene	ND(0.001)	NS	NS
Trichloroethene	ND(0.001)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
Xylenes (total)	ND(0.002)	NS	NS
SVOC			
Benzo(a)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.00011)	NS	NS
Inorganic			
Arsenic	0.005 J	0.00088 J	ND(0.001)
Beryllium	0.0081 J (IDW,RDW)	ND(0.0004 J)	ND(0.0004)
Cadmium	0.0031 J	0.00031	0.00038
Chromium Total	0.19 (IDW,RDW)	0.0035	0.006
Lead	0.00077	0.00057	0.00024 J
Manganese	0.035 J	0.0097 J	0.012
Nickel	0.027	0.0047	0.011
Vanadium	0.38 (IDW,RDW)	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved			
Arsenic	0.0059	0.0026 J	NS
Beryllium	ND(0.0004)	ND(0.0004 J)	NS
Cadmium	0.00099	0.00049	NS
Chromium Total	0.0028	0.0042	NS
Lead	ND(0.0004)	0.00076	NS
Manganese	0.023 J	0.012	NS
Nickel	0.015	0.0046	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS

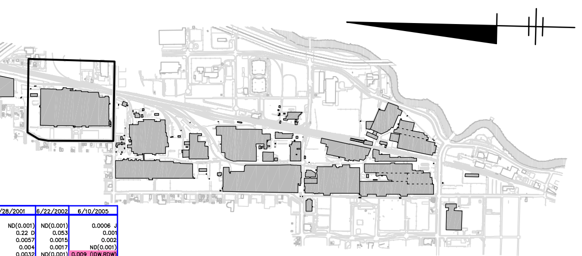
36-100	9/27/2001	6/13/2002	3/25/2003	6/10/2005
VOC				
1,1,1-Trichloroethane	0.95 JD (IDW,RDW)	0.74 JD (IDW,RDW)	0.32 D (IDW,RDW)	0.231 (IDW,RDW)
1,1-Dichloroethane	1.3 D (RDW)	0.78 JD	0.17 D	0.319
1,1-Dichloroethene	0.12 D (IDW,RDW)	0.11 JD (IDW,RDW)	0.023 (IDW,RDW)	0.016 (IDW,RDW)
1,2-Dichloroethane	ND(0.001)	0.003	ND(0.001)	ND(0.005)
Benzene	0.08 (IDW,RDW)	0.051 (IDW,RDW)	0.0032	0.008 (IDW,RDW)
Chloroethane	0.031	0.026	ND(0.001)	0.061
cis-1,2-Dichloroethene	0.037	0.033	0.003	0.004 J
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.03)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
Toluene	0.001	0.00078 J	ND(0.001)	ND(0.005)
Trichloroethene	0.0031	0.0036	0.0037	0.008 (IDW,RDW)
Vinyl chloride	0.026 (IDW,RDW)	0.0063 J (IDW,RDW)	ND(0.001)	0.009 (IDW,RDW)
Xylenes (total)	0.004	0.003	ND(0.002)	ND(0.005)
SVOC				
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	0.021	0.012	0.012	NS
Beryllium	0.00054	ND(0.0004 J)	ND(0.0004)	NS
Cadmium	0.00022	0.00023	0.00033	NS
Chromium Total	0.001	0.0008	0.0016	NS
Lead	0.00034 J	0.00033 J	0.00093	NS
Manganese	1.6 (RDW)	1.8 J (RDW)	0.63	NS
Nickel	0.082	0.055	0.033	NS
Vanadium	ND(0.0008)	ND(0.0008)	0.000097 J	NS
Inorganic-Dissolved				
Arsenic	0.017	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS
Chromium Total	0.00068 J	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	1.5 (RDW)	NS	NS	NS
Nickel	0.06	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS

RFI-36-20	9/28/2001	6/22/2002	10/6/2004
VOC			
1,1,1-Trichloroethane	ND(0.001)	NS	ND(0.001)
1,1-Dichloroethane	ND(0.001)	NS	ND(0.001)
1,1-Dichloroethene	ND(0.001)	NS	ND(0.001)
1,2-Dichloroethane	ND(0.001)	NS	ND(0.001)
Benzene	ND(0.001)	NS	ND(0.001)
Chloroethane	ND(0.001)	NS	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001)	NS	ND(0.001)
Ethylbenzene	ND(0.001)	NS	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)
Tetrachloroethene	ND(0.001)	NS	ND(0.001)
Toluene	ND(0.001)	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)
Xylenes (total)	ND(0.002)	NS	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
Inorganic			
Arsenic	NS	ND(0.001)	NS
Beryllium	NS	ND(0.0004)	NS
Cadmium	NS	ND(0.0002)	NS
Chromium Total	NS	0.00056 J	NS
Lead	NS	0.000089 J	NS
Manganese	NS	0.00054 J	NS
Nickel	NS	0.0028	NS
Vanadium	NS	ND(0.0008)	NS
Inorganic-Dissolved			
Arsenic	NS	ND(0.001)	NS
Beryllium	NS	ND(0.0004)	NS
Cadmium	NS	ND(0.0002)	NS
Chromium Total	NS	0.0013	NS
Lead	NS	ND(0.0004)	NS
Manganese	NS	0.00048 J	NS
Nickel	NS	0.0023	NS
Vanadium	NS	ND(0.0008)	NS

RFI-36-37	9/28/2001	6/22/2002	6/10/2005
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	0.0006 J
1,1-Dichloroethane	0.22 D	0.053	0.001
1,1-Dichloroethene	0.0057	0.0015	0.002
1,2-Dichloroethane	0.004	0.0017	ND(0.001)
Benzene	0.0032	ND(0.001)	0.009 (IDW,RDW)
Chloroethane	0.18 D	0.1	0.005 J
cis-1,2-Dichloroethene	0.0028	0.001	0.0004 J
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0027 (IDW,RDW)	0.00056 J	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.00011)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.0031)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.38	NS	NS
Nickel	0.0064	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-36-03	9/27/2001	6/18/2002	3/25/2003	6/9/2005
VOC				
1,1,1-Trichloroethane	0.042	0.019	0.054	0.002
1,1-Dichloroethane	0.0045	0.086	0.16 D	ND(0.001)
1,1-Dichloroethene	ND(0.001)	0.00076 J	0.003	ND(0.001)
1,2-Dichloroethane	ND(0.001)	0.0019	0.0011	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	0.0028	ND(0.001)
Chloroethane	ND(0.001)	0.016	0.019	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	0.00077 J	0.0012	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.00068 J	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	0.0019	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.0021)	NS	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	ND(0.0015)	ND(0.0019)	0.0028	NS
Beryllium	0.00074 J	ND(0.0004 J)	ND(0.0004)	NS
Cadmium	0.00031 J	0.00049	0.021 (IDW,RDW)	NS
Chromium Total	0.002	0.0012	0.0029	NS
Lead	0.00037 J	0.00019 J	0.0052 (IDW,RDW)	NS
Manganese	0.11 J	0.43	0.25	NS
Nickel	0.0063	0.02	0.019	NS
Vanadium	ND(0.0008)	ND(0.0008)	0.0023	NS
Inorganic-Dissolved				
Arsenic	0.0014	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Cadmium	0.00037	NS	NS	NS
Chromium Total	0.0014	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.12 J	NS	NS	NS
Nickel	0.0064	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS





LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERED)
- (739.13) — GROUNDWATER ELEVATION (IN FEET)
- [742.02] — ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED ON JULY 20, 2005.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. E–CONCENTRATION EXCEEDED THE LINEAR RANGE OF THE ANALYTICAL EQUIPMENT; HOWEVER THE RESULT WAS DEEMED ACCEPTABLE DURING DATA VALIDATION.
12. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
13. RGVIA – EXCEEDS MICHIGAN PART 201 RESIDENTIAL GROUNDWATER VOLATILIZATION TO INDOOR AIR CRITERIA
14. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

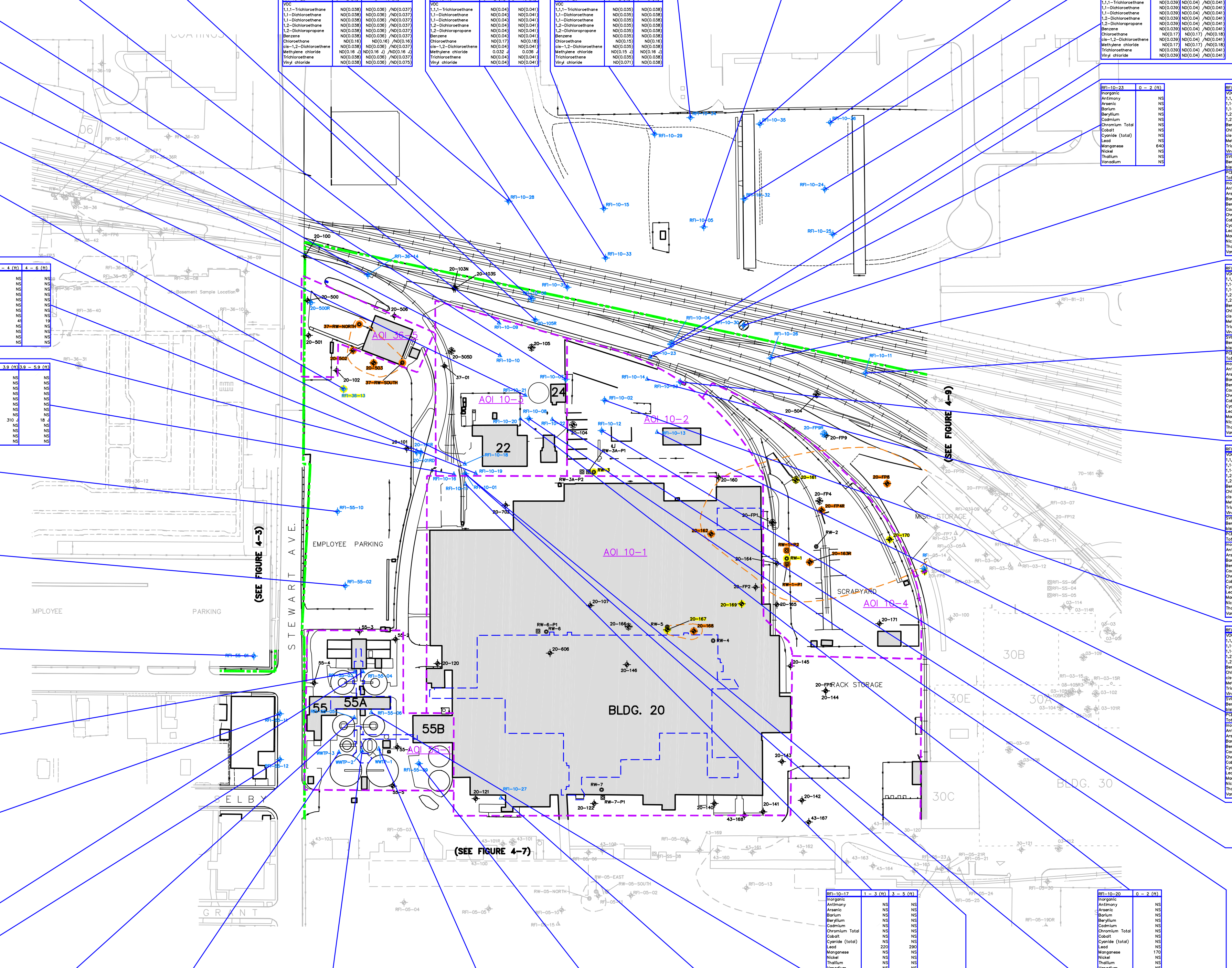
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C04.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDING 36 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-4



RFI-36-14	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.041)
1,1-Dichloroethane	ND(0.039)	ND(0.041)
1,1-Dichloroethene	ND(0.039)	ND(0.041)
1,2-Dichloroethane	ND(0.039)	ND(0.041)
1,2-Dichloropropane	ND(0.039)	ND(0.041)
Benzene	ND(0.039)	ND(0.041)
Chloroethane	ND(0.17)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.041)
Methylene chloride	ND(0.17 J)	ND(0.18 J)
Trichloroethene	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.039)	ND(0.041)
SVOC		
Benzo(a)pyrene	0.285 J	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.037)	ND(0.039)
PCB		
Total PCBs	0.028 J	ND(0.041)
Inorganic		
Antimony	0.056 J	R
Arsenic	5.8	5.2
Barium	110	19
Beryllium	0.34	0.16
Cadmium	1.4	0.083
Chromium Total	81	6.9
Cobalt	4.2	2.7
Cyanide (total)	0.5	ND(0.2)
Lead	120	4.8
Manganese	750 J	150 J
Nickel	31	8.3
Thallium	0.2 J	0.081 J
Vanadium	14	13

RFI-10-07	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	2.7	1.5 /1.5
1,1-Dichloroethane	0.32	0.081 /0.059
1,1-Dichloroethene	0.077 (RSVIA)	ND(0.038) /ND(0.039)
1,2-Dichloroethane	ND(0.037)	ND(0.038) /ND(0.039)
1,2-Dichloropropane	ND(0.037)	ND(0.038) /ND(0.039)
Benzene	ND(0.037)	ND(0.038) /ND(0.039)
Chloroethane	ND(0.16 J)	ND(0.16 J) /ND(0.17 J)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Methylene chloride	ND(0.16)	ND(0.16) /ND(0.17)
Trichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.038) /ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.18)	1.54 J /1.86 J
bis(2-Chloroethyl)ether	ND(0.035)	ND(0.036) /ND(0.036)
PCB		
Total PCBs	0.128	ND(0.038) /ND(0.039)
Inorganic		
Antimony	0.12 J	0.024 J /ND(0.17 J)
Arsenic	1.7	3.3 /3.3
Barium	11 J	10 J /13 J
Beryllium	0.11	0.11 /0.14
Cadmium	0.13	0.12 /0.15
Chromium Total	21 J	5.2 J /9.9 J
Cobalt	1.8	2.2 /2.2
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	12	6.5 /9.3
Manganese	150	160 /250
Nickel	9 J	5.6 J /6 J
Thallium	0.035 J	0.048 J /0.049 J
Vanadium	6.1	9.1 /8.8

RFI-10-09	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.039)
1,1-Dichloroethane	ND(0.039)
1,1-Dichloroethene	ND(0.039)
1,2-Dichloroethane	ND(0.039)
1,2-Dichloropropane	ND(0.039)
Benzene	ND(0.039)
Chloroethane	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)
Methylene chloride	ND(0.17)
Trichloroethene	0.34
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	2.75 J (RDC)
bis(2-Chloroethyl)ether	ND(0.18)
PCB	
Total PCBs	0.176
Inorganic	
Antimony	R
Arsenic	7.2
Barium	61 J
Beryllium	0.43
Cadmium	0.75
Chromium Total	50
Cobalt	3.3
Cyanide (total)	0.26
Lead	120 J
Manganese	920 J
Nickel	19
Thallium	0.14 J
Vanadium	14

20-105R	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	0.065	1.5 /0.077
1,1-Dichloroethane	ND(0.039)	ND(0.04) /ND(0.039)
1,1-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.039)
1,2-Dichloroethane	ND(0.039)	ND(0.04) /ND(0.039)
1,2-Dichloropropane	ND(0.039)	ND(0.04) /ND(0.039)
Benzene	ND(0.039)	0.035 J /ND(0.039)
Chloroethane	ND(0.17)	ND(0.17) /ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.039)
Methylene chloride	ND(0.17)	ND(0.17) /ND(0.17)
Trichloroethene	ND(0.039)	ND(0.04) /ND(0.039)
Vinyl chloride	ND(0.039)	ND(0.04) /ND(0.039)
SVOC		
Benzo(a)pyrene	0.062 J	ND(0.19) /ND(0.19)
bis(2-Chloroethyl)ether	ND(0.037)	ND(0.037) /ND(0.037)
PCB		
Total PCBs	ND(0.039)	ND(0.04) /ND(0.04)
Inorganic		
Antimony	R	R /R
Arsenic	5.8	5.5 /5.5
Barium	28	17 /15
Beryllium	0.19 J	0.15 J /0.16 J
Cadmium	0.24 J	0.1 J /0.11 J
Chromium Total	22 J	7.1 J /6.3 J
Cobalt	1.7	4.6 /4.7
Cyanide (total)	0.1 J	ND(0.2 J) /ND(0.2 J)
Lead	160	6.1 /6
Manganese	230	200 /170
Nickel	13 J	9.2 J /8.4 J
Thallium	0.11 J	0.085 J /0.065 J
Vanadium	7.4 J	13 J /11 J

RFI-10-06	4 - 6 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.042)	ND(0.038) /ND(0.039)
1,1-Dichloroethane	ND(0.042)	ND(0.038) /ND(0.039)
1,1-Dichloroethene	ND(0.042)	ND(0.038) /ND(0.039)
1,2-Dichloroethane	ND(0.042)	ND(0.038) /ND(0.039)
1,2-Dichloropropane	ND(0.042)	ND(0.038) /ND(0.039)
Benzene	ND(0.042)	ND(0.038) /ND(0.039)
Chloroethane	ND(0.18)	ND(0.16) /ND(0.17)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.038) /ND(0.039)
Methylene chloride	ND(0.18)	ND(0.16) /ND(0.17)
Trichloroethene	ND(0.042)	ND(0.038) /ND(0.039)
Vinyl chloride	ND(0.042)	ND(0.038) /ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.2)	ND(0.18) /ND(0.19)
bis(2-Chloroethyl)ether	ND(0.039)	ND(0.035) /ND(0.036)
PCB		
Total PCBs	ND(0.041)	ND(0.037) /ND(0.038)
Inorganic		
Antimony	ND(0.24 J)	ND(0.19 J) /ND(0.24 J)
Arsenic	6.7	2 /2
Barium	32 J	10 J /13 J
Beryllium	0.45	0.13 /0.16
Cadmium	0.08	0.04 /0.036
Chromium Total	13 J	4.7 J /5.3 J
Cobalt	7.7	1.8 /2
Cyanide (total)	R	R /R
Lead	8.2 J	2.9 J /3 J
Manganese	500 J	110 J /120 J
Nickel	15	4.7 /5.2
Thallium	0.12 J	0.045 J /0.049 J
Vanadium	22	8.4 /10

RFI-10-31	1 - 3 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
1,2-Dichloroethane	ND(0.038)
1,2-Dichloropropane	ND(0.038)
Benzene	ND(0.038)
Chloroethane	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)
Methylene chloride	ND(0.16)
Trichloroethene	ND(0.038)
Vinyl chloride	ND(0.076)
SVOC	
Benzo(a)pyrene	ND(1.9)
bis(2-Chloroethyl)ether	ND(0.36)
PCB	
Total PCBs	0.41 J
Inorganic	
Antimony	0.14 J
Arsenic	3.4
Barium	18
Beryllium	0.17 J
Cadmium	0.14
Chromium Total	7
Cobalt	2.4
Cyanide (total)	ND(0.2)
Lead	12
Manganese	110
Nickel	7.2
Thallium	0.083 J
Vanadium	10

RFI-10-33	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.05)	ND(0.06)
1,1-Dichloroethane	ND(0.05)	ND(0.06)
1,1-Dichloroethene	ND(0.05)	ND(0.06)
1,2-Dichloroethane	ND(0.05)	ND(0.06)
1,2-Dichloropropane	ND(0.05)	ND(0.06)
Benzene	0.05 J	ND(0.06)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.06)
Methylene chloride	ND(0.3)	ND(0.3)
Trichloroethene	ND(0.05)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)
SVOC		
Benzo(a)pyrene	0.06 J	ND(0.33)
bis(2-Chloroethyl)ether	ND(0.33)	ND(0.33)
PCB		
Total PCBs	0.04 J	ND(0.33)
Inorganic		
Antimony	0.07 J	ND(0.3)
Arsenic	2.52	1.32
Barium	32.9	6.8
Beryllium	0.19 J	0.06 J
Cadmium	0.47	0.1 J
Chromium Total	19.2	1.1 J
Cobalt	2.65	1.12
Cyanide (total)	0.3	ND(0.1)
Lead	157	3.4
Manganese	311	141
Nickel	7.5	2.3
Thallium	0.21 J	ND(0.5)
Vanadium	5.4	2.3

RFI-10-34	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethene	ND(0.05)	ND(0.05)
1,2-Dichloroethane	ND(0.05)	ND(0.05)
1,2-Dichloropropane	ND(0.05)	ND(0.05)
Benzene	ND(0.05)	ND(0.05)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.05)
Methylene chloride	ND(0.3)	ND(0.3)
Trichloroethene	ND(0.05)	ND(0.05)
Vinyl chloride	ND(0.1)	ND(0.1)
SVOC		
Benzo(a)pyrene	0.09 J	ND(0.33)
bis(2-Chloroethyl)ether	ND(0.33)	ND(0.33)
PCB		
Total PCBs	ND(0.33)	ND(0.33)
Inorganic		
Antimony	0.09 J	ND(0.3)
Arsenic	2.74	ND(0.64)
Barium	71.4	6.1
Beryllium	0.28 J	0.04 J
Cadmium	0.72	0.07 J
Chromium Total	7.5	1 J
Cobalt	3.88	1.27
Cyanide (total)	ND(0.1)	ND(0.1)
Lead	77.7	2.7
Manganese	376	116
Nickel	5.6	2
Thallium	ND(0.5)	ND(0.5)
Vanadium	5.5	1.4

RFI-10-05	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
1,1-Dichloroethane	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
1,1-Dichloroethene	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
1,2-Dichloroethane	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
1,2-Dichloropropane	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
Benzene	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
Chloroethane	ND(0.17 J)	ND(0.16 J) /ND(0.16)	ND(0.19 J)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
Methylene chloride	ND(0.17)	ND(0.16) /ND(0.16)	ND(0.19)
Trichloroethene	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
Vinyl chloride	ND(0.04)	ND(0.037) /ND(0.038)	ND(0.044)
SVOC			
Benzo(a)pyrene	NS	NS /ND(0.18)	NS
bis(2-Chloroethyl)ether	NS	NS /ND(0.036)	NS
PCB			
Total PCBs	NS	NS /ND(0.038)	NS
Inorganic			
Antimony	NS	NS /ND(0.37)	NS
Arsenic	NS	NS /ND(5.2)	NS
Barium	NS	NS /8	NS
Beryllium	NS	NS /0.1	NS
Cadmium	NS	NS /0.098	NS
Chromium Total	NS	NS /4.8	NS
Cobalt	NS	NS /2.4	NS
Cyanide (total)	NS	NS /ND(0.2)	NS
Lead	NS	NS /5.5	NS
Manganese	NS	NS /140	NS
Nickel	NS	NS /6.2	NS
Thallium	NS	NS /0.063 J	NS
Vanadium	NS	NS /8.4	NS

RFI-10-35	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethene	ND(0.05)	ND(0.05)
1,2-Dichloroethane	ND(0.05)	ND(0.05)
1,2-Dichloropropane	ND(0.05)	ND(0.05)
Benzene	ND(0.05)	ND(0.05)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.05)
Methylene chloride	ND(0.3)	ND(0.3)
Trichloroethene	ND(0.05)	ND(0.05)
Vinyl chloride	ND(0.1)	ND(0.1)
SVOC		
Benzo(a)pyrene	ND(0.33)	ND(0.33)
bis(2-Chloroethyl)ether	ND(0.33)	ND(0.33)
PCB		
Total PCBs	ND(0.33)	ND(0.33)
Inorganic		
Antimony	ND(0.3)	ND(0.3)
Arsenic	1.08	0.92
Barium	40.8	3.8
Beryllium	0.26 J	ND(0.5)
Cadmium	0.09 J	0.05 J
Chromium Total	3.4	0.9 J
Cobalt	5.94	0.84
Cyanide (total)	ND(0.1)	ND(0.1)
Lead	9.4	3.7
Manganese	391	73.4
Nickel	2.1	1.1
Thallium	ND(0.5)	ND(0.5)
Vanadium	5.3	0.8 J

RFI-10-36	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethane	ND(0.05)	ND(0.05)
1,1-Dichloroethene	ND(0.05)	ND(0.05)
1,2-Dichloroethane	ND(0.05)	ND(0.05)
1,2-Dichloropropane	ND(0.05)	ND(0.05)
Benzene	ND(0.05)	ND(0.05)
Chloroethane	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.05)
Methylene chloride	ND(0.3)	ND(0.3)
Trichloroethene	ND(0.05)	ND(0.05)
Vinyl chloride	ND(0.1)	ND(0.1)
SVOC		
Benzo(a)pyrene	ND(0.33)	ND(0.33)
bis(2-Chloroethyl)ether	ND(0.33)	ND(0.33)
PCB		
Total PCBs	ND(0.33)	ND(0.33)
Inorganic		
Antimony	ND(0.3)	ND(0.3)
Arsenic	1.28	1
Barium	37.8	6.9
Beryllium	0.2 J	0.06 J
Cadmium	0.22	ND(0.2)
Chromium Total	3.4	1.3 J
Cobalt	2.89	1.26
Cyanide (total)	ND(0.1)	ND(0.1)
Lead	33.4	3.4
Manganese	235	79
Nickel	2	1.2
Thallium	ND(0.5)	ND(0.5)
Vanadium	3.8	2

RFI-10-32	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.05)	ND(0.06)	ND(0.06)
1,1-Dichloroethane	ND(0.05)	ND(0.06)	ND(0.06)
1,1-Dichloroethene	ND(0.05)	ND(0.06)	ND(0.06)
1,2-Dichloroethane	ND(0.05)	ND(0.06)	ND(0.06)
1,2-Dichloropropane	ND(0.05)	ND(0.06)	ND(0.06)
Benzene	ND(0.05)	ND(0.06)	ND(0.06)
Chloroethane	ND(0.3)	ND(0.3)	ND(0.3)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.06)	ND(0.06)
Methylene chloride	ND(0.3)	ND(0.3)	ND(0.3)
Trichloroethene	ND(0.05)	ND(0.06)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)pyrene	0.05 J	ND(0.3)	ND(0.3)
bis(2-Chloroethyl)ether	ND(0.3)	ND(0.3)	ND(0.3)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Antimony	ND(0.5)	ND(0.5)	ND(0.5)
Arsenic	0.88 J	0.95 J	0.9 J
Barium	44.9 J	6.6 J	7.3 J
Beryllium	0.307	ND(0.1)	ND(0.1)
Cadmium	ND(0.13)	ND(0.1)	ND(0.09)
Chromium Total	4.28	1.95	2.17
Cobalt	5.19 J	1.48 J	1.43 J
Cyanide (total)	ND(0.1)	ND(0.1)	ND(0.1)
Lead	6.23	3.13	3.06
Manganese	327 J	126 J	122 J
Nickel	9.32 J	2.72	2.63
Thallium	ND(0.1)	ND(0.1)	ND(0.1)
Vanadium	6.3	2.25	2.32

RFI-10-28	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.036) /ND(0.037)
1,1-Dichloroethane	ND(0.038)	ND(0.036) /ND(0.037)
1,1-Dichloroethene	ND(0.038)	ND(0.036) /ND(0.037)
1,2-Dichloroethane	ND(0.038)	ND(0.036) /ND(0.037)
1,2-Dichloropropane	ND(0.038)	ND(0.036) /ND(0.037)
Benzene	ND(0.038)	ND(0.036) /ND(0.037)
Chloroethane	ND(0.16)	ND(0.16) /ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.036) /ND(0.037)
Methylene chloride	ND(0.16 J)	ND(0.16 J) /ND(0.16 J)
Trichloroethene	ND(0.038)	ND(0.036) /ND(0.037)
Vinyl chloride	ND(0.038)	ND(0.036) /ND(0.075)

RFI-10-15	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.04)	ND(0.041)
1,1-Dichloroethane	ND(0.04)	ND(0.041)
1,1-Dichloroethene	ND(0.04)	ND(0.041)
1,2-Dichloroethane	ND(0.04)	ND(0.041)
1,2-Dichloropropane	ND(0.04)	ND(0.041)
Benzene	ND(0.04)	ND(0.041)
Chloroethane	ND(0.17)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.041)
Methylene chloride	0.032 J	0.036 J
Trichloroethene	ND(0.04)	ND(0.041)
Vinyl chloride	ND(0.04)	ND(0.041)

RFI-10-29	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.035)	ND(0.038)
1,1-Dichloroethane	ND(0.035)	ND(0.038)
1,1-Dichloroethene	ND(0.035)	ND(0.038)
1,2-Dichloroethane	ND(0.035)	ND(0.038)
1,2-Dichloropropane	ND(0.035)	ND(0.038)
Benzene	ND(0.035)	ND(0.038)
Chloroethane	ND(0.15)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.035)	ND(0.038)
Methylene chloride	ND(0.15 J)	ND(0.16 J)
Trichloroethene	ND(0.035)	ND(0.038)
Vinyl chloride	ND(0.071)	ND(0.038)

RFI-10-24	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.04) /ND(0.041)
1,1-Dichloroethane	ND(0.039)	ND(0.04) /ND(0.041)
1,1-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.041)
1,2-Dichloroethane	ND(0.039)	ND(0.04) /ND(0.041)
1,2-Dichloropropane	ND(0.039)	ND(0.04) /ND(0.041)
Benzene	ND(0.039)	ND(0.04) /ND(0.041)
Chloroethane	ND(0.17)	ND(0.17) /ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.041)
Methylene chloride	ND(0.17)	ND(0.17) /ND(0.18)
Trichloroethene	ND(0.039)	ND(0.04) /ND(0.041)
Vinyl chloride	ND(0.039)	ND(0.04) /ND(0.041)

RFI-10-25	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.041)	ND(0.038)
1,1-Dichloroethane	ND(0.041)	ND(0.038)
1,1-Dichloroethene	ND(0.041)	ND(0.038)
1,2-Dichloroethane	ND(0.041)	ND(0.038)
1,2-Dichloropropane	ND(0.041)	ND(0.038)
Benzene	ND(0.041)	ND(0.038)
Chloroethane	ND(0.18)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.038)
Methylene chloride	ND(0.18)	ND(0.16)
Trichloroethene	ND(0.041)	ND(0.038)
Vinyl chloride	ND(0.041)	ND(0.038)
SVOC		
Benzo(a)pyrene	NS	ND(0.18)
bis(2-Chloroethyl)ether	NS	ND(0.036)
PCB		
Total PCBs	NS	ND(0.038)
Inorganic		
Antimony	NS	0.095 J
Arsenic	NS	9 (RDC)
Barium	NS	33
Beryllium	NS	1.9
Cadmium	NS	0.33
Chromium Total	NS	11
Cobalt	NS	4.3
Cyanide (total)	NS	ND(0.2)
Lead	NS	9.7
Manganese	NS	310
Nickel	NS	14
Thallium	NS	0.21
Vanadium	NS	18

RFI-10-04	3 - 4.7 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.042)
1,1-Dichloroethane	ND(0.042)
1,1-Dichloroethene	ND(0.042)
1,2-Dichloroethane	ND(0.042)
1,2-Dichloropropane	ND(0.042)
Benzene	ND(0.042)
Chloroethane	ND(0.18)
cis-1,2-Dichloroethene	ND(0.042)
Methylene chloride	ND(0.18)
Trichloroethene	ND(0.042)
Vinyl chloride	ND(0.042)
SVOC	
Benzo(a)pyrene	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.039)
PCB	
Total PCBs	ND(0.042)
Inorganic	
Antimony	R
Arsenic	6.8
Barium	46
Beryllium	0.54
Cadmium	0.11
Chromium Total	19
Cobalt	6.4
Cyanide (total)	0.047 J
Lead	21
Manganese	160 J
Nickel	20
Thallium	0.19 J
Vanadium	26

RFI-10-10	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	0.1
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
1,2-Dichloroethane	ND(0.038)
1,2-Dichloropropane	ND(0.038)
Benzene	0.12
Chloroethane	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)
Methylene chloride	ND(0.16)
Trichloroethene	ND(0.038)
Vinyl chloride	ND(0.038)
SVOC	
Benzo(a)pyrene	0.0982 J
bis(2-Chloroethyl)ether	ND(0.036)
PCB	
Total PCBs	ND(0.038)
Inorganic	
Antimony	R
Arsenic	8.2 (RDC)
Barium	49 J
Beryllium	1
Cadmium	0.19
Chromium Total	28
Cobalt	3
Cyanide (total)	0.081 J
Lead	33 J
Manganese	750 J
Nickel	14
Thallium	0.16 J
Vanadium	12

RFI-10-21	0 - 2 (ft)
Inorganic	
Antimony	NS
Arsenic	NS
Barium	NS
Beryllium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Cyanide (total)	NS
Lead	NS
Manganese	200
Nickel	NS
Thallium	NS
Vanadium	NS

RFI-36-13	1 - 3 (ft)	5 - 7 (ft)	9 - 11 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039)	ND(0.042)	ND(0.042)
1,1-Dichloroethane	ND(0.039)	ND(0.042)	ND(0.042)
1,1-Dichloroethene	ND(0.039)	ND(0.042)	ND(0.042)
1,2-Dichloroethane	ND(0.039)	ND(0.042)	ND(0.042)
1,2-Dichloropropane	ND(0.039)	ND(0.042)	ND(0.042)
Benzene	ND(0.039)	ND(0.042)	ND(0.042)
Chloroethane	ND(0.17)	ND(0.18 J)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.042)	ND(0.042)
Methylene chloride	ND(0.17)	ND(0.18)	ND(0.18)
Trichloroethene	ND(0.039)	0.03 J	ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.042)	ND(0.042)
SVOC			
Benzo(a)pyrene	2.81 J (RDC)	ND(0.2)	ND(0.21)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.039)	ND(0.04)
PCB			
Total PCBs	ND(0.038)	ND(0.042)	ND(0.042)
Inorganic			
Antimony	0.16 J	ND(0.21 J)	ND(0.24 J)
Arsenic	4.1	2.8	3.4
Barium	34 J	42 J	6.3 J
Beryllium	0.38	0.3	0.12
Cadmium	0.18	0.068	0.063
Chromium Total	22 J	10 J	4 J
Cobalt	3.3	3.7	2.2
Cyanide (total)	ND(0.2)	ND(0.2)	ND(0.2)
Lead	94	7.4	2.6
Manganese	260	72	92
Nickel	13 J	7.6 J	5 J
Thallium	0.13 J	0.15 J	0.069 J
Vanadium	13	20	6.8

RFI-10-18	1.3 - 3.3 (ft)	3.3 - 5.3 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.04)	ND(0.04)
1,1-Dichloroethane	ND(0.04)	ND(0.04)
1,1-Dichloroethene	ND(0.04)	ND(0.04)
1,2-Dichloroethane	ND(0.04)	ND(0.04)
1,2-Dichloropropane	ND(0.04)	ND(0.04)
Benzene	ND(0.04)	ND(0.04)
Chloroethane	0.15 J	0.32
cis-1,2-Dichloroethene	ND(0.04)	ND(0.04)
Methylene chloride	0.031 J	0.03 J
Trichloroethene	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.04)	ND(0.04)
SVOC		
Benzo(a)pyrene	ND(1.9 J)	ND(0.96 J)
bis(2-Chloroethyl)ether	ND(0.037)	ND(0.037)
PCB		
Total PCBs	0.18	0.107 J
Inorganic		
Antimony	R	0.079 J
Arsenic	3.6	3.5
Barium	76 J	120 J
Beryllium	0.13 J	0.14 J
Cadmium	0.29	0.75
Chromium Total	47 J	25 J
Cobalt	5.7	4.9
Cyanide (total)	0.92	1.2
Lead	61	120
Manganese	210	340
Nickel	18 J	19 J
Thallium	0.064 J	0.063 J
Vanadium	18	12

RFI-10-19	2 - 4 (ft)	4 - 6 (ft)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Barium	NS	NS
Beryllium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Cyanide (total)	NS	NS
Lead	41	19
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

20-101R	0 - 1.2 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.042)	ND(0.042)
1,1-Dichloroethane	ND(0.042)	ND(0.042)
1,1-Dichloroethene	ND(0.042)	ND(0.042)
1,2-Dichloroethane	ND(0.042)	ND(0.042)
1,2-Dichloropropane	ND(0.042)	ND(0.042)
Benzene	ND(0.042)	ND(0.042)
Chloroethane	ND(0.18 J)	ND(0.18 J)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.042)
Methylene chloride	ND(0.18)	ND(0.18)
Trichloroethene	ND(0.042)	ND(0.042)
Vinyl chloride	ND(0.042)	ND(0.042)
SVOC		
Benzo(a)pyrene	0.354	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.04)	ND(0.039)
PCB		
Total PCBs	0.014 J	ND(0.041)
Inorganic		
Antimony	0.046 J	ND(0.16 J)
Arsenic	2.4	10 (RDC)
Barium	46 J	55 J
Beryllium	0.27	0.49
Cadmium	0.45	0.13
Chromium Total	11 J	15 J
Cobalt	2.7	7
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	17	9
Manganese	150	120
Nickel	7 J	16 J
Thallium	0.079 J	0.14 J
Vanadium	17	22

RFI-55-10	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.038)
1,1-Dichloroethane	ND(0.039)	ND(0.038)
1,1-Dichloroethene	ND(0.039)	ND(0.038)
1,2-Dichloroethane	ND(0.039)	ND(0.038)
1,2-Dichloropropane	ND(0.039)	ND(0.038)
Benzene	ND(0.039)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)
Methylene chloride	ND(0.17)	ND(0.16)
Trichloroethene	0.36	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)pyrene	0.99 J	ND(0.18)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.036)
PCB		
Total PCBs	ND(0.039)	ND(0.038)
Inorganic		
Antimony	0.26 J	0.11 J
Arsenic	5.2 J	4.8 J
Barium	66	17
Beryllium	2.8	2.4
Cadmium	0.41	0.29
Chromium Total	43	7.2
Cobalt	3.1	2.7
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	100	3.5
Manganese	1200 J	390 J
Nickel	18 J	8.4 J
Thallium	0.13 J	0.11 J
Vanadium	15	13

RFI-10-16	1.9 - 3.9 (ft)	3.9 - 5.9 (ft)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Barium	NS	NS
Beryllium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Cyanide (total)	NS	NS
Lead	310 J	18 J
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

RFI-55-02	1 - 3 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.041)
1,1-Dichloroethane	ND(0.039)	ND(0.041)
1,1-Dichloroethene	ND(0.039)	ND(0.041)
1,2-Dichloroethane	ND(0.039)	ND(0.041)
1,2-Dichloropropane	ND(0.039)	ND(0.041)
Benzene	ND(0.039)	ND(0.041)
Chloroethane	ND(0.17)	ND(0.17 J)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.041)
Methylene chloride	ND(0.17 J)	ND(0.17)
Trichloroethene	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.039)	ND(0.041)
SVOC		
Benzo(a)pyrene	0.161 J	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.038)
PCB		
Total PCBs	0.045 J	ND(0.04)
Inorganic		
Antimony	1.1 J	ND(0.23 J)
Arsenic	4.4	3
Barium	44 J	13 J
Beryllium	0.29	0.12
Cadmium	0.31	0.067
Chromium Total	63 J	6.3 J
Cobalt	5.6	2.9
Cyanide (total)	0.065 J	ND(0.2)
Lead	180	3.7
Manganese	670	120
Nickel	33 J	7.1 J
Thallium	0.11 J	0.061 J
Vanadium	15	13

RFI-55-01	1 - 3 (ft)	5 - 7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.041)	ND(0.039)
1,1-Dichloroethane	ND(0.041)	ND(0.039)
1,1-Dichloroethene	ND(0.041)	ND(0.039)
1,2-Dichloroethane	ND(0.041)	ND(0.039)
1,2-Dichloropropane	ND(0.041)	ND(0.039)
Benzene	ND(0.041)	ND(0.039)
Chloroethane	ND(0.17 J)	ND(0.17 J)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.039)
Methylene chloride	ND(0.17)	ND(0.17)
Trichloroethene	ND(0.041)	ND(0.039)
Vinyl chloride	ND(0.041)	ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.2)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.038)	ND(0.037)
PCB		
Total PCBs	ND(0.04)	ND(0.04)
Inorganic		
Antimony	ND(0.23 J)	0.52 J
Arsenic	8.3 (RDC)	6.5
Barium	53 J	54 J
Beryllium	0.65	0.32
Cadmium	0.14	0.12
Chromium Total	16	13
Cobalt	7.5	6.1
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	9.4	9.1
Manganese	310 J	240 J
Nickel	18	15
Thallium	0.17 J	0.17 J
Vanadium	27	21

RFI-55-03	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.037)
1,1-Dichloroethane	ND(0.037)
1,1-Dichloroethene	ND(0.037)
1,2-Dichloroethane	ND(0.037)
1,2-Dichloropropane	ND(0.037)
Benzene	ND(0.037)
Chloroethane	ND(0.16 J)
cis-1,2-Dichloroethene	ND(0.037)
Methylene chloride	ND(0.16)
Trichloroethene	0.24 J
Vinyl chloride	ND(0.037)
SVOC	
Benzo(a)pyrene	ND(0.18)
bis(2-Chloroethyl)ether	ND(0.034)
PCB	
Total PCBs	0.05 J
Inorganic	
Antimony	0.17 J
Arsenic	4.7
Barium	18 J
Beryllium	0.15
Cadmium	0.079
Chromium Total	16 J
Cobalt	2.7
Cyanide (total)	ND(0.2)
Lead	10
Manganese	190
Nickel	9.3 J
Thallium	0.076 J
Vanadium	11

RFI-55-11	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.038)	ND(0.042)
1,1-Dichloroethane	ND(0.037)	ND(0.038)	ND(0.042)
1,1-Dichloroethene	ND(0.037)	ND(0.038)	ND(0.042)
1,2-Dichloroethane	ND(0.037)	ND(0.038)	ND(0.042)
1,2-Dichloropropane	ND(0.037)	ND(0.038)	ND(0.042)
Benzene	ND(0.037)	ND(0.038)	ND(0.042)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)	ND(0.042)
Methylene chloride	ND(0.16)	0.05 J	0.24
Trichloroethene	ND(0.037)	ND(0.038)	ND(0.042)
Vinyl chloride	ND(0.075)	ND(0.077)	ND(0.084)
SVOC			
Benzo(a)pyrene	0.731 J	0.13 J	0.0984 J
bis(2-Chloroethyl)ether	ND(0.035)	ND(0.036)	ND(0.04)
PCB			
Total PCBs	ND(0.038)	ND(0.039)	ND(0.042)
Inorganic			
Antimony	0.23 J	0.27 J	0.25 J
Arsenic	6.2	7.6	7.7 (RDC)
Barium	36 J	57 J	60 J
Beryllium	27 J	29 J	23 J
Cadmium	0.44 J	0.49 J	0.48 J
Chromium Total	12	15	15
Cobalt	4.9	7.1	7.1
Cyanide (total)	ND(0.2)	ND(0.2)	1.6 J
Lead	6.5 J	8.2 J	7.9 J
Manganese	NS	240 J	240 J
Nickel	14	19	19
Thallium	0.28	0.36	0.32
Vanadium	19	25	24

RFI-55-04	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037) /ND(0.037)	ND(0.041)
1,1-Dichloroethane	ND(0.037) /ND(0.037)	ND(0.041)
1,1-Dichloroethene	ND(0.037) /ND(0.037)	ND(0.041)
1,2-Dichloroethane	ND(0.037) /ND(0.037)	ND(0.041)
1,2-Dichloropropane	ND(0.037) /ND(0.037)	ND(0.041)
Benzene	ND(0.037) /ND(0.037)	ND(0.041)
Chloroethane	ND(0.16 J) /ND(0.16 J)	ND(0.18 J)
cis-1,2-Dichloroethene	ND(0.037) /ND(0.037)	ND(0.041)
Methylene chloride	ND(0.16) /ND(0.16)	ND(0.18)
Trichloroethene	0.22 J /0.17 J	0.096 J
Vinyl chloride	ND(0.037) /ND(0.037)	ND(0.041)
SVOC		
Benzo(a)pyrene	ND(0.18 J) /0.0488 J	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.034) /ND(0.035)	ND(0.039)
PCB		
Total PCBs	0.054 J /0.038 J	ND(0.041)
Inorganic		
Antimony	0.17 J /0.18 J	0.23 J
Arsenic	2.4 /2.4	6.6
Barium	13 J /13 J	45 J
Beryllium	0.12 /0.14	0.45
Cadmium	0.096 /0.12	0.11
Chromium Total	21 J /21 J	13 J
Cobalt	1.5 /1.7	5.6
Cyanide (total)	0.051 J /0.039 J	0.035 J
Lead	14 /15	30
Manganese	170 /200	150
Nickel	9 J /8.7 J	14 J
Thallium	0.42 /0.11 J	0.27
Vanadium	9.2 /9.2	22

RFI-55-12	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.036)	ND(0.036)	ND(0.038)
1,1-Dichloroethane	ND(0.036)	ND(0.036)	ND(0.038)
1,1-Dichloroethene	ND(0.036)	ND(0.036)	ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.036)	ND(0.038)
1,2-Dichloropropane	ND(0.036)	ND(0.036)	ND(0.038)
Benzene	ND(0.036)	ND(0.036)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.036)	ND(0.038)
Methylene chloride	ND(0.16)	0.036 J	0.034 J
Trichloroethene	ND(0.036)	ND(0.036)	ND(0.038)
Vinyl chloride	ND(0.073)	ND(0.073)	ND(0.076)
SVOC			
Benzo(a)pyrene	0.427 J	1.36 J	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.035)	ND(0.35)	ND(0.037)
PCB			
Total PCBs	ND(0.037)	ND(0.037)	ND(0.039)
Inorganic			
Antimony	0.24 J	0.51 J	0.23 J
Arsenic	6	6.5	6.6
Barium	23 J	23 J	57 J
Beryllium	25 J	32 J	21 J
Cadmium	0.47 J	0.83 J	0.44 J
Chromium Total	9.8	18	12
Cobalt	4.6	4.3	6.7
Cyanide (total)	2.9 J	6.3 J	1.1 J
Lead	6.6 J	7.8 J	7 J
Manganese	180 J	230 J	250 J
Nickel	14	16	19
Thallium	0.26	0.39	0.32
Vanadium	15	18	21

RFI-55-05	0 - 2 (ft)	8 - 10 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.036)	ND(0.038)
1,1-Dichloroethane	ND(0.036)	ND(0.038)
1,1-Dichloroethene	ND(0.036)	ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.038)
1,2-Dichloropropane	ND(0.036)	ND(0.038)
Benzene	ND(0.036)	ND(0.038)
Chloroethane	ND(0.16 J)	ND(0.16 J)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.038)
Methylene chloride	ND(0.16)	ND(0.16)
Trichloroethene	ND(0.036)	ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.038)
SVOC		
Benzo(a)pyrene	ND(0.18 J)	0.249
bis(2-Chloroethyl)ether	ND(0.035)	ND(0.036)
PCB		
Total PCBs	0.107	ND(0.038)
Inorganic		
Antimony	0.14 J	0.035 J
Arsenic	5.1	4.4
Barium	17 J	26 J
Beryllium	0.14	0.28
Cadmium	0.23	0.12
Chromium Total	12 J	15 J
Cobalt	3	3.5
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	9.7	9.6
Manganese	200	270
Nickel	12 J	11 J
Thallium	0.12 J	0.11 J
Vanadium	12	14

WWTP-3	0 - 2 (ft)	2 - 4 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037)	ND(0.038)
1,1-Dichloroethane	ND(0.037)	ND(0.038)
1,1-Dichloroethene	ND(0.037)	ND(0.038)
1,2-Dichloroethane	ND(0.037)	ND(0.038)
1,2-Dichloropropane	ND(0.037)	ND(0.038)
Benzene	ND(0.037)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)
Methylene chloride	ND(0.16)	ND(0.16)
Trichloroethene	ND(0.037)	ND(0.038)
Vinyl chloride	ND(0.037)	ND(0.038)
SVOC		
Benzo(a)pyrene	ND(0.18)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.18)	ND(0.19)
PCB		
Total PCBs	ND(0.036)	ND(0.037)
Inorganic		
Antimony	NS	NS
Arsenic	3.85	5.22
Barium	14	54.4
Beryllium	NS	NS
Cadmium	0.176	0.214
Chromium Total	6.62	14.7
Cobalt	NS	NS
Cyanide (total)	NS	NS
Lead	8.36	25.4
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

WWTP-2	0 - 2 (ft)	2 - 4 (ft)	8 - 10 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
1,1-Dichloroethane	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
1,1-Dichloroethene	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
1,2-Dichloroethane	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
1,2-Dichloropropane	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
Benzene	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
Chloroethane	ND(0.17) /ND(0.17)	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
Methylene chloride	ND(0.17) /ND(0.17)	ND(0.17)	ND(0.16)
Trichloroethene	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
Vinyl chloride	ND(0.04) /ND(0.039)	ND(0.04)	ND(0.037)
SVOC			
Benzo(a)pyrene	ND(0.19) /ND(0.19)	ND(0.19)	ND(0.18)
bis(2-Chloroethyl)ether	ND(0.19) /ND(0.19)	ND(0.19)	ND(0.18)
PCB			
Total PCBs	ND(0.038) /ND(0.037)	ND(0.038)	ND(0.036)
Inorganic			
Antimony	NS /NS	NS	NS
Arsenic	3.9 /4.61	3.64	1.71
Barium	13.6 /15.9	15.2	10.6
Beryllium	NS /NS	NS	NS
Cadmium	0.17 /0.146	0.146	0.0415
Chromium Total	6.65 /10.6	6.99	23.7
Cobalt	NS /NS	NS	NS
Cyanide (total)	NS /NS	NS	NS
Lead	6.94 /8.84	7.78	7.92
Manganese	NS /NS	NS	NS
Nickel	NS /NS	NS	NS
Thallium	NS /NS	NS	NS
Vanadium	NS /NS	NS	NS

WWTP-1	0 - 2 (ft)	2 - 4 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	0.066
1,1-Dichloroethane	ND(0.039)	0.094
1,1-Dichloroethene	ND(0.039)	ND(0.038)
1,2-Dichloroethane	ND(0.039)	ND(0.038)
1,2-Dichloropropane	ND(0.039)	ND(0.038)
Benzene	ND(0.039)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.039)	0.25
Methylene chloride	ND(0.17)	ND(0.16)
Trichloroethene	ND(0.039)	0.2
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)pyrene	ND(0.96)	ND(0.95)
bis(2-Chloroethyl)ether	ND(0.96)	ND(0.95)
PCB		
Total PCBs	ND(0.038)	ND(0.074)
Inorganic		
Antimony	NS	NS
Arsenic	1.84	5.01
Barium	14.3	47.4
Beryllium	NS	NS
Cadmium	0.235	0.183
Chromium Total	9.95	25.7
Cobalt	NS	NS
Cyanide (total)	NS	NS
Lead	11.1	21.9
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

RFI-55-06	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.037)
1,1-Dichloroethane	ND(0.037)
1,1-Dichloroethene	ND(0.037)
1,2-Dichloroethane	ND(0.037)
1,2-Dichloropropane	ND(0.037)
Benzene	ND(0.037)
Chloroethane	ND(0.16 J)
cis-1,2-Dichloroethene	ND(0.037)
Methylene chloride	ND(0.16)
Trichloroethene	ND(0.037)
Vinyl chloride	ND(0.037)
SVOC	
Benzo(a)pyrene	0.463 J
bis(2-Chloroethyl)ether	ND(0.035)
PCB	
Total PCBs	0.091
Inorganic	
Antimony	0.2 J
Arsenic	7.5
Barium	56 J
Beryllium	0.3
Cadmium	0.36
Chromium Total	15 J
Cobalt	4.9
Cyanide (total)	ND(0.2)
Lead	57
Manganese	440
Nickel	14 J
Thallium	0.18 J
Vanadium	18

RFI-10-27	1 - 3 (ft)	7 - 9 (ft)	9 - 11 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	0.053	ND(0.04)
1,1-Dichloroethane	ND(0.038)	ND(0.042)	ND(0.04)
1,1-Dichloroethene	ND(0.038)	ND(0.042)	ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.042)	ND(0.04)
1,2-Dichloropropane	ND(0.038)	ND(0.042)	ND(0.04)
Benzene	ND(0.038)	ND(0.042)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.18)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.042)	ND(0.04)
Methylene chloride	0.033 J	0.036 J	ND(0.17)
Trichloroethene	ND(0.038)	ND(0.042)	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.042)	ND(0.04)
SVOC			
Benzo(a)pyrene	ND(0.19 J)	ND(0.2)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.039)	ND(0.037)
PCB			
Total PCBs	ND(0.039)	ND(0.042)	ND(0.039)
Inorganic			
Antimony	0.33 J	0.031 J	0.1 J
Arsenic	3.7	8.4 (RDC)	3.8
Barium	9.1	62	12
Beryllium	0.12	0.87	0.2
Cadmium	0.12	0.39	0.11
Chromium Total	46	22	15
Cobalt	1.9	6.8	2.1
Cyanide (total)	ND(0.2)	ND(0.2)	ND(0.2)
Lead	220	11	5.4
Manganese	210	620	110
Nickel	28	16	5.3
Thallium	0.032 J	0.16 J	0.07 J
Vanadium	5.3	30	11

RFI-55-09	1 - 3 (ft)	9 - 11 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037)	ND(0.038) /ND(0.039)
1,1-Dichloroethane	ND(0.037)	ND(0.038) /ND(0.039)
1,1-Dichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
1,2-Dichloroethane	ND(0.037)	ND(0.038) /ND(0.039)
1,2-Dichloropropane	ND(0.037)	ND(0.038) /ND(0.039)
Benzene	ND(0.037)	ND(0.038) /ND(0.039)
Chloroethane	ND(0.16)	ND(0.16) /ND(0.17)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Methylene chloride	0.029 J	0.051 J /0.05 J
Trichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.038) /ND(0.039)
SVOC		
Benzo(a)pyrene	1.43 J	ND(0.18) /ND(0.19)
bis(2-Chloroethyl)ether	ND(0.035)	0.0252 J /ND(0.036)
PCB		
Total PCBs	1.41	ND(0.038) /ND(0.038)
Inorganic		
Antimony	ND(0.24 J)	ND(0.23 J) /ND(0.27 J)
Arsenic	5.4 J	3.9 J /4.1
Barium	92 J	11 J /14 J
Beryllium	1 J	0.15 J /0.19 J
Cadmium	0.6 J	0.11 J /0.12 J
Chromium Total	66 J	5.2 J /6 J
Cobalt	5.1 J	2.7 J /2.8 J
Cyanide (total)	0.078 J	ND(0.2) /0.0061 J
Lead	65 J	4.3 J /4.3 J
Manganese	1500 J	110 J /120 J
Nickel	23 J	6.4 J /7.7 J
Thallium	0.11 J	0.08 J /0.1 J
Vanadium	16 J	9.9 J /11 J

RFI-10-17	1 - 3 (ft)	3 - 5 (ft)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Barium	NS	NS
Beryllium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Cyanide (total)	NS	NS
Lead	220	290
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

RFI-10-01 (7-26-01)	1 - 3 (ft)	5 - 7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039) /ND(0.038)	ND(0.039)
1,1-Dichloroethane	0.057 /0.06	0.089
1,1-Dichloroethene	ND(0.039) /ND(0.038)	ND(0.039)
1,2-Dichloroethane	ND(0.039) /ND(0.038)	ND(0.039)
1,2-Dichloropropane	ND(0.039) /ND(0.038)	ND(0.039)
Benzene	ND(0.039) /ND(0.038)	ND(0.039)
Chloroethane	0.13 J /0.1 J	0.37 J
cis-1,2-Dichloroethene	ND(0.039) /ND(0.038)	ND(0.039)
Methylene chloride	ND(0.17) /ND(0.16)	ND(0.17 J)
Trichloroethene	ND(0.039) /ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.039) /ND(0.038)	ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.93 J) /ND(1.8 J)	ND(0.19 J)
bis(2-Chloroethyl)ether	ND(0.18) /ND(0.36)	ND(0.037)
PCB		
Total PCBs	0.302 /0.165 J	ND(0.04)
Inorganic		
Antimony	ND(2.1) /ND(3.1)	ND(3.6)
Arsenic	6 /5.4	8.1 (RDC)
Barium	200 /130	280
Beryllium	0.17 /0.18	0.19
Cadmium	0.51 /0.39	0.45
Chromium Total	35 /61	59
Cobalt	6.7 /6.6	8.8
Cyanide (total)	0.39 /0.39	0.67
Lead	180 J /2200 J (IDC,RDC)	380 J
Manganese	300 J /330 J	430 J
Nickel	36 /32	72
Thallium	0.089 J /0.1 J	0.091 J
Vanadium	16 /15	14

RFI-10-01 (7-20-01)	0.7 - 2.7 (ft)	9 - 11 (ft)
VOC		
1,1,1-Trichloroethane	0.12	ND(0.13)
1,1-Dichloroethane	0.38	0.6 J
1,1-Dichloroethene	ND(0.037)	ND(0.13)
1,2-Dichloroethane	ND(0.037)	ND(0.13)
1,2-Dichloropropane	ND(0.037)	ND(0.13)
Benzene	0.083	ND(0.13)
Chloroethane	ND(0.16)	ND(0.13)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.13)
Methylene chloride	ND(0.16)	ND(0.63 J)
Trichloroethene	ND(0.037)	ND(0.13)
Vinyl chloride	ND(0.037)	ND(0.13)
SVOC		
Benzo(a)pyrene	0.123 J	ND(49 J)
bis(2-Chloroethyl)ether	ND(0.035)	ND(49)
PCB		
Total PCBs	ND(0.037)	ND(0.99)
Inorganic		
Antimony	ND(0.23 J)	R
Arsenic	4.2	40 J (IDC,RDC)
Barium	26 J	4.5 J
Beryllium	0.22	ND(0.94)
Cadmium	0.36	0.33 J
Chromium Total	22 J	750 (IPSIC,RPSIC)
Cobalt	2.8	38
Cyanide (total)	R	0.14 J
Lead	43 J	71 J
Manganese	420 J	3000 (IPSIC)
Nickel	14	340
Thallium	0.082 J	ND(1.9)
Vanadium	8.6	44 J

RFI-10-08	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.042)
1,1-Dichloroethane	ND(0.038)	ND(0.042)
1,1-Dichloroethene	ND(0.038)	ND(0.042)
1,2-Dichloroethane	ND(0.038)	ND(0.042)
1,2-Dichloropropane	ND(0.038)	ND(0.042)
Benzene	ND(0.038)	ND(0.042)
Chloroethane	ND(0.16)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.042)
Methylene chloride	0.055 J	ND(0.18)
Trichloroethene	0.068	ND(0.042)
Vinyl chloride	ND(0.038)	ND(0.042)
SVOC		
Benzo(a)pyrene	0.295 J	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.039)
PCB		
Total PCBs	0.177	ND(0.041)
Inorganic		
Antimony	ND(0.23 J)	ND(0.22 J)
Arsenic	6.3	3.8
Barium	130 J	42 J
Beryllium	1.4 J	0.3 J
Cadmium	0.38 J	0.2 J
Chromium Total	98 J	21 J
Cobalt	4.9 J	5.2 J
Cyanide (total)	0.11 J	0.0073 J
Lead	75 J	16 J
Manganese	2500 J (IPSIC)	190 J
Nickel	21 J	11 J
Thallium	0.16 J	0.13 J
Vanadium	21 J	18 J

RFI-10-20	0 - 2 (ft)
Inorganic	
Antimony	NS
Arsenic	NS
Barium	NS
Beryllium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Cyanide (total)	NS
Lead	NS
Manganese	170
Nickel	NS
Thallium	NS
Vanadium	NS

RFI-10-23	0 - 2 (ft)
Inorganic	
Antimony	NS
Arsenic	NS
Barium	NS
Beryllium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Cyanide (total)	NS
Lead	NS
Manganese	640
Nickel	NS
Thallium	NS
Vanadium	NS

RFI-10-30	0 - 2 (ft)	2 - 4 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.04) /ND(0.04)	ND(0.038)
1,1-Dichloroethane	ND(0.04) /ND(0.04)	ND(0.038)
1,1-Dichloroethene	ND(0.04) /ND(0.04)	ND(0.038)
1,2-Dichloroethane	ND(0.04) /ND(0.04)	ND(0.038)
1,2-Dichloropropane	ND(0.04) /ND(0.04)	ND(0.038)
Benzene	0.091 /0.075	0.06
Chloroethane	ND(0.17) /ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.04) /ND(0.04)	ND(0.038)
Methylene chloride	ND(0.17) /ND(0.17)	ND(0.16)
Trichloroethene	ND(0.04) /ND(0.04)	ND(0.038)
Vinyl chloride	ND(0.079) /ND(0.08)	ND(0.076)
SVOC		
Benzo(a)pyrene	ND(2) /ND(2)	ND(1.9)
bis(2-Chloroethyl)ether	ND(0.38) /ND(0.38)	ND(0.36)
PCB		
Total PCBs	0.92 /1.14	0.53
Inorganic		
Antimony	0.42 /0.91	0.35
Arsenic	20 (RDC) /9.3 (RDC)	4.7
Barium	61 /83	28
Beryllium	0.52 J /0.61 J	0.23 J
Cadmium	0.69 /0.82	0.4
Chromium Total	23 /48	11
Cobalt	4.3 /5.3	2.8
Cyanide (total)	ND(0.2) /ND(0.2)	ND(0.2)
Lead	66 /70	28
Manganese	230 /410	160
Nickel	23 /38	12
Thallium	0.21 /0.2	0.12 J
Vanadium	19 /15	11

RFI-10-11	3 - 5 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.04)
1,1-Dichloroethane	ND(0.04)
1,1-Dichloroethene	ND(0.04)
1,2-Dichloroethane	ND(0.04)
1,2-Dichloropropane	ND(0.04)
Benzene	ND(0.04)
Chloroethane	ND(0.17)
cis-1,2-Dichloroethene	ND(0.04)
Methylene chloride	ND(0.17)
Trichloroethene	ND(0.04)
Vinyl chloride	ND(0.04)
SVOC	
Benzo(a)pyrene	ND(0.2)
bis(2-Chloroethyl)ether	ND(0.038)
PCB	
Total PCBs	ND(0.041)
Inorganic	
Antimony	R
Arsenic	4.4
Barium	9.3
Beryllium	0.1
Cadmium	0.13
Chromium Total	5.9
Cobalt	2.5
Cyanide (total)	ND(0.2)
Lead	6
Manganese	130 J
Nickel	6.9
Thallium	0.059 J
Vanadium	9.8

RFI-10-14	0.9 - 2.9 (ft)	6.9 - 8.9 (ft)
VOC		
1,1,1-Trichloroethane	0.15	ND(0.037)
1,1-Dichloroethane	2.9	0.055
1,1-Dichloroethene	ND(0.039)	ND(0.037)
1,2-Dichloroethane	ND(0.039)	ND(0.037)
1,2-Dichloropropane	ND(0.039)	ND(0.037)
Benzene	ND(0.039)	ND(0.037)
Chloroethane	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	2.1	0.041
Methylene chloride	ND(0.17 J)	ND(0.16 J)
Trichloroethene	2.6	0.061
Vinyl chloride	ND(0.039)	ND(0.037)
SVOC		
Benzo(a)pyrene	7.89 J (RDC)	ND(0.18)
bis(2-Chloroethyl)ether	ND(0.36)	ND(0.035)
PCB		
Total PCBs	4.76 (RDC)	0.069
Inorganic		
Antimony	0.079 J	R
Arsenic	6.7	3
Barium	260	7.7
Beryllium	1.2	0.12
Cadmium	0.9	0.057
Chromium Total	100	5
Cobalt	4.6 J	2.6 J
Cyanide (total)	2 J	0.0097 J
Lead	120	4.8
Manganese	1800 (IPSIC)	130
Nickel	39 J	5.4 J
Thallium	0.09 J	0.039 J
Vanadium	11	9

RFI-10-13	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.039)
1,1-Dichloroethane	ND(0.038)	ND(0.039)
1,1-Dichloroethene	ND(0.038)	ND(0.039)
1,2-Dichloroethane	ND(0.038)	ND(0.039)
1,2-Dichloropropane	ND(0.038 J)	ND(0.039 J)
Benzene	ND(0.038)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)
Methylene chloride	ND(0.16 J)	ND(0.17 J)
Trichloroethene	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.19)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.036)	ND(0.036)
PCB		
Total PCBs	ND(0.038)	ND(0.039)
Inorganic		
Antimony	ND(0.41)	ND(0.25)
Arsenic	3.8	2.6
Barium	81	7.3
Beryllium	0.34	0.095 J
Cadmium	0.44	0.06
Chromium Total	14	5
Cobalt	5.4	2.1
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	67 J	4.3 J
Manganese	370 J	100 J
Nickel	15	5.1
Thallium	0.15 J	0.079 J
Vanadium	18	9.6

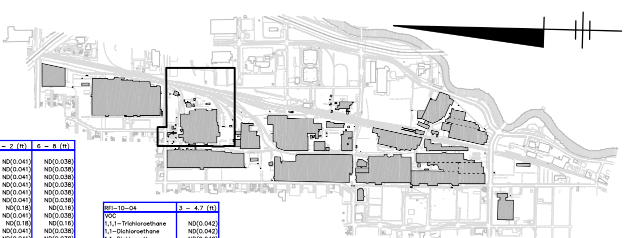
RFI-10-22	0 - 2 (ft)
Inorganic	
Antimony	NS /NS
Arsenic	NS /NS
Barium	NS /NS
Beryllium	NS /NS
Cadmium	NS /NS
Chromium Total	NS /NS
Cobalt	NS /NS
Cyanide (total)	NS /NS
Lead	NS /NS
Manganese	310 /380
Nickel	NS /NS
Thallium	NS /NS
Vanadium	NS /NS

RFI-10-26	4 - 6 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.037)
1,1-Dichloroethane	ND(0.037)
1,1-Dichloroethene	ND(0.037)
1,2-Dichloroethane	ND(0.037)
1,2-Dichloropropane	ND(0.037)
Benzene	ND(0.037)
Chloroethane	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)
Methylene chloride	0.028 J
Trichloroethene	ND(0.037)
Vinyl chloride	ND(0.037)
SVOC	
Benzo(a)pyrene	ND(0.18)
bis(2-Chloroethyl)ether	ND(0.035)
PCB	
Total PCBs	ND(0.037)
Inorganic	
Antimony	0.012 J
Arsenic	3.3
Barium	8.3
Beryllium	0.12
Cadmium	0.097
Chromium Total	3.8
Cobalt	1.7
Cyanide (total)	ND(0.2)
Lead	4.4
Manganese	120
Nickel	5.3
Thallium	0.065 J
Vanadium	7.4

RFI-10-03	0.6 - 2.6 (ft)	6.6 - 8.6 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.043)	ND(0.04)
1,1-Dichloroethane	ND(0.043)	ND(0.04)
1,1-Dichloroethene	ND(0.043)	ND(0.04)
1,2-Dichloroethane	ND(0.043)	ND(0.04)
1,2-Dichloropropane	ND(0.043)	ND(0.04)
Benzene	ND(0.043)	ND(0.04)
Chloroethane	ND(0.18)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.043)	ND(0.04)
Methylene chloride	ND(0.18 J)	ND(0.17 J)
Trichloroethene	ND(0.043)	ND(0.04)
Vinyl chloride	ND(0.043)	ND(0.04)
SVOC		
Benzo(a)pyrene	ND(0.21)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.041)	ND(0.037)
PCB		
Total PCBs	ND(0.043)	ND(0.04)
Inorganic		
Antimony	R	R
Arsenic	8.9 (RDC)	3.4
Barium	110	17
Beryllium	0.87	0.15
Cadmium	0.068	0.075
Chromium Total	24	6.2
Cobalt	12 J	2.6 J
Cyanide (total)	0.032 J	0.016 J
Lead	14	4.4
Manganese	210	140
Nickel	27 J	7.3 J
Thallium	0.22 J	0.053 J
Vanadium	32	10

RFI-10-02	0.8 - 2.8 (ft)	6.8 - 8.8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.038)	ND(0.039)
1,1-Dichloroethane	0.22	ND(0.039)
1,1-Dichloroethene	ND(0.038)	ND(0.039)
1,2-Dichloroethane	ND(0.038)	ND(0.039)
1,2-Dichloropropane	ND(0.038)	ND(0.039)
Benzene	ND(0.038)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)
Methylene chloride	ND(0.16 J)	ND(0.17 J)
Trichloroethene	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.039)
SVOC		
Benzo(a)pyrene	2.35 J (RDC)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.18)	ND(0.037)
PCB		
Total PCBs	ND(0.038)	ND(0.039)
Inorganic		
Antimony	0.039 J	0.46 J
Arsenic	3.6	2.3
Barium	53	21
Beryllium	0.25	0.16
Cadmium	0.38	0.087
Chromium Total	52	6.6
Cobalt	3.5 J	2.3 J
Cyanide (total)	0.1 J	0.029 J
Lead	52	4.4
Manganese	270	130
Nickel	20 J	6.2 J
Thallium	0.072 J	0.031 J
Vanadium	12	11

RFI-10-12	0.8 - 2.8 (ft)	6.8 - 8.8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037)	ND(0.04)
1,1-Dichloroethane	0.23	ND(0.04)
1,1-Dichloroethene	ND(0.037)	ND(0.04)
1,2-Dichloroethane	ND(0.037)	ND(0.04)
1,2-Dichloropropane	ND(0.037)	ND(0.04)
Benzene	ND(0.037)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.04)
Methylene chloride	ND(0.16 J)	ND(0.17 J)
Trichloroethene	ND(0.037)	ND(0.04)
Vinyl chloride	ND(0.037)	ND(0.04)
SVOC		
Benzo(a)pyrene	ND(0.91 J)	ND(0.19)
bis(2-Chloroethyl)ether	ND(0.18)	ND(0.037)
PCB		
Total PCBs	0.173	ND(0.04)
Inorganic		
Antimony	0.04 J	R
Arsenic	3	2.8
Barium	110	11
Beryllium	0.88	0.16
Cadmium	0.67	0.05
Chromium Total	75	6.6
Cobalt	3.6 J	2.5 J
Cyanide (total)	0.46 J	0.02 J
Lead	79	4.1
Manganese	1500	59
Nickel	25 J	5.6 J
Thallium	0.085 J	0.046 J
Vanadium	15	10



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ALL DEPTH IN FEET.
7. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
8. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
9. NS-NOT ANALYZED FOR THIS CONSTITUENT.
10. J-ESTIMATED CONCENTRATION.
11. RDC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.
12. RPSIC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

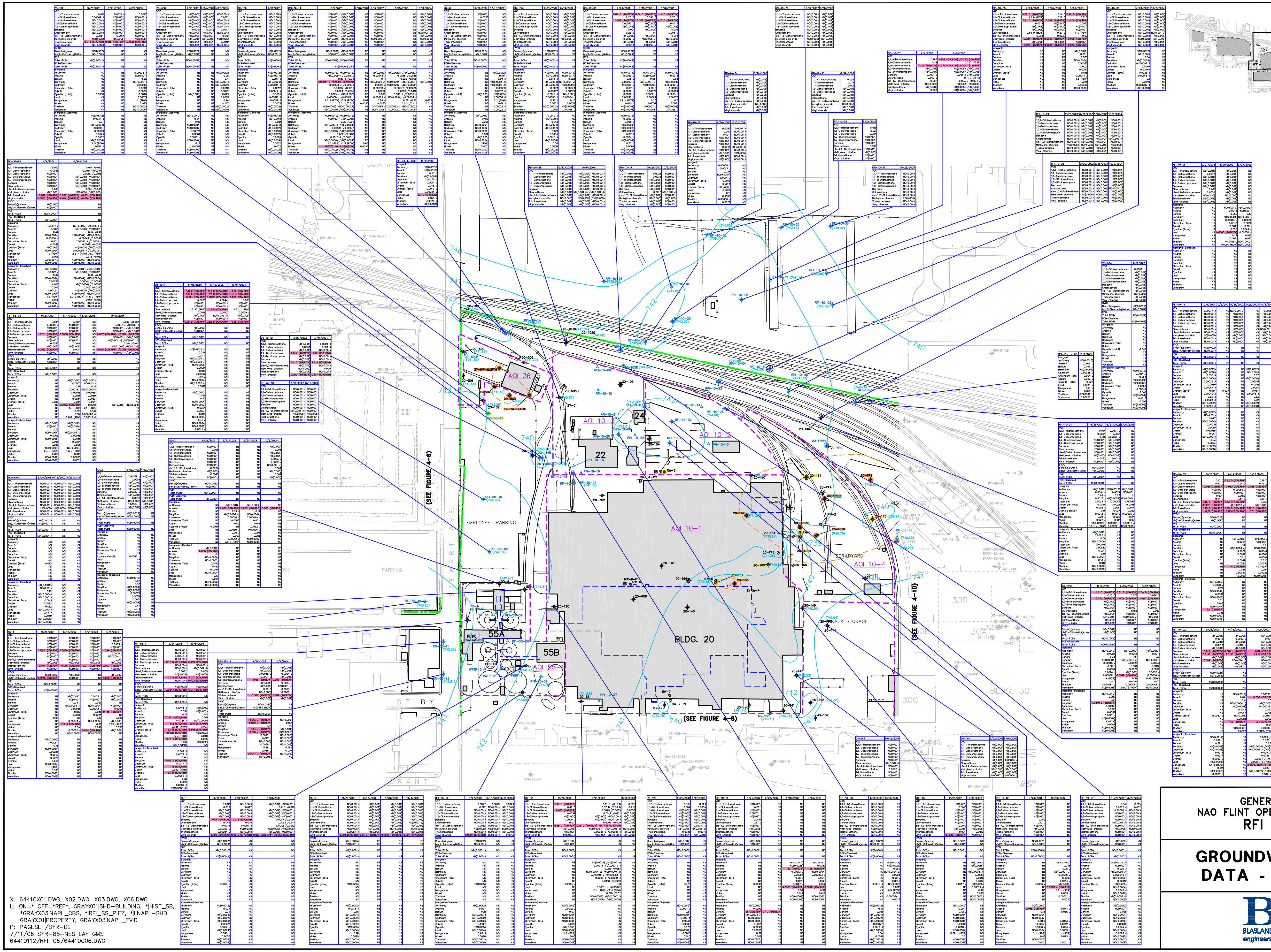
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C05.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - BUILDING 20 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-5



LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERED)
- (739.13) — GROUNDWATER ELEVATION (IN FEET)
- [742.02] — ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED ON JULY 25, 2005.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. R–RESULT REJECTED DURING DATA VALIDATION.
12. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
13. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
14. (ulf) – SAMPLE WAS COLLECTED USING ULTRA LOW-FLOW PROCEDURES TO MINIMIZE TURBIDITY.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C06.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDING 20 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-6

43-101R	0.5 – 2 (ft)	8 – 10 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.038)	ND(0.041)
Trichloroethene	0.075	ND(0.041)
Vinyl chloride	ND(0.038)	ND(0.041)
SVOC		
Benzo(a)pyrene	0.13 J	0.0475 J
Inorganic		
Arsenic	3.5	4.6
Beryllium	0.3	0.32
Cobalt	3.3	3.7
Copper	150 J	38
Lead	160	400
Manganese	600	460
Nickel	18 J	21 J

RFI-05-11	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.043)	ND(0.042)	ND(0.041)
Trichloroethene	ND(0.043)	ND(0.042)	0.094
Vinyl chloride	ND(0.043)	ND(0.042)	ND(0.041)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.89)	ND(0.18)
Inorganic			
Arsenic	4.67 J	4.41 J	4.48
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	5.61 J	6.34 J	17.9 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-06	0 – 2 (ft)	8 – 10 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.036)	ND(0.039)
Trichloroethene	ND(0.036)	0.03 J
Vinyl chloride	ND(0.036)	ND(0.039)
SVOC		
Benzo(a)pyrene	ND(0.18)	ND(0.19 J)
Inorganic		
Arsenic	3.1	5.3
Beryllium	0.16	0.29
Cobalt	2.7	4.6
Copper	6.5 J	26 J
Lead	8.9 J	23 J
Manganese	130 J	240 J
Nickel	7	15

RFI-05-02	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.042) /ND(0.067)	ND(0.036)	ND(0.039)
Trichloroethene	ND(0.042) /ND(0.067)	ND(0.036)	ND(0.039)
Vinyl chloride	ND(0.042) /ND(0.067)	ND(0.036)	ND(0.039)
SVOC			
Benzo(a)pyrene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.18)
Inorganic			
Arsenic	7.55 J /5.89 J	5.73 J	4.22
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	7.13 J /6.03 J	6.75 J	5.89 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-01	1 – 3 (ft)	7 – 9 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.039)	ND(0.039)
Trichloroethene	ND(0.039)	ND(0.039)
Vinyl chloride	ND(0.039)	ND(0.039)
SVOC		
Benzo(a)pyrene	0.264 J	ND(0.19)
Inorganic		
Arsenic	3.1	3.3
Beryllium	0.082 J	0.16
Cobalt	2 J	2.7 J
Copper	4.6 J	5.1 J
Lead	3.5	150
Manganese	130	150
Nickel	5.2 J	5.9 J

RFI-05-22	0.5 – 2.5 (ft)	4 – 6 (ft)
VOC		
cis-1,2-Dichloroethene	NS	ND(0.041)
Trichloroethene	NS	ND(0.041)
Vinyl chloride	NS	ND(0.041)
SVOC		
Benzo(a)pyrene	NS	2.06 J (RDC)
Inorganic		
Arsenic	NS	4.6
Beryllium	NS	0.68 J
Cobalt	NS	4
Copper	NS	200
Lead	NS	310
Manganese	NS	930
Nickel	NS	45 J

RFI-05-23	1.3 – 3 (ft)	4 – 6 (ft)
VOC		
cis-1,2-Dichloroethene	NS	ND(0.036)
Trichloroethene	NS	ND(0.036)
Vinyl chloride	NS	ND(0.036)
SVOC		
Benzo(a)pyrene	NS	0.398
Inorganic		
Arsenic	NS	12 (RDC)
Beryllium	NS	0.58 J
Cobalt	NS	6.5
Copper	NS	100
Lead	NS	21
Manganese	NS	2400 (IPSIC)
Nickel	NS	89 J

RFI-05-21	0 – 2 (ft)	6 – 8 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.039)	ND(0.043)
Trichloroethene	ND(0.039)	ND(0.043)
Vinyl chloride	ND(0.039)	ND(0.043)
SVOC		
Benzo(a)pyrene	1.69 J	1.27 J
Inorganic		
Arsenic	4.2	4.6
Beryllium	0.41	1 J
Cobalt	3.9 J	5.7 J
Copper	21000 J (RDC)	30 J
Lead	3100 (IDC,RDC)	78
Manganese	220	120
Nickel	44 J	17 J

RFI-05-24	1 – 3 (ft)	3 – 5 (ft)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Cobalt	NS	NS
Copper	NS	NS
Lead	42	34
Manganese	NS	NS
Nickel	NS	NS

RFI-05-10	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.035)	ND(0.042) /ND(0.045)	ND(0.039)
Trichloroethene	ND(0.035)	ND(0.042) /ND(0.045)	0.57
Vinyl chloride	ND(0.035)	ND(0.042) /ND(0.045)	ND(0.039)
SVOC			
Benzo(a)pyrene	ND(0.18 J)	ND(0.19) /ND(0.19 J)	ND(0.18 J)
Inorganic			
Arsenic	5.74 J	4.24 J /5.03 J	4.75
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	6.59 J	4.1 J /5.17 J	6.43 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-03	0.6 – 2.6 (ft)	8.6 – 10.6 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)pyrene	ND(0.19)	ND(0.19)
Inorganic		
Arsenic	2.9	2.5
Beryllium	0.21	0.081 J
Cobalt	3.1 J	2 J
Copper	9.3 J	3.9 J
Lead	8.5	2.7
Manganese	160	110
Nickel	9.6 J	5.1 J

RFI-05-05	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.04)	ND(0.04)	ND(0.036)
Trichloroethene	ND(0.04)	ND(0.04)	ND(0.036)
Vinyl chloride	ND(0.04)	ND(0.04)	ND(0.036)
SVOC			
Benzo(a)pyrene	ND(0.18)	0.28	0.23
Inorganic			
Arsenic	4.88 J	4.18 J	5.5
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	8.77 J	5.04 J	9.4 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-04	8 – 10 (ft)	0 – 2 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.04)	ND(0.037)
Trichloroethene	ND(0.04)	0.23
Vinyl chloride	ND(0.04)	ND(0.037)
SVOC		
Benzo(a)pyrene	ND(0.19)	ND(0.18)
Inorganic		
Arsenic	10.7 (RDC)	4.43
Beryllium	NS	NS
Cobalt	NS	NS
Copper	NS	NS
Lead	9.69 J	9.87 J
Manganese	NS	NS
Nickel	NS	NS

RFI-05-07	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.039)	ND(0.044)	ND(0.037)
Trichloroethene	ND(0.039)	ND(0.044)	ND(0.037)
Vinyl chloride	ND(0.039)	ND(0.044)	ND(0.037)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.2)	ND(0.18)
Inorganic			
Arsenic	10.4 (RDC)	3.18	4.44
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	8.92 J	8.78 J	10.8 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-15	0.9 – 2.9 (ft)	6.9 – 8.9 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.036)	ND(0.04)
Trichloroethene	ND(0.036)	ND(0.04)
Vinyl chloride	ND(0.036)	ND(0.04)
SVOC		
Benzo(a)pyrene	ND(0.18) /ND(0.18)	ND(0.19 J)
Inorganic		
Arsenic	3.3 /3.7	6.9
Beryllium	0.11 /0.14	0.43
Cobalt	2.3 /3.1	7.6
Copper	5.8 /5.8	14
Lead	5.1 /6.1	12
Manganese	120 /160	270
Nickel	6.4 /8.3	18

RFI-05-08	0.7 – 2.7 (ft)	2.7 – 4.7 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037) /ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037) /ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037) /ND(0.037)
SVOC		
Benzo(a)pyrene	ND(0.18)	ND(0.18 J) /0.0559 J
Inorganic		
Arsenic	5.2	5.4 /5.3
Beryllium	0.27 J	0.55 J /0.63 J
Cobalt	3.7 J	3.2 J /3.3 J
Copper	11 J	16 J /15 J
Lead	29 J	57 J /49 J
Manganese	250 J	1200 J /1500 J
Nickel	11 J	11 J /11 J

RFI-05-25	0 – 2 (ft)
VOC	
cis-1,2-Dichloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	ND(0.95 J)
Inorganic	
Arsenic	4.2
Beryllium	0.26 J
Cobalt	5.2
Copper	17
Lead	50
Manganese	300
Nickel	17 J

RFI-05-30	0 – 2 (ft)	6 – 8 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)pyrene	0.143 J	ND(0.18)
Inorganic		
Arsenic	8.4 (RDC)	3.4
Beryllium	0.64	0.13
Cobalt	5.3	2.1
Copper	18	5.2
Lead	32	3.8
Manganese	220	120
Nickel	16	5.1

RFI-05-19S	0.8 – 2.8 (ft)	6.8 – 8.8 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)
Trichloroethene	ND(0.038)	ND(0.038)
Vinyl chloride	ND(0.038)	ND(0.038)
SVOC		
Benzo(a)pyrene	ND(0.18)	ND(0.18)
Inorganic		
Arsenic	1.7	3.7
Beryllium	0.11	0.1
Cobalt	1.5 J	2 J
Copper	23 J	5.5 J
Lead	8.2	4.5
Manganese	94	130
Nickel	5.8 J	5.2 J

RFI-05-14	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.041)	ND(0.041)	0.2
Trichloroethene	0.16	ND(0.041)	1.9
Vinyl chloride	ND(0.041)	ND(0.041)	ND(0.039)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.2 J)	ND(0.18 J)
Inorganic			
Arsenic	3.39 J	6.87 J	4.72
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	4.66 J	6.21 J	6.83 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-20	0.7 – 2.7 (ft)	6.7 – 8.6 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.04)	ND(0.041)
Trichloroethene	0.16	ND(0.041)
Vinyl chloride	ND(0.04)	ND(0.041)
SVOC		
Benzo(a)pyrene	0.0375 J	0.0457 J
Inorganic		
Arsenic	5.7	4.1
Beryllium	0.4 J	0.18 J
Cobalt	5.4	3
Copper	93	10
Lead	54	14
Manganese	390 J	210 J
Nickel	16	9.6

RFI-05-31	7 – 9 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cobalt	NS
Copper	NS
Lead	8.3 J
Manganese	NS
Nickel	NS

RFI-05-27	7 – 9 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cobalt	NS
Copper	NS
Lead	5.5 J
Manganese	NS
Nickel	NS

RFI-05-12	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.046)	ND(0.043)	ND(0.036)
Trichloroethene	ND(0.046)	ND(0.042)	ND(0.036)
Vinyl chloride	ND(0.046)	ND(0.042)	ND(0.036)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.19)	ND(0.19 J)
Inorganic			
Arsenic	5.1	4.41	6.27
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	5.74 J	6.24 J	44.1 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-05-13	8 – 10 (ft)	10 – 12 (ft)	0 – 2 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.042)	ND(0.042)	ND(0.041)
Trichloroethene	ND(0.042)	ND(0.042)	ND(0.041)
Vinyl chloride	ND(0.042)	ND(0.042)	ND(0.041)
SVOC			
Benzo(a)pyrene	ND(0.19)	ND(0.2)	ND(0.18 J)
Inorganic			
Arsenic	4.92 J	7.38 J	4.68
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	10.9 J	7.34 J	8.47 J
Manganese	NS	NS	NS
Nickel	NS	NS	NS

RFI-BG-06	0 – 2 (ft)
Inorganic	
Arsenic	6.8 J /6.2 J
Beryllium	0.19 /0.34
Cobalt	3.2 J /4.3 J
Copper	25 J /34 J
Lead	50 J /65 J
Manganese	410 /270
Nickel	21 J /20 J

RFI-05-16	0.8 – 2.8 (ft)	8.8 – 10.8 (ft)	10.8 – 12.8 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.044)	ND(0.042)	ND(0.04)
Trichloroethene	ND(0.044)	ND(0.042)	ND(0.04)
Vinyl chloride	ND(0.044)	ND(0.042)	ND(0.04)
SVOC			
Benzo(a)pyrene	ND(0.21)	ND(0.2)	ND(0.2)
Inorganic			
Arsenic	4.2	4.9	7.9 (RDC)
Beryllium	0.17	0.29	0.16
Cobalt	3.1	4.3	3.5
Copper	7	12	8.6
Lead	6	7.1	7.4
Manganese	180	190	86
Nickel	8.2	12	8.5

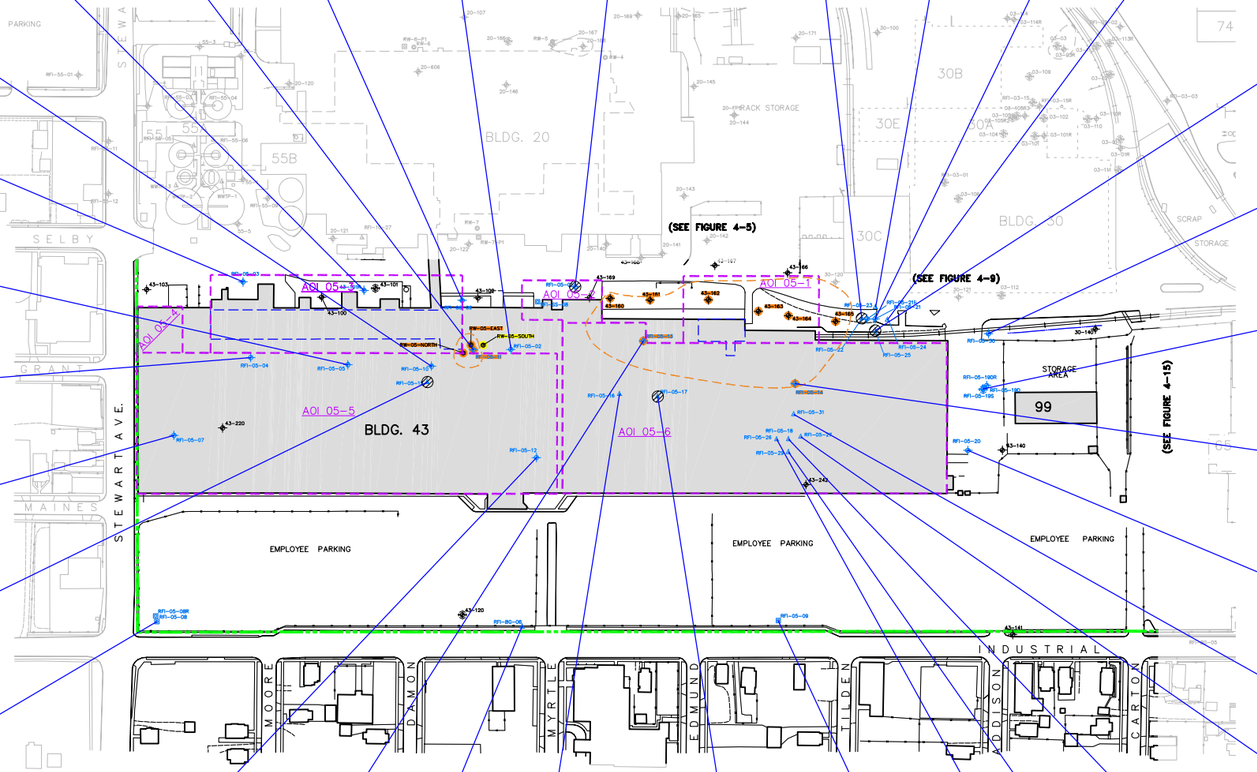
RFI-05-17	0.9 – 2.9 (ft)	8.9 – 10.9 (ft)	10.9 – 12.9 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.036)	ND(0.038)	ND(0.036) /ND(0.037)
Trichloroethene	ND(0.036)	ND(0.038)	ND(0.036) /ND(0.037)
Vinyl chloride	ND(0.036)	ND(0.038)	ND(0.036) /ND(0.037)
SVOC			
Benzo(a)pyrene	0.119 J	ND(0.18)	ND(0.18) /ND(0.18)
Inorganic			
Arsenic	4.8	5.1	4.8 /3.8
Beryllium	0.19	0.18	0.11 /0.1
Cobalt	4.2	3.8	2.6 /2.1
Copper	13	8.5	7 /5.7
Lead	12	6	6.6 /4.8
Manganese	170	200	120 /140
Nickel	11	9.7	6.4 /5.4

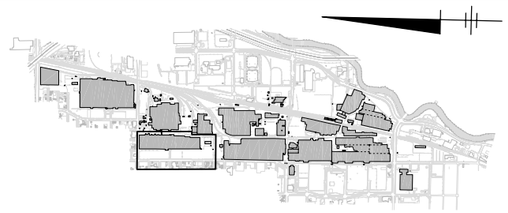
RFI-05-09	0.2 – 2.2 (ft)	6.2 – 8.2 (ft)
VOC		
cis-1,2-Dichloroethene	ND(0.042)	ND(0.041)
Trichloroethene	ND(0.042)	ND(0.041)
Vinyl chloride	ND(0.042)	ND(0.041)
SVOC		
Benzo(a)pyrene	0.329 J	1.82 J
Inorganic		
Arsenic	6.1	4.7
Beryllium	0.33 J	0.22 J
Cobalt	3.6 J	3.3 J
Copper	40 J	10 J
Lead	28 J	29 J
Manganese	440 J	170 J
Nickel	28 J	8.8 J

RFI-05-26	7 – 9 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cobalt	NS
Copper	NS
Lead	540 JD (RDC)
Manganese	NS
Nickel	NS

RFI-05-29	7 – 9 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Cobalt	NS
Copper	NS
Lead	46 J
Manganese	NS
Nickel	NS

RFI-05-18	0.9 – 2.9 (ft)	6.9 – 8.9 (ft)	8.9 – 10.9 (ft)
VOC			
cis-1,2-Dichloroethene	ND(0.036)	ND(0.039)	ND(0.041)
Trichloroethene	ND(0.036)	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.036)	ND(0.039)	ND(0.041)
SVOC			
Benzo(a)pyrene	0.0403 J	0.945 J	ND(0.19 J)
Inorganic			
Arsenic	3.8	9.5 (RDC)	5.8
Beryllium	0.11	1.6	0.21
Cobalt	2.7	7.2	2.7
Copper	7.7	77	15
Lead	6.3	3500 (IDC,RDC)	51
Manganese	140	250	120
Nickel	8.4	20	8.2





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C07.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FACTORY 05 (BUILDING 43) AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-7

43-101R	11/15/2001	6/18/2002
VOC		
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Inorganic		
Arsenic	0.067 (IDW,RDW)	0.056 (IDW,RDW)
Beryllium	ND(0.0004 J)	ND(0.0004 J)
Cobalt	0.0028	0.0017
Copper	ND(0.00096)	0.0023 J
Lead	0.00056	0.00088
Manganese	0.69 J	0.53
Nickel	0.0046	0.0047
Inorganic-Dissolved		
Arsenic	0.084 (IDW,RDW)	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.0032	NS
Copper	ND(0.0006)	NS
Lead	ND(0.0004)	NS
Manganese	0.76 J	NS
Nickel	0.0059	NS

RFI-05-06	9/25/2001	6/20/2002
VOC		
cis-1,2-Dichloroethene	0.0011	ND(0.001)
Trichloroethene	0.00093 J	0.0007 J
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0022)	NS
Inorganic-Dissolved		
Arsenic	0.024	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.003	NS
Copper	0.0016	NS
Lead	ND(0.0004)	NS
Manganese	0.24 J	NS
Nickel	0.013 J	NS

20-140	2/22/2002	6/20/2002	3/31/2003	10/11/2004
VOC				
cis-1,2-Dichloroethene	0.0026 J	0.0029	0.0019	0.001
Trichloroethene	0.095 (IDW,RDW)	0.086 (IDW,RDW)	0.061 (IDW,RDW)	0.039 (IDW,RDW)
Vinyl chloride	0.0019	0.001	0.019 J (IDW,RDW)	0.007 (IDW,RDW)
SVOC				
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
Inorganic				
Arsenic	NS	ND(0.001)	ND(0.001)	NS
Beryllium	NS	ND(0.0004)	ND(0.0004)	NS
Cobalt	NS	0.0091	0.006	NS
Copper	NS	0.012	0.012	NS
Lead	NS	0.0014	0.0011	NS
Manganese	NS	1.7 (ROW)	1.9 J (ROW)	NS
Nickel	NS	0.024	0.03	0.023
Inorganic-Dissolved				
Arsenic	0.0024 J	NS	NS	NS
Beryllium	0.0056 J (IDW,RDW)	NS	NS	NS
Cobalt	0.0069 J	NS	NS	NS
Copper	0.0074 J	NS	NS	NS
Lead	0.00053 J	NS	NS	NS
Manganese	2.2 J (ROW)	NS	NS	NS
Nickel	0.023 J	NS	NS	NS

43-168	9/27/2001	12/17/2002
VOC		
cis-1,2-Dichloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	0.0011	NS
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Inorganic		
Arsenic	NS	0.0044
Beryllium	NS	0.00024 J
Cobalt	NS	0.0026 J
Copper	NS	0.0066 J
Lead	NS	0.00074 J
Manganese	NS	1.8 J (RDW)
Nickel	NS	0.0093 J
Inorganic-Dissolved		
Arsenic	0.0061	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.0025	NS
Copper	0.0035	NS
Lead	ND(0.0004)	NS
Manganese	1.4 J (RDW)	NS
Nickel	0.013	NS

43-167	9/26/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
Inorganic-Dissolved	
Arsenic	0.037
Beryllium	ND(0.0004)
Cobalt	0.0061
Copper	0.00095
Lead	ND(0.0004)
Manganese	0.28
Nickel	0.028

43-166	9/26/2001	6/19/2002
VOC		
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Inorganic		
Arsenic	NS	0.029
Beryllium	NS	ND(0.0004 J)
Cobalt	NS	0.0042
Copper	NS	0.0066 J
Lead	NS	0.0003 J
Manganese	NS	1.2 (ROW)
Nickel	NS	0.013
Inorganic-Dissolved		
Arsenic	0.024	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.0059	NS
Copper	0.0017	NS
Lead	ND(0.0004)	NS
Manganese	1.6 (ROW)	NS
Nickel	0.013	NS

30-120	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	0.0044
Beryllium	ND(0.0004)
Cobalt	0.00088
Copper	0.0015
Lead	ND(0.0004)
Manganese	0.78 J
Nickel	0.0054

RFI-05-21	9/25/2001	3/27/2003
VOC		
cis-1,2-Dichloroethene	0.0012 /0.00066 J	NS
Trichloroethene	ND(0.001) /ND(0.001)	NS
Vinyl chloride	ND(0.001) /ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.002) /ND(0.002)	NS
Inorganic		
Arsenic	NS	0.035
Beryllium	NS	ND(0.0004)
Cobalt	NS	0.0029
Copper	NS	0.0018
Lead	NS	0.00016 J
Manganese	NS	0.54
Nickel	NS	0.016
Inorganic-Dissolved		
Arsenic	0.046 /0.047	NS
Beryllium	ND(0.0004) /ND(0.0004)	NS
Cobalt	0.0027 /0.0028	NS
Copper	0.0017 /0.028	NS
Lead	ND(0.0004) /ND(0.0004)	NS
Manganese	0.36 J /0.35 J	NS
Nickel	0.0076 J /0.0075 J	NS

RFI-05-30	2/19/2002	6/12/2002	10/4/2004
VOC			
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic			
Arsenic	NS	NS	NS
Beryllium	NS	NS	NS
Cobalt	NS	NS	NS
Copper	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	1.11 (RDW)
Nickel	NS	NS	NS

43-100	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cobalt	ND(0.0002)
Copper	0.0068
Lead	ND(0.0004)
Manganese	ND(0.0004 J)
Nickel	0.0022

RFI-05-03	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	0.0069
Beryllium	ND(0.0004)
Cobalt	0.0022
Copper	0.0048
Lead	ND(0.0004)
Manganese	0.63 J
Nickel	0.0069 J

43-103	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
Inorganic-Dissolved	
Arsenic	0.0011 J
Beryllium	ND(0.0004)
Cobalt	0.0012
Copper	0.0025
Lead	ND(0.0004)
Manganese	0.35 J
Nickel	0.0072

RFI-05-04	9/19/2001	6/21/2002
VOC		
cis-1,2-Dichloroethene	0.0057	0.009
Trichloroethene	0.029 (IDW,RDW)	0.024 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Inorganic-Dissolved		
Arsenic	ND(0.001)	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.0044	NS
Copper	0.0028	NS
Lead	0.00054	NS
Manganese	0.53 J	NS
Nickel	0.0067	NS

RFI-05-07	9/20/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0021)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cobalt	0.0008
Copper	0.0056
Lead	ND(0.0004)
Manganese	0.27
Nickel	0.0043

43-220	9/25/2001
VOC	
cis-1,2-Dichloroethene	0.0039
Trichloroethene	0.0008 J
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cobalt	0.0008
Copper	0.011
Lead	ND(0.0004)
Manganese	0.41 J
Nickel	0.0046

RFI-05-05	9/19/2001	6/21/2002	4/3/2003
VOC			
cis-1,2-Dichloroethene	0.0037	0.0025	0.0014
Trichloroethene	0.022 (IDW,RDW)	0.016 (IDW,RDW)	0.0099 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
Inorganic			
Arsenic	NS	NS	0.004
Beryllium	NS	NS	ND(0.0004)
Cobalt	NS	NS	0.0033
Copper	NS	NS	0.0039
Lead	NS	NS	0.0025
Manganese	NS	NS	0.76 J
Nickel	NS	NS	0.012
Inorganic-Dissolved			
Arsenic	0.0047	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cobalt	0.002	NS	NS
Copper	0.0029	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.7 J	NS	NS
Nickel	0.015	NS	NS

30-140	9/25/2001	6/13/2002	3/27/2003	10/4/2004
VOC				
cis-1,2-Dichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
Inorganic				
Arsenic	NS	ND(0.001)	ND(0.001)	NS
Beryllium	NS	ND(0.0004 J)	ND(0.0004)	NS
Cobalt	NS	0.0024	0.0013	NS
Copper	NS	0.0062	0.0027	NS
Lead	NS	ND(0.0004 J)	0.00023 J	NS
Manganese	NS	3.1 J (IDW,RDW)	0.81 2.17 (ROW)	
Nickel	NS	0.0095	0.011	NS
Inorganic-Dissolved				
Arsenic	ND(0.001)	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Cobalt	0.0022	NS	NS	NS
Copper	0.0041	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	2.1 J (ROW)	NS	NS	NS
Nickel	0.015	NS	NS	NS

RFI-05-190R	12/11/2001	12/18/2002
VOC		
cis-1,2-Dichloroethene	0.00052 J	ND(0.001)
Trichloroethene	0.0047	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Inorganic		
Arsenic	0.0072	0.017 J
Beryllium	0.0012 J	ND(0.0004)
Cobalt	0.0061	0.0037 J
Copper	0.00097	0.002 J
Lead	ND(0.00047)	0.00019 J
Manganese	1.1 (RDW)	0.88 (ROW)
Nickel	0.022	0.011 J
Inorganic-Dissolved		
Arsenic	0.0059	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.005	NS
Copper	0.002	NS
Lead	ND(0.0004)	NS
Manganese	0.97 (ROW)	NS
Nickel	0.019	NS

RFI-05-195	9/25/2001	6/12/2002	3/28/2003
VOC			
cis-1,2-Dichloroethene	0.081 (IDW,RDW)	0.046	0.034 /0.032
Trichloroethene	0.024 (IDW,RDW)	0.02 (IDW,RDW)	0.021 (IDW,RDW) /0.021 (IDW,RDW)
Vinyl chloride	0.019 (IDW,RDW)	0.016 J (IDW,RDW)	0.0074 (IDW,RDW) /0.007 (IDW,RDW)
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
Inorganic			
Arsenic	NS	ND(0.001)	ND(0.001) /NS
Beryllium	NS	ND(0.0004 J)	ND(0.0004) /NS
Cobalt	NS	0.0098	0.011 /NS
Copper	NS	0.0039	0.0039 /NS
Lead	NS	0.00013 J	0.00022 J /NS
Manganese	NS	2.7 J (IDW,RDW)	1 (RDW) /NS
Nickel	NS	0.026	0.034 /NS
Inorganic-Dissolved			
Arsenic	0.0018 J	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cobalt	0.0085	NS	NS
Copper	0.0043	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	1 J (RDW)	NS	NS
Nickel	0.023 J	NS	NS

43-140	9/26/2001	6/12/2002	4/3/2003	10/12/2004
VOC				
cis-1,2-Dichloroethene	ND(0.001)	0.00076 J	0.0033	0.004
Trichloroethene	0.025 (IDW,RDW)	0.058 (IDW,RDW)	0.22 D (IDW,RDW)	0.25 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.0021)	NS	NS	NS
Inorganic-Dissolved				
Arsenic	ND(0.001)	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Cobalt	0.00097 J	NS	NS	NS
Copper	0.0015	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.013 J	NS	NS	NS
Nickel	0.00095	NS	NS	NS

RFI-05-20	9/25/2001	6/12/2002	4/3/2003
VOC			
cis-1,2-Dichloroethene	0.0015	0.0017	0.0013
Trichloroethene	0.23 D (IDW,RDW)	0.14 D (IDW,RDW)	0.17 D (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
Inorganic-Dissolved			
Arsenic	0.0024 J	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cobalt	0.0051	NS	NS
Copper	0.0082	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.59 J	NS	NS
Nickel	0.0081 J	NS	NS

RFI-05-08R	6/12/2002	3/27/2003
VOC		
cis-1,2-Dichloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Inorganic		
Arsenic	ND(0.001)	0.0017
Beryllium	ND(0.0004 J)	ND(0.0004)
Cobalt	0.0013	0.0012
Copper	0.0048	0.0022
Lead	0.00049	0.00088
Manganese	0.91 J (RDW)	0.47
Nickel	0.0058 J	0.013
Inorganic-Dissolved		
Arsenic	0.0016	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.00094	NS
Copper	ND(0.00093)	NS
Lead	ND(0.0004)	NS
Manganese	0.77 J	NS
Nickel	0.005	NS

RFI-05-10	9/19/2001	4/2/2003	10/12/2004
VOC			
cis-1,2-Dichloroethene	ND(0.001)	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	0.0004 J
Vinyl chloride	ND(0.001)	NS	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.002)	NS	NS
Inorganic			
Arsenic	NS	0.00085 J	NS
Beryllium	NS	ND(0.0004)	NS
Cobalt	NS	0.099 (ROW)	NS
Copper	NS	0.0078	NS
Lead	NS	0.0017	NS
Manganese	NS	1.9 J (ROW)	NS
Nickel	NS	0.22 (IDW,RDW)	0.015
Inorganic-Dissolved			
Arsenic	0.023	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cobalt	0.0032	NS	NS
Copper	0.013	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.86 J	NS	NS
Nickel	0.0078	NS	NS

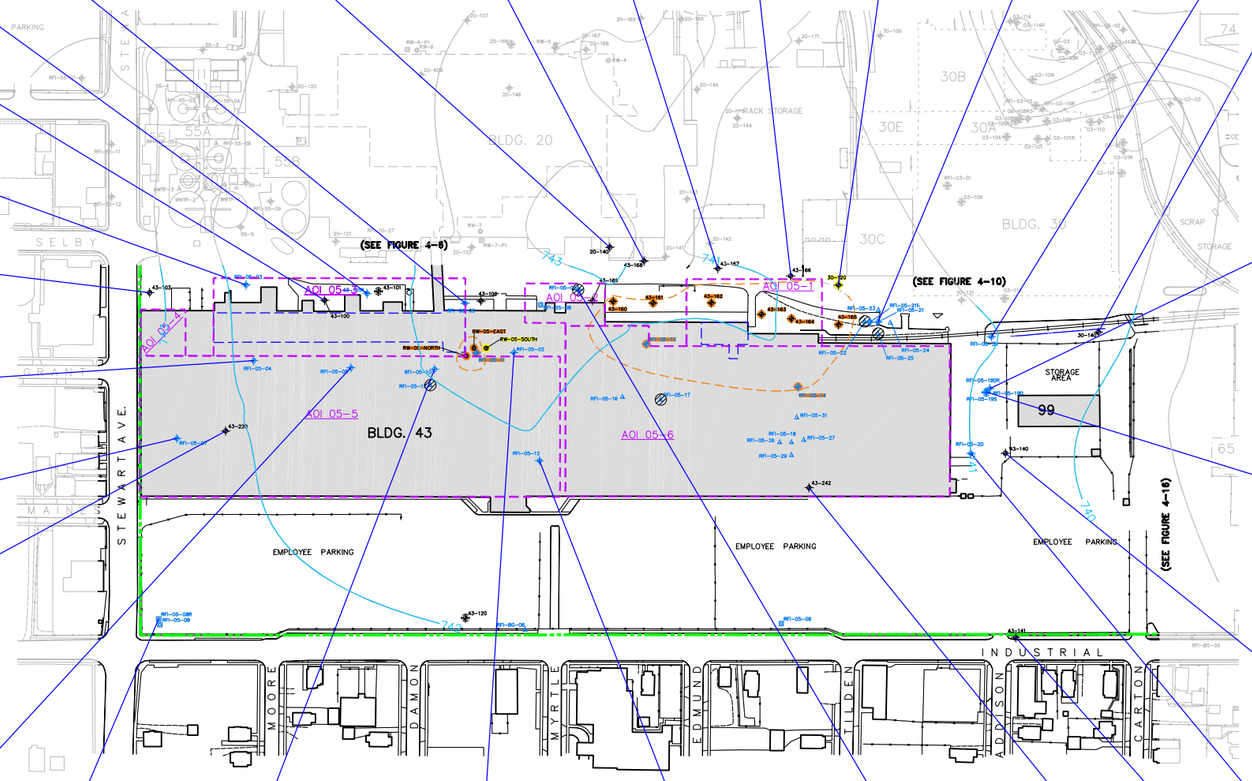
RFI-05-02	9/20/2001	4/3/2003
VOC		
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)	NS
Trichloroethene	0.0017 /0.0018	NS
Vinyl chloride	ND(0.001) /ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.0021) /ND(0.0022)	NS
Inorganic		
Arsenic	NS	0.0011 J /0.00085 J
Beryllium	NS	ND(0.0004) /ND(0.0004)
Cobalt	NS	0.096 (ROW) /0.088 (ROW)
Copper	NS	0.01 /0.0086
Lead	NS	0.0022 /0.0021
Manganese	NS	1.9 J (ROW) /1.8 J (ROW)
Nickel	NS	0.21 (IDW,RDW) /0.2 (IDW,RDW)
Inorganic-Dissolved		
Arsenic	ND(0.001) /0.001 J	NS
Beryllium	ND(0.0004) /ND(0.0004)	NS
Cobalt	0.0085 /0.0088	NS
Copper	0.0066 /0.0097	NS
Lead	ND(0.0004) /ND(0.0004)	NS
Manganese	1.2 J (RDW) /1.3 J (RDW)	NS
Nickel	0.052 /0.054	NS

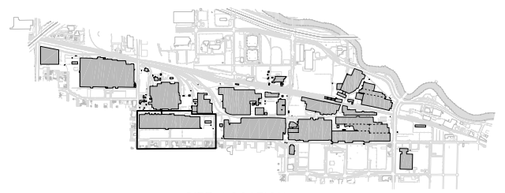
RFI-05-12	9/20/2001	6/14/2002
VOC		
cis-1,2-Dichloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Inorganic		
Arsenic	NS	0.046
Beryllium	NS	ND(0.0004 J)
Cobalt	NS	0.003
Copper	NS	0.0068
Lead	NS	0.0013
Manganese	NS	0.39 J
Nickel	NS	0.02
Inorganic-Dissolved		
Arsenic	0.07 (IDW,RDW)	NS
Beryllium	ND(0.0004)	NS
Cobalt	0.0024	NS
Copper	0.0037	NS
Lead	ND(0.0004)	NS
Manganese	0.29	NS
Nickel	0.02	NS

RFI-05-01	9/25/2001	6/20/2002	3/31/2003
VOC			
cis-1,2-Dichloroethene	0.014	0.0078	0.009
Trichloroethene	0.012 (IDW,RDW)	0.0081 (IDW,RDW)	0.0094 (IDW,RDW)
Vinyl chloride	0.006 (IDW,RDW)	0.0022 (IDW,RDW)	0.0035 (IDW,RDW)
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
Inorganic			
Arsenic	NS	0.01	NS
Beryllium	NS	ND(0.0004)	NS
Cobalt	NS	0.0026	NS
Copper	NS	0.0023	NS
Lead	NS	0.0017	NS
Manganese	NS	0.78	NS
Nickel	NS	0.033	NS
Inorganic-Dissolved			
Arsenic	0.018	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cobalt	0.0023	NS	NS
Copper	0.0079	NS	NS
Lead	0.0011	NS	NS
Manganese	0.9 J (RDW)	NS	NS
Nickel	0.033 J	NS	NS

43-242	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
Inorganic-Dissolved	
Arsenic	0.0012
Beryllium	ND(0.0004)
Cobalt	0.0033
Copper	0.011
Lead	ND(0.0004)
Manganese	0.48 J
Nickel	0.0082

43-141	9/25/2001
VOC	
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0021)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cobalt	ND(0.0002)
Copper	0.0032
Lead	ND(0.0004)
Manganese	0.0042 J
Nickel	0.004





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

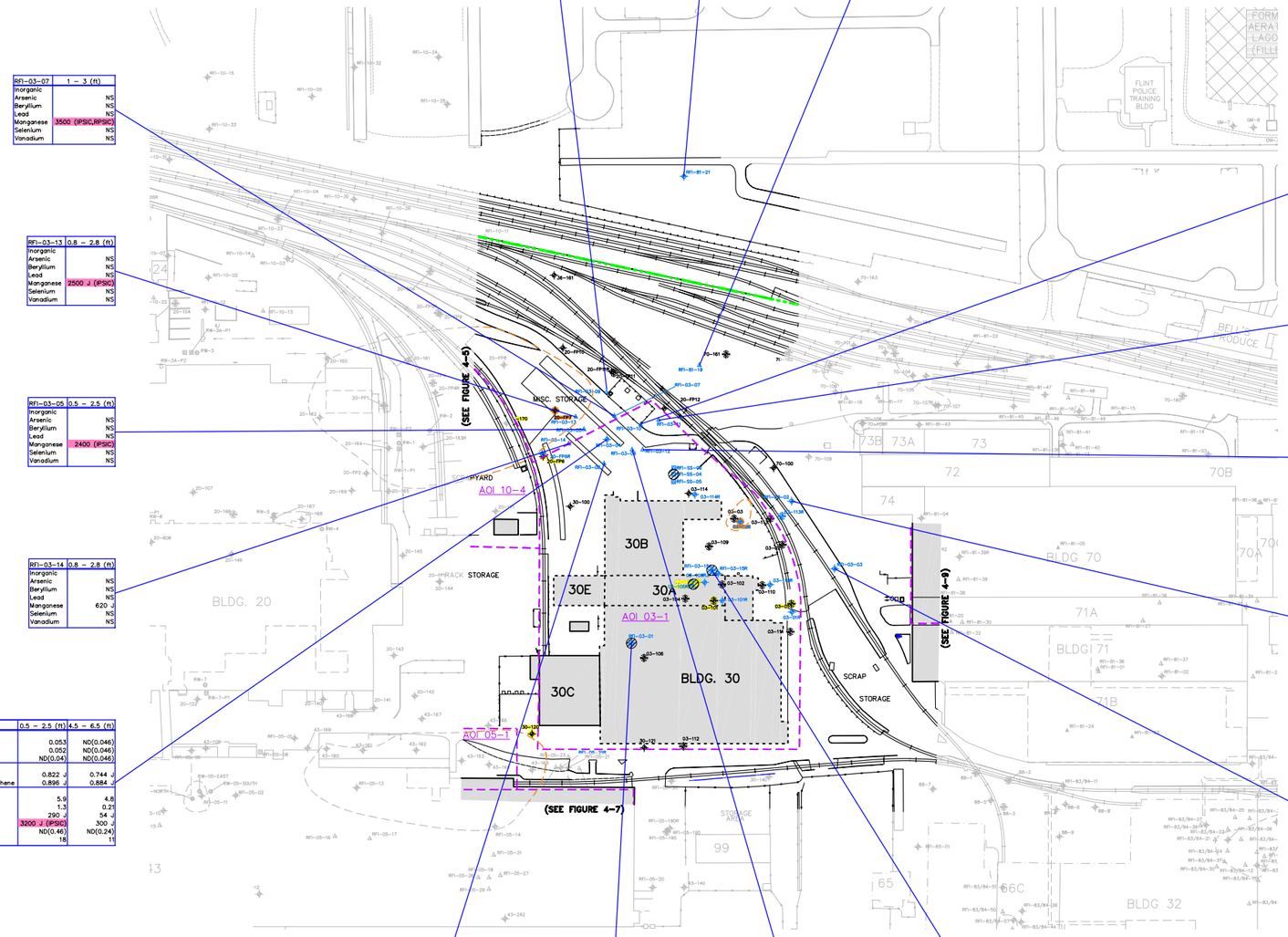
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD–BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL–SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR–DL
7/11/06 SYR–85–NES LAF GMS
64410112/RFI–06/64410C08.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FACTORY 05 (BUILDING 43) AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-8



RFI-03-07	1 – 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	3500 (IPSIC,RPSIC)
Selenium	NS
Vanadium	NS

RFI-03-13	0.8 – 2.8 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	2500 J (IPSIC)
Selenium	NS
Vanadium	NS

RFI-03-05	0.5 – 2.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	2400 (IPSIC)
Selenium	NS
Vanadium	NS

RFI-03-14	0.8 – 2.8 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	620 J
Selenium	NS
Vanadium	NS

RFI-03-04	0.5 – 2.5 (ft)	4.5 – 6.5 (ft)
VOC		
Benzene	0.053	ND(0.046)
Trichloroethene	0.052	ND(0.046)
Vinyl chloride	ND(0.04)	ND(0.046)
SVOC		
Benzo(a)pyrene	0.822 J	0.744 J
Benzo(b)fluoranthene	0.896 J	0.884 J
Inorganic		
Arsenic	5.9	4.8
Beryllium	1.3	0.21
Lead	290 J	54 J
Manganese	3200 J (IPSIC)	300 J
Selenium	ND(0.46)	ND(0.24)
Vanadium	18	11

RFI-03-08	0.5 – 2.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	930
Selenium	NS
Vanadium	NS

RFI-03-09	0 – 2 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	230 J
Selenium	NS
Vanadium	NS

RFI-81-21	0 – 2 (ft)	8 – 10 (ft)
VOC		
Benzene	ND(0.041)	ND(0.038)
Trichloroethene	ND(0.041)	ND(0.038)
Vinyl chloride	ND(0.041)	ND(0.038)
SVOC		
Benzo(a)pyrene	0.121 J	ND(0.18)
Benzo(b)fluoranthene	0.118 J	ND(0.18)
Inorganic		
Arsenic	22 J (RDC)	4.2 J
Beryllium	0.4 J	0.077 J
Lead	24 J	17 J
Manganese	21 J	170 J
Selenium	2.9 J	ND(0.094)
Vanadium	20 J	10 J

RFI-81-19	0 – 2 (ft)
VOC	
Benzene	0.26
Trichloroethene	ND(0.039)
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	ND(0.19 J)
Benzo(b)fluoranthene	ND(0.19 J)
Inorganic	
Arsenic	12 J (RDC)
Beryllium	0.35 J
Lead	37 J
Manganese	54 J
Selenium	1.3 J
Vanadium	10 J

RFI-03-10	0 – 2 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	3100 J (IPSIC)
Selenium	NS
Vanadium	NS

RFI-03-11	0 – 2 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	4700 (IPSIC,RPSIC)
Selenium	NS
Vanadium	NS

RFI-03-12	0.8 – 2.8 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	3800 J (IPSIC,RPSIC)
Selenium	NS
Vanadium	NS

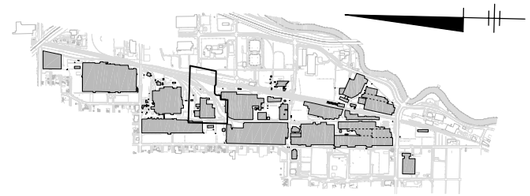
RFI-03-02	1 – 3 (ft)	3 – 5 (ft)	5 – 7 (ft)
VOC			
Benzene	ND(0.037)	ND(0.038)	ND(0.039) /ND(0.04)
Trichloroethene	0.049	0.28	0.67 /0.65
Vinyl chloride	ND(0.037)	ND(0.038)	ND(0.039) /ND(0.04)
SVOC			
Benzo(a)pyrene	ND(0.18)	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(b)fluoranthene	ND(0.18)	ND(0.18)	ND(0.19) /ND(0.19)
Inorganic			
Arsenic	2.9	2.7	2.4 /2.1
Beryllium	0.16	0.09 J	0.13 J /0.095 J
Lead	8.6	7.8	11 /7.9
Manganese	150	120 J	110 J /110
Selenium	0.33 J	ND(0.078)	0.12 J /0.15
Vanadium	10	7	7.2 /6.5

RFI-03-03	0 – 2 (ft)
VOC	
Benzene	ND(0.04)
Trichloroethene	ND(0.04)
Vinyl chloride	ND(0.04)
SVOC	
Benzo(a)pyrene	0.194 J
Benzo(b)fluoranthene	0.267 J
Inorganic	
Arsenic	3.7
Beryllium	0.17 J
Lead	46
Manganese	190 J
Selenium	0.23 J
Vanadium	9.3

RFI-03-01	2 – 4 (ft)	8 – 10 (ft)	10 – 12 (ft)
VOC			
Benzene	ND(0.041)	ND(0.041)	ND(0.05)
Trichloroethene	0.84	0.046	0.12
Vinyl chloride	ND(0.041)	ND(0.041)	ND(0.05)
SVOC			
Benzo(a)pyrene	0.0498 J	ND(0.2 J)	ND(0.24)
Benzo(b)fluoranthene	0.0686 J	ND(0.2 J)	ND(0.24)
Inorganic			
Arsenic	4.8	4.6	2.3
Beryllium	0.65 J	0.33	0.42 J
Lead	20	92	9.7
Manganese	120 J	95 J	170 J
Selenium	0.61 J	0.38 J	1.3
Vanadium	20	12	21

RFI-03-06	0.5 – 2.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	2300 (IPSIC)
Selenium	NS
Vanadium	NS

RFI-03-15	0.9 – 2.9 (ft)	6.9 – 8.9 (ft)
VOC		
Benzene	ND(0.039)	ND(0.039) /ND(0.038)
Trichloroethene	0.068	ND(0.039) /ND(0.038)
Vinyl chloride	ND(0.077)	ND(0.078) /ND(0.076)
SVOC		
Benzo(a)pyrene	8.23 (DC,RDC)	13.1 (DC,RDC) /14.9 (DC,RDC)
Benzo(b)fluoranthene	10.6	19.6 D /25.1 D (RDC)
Inorganic		
Arsenic	6.8	5.9 /5
Beryllium	0.57	0.19 /0.26
Lead	700 (RDC)	370 /230
Manganese	350	120 /93
Selenium	0.57	0.22 J /0.25
Vanadium	14	8.6 /11



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENT IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)=CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS=NOT ANALYZED FOR THIS CONSTITUENT.
9. J=ESTIMATED CONCENTRATION.
10. D=CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDC=EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.
12. RPSIC EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAOESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C09.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - BUILDING 30 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
4-9

20-FP10	9/25/2001	2/22/2002
VOC		
Benzene	0.0061 (IDW,RDW)	ND(0.0022)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0022)	NS
Benzo(b)fluoranthene	ND(0.0022)	NS
Inorganic-Dissolved		
Arsenic	0.038	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.18 J	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

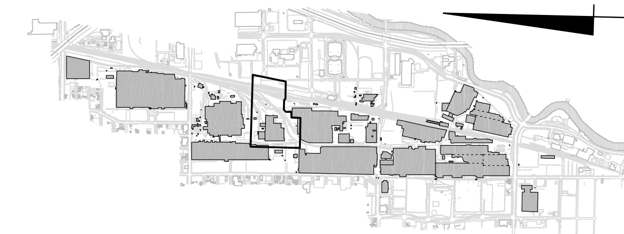
20-FP11	9/25/2001	6/19/2002
VOC		
Benzene	0.00069 J	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
Inorganic-Dissolved		
Arsenic	0.0045	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.31 J	NS
Selenium	0.0058	NS
Vanadium	ND(0.0008)	NS

RFI-81-21	10/4/2001	10/6/2004
VOC		
Benzene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)

70-100	9/24/2001	6/13/2002	3/27/2003
VOC			
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.003 (IDW,RDW)	0.0029 J (IDW,RDW)	0.0027 (IDW,RDW)
SVOC			
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
Inorganic-Dissolved			
Arsenic	0.0096 J	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.15 J	NS	NS
Selenium	0.0021 J	NS	NS
Vanadium	ND(0.0008)	NS	NS

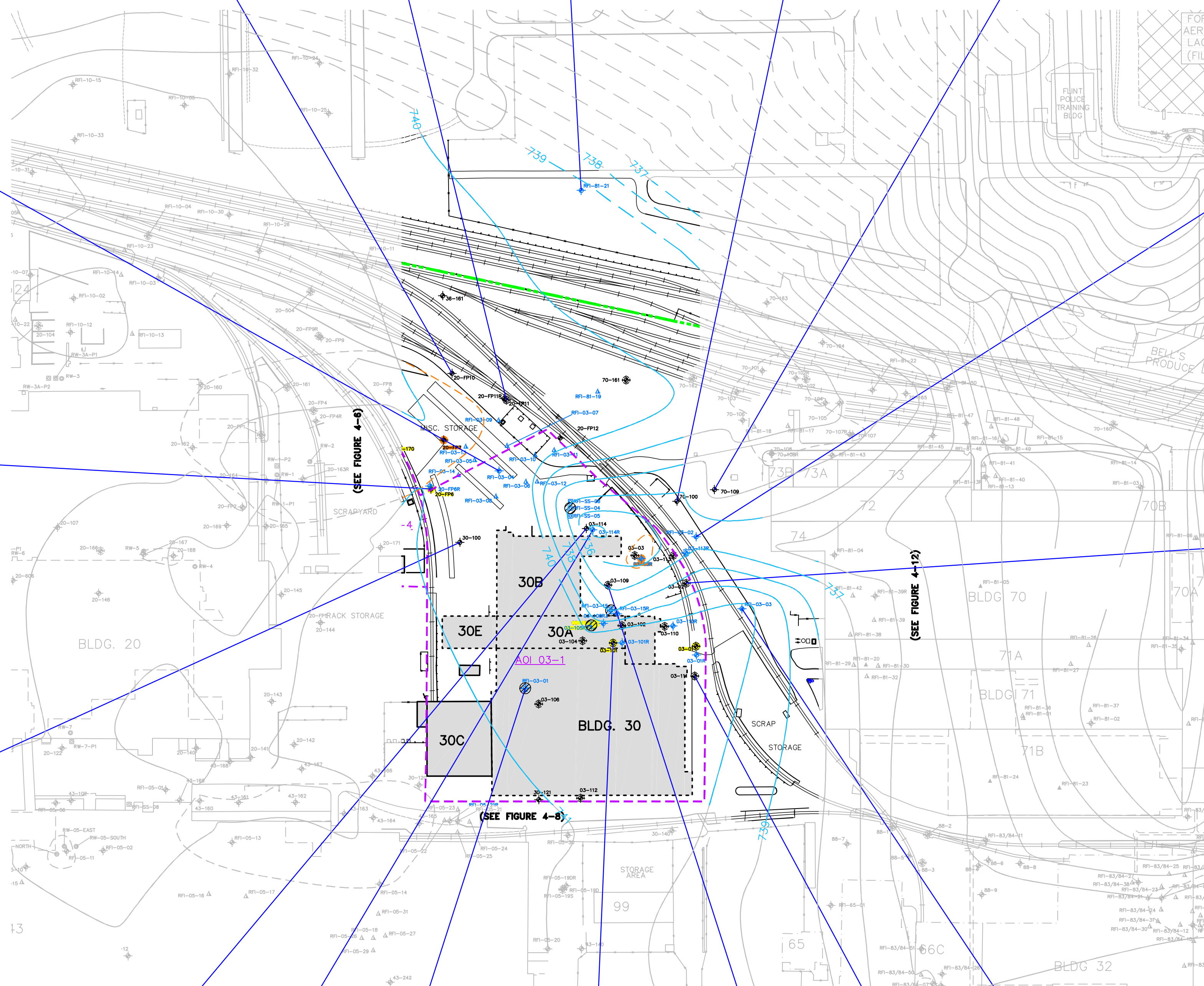
70-109	9/24/2001	3/26/2003
VOC		
Benzene	ND(0.001)	0.003
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0022)	NS
Benzo(b)fluoranthene	ND(0.0022)	NS
Inorganic-Dissolved		
Arsenic	0.0024	NS
Beryllium	ND(0.0004 J)	NS
Lead	ND(0.0004)	NS
Manganese	0.059	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

RFI-03-04	9/21/2001	6/13/2002
VOC		
Benzene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
Inorganic		
Arsenic	NS	0.012
Beryllium	NS	ND(0.0004 J)
Lead	NS	0.0004 J
Manganese	NS	0.63 J
Selenium	NS	ND(0.0014)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.09 (IDW,RDW)	NS
Beryllium	ND(0.0004 J)	NS
Lead	ND(0.0004)	NS
Manganese	0.76	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS



RFI-03-02	2/26/2002	6/13/2002
VOC		
Benzene	ND(0.001)	ND(0.001) /ND(0.001)
Trichloroethene	0.0026	0.0021 /0.002
Vinyl chloride	ND(0.001)	ND(0.001) /ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
Inorganic		
Arsenic	NS	0.0031 /0.0026
Beryllium	NS	ND(0.0004 J) /ND(0.0004 J)
Lead	NS	0.0013 J /0.0011 J
Manganese	NS	0.17 /0.17
Selenium	NS	0.0006 J /ND(0.0014)
Vanadium	NS	ND(0.0008) /ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.011	NS
Beryllium	0.043 J (IDW,RDW)	NS
Lead	0.001 J	NS
Manganese	0.11 J	NS
Selenium	0.19 (IDW,RDW)	NS
Vanadium	0.0065 (RDW)	NS

20-FP6	9/25/2001	2/20/2002	6/19/2002	3/27/2003
VOC				
Benzene	0.00065 J	ND(0.001)	0.0005 J	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0023 (IDW,RDW)	0.00057 J	0.0012	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS	NS
Inorganic-Dissolved				
Arsenic	ND(0.001)	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.31 J	NS	NS	NS
Selenium	ND(0.0014)	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS



03-02	9/20/2001	6/14/2002
VOC		
Benzene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
Inorganic-Dissolved		
Arsenic	0.0036	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.46	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

30-100	9/21/2001
VOC	
Benzene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Benzo(b)fluoranthene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	0.0048
Beryllium	ND(0.0004 J)
Lead	ND(0.0004)
Manganese	0.73
Selenium	0.002 J
Vanadium	ND(0.0008)

03-114	9/21/2001
VOC	
Benzene	ND(0.001)
Trichloroethene	0.00066 J
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Benzo(b)fluoranthene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	ND(0.0018)
Beryllium	ND(0.0004 J)
Lead	ND(0.0004)
Manganese	0.27
Selenium	0.0026 J
Vanadium	0.00089

03-114R	3/31/2003
VOC	
Benzene	ND(0.001)
Trichloroethene	0.011 (IDW,RDW)
Vinyl chloride	0.0084 (IDW,RDW)

RFI-03-01	9/19/2001
VOC	
Benzene	ND(0.001)
Trichloroethene	0.00058 J
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0021)
Benzo(b)fluoranthene	ND(0.0021)
Inorganic-Dissolved	
Arsenic	0.011
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.48 J
Selenium	ND(0.0014)
Vanadium	0.0014

03-101	9/27/2001	6/25/2002
VOC		
Benzene	ND(0.001)	ND(0.001)
Trichloroethene	0.064 J (IDW,RDW)	0.057 (IDW,RDW)
Vinyl chloride	0.0091 (IDW,RDW)	0.0046 (IDW,RDW)
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
Inorganic-Dissolved		
Arsenic	0.029	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.45 J	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

03-109	9/26/2001
VOC	
Benzene	0.00066 J
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0021)
Benzo(b)fluoranthene	ND(0.0021)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	1.5 (RDW)
Selenium	ND(0.0014)
Vanadium	ND(0.0008)

03-111	9/21/2001
VOC	
Benzene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Benzo(b)fluoranthene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	0.002 J
Beryllium	ND(0.0004 J)
Lead	ND(0.0004)
Manganese	0.28
Selenium	ND(0.0014)
Vanadium	ND(0.0008)

RFI-03-03	9/21/2001
VOC	
Benzene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
Benzo(b)fluoranthene	ND(0.0022)
Inorganic-Dissolved	
Arsenic	0.0017 J
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.21
Selenium	ND(0.0014)
Vanadium	ND(0.0008)

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
11. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDING 30 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-10

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C10.DWG

RFI-81-22	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Tetrachloroethene	ND(0.038)
Trichloroethene	ND(0.038)
Trifluorotrichloroethane (Freon 113)	ND(0.16)
Vinyl chloride	ND(0.038)
SVOC	
Benzo(a)pyrene	ND(0.95)
bis(2-Ethylhexyl)phthalate	ND(0.95)
PCB	
Total PCBs	4.98 (RDC)
Inorganic	
Arsenic	24 (RDC)
Barium	90
Cadmium	0.65 J
Chromium Total	110 J
Cobalt	5.5
Lead	82
Manganese	350 J
Nickel	52
Vanadium	16
Zinc	200

RFI-81-16	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.039)
1,1-Dichloroethane	ND(0.039)
1,1-Dichloroethene	ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)
Tetrachloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Trifluorotrichloroethane (Freon 113)	ND(0.17)
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)
PCB	
Total PCBs	ND(0.039)
Inorganic	
Arsenic	7
Barium	52 J
Cadmium	0.32
Chromium Total	17
Cobalt	5.8
Lead	17 J
Manganese	420 J
Nickel	14
Vanadium	25
Zinc	54

RFI-81-50	4 - 6 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.06) /ND(0.06)
1,1-Dichloroethane	ND(0.06) /ND(0.06)
1,1-Dichloroethene	ND(0.06) /ND(0.06)
cis-1,2-Dichloroethene	ND(0.06) /ND(0.06)
Tetrachloroethene	ND(0.06) /ND(0.06)
Trichloroethene	ND(0.06) /ND(0.06)
Trifluorotrichloroethane (Freon 113)	ND(0.1) /ND(0.1)
Vinyl chloride	ND(0.1) /ND(0.1)
SVOC	
Benzo(a)pyrene	ND(0.3) /ND(0.3 J)
bis(2-Ethylhexyl)phthalate	ND(0.3) /ND(0.3)
PCB	
Total PCBs	ND(0.33) /ND(0.33)
Inorganic	
Arsenic	0.8 J /0.83 J
Barium	22.1 J /30.4 J
Cadmium	ND(0.14) /ND(0.13)
Chromium Total	4.13 /3.39
Cobalt	2.17 J /3.69 J
Lead	5.49 /5.39
Manganese	91.2 J /327 J
Nickel	3.8 /5.85
Vanadium	6.29 /5.09
Zinc	13.8 J /9.9 J

RFI-81-15	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.04)
1,1-Dichloroethane	ND(0.04)
1,1-Dichloroethene	ND(0.04)
cis-1,2-Dichloroethene	ND(0.04)
Tetrachloroethene	ND(0.04)
Trichloroethene	ND(0.04)
Trifluorotrichloroethane (Freon 113)	ND(0.17)
Vinyl chloride	ND(0.04)
SVOC	
Benzo(a)pyrene	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.2)
PCB	
Total PCBs	ND(0.04)
Inorganic	
Arsenic	4.7
Barium	45 J
Cadmium	0.21
Chromium Total	11
Cobalt	4.4
Lead	22 J
Manganese	320 J
Nickel	9.1
Vanadium	18
Zinc	42

RFI-81-03	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.038)	ND(0.039)
1,1-Dichloroethane	ND(0.038)	ND(0.038)	ND(0.039)
1,1-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.039)
Tetrachloroethene	ND(0.038)	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.038)	ND(0.039)
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.16)	ND(0.17)
Vinyl chloride	ND(0.038)	ND(0.038)	ND(0.039)
SVOC			
Benzo(a)pyrene	3.36 J (RDC)	0.426 J	0.132 J
bis(2-Ethylhexyl)phthalate	0.134 J	ND(0.18)	0.17 J
PCB			
Total PCBs	0.181	0.061	0.281
Inorganic			
Arsenic	13 (RDC)	3	5.2
Barium	71	34	42
Cadmium	0.92	0.053	0.2
Chromium Total	45	10	20
Cobalt	5.4	2.8	3.4
Lead	160 J	6 J	23 J
Manganese	1200	1000	1200
Nickel	44	6.1	10
Vanadium	17	13	17
Zinc	190	17	54

RFI-81-14	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Tetrachloroethene	ND(0.038)
Trichloroethene	ND(0.038)
Trifluorotrichloroethane (Freon 113)	ND(0.16)
Vinyl chloride	ND(0.038)
SVOC	
Benzo(a)pyrene	0.0384 J
bis(2-Ethylhexyl)phthalate	ND(0.19)
PCB	
Total PCBs	ND(0.039)
Inorganic	
Arsenic	3.5
Barium	46 J
Cadmium	0.21
Chromium Total	11
Cobalt	4.2
Lead	19 J
Manganese	270 J
Nickel	9.7
Vanadium	17
Zinc	42

RFI-81-51	0 - 2 (ft)	8 - 10 (ft)	11 - 13 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.06)	0.04 J	0.01 J
1,1-Dichloroethane	ND(0.06)	ND(0.06)	ND(0.06)
1,1-Dichloroethene	ND(0.06)	ND(0.06)	ND(0.06)
cis-1,2-Dichloroethene	0.38	ND(0.06)	0.01 J
Tetrachloroethene	0.62	2.48	0.41
Trichloroethene	1.3	7.35 (RSVIA)	1.54
Trifluorotrichloroethane (Freon 113)	ND(0.1)	ND(0.1)	ND(0.1)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)pyrene	0.05 J	0.02 J	0.02 J
bis(2-Ethylhexyl)phthalate	0.05 J	ND(0.3)	ND(0.3)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	1.48 J	1.65 J	2.64 J
Barium	12.4 J	14.5 J	18.6 J
Cadmium	0.21	0.14	0.86
Chromium Total	2.59	5.62	16.9
Cobalt	1.38	3.71	2.29
Lead	16.6	19.5	9.06
Manganese	105	299	199
Nickel	3.55	6.63	8.97
Vanadium	3.21	4.22	10.3
Zinc	18.9 J	17.2 J	282 J

RFI-81-08	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.039)	ND(0.042)
1,1-Dichloroethane	ND(0.039)	ND(0.042)
1,1-Dichloroethene	ND(0.039)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.039)	0.043
Tetrachloroethene	ND(0.039)	ND(0.042)
Trichloroethene	ND(0.039)	0.39
Trifluorotrichloroethane (Freon 113)	ND(0.17)	ND(0.18)
Vinyl chloride	ND(0.039)	ND(0.042)
SVOC		
Benzo(a)pyrene	ND(0.19)	ND(0.2 J)
bis(2-Ethylhexyl)phthalate	ND(0.19)	0.0941 J
PCB		
Total PCBs	0.095	ND(0.041)
Inorganic		
Arsenic	3.9	2.6
Barium	20	33
Cadmium	0.2	0.19 J
Chromium Total	8.5	8.6 J
Cobalt	2.8	3.9
Lead	33 J	16
Manganese	160	80 J
Nickel	8.3	8.9
Vanadium	11	15
Zinc	41	47

RFI-81-33	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.038)	ND(0.04)	ND(0.044)
1,1-Dichloroethane	ND(0.038)	ND(0.04)	ND(0.044)
1,1-Dichloroethene	ND(0.038)	ND(0.04)	ND(0.044)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)	ND(0.044)
Tetrachloroethene	ND(0.038)	ND(0.04)	ND(0.044)
Trichloroethene	ND(0.038)	ND(0.04)	ND(0.044)
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.17)	ND(0.19)
Vinyl chloride	ND(0.038)	ND(0.04)	ND(0.044)
SVOC			
Benzo(a)pyrene	0.17 J	ND(0.19)	ND(0.21)
bis(2-Ethylhexyl)phthalate	0.0513 J	ND(0.19)	ND(0.21)
PCB			
Total PCBs	ND(0.037)	ND(0.039)	ND(0.044)
Inorganic			
Arsenic	4.2	6.7 D	10 (RDC)
Barium	90 J	57 JD	110 J
Cadmium	0.41	0.1 D	0.12
Chromium Total	38	16 D	21
Cobalt	5	7.5 D	11
Lead	40	7.7 D	9.6
Manganese	1000 J	330 JD	790 J
Nickel	15	19 D	26
Vanadium	18	25 D	29
Zinc	66	41 D	39

RFI-81-17	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Tetrachloroethene	ND(0.038)
Trichloroethene	ND(0.038)
Trifluorotrichloroethane (Freon 113)	ND(0.16)
Vinyl chloride	ND(0.038)
SVOC	
Benzo(a)pyrene	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.18)
PCB	
Total PCBs	0.433
Inorganic	
Arsenic	6.7
Barium	26 J
Cadmium	0.13
Chromium Total	5.2
Cobalt	4.1
Lead	13 J
Manganese	370 J
Nickel	13
Vanadium	7.7
Zinc	31

RFI-81-40	0 - 2 (ft)
Inorganic	
Arsenic	8.1 J (RDC)
Barium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

RFI-81-41	0 - 2 (ft)
Inorganic	
Arsenic	5.1 J
Barium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

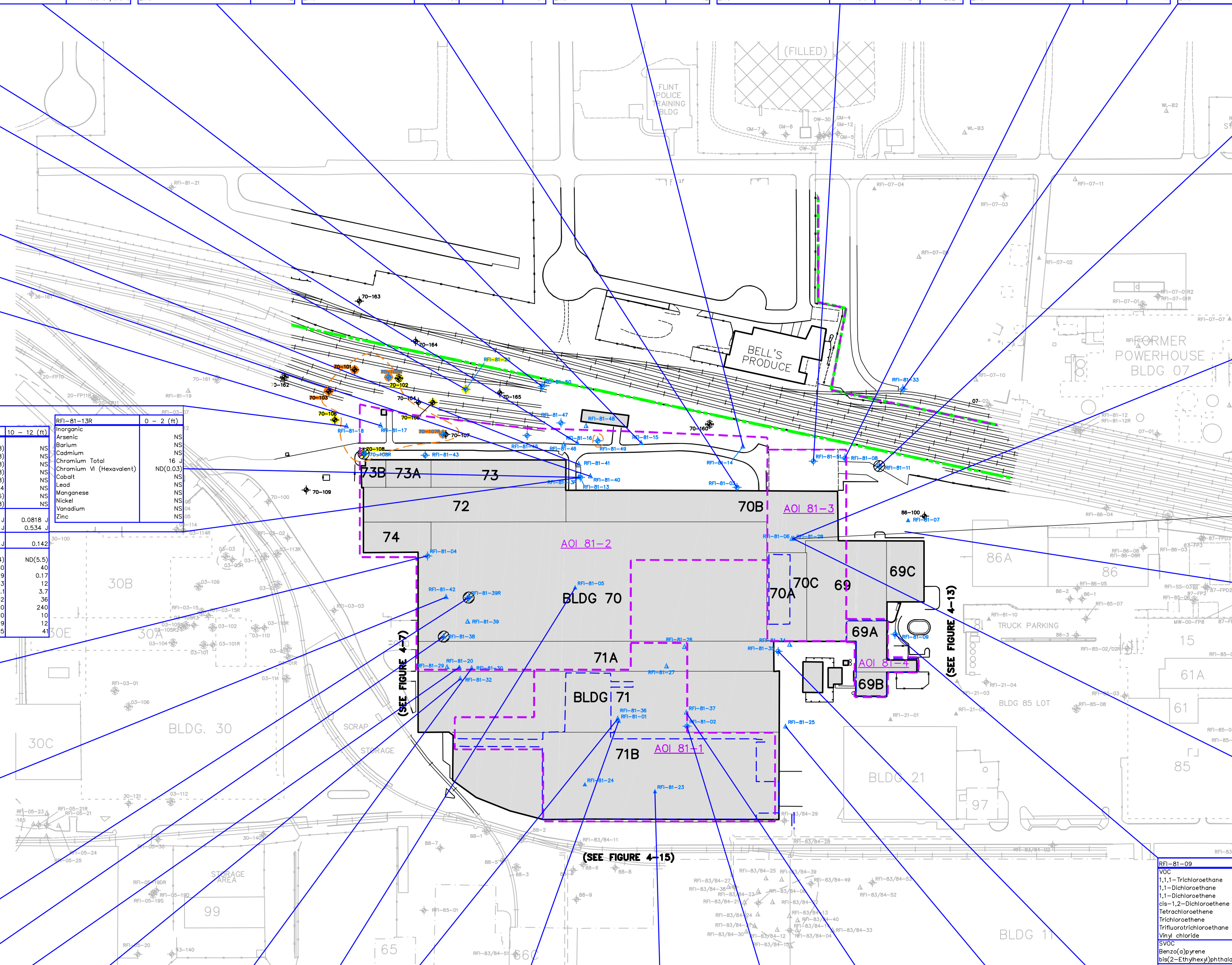
RFI-81-11	0 - 2 (ft)	2 - 4 (ft)	4 - 6 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.039) /ND(0.042)	ND(0.037)	ND(0.04)
1,1-Dichloroethane	ND(0.039) /ND(0.042)	ND(0.037)	ND(0.04)
1,1-Dichloroethene	ND(0.039) /ND(0.042)	ND(0.037)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.039) /ND(0.042)	0.028 J	0.085
Tetrachloroethene	ND(0.039) /ND(0.042)	0.027 J	ND(0.04)
Trichloroethene	ND(0.039) /ND(0.042)	0.027 J	0.066
Trifluorotrichloroethane (Freon 113)	ND(0.17) /ND(0.18)	ND(0.16)	ND(0.17)
Vinyl chloride	ND(0.039) /ND(0.042)	ND(0.037)	0.029 J
SVOC			
Benzo(a)pyrene	ND(0.19) /ND(0.21)	4.57 EJ (RDC)	0.187 J
bis(2-Ethylhexyl)phthalate	ND(0.19) /ND(0.21)	0.0926 J	ND(0.2)
PCB			
Total PCBs	ND(0.04) /ND(0.043)	0.151	ND(0.04)
Inorganic			
Arsenic	3.3 /4.7	3.9	3.7
Barium	15 /22	18	20
Cadmium	0.12 /0.15	0.66	0.11
Chromium Total	6.6 /8.8	35	5.7
Cobalt	2.4 /3.3	2.9	2
Lead	7.6 J /10 J	72 J	21 J
Manganese	120 /160	340	73
Nickel	6.4 /8.9	16	6.1
Vanadium	12 /13	10	6.8
Zinc	25 /32	170	28

RFI-81-06	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)	8.8 - 10.8 (ft)	12.8 - 14.8 (ft)
VOC				
1,1,1-Trichloroethane	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
1,1-Dichloroethane	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
1,1-Dichloroethene	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
Tetrachloroethene	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
Trichloroethene	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
Trifluorotrichloroethane (Freon 113)	ND(0.15)	ND(0.15)	ND(0.16)	ND(0.16)
Vinyl chloride	ND(0.036)	ND(0.036)	ND(0.037)	ND(0.036)
SVOC				
Benzo(a)pyrene	ND(0.17)	ND(0.18)	0.37 J	ND(0.18)
bis(2-Ethylhexyl)phthalate	0.106 J	0.0806 J	ND(0.18)	ND(0.18)
PCB				
Total PCBs	0.032 J	ND(0.036)	ND(0.038)	ND(0.037)
Inorganic				
Arsenic	3.5	2.1	2.1	0.58
Barium	14	13	13	3.5
Cadmium	0.13	0.098	0.24	0.014 J
Chromium Total	11	15	31	4.7
Cobalt	3.1	2.2	1.7	0.53
Lead	8.3	10	19	2.4
Manganese	240	160	270	40
Nickel	12	9.1	14	2.8
Vanadium	8	6.7	6.9	2.5
Zinc	30	22	100	6.2

RFI-81-18	0 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Tetrachloroethene	ND(0.038)
Trichloroethene	ND(0.038)
Trifluorotrichloroethane (Freon 113)	ND(0.16)
Vinyl chloride	ND(0.038)
SVOC	
Benzo(a)pyrene	0.125 J
bis(2-Ethylhexyl)phthalate	ND(0.19)
PCB	
Total PCBs	0.95
Inorganic	
Arsenic	7.2
Barium	56 J
Cadmium	0.45
Chromium Total	21
Cobalt	4.9
Lead	63 J
Manganese	370 J
Nickel	23
Vanadium	13
Zinc	69

RFI-81-13	0 - 2 (ft)	6 - 8 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.038)	NS
1,1-Dichloroethane	ND(0.04)	ND(0.038)	NS
1,1-Dichloroethene	ND(0.04)	ND(0.038)	NS
cis-1,2-Dichloroethene	ND(0.04)	ND(0.038)	NS
Tetrachloroethene	ND(0.04)	ND(0.038)	NS
Trichloroethene	ND(0.04)	0.094	NS
Trifluorotrichloroethane (Freon 113)	ND(0.17)	ND(0.16)	NS
Vinyl chloride	ND(0.04)	ND(0.038)	NS
SVOC			
Benzo(a)pyrene	0.119 J	0.0613 J	0.0818 J
bis(2-Ethylhexyl)phthalate	0.078 J	0.115 J	0.534 J
PCB			
Total PCBs	0.102 J	0.062 J	0.142
Inorganic			
Arsenic	56 (IDC,RDC)	ND(4)	ND(5.5)
Barium	36	40	40
Cadmium	0.36	0.19	0.17
Chromium Total	270 (IPSIC,RPSIC)	9.3	12
Cobalt	15	3.1	3.7
Lead	27	42	36
Manganese	1100	250	240
Nickel	110	10	10
Vanadium	30	8.9	12
Zinc	42	45	41

RFI-81-13R	0 - 2 (ft)
Inorganic	
Arsenic	NS
Barium	NS
Cadmium	NS
Chromium Total	16 J
Chromium VI (Hexavalent)	ND(0.03)
Cobalt	NS
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS



RFI-81-07	0.3 - 2.3 (ft)	4.3 - 6.3 (ft)
VOC		
1,1,1-Trichloroethane	0.71	ND(0.04)
1,1-Dichloroethane	ND(0.038)	ND(0.04)
1,1-Dichloroethene	ND(0.038)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)
Tetrachloroethene	ND(0.038 J)	ND(0.04 J)
Trichloroethene	2.1 J	0.15 J
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.17)
Vinyl chloride	ND(0.038)	ND(0.04)
SVOC		
Benzo(a)pyrene	0.638 J	0.104 J
bis(2-Ethylhexyl)phthalate	0.104 J	ND(0.19)
PCB		
Total PCBs	0.69	0.051
Inorganic		
Arsenic	4.5	5.2
Barium	83 J	47 J
Cadmium	1.1	0.25
Chromium Total	42 J	27 J
Cobalt	4.5	6.7
Lead	130	200
Manganese	690	470
Nickel	22 J	28 J
Vanadium	13	18
Zinc	150	51

RFI-81-04	8 - 10 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.039)
1,1-Dichloroethane	ND(0.039)
1,1-Dichloroethene	ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)
Tetrachloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Trifluorotrichloroethane (Freon 113)	NS
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	0.31 J
bis(2-Ethylhexyl)phthalate	ND(0.18)
Inorganic	
Arsenic	7.9 (RDC)
Barium	30 J
Cadmium	0.132
Chromium Total	15
Cobalt	NS
Lead	12.5 J
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

RFI-81-42	0.7 - 2 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.038)
1,1-Dichloroethane	ND(0.038)
1,1-Dichloroethene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Tetrachloroethene	0.037 J
Trichloroethene	ND(0.038)
Trifluorotrichloroethane (Freon 113)	ND(0.16)
Vinyl chloride	ND(0.076)
SVOC	
Benzo(a)pyrene	1.96 J
bis(2-Ethylhexyl)phthalate	0.5 J
PCB	
Total PCBs	1.91
Inorganic	
Arsenic	3.6 J
Barium	50
Cadmium	0.98
Chromium Total	26
Cobalt	4 J
Lead	200 J
Manganese	180
Nickel	23 J
Vanadium	14 J
Zinc	74 J

RFI-81-28	0.5 - 2.5 (ft)
Inorganic	
Arsenic	NS
Barium	NS
Cadmium	NS
Chromium Total	7.2
Chromium VI (Hexavalent)	ND(0.02)
Cobalt	NS
Lead	NS
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

RFI-81-39R	1.7 - 3.7 (ft)	7.7 - 9.7 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037)	ND(0.035)
1,1-Dichloroethane	ND(0.037)	ND(0.035)
1,1-Dichloroethene	ND(0.037)	ND(0.035)
cis-1,2-Dichloroethene	0.041	0.026 J
Tetrachloroethene	ND(0.037)	ND(0.035)
Trichloroethene	ND(0.037)	ND(0.035)
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.15)
Vinyl chloride	ND(0.074)	ND(0.07)
SVOC		
Benzo(a)pyrene	ND(0.91)	ND(0.88 J)
bis(2-Ethylhexyl)phthalate	ND(0.91)	ND(0.88)
PCB		
Total PCBs	ND(0.037)	ND(0.036)
Inorganic		
Arsenic	6.2 J	1.7 J
Barium	57	16
Cadmium	0.16	ND(0.055)
Chromium Total	24	5.3
Cobalt	3.9 J	1.7 J
Lead	49 J	5.8 J
Manganese	540	100
Nickel	11 J	4.8 J
Vanadium	19 J	7.2 J
Zinc	33 J	16 J

RFI-81-09	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.047)	ND(0.039)	ND(0.039)
1,1-Dichloroethane	ND(0.047)	ND(0.039)	ND(0.039)
1,1-Dichloroethene	ND(0.047)	ND(0.039)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.047)	ND(0.039)	ND(0.039)
Tetrachloroethene	ND(0.047)	0.049	0.045
Trichloroethene	ND(0.047)	ND(0.039)	ND(0.039)
Trifluorotrichloroethane (Freon 113)	ND(0.2)	ND(0.17)	ND(0.17)
Vinyl chloride	ND(0.047)	ND(0.039)	ND(0.039)
SVOC			
Benzo(a)pyrene	ND(0.23)	ND(0.18)	1.24 J
bis(2-Ethylhexyl)phthalate	ND(0.23)	ND(0.18)	ND(0.19)
PCB			
Total PCBs	ND(0.048)	ND(0.038)	ND(0.039)
Inorganic			
Arsenic	2.7	4.4	2.3
Barium	52	33	17
Cadmium	0.36 J	0.054 J	0.053 J
Chromium Total	16 J	8.7 J	7.5 J
Cobalt	3.3	3.1	2.5
Lead	13	12	5.5
Manganese	100 J	350 J	230 J
Nickel	8.9	6.6	6.6
Vanadium	14	15	11
Zinc	50	23	14 J

RFI-81-32	1 - 3 (ft)	3 - 5 (ft)
Inorganic		
Arsenic	NS	NS
Barium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Lead	13 J	210 J
Manganese	330 J	540 J
Nickel	NS	NS
Vanadium	NS	NS
Zinc	NS	NS

RFI-81-30	1.2 - 3.2 (ft)	3.2 - 5.2 (ft)
Inorganic		
Arsenic	NS	NS
Barium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Lead	92 J	140 J
Manganese	350 J	340 J
Nickel	NS	NS
Vanadium	NS	NS
Zinc	NS	NS

RFI-81-36	8 - 10 (ft)
Inorganic	
Arsenic	NS
Barium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Lead	12000 (IDC,RDC)
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

RFI-81-37	8 - 10 (ft)
Inorganic	
Arsenic	NS
Barium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Lead	5000 (IDC,RDC)
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

RFI-81-25	0.8 - 2.8 (ft)	8 - 10 (ft)
Inorganic		
Arsenic	NS	NS
Barium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Lead	550 J (RDC)	110 J
Manganese	NS	NS
Nickel	NS	NS
Vanadium	NS	NS
Zinc	NS	NS

RFI-81-38	1 - 3 (ft)
VOC	
1,1,1-Trichloroethane	47000 D (IDC,ISVIA,IVSICI,RDC,RSVIA,RVSICI)
1,1-Dichloroethane	7000 D (IDC,ISVIA,IVSICI,RDC,RSVIA,RVSICI)
1,1-Dichloroethene	10 EJ (ISVIA,IVSICI,RSVIA,RVSICI)
cis-1,2-Dichloroethene	0.12
Tetrachloroethene	0.1
Trichloroethene	4
Trifluorotrichloroethane (Freon 113)	64000 D (IDC,ISVIA,RDC,RSVIA)
Vinyl chloride	0.5 (RSVIA)
SVOC	
Benzo(a)pyrene	ND(5.2)
bis(2-Ethylhexyl)phthalate	ND(5.2)
PCB	
Total PCBs	ND(0.043)
Inorganic	
Arsenic	2.1 J
Barium	15 J
Cadmium	0.5
Chromium Total	3.7
Cobalt	0.34
Lead	5.8 J
Manganese	19 J
Nickel	1.4
Vanadium	2.2
Zinc	110 J

RFI-81-20	1 - 3 (ft)	3 - 5 (ft)	7 - 9 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.037)	ND(0.036)	ND(0.044)
1,1-Dichloroethane	ND(0.037)	ND(0.036)	ND(0.044)
1,1-Dichloroethene	ND(0.037)	ND(0.036)	ND(0.044)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.036)	ND(0.044)
Tetrachloroethene	ND(0.037)	ND(0.036)	ND(0.044)
Trichloroethene	ND(0.037)	ND(0.036)	ND(0.044)
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.15)	ND(0.19)
Vinyl chloride	ND(0.037)	ND(0.036)	ND(0.044)
SVOC			
Benzo(a)pyrene	0.811 J	0.279 J	0.118 J
bis(2-Ethylhexyl)phthalate	0.068 J	ND(0.18)	ND(0.22)
PCB			
Total PCBs	ND(0.037)	ND(0.037)	ND(0.045)
Inorganic			
Arsenic	9.2 (RDC)	2.8	3.6
Barium	560	66	27
Cadmium	2.1	0.11	0.071
Chromium Total	160	63	19
Cobalt	43	4.7	3.1
Lead	3100 (IDC,RDC)	94	30
Manganese	750	1800 (IPSIC)	450
Nickel	73	14	12
Vanadium	43	18	12
Zinc	1500	30	28

RFI-81-05	3 - 5 (ft)	9 - 11 (ft)
VOC		
1,1,1-Trichloroethane	ND(0.037) /ND(0.035)	ND(0.04)
1,1-Dichloroethane	ND(0.037) /ND(0.035)	ND(0.04)
1,1-Dichloroethene	ND(0.037) /ND(0.035)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037) /ND(0.035)	ND(0.04)
Tetrachloroethene	ND(0.037) /ND(0.035)	ND(0.04)
Trichloroethene	0.042 /0.038	0.18
Trifluorotrichloroethane (Freon 113)	ND(0.16) /ND(0.15)	ND(0.17)
Vinyl chloride	ND(0.037) /ND(0.035)	ND(0.04)
SVOC		
Benzo(a)pyrene	ND(0.17 J) /ND(0.17 J)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.17) /ND(0.17)	ND(0.19)
PCB		
Total PCBs	0.028 J /ND(0.036)	ND(0.039)
Inorganic		
Arsenic	2.1 /1.5	1.6
Barium	18 /22	20
Cadmium	0.068 /0.078	0.1
Chromium Total	4.2 /5.4	5.1
Cobalt	1.2 /1.2	1.1
Lead	5.4 /6.6	6.9
Manganese	49 /61	74
Nickel	3.3 /3.6	3.3
Vanadium	4.3 /4.7	4.9
Zinc	14 /14	19

RFI-81-01	2.5 - 4.5 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.039)
1,1-Dichloroethane	ND(0.039)
1,1-Dichloroethene	ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)
Tetrachloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Trifluorotrichloroethane (Freon 113)	ND(0.17)
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)pyrene	0.115 J
bis(2-Ethylhexyl)phthalate	ND(0.19 J)
PCB	
Total PCBs	ND(0.038)
Inorganic	
Arsenic	14 (RDC)
Barium	1000
Cadmium	3.4
Chromium Total	230
Cobalt	38
Lead	5500 (IDC,RDC)
Manganese	1300
Nickel	170
Vanadium	38
Zinc	18 J

RFI-81-23	0.9 - 1.7 (ft)
VOC	
1,1,1-Trichloroethane	ND(0.04)
1,1-Dichloroethane	ND(0.04)
1,1-Dichloroethene	ND(0.04)
cis-1,2-Dichloroethene	0.99
Tetrachloroethene	ND(0.04)
Trichloroethene	ND(0.04)
Trifluorotrichloroethane (Freon 113)	ND(0.17)
Vinyl chloride	0.029 J
SVOC	
Benzo(a)pyrene	0.0573 J
bis(2-Ethylhexyl)phthalate	ND(0.19 J)
PCB	
Total PCBs	ND(0.04)
Inorganic	
Arsenic	3.7
Barium	17
Cadmium	0.15
Chromium Total	7.4
Cobalt	4
Lead	25
Manganese	180
Nickel	11
Vanadium	12
Zinc	36

RFI-81-02	4 - 6 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.04)	ND(0.042)	ND(0.04)
1,1-Dichloroethane	ND(0.04)	ND(0.042)	ND(0.04)
1,1-Dichloroethene	ND(0.04)	ND(0.042)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.042)	ND(0.04)
Tetrachloroethene	ND(0.04)	ND(0.042)	ND(0.04)
Trichloroethene	ND(0.04)	ND(0.042)	ND(0.04)
Trifluorotrichloroethane (Freon 113)	ND(0.17)	ND(0.18)	ND(0.17)
Vinyl chloride	ND(0.04)	ND(0.042)	ND(0.04)
SVOC			
Benzo(a)pyrene	0.235 J	3.89 J (RDC)	ND(0.19 J)
bis(2-Ethylhexyl)phthalate	ND(0.2 J)	ND(0.2)	ND(0.19)
PCB			
Total PCBs	ND(0.041)	ND(0.042)	ND(0.04)
Inorganic			
Arsenic	10 (RDC)	19 (RDC)	5.8
Barium	310	2000	38
Cadmium	5.2	19	0.14
Chromium Total	42	190	8.9
Cobalt	11	44	4.1
Lead	1600 (IDC,RDC)	69000 D (IDC,IPSIC,RDC)	140
Manganese	570	970	140
Nickel	120	80	10
Vanadium	18	35	13
Zinc	1100 J	5800 J	66 J

RFI-81-35	0.8 - 2.8 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1,1-Trichloroethane	ND(0.036)	ND(0.037)	ND(0.059)
1,1-Dichloroethane	ND(0.036)	ND(0.037)	ND(0.059)
1,1-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.059)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.059)
Tetrachloroethene	ND(0.036 J)	0.041 J	ND(0.059 J)
Trichloroethene	ND(0.036)	ND(0.037)	ND(0.059)
Trifluorotrichloroethane (Freon 113)	ND(0.16)	ND(0.16)	ND(0.25)
Vinyl chloride	ND(0.036)	ND(0.037)	ND(0.059)
SVOC			
Benzo(a)pyrene	0.0481 J	ND(0.18)	0.16 J
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.18)	ND(0.29)
PCB			
Total PCBs	ND(0.037)	ND(0.038)	ND(0.059)
Inorganic			
Arsenic	3.6 J	7.3 J	8 J (RDC)
Barium	19	61	83
Cadmium	0.2	1.1	1.3
Chromium Total	8.3	15	18
Cobalt	2.6	5.8	4
Lead	120	1000 J (IDC,RDC)	13
Manganese	270 J	1300	220 J
Nickel	10 J	13 J	14 J
Vanadium	11	19	21
Zinc	26 J	30 J	66 J

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILD CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION
  - ISVIA – INDUSTRIAL SOIL VOLATILIZATION TO INDOOR AIR
  - IISVSIC – INDUSTRIAL INFINITE SOURCE VOLATILE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE.
11. E–CONCENTRATION EXCEEDED THE LINEAR RANGE OF THE ANALYTICAL EQUIPMENT; HOWEVER, THE RESULT WAS DEEMED ACCEPTABLE DURING DATA VALIDATION.
12. RDC–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.
13 RSVIA–EXCEEDS MICHIGAN PART 201 RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA.
14. RISVSIC–EXCEEDS MICHIGAN PART 201 RESIDENTIAL INFINITE SOURCE VOLATILE SOIL INHALATION.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C11.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FACTORY 81 (BUILDINGS 69, 70, 71, 72, 73, AND 74) AREA

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FIGURE
4-11

70-165	9/26/2001	6/22/2002	3/28/2003	10/7/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	NS	NS	ND(0.001)
1,1-Dichloroethane	ND(0.001)	NS	NS	ND(0.001)
1,1-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	NS	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	NS	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001 J)	NS	NS	ND(0.03)
Vinyl chloride	ND(0.001)	NS	NS	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
bis(2-Ethylhexyl)phthalate	0.00102 J	NS	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.00012)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0027	0.0029	NS
Barium	NS	0.02	0.043	NS
Cadmium	NS	0.000064 J	ND(0.0002)	NS
Chromium Total	NS	0.00042 J	0.00093	NS
Cobalt	NS	0.0019	0.0012	NS
Lead	NS	0.00023 J	0.027 (IDW,RDW)	0.055 (IDW,RDW)
Manganese	NS	1.2 J (RDW)	0.46	NS
Nickel	NS	0.0042	0.021	NS
Vanadium	NS	0.0003 J	0.0002 J	NS
Zinc	NS	0.029	0.017	NS
Inorganic-Dissolved				
Arsenic	0.0013 J	0.0029	NS	NS
Barium	0.037	0.017	NS	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	ND(0.0006)	NS	NS
Cobalt	0.0011	0.0017	NS	NS
Lead	0.019 (IDW,RDW)	ND(0.0004)	NS	NS
Manganese	0.72 J	1.1 J (RDW)	NS	NS
Nickel	0.014	0.0035	NS	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS	NS
Zinc	0.013	0.01	NS	NS

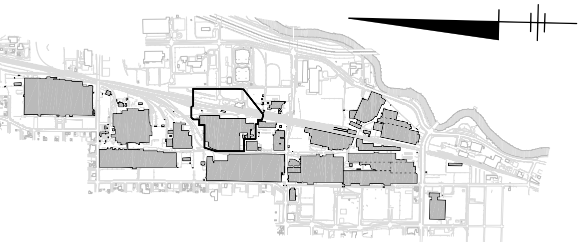
70-163	9/28/2001	6/20/2002	3/28/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	0.0032	NS	NS
Tetrachloroethene	ND(0.001)	NS	NS
Trichloroethene	0.0021	NS	NS
Trifluorotrichloroethane (Freon 113)	ND(0.001)	NS	NS
Vinyl chloride	0.00063 J	NS	NS
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0051)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	0.01 J	0.0036	0.0053
Barium	0.068 J	0.026	0.038
Cadmium	0.00044 J	0.00019 J	0.00013 J
Chromium Total	0.0013	0.00054 J	0.00089
Cobalt	0.016 J	0.0076	0.014
Lead	0.00029 J	0.00037 J	0.0003 J
Manganese	3.2 J (IDW,RDW)	2.1 (RDW)	2.4 (RDW)
Nickel	0.028 J	0.011	0.039
Vanadium	ND(0.0008)	0.00027 J	0.00024 J
Zinc	0.016 J	ND(0.035 J)	0.0095
Inorganic-Dissolved			
Arsenic	ND(0.0075)	0.0019	NS
Barium	0.044	0.019	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	ND(0.0006)	ND(0.0006)	NS
Cobalt	0.01	0.0059	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	2.5 (RDW)	1.6 (RDW)	NS
Nickel	0.016	0.0092	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS
Zinc	0.014	0.011 J	NS

RFI-81-50	4/4/2005
Inorganic	
Arsenic	NS
Barium	NS
Cadmium	NS
Chromium Total	NS
Cobalt	NS
Lead	ND(0.003) /ND(0.003)
Manganese	NS
Nickel	NS
Vanadium	NS
Zinc	NS

70-160	9/26/2001	6/17/2002	3/28/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	NS
1,1-Dichloroethane	ND(0.001)	ND(0.001)	NS
1,1-Dichloroethene	ND(0.001)	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	NS
Tetrachloroethene	ND(0.001)	ND(0.001 J)	NS
Trichloroethene	ND(0.001)	ND(0.001)	NS
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	NS
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0054)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.02	0.024 /0.025
Barium	NS	0.28	0.29 /0.29
Cadmium	NS	ND(0.0002)	ND(0.0002) /ND(0.0002)
Chromium Total	NS	ND(0.0006)	0.0014 /0.0014
Cobalt	NS	0.00034	0.00096 /0.00094
Lead	NS	0.000083 J	0.00042 /0.00042
Manganese	NS	0.11 J	0.14 /0.14
Nickel	NS	0.0023	0.0096 /0.0097
Vanadium	NS	ND(0.0008)	0.0012 /0.0012
Zinc	NS	0.01	0.015 /0.016
Inorganic-Dissolved			
Arsenic	0.035	0.022	NS
Barium	0.31	0.27	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	ND(0.0006)	0.00072	NS
Cobalt	0.00034	0.00031	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	0.11	0.11	NS
Nickel	0.0032	0.0021	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS
Zinc	0.026	0.011	NS

RFI-81-03	9/28/2001	3/27/2003	2/28/2005
VOC			
1,1,1-Trichloroethane	ND(0.001)	NS	ND(0.001)
1,1-Dichloroethane	ND(0.001)	NS	ND(0.001)
1,1-Dichloroethene	ND(0.001)	NS	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	NS	ND(0.03)
Vinyl chloride	ND(0.001)	NS	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	0.00111 J	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.00091 J	NS
Barium	NS	0.086	NS
Cadmium	NS	0.000081 J	NS
Chromium Total	NS	0.0019	NS
Cobalt	NS	0.00033	NS
Lead	NS	0.00082	NS
Manganese	NS	0.045	NS
Nickel	NS	0.0076	NS
Vanadium	NS	0.00054 J	NS
Zinc	NS	0.013	NS
Inorganic-Dissolved			
Arsenic	ND(0.001)	NS	NS
Barium	0.059	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Cobalt	0.00073	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.52	NS	NS
Nickel	0.0045	NS	NS
Vanadium	ND(0.0008)	NS	NS
Zinc	0.0088	NS	NS

RFI-81-08	9/24/2001	6/17/2002	4/1/2003	10/7/2004	2/24/2005
VOC					
1,1,1-Trichloroethane	0.0012	0.0011	ND(0.001)	0.0004 J	ND(0.001)
1,1-Dichloroethane	0.0031	0.0011	0.0047	0.002	0.002
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0036	0.0014	0.05	0.025	0.024
Tetrachloroethene	ND(0.001 J)	ND(0.001 J)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.011 (IDW,RDW)	0.0077 (IDW,RDW)	0.0026	0.002	0.002
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.03)	ND(0.03)
Vinyl chloride	0.0067 (IDW,RDW)	0.0006 J	0.029 (IDW,RDW)	0.008 (IDW,RDW)	0.012 J (IDW,RDW)
SVOC					
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056)	NS	NS	NS	NS
PCB					
Total PCBs	ND(0.00011)	NS	NS	NS	NS
PCB-Dissolved					
Total PCBs	ND(0.00011)	NS	NS	NS	NS
Inorganic					
Arsenic	NS	0.0011 J	0.0073	NS	NS
Barium	NS	0.13	1	NS	NS
Cadmium	NS	ND(0.0002)	ND(0.0002)	NS	NS
Chromium Total	NS	0.00054 J	0.0013	NS	NS
Cobalt	NS	0.00058	0.0033	NS	NS
Lead	NS	0.00067	0.00039 J	ND(0.003)	NS
Manganese	NS	1.4 J (RDW)	3.3 J (IDW,RDW)	1.36 (RDW)	NS
Nickel	NS	0.015	0.031	NS	NS
Vanadium	NS	ND(0.0008)	ND(0.0008)	NS	NS
Zinc	NS	0.012	0.027	NS	NS
Inorganic-Dissolved					
Arsenic	0.0078 J	0.001	NS	NS	NS
Barium	0.43 J	0.14	NS	NS	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS	NS	NS
Chromium Total	0.00086	0.002	NS	NS	NS
Cobalt	0.0023	0.0006	NS	NS	NS
Lead	ND(0.0004)	ND(0.0004)	NS	NS	NS
Manganese	1.9 J (RDW)	1.6 (RDW)	NS	NS	NS
Nickel	0.016	0.015	NS	NS	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS	NS	NS
Zinc	0.021	0.014	NS	NS	NS



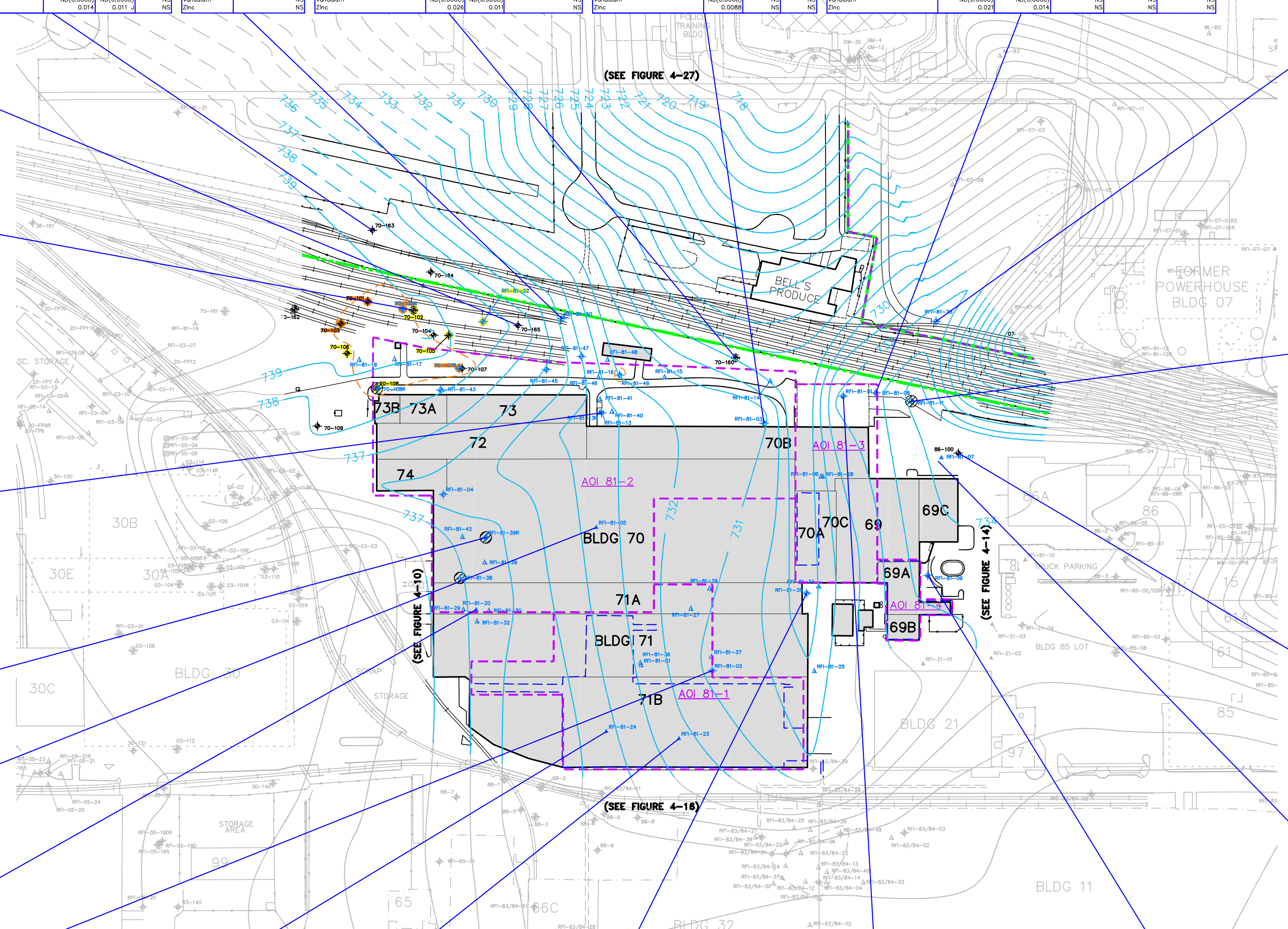
70-102	9/27/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.0051 J)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic	
Arsenic	0.0046 J
Barium	0.085 J
Cadmium	ND(0.0002)
Chromium Total	0.001
Cobalt	0.0011 J
Lead	0.0004 J
Manganese	0.46 J
Nickel	0.018 J
Vanadium	ND(0.0008)
Zinc	0.065 J
Inorganic-Dissolved	
Arsenic	0.0028 J
Barium	0.057
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006)
Cobalt	0.00091
Lead	ND(0.0004)
Manganese	0.41 J
Nickel	0.014
Vanadium	ND(0.0008)
Zinc	0.073

RFI-81-13	9/24/2001	3/27/2003
VOC		
1,1,1-Trichloroethane	0.00063 J	NS
1,1-Dichloroethane	0.0016	NS
1,1-Dichloroethene	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Tetrachloroethene	ND(0.001)	NS
Trichloroethene	0.0029	NS
Trifluorotrichloroethane (Freon 113)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)pyrene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
PCB		
Total PCBs	ND(0.00011)	NS
PCB-Dissolved		
Total PCBs	ND(0.00011)	NS
Inorganic		
Arsenic	NS	0.001 J
Barium	NS	0.5
Cadmium	NS	ND(0.0002)
Chromium Total	NS	0.00086
Cobalt	NS	0.00018 J
Lead	NS	0.00045
Manganese	NS	0.18
Nickel	NS	0.0057
Vanadium	NS	ND(0.0008)
Zinc	NS	0.016
Inorganic-Dissolved		
Arsenic	0.0023 J	NS
Barium	0.5 J	NS
Cadmium	ND(0.0002)	NS
Chromium Total	ND(0.0006)	NS
Cobalt	0.00028	NS
Lead	ND(0.0004)	NS
Manganese	0.16 J	NS
Nickel	0.0044	NS
Vanadium	ND(0.0008)	NS
Zinc	0.014	NS

RFI-81-39R	9/17/2003	10/11/2004
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.00069 J	0.0007 J
1,1-Dichloroethene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.03)
Vinyl chloride	ND(0.001)	ND(0.001)

RFI-81-05	9/19/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0021)
bis(2-Ethylhexyl)phthalate	ND(0.0051)
PCB	
Total PCBs	ND(0.00011)
PCB-Dissolved	
Total PCBs	ND(0.00012)

RFI-81-20	9/19/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)pyrene	ND(0.0022)
bis(2-Ethylhexyl)phthalate	ND(0.0056)
PCB	
Total PCBs	ND(0.00011)
PCB-Dissolved	
Total PCBs	ND(0.00011)



RFI-81-33	2/19/2002	6/20/2002	4/3/2003	10/6/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.03)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic				
Arsenic	NS	0.0056	0.0049	NS
Barium	NS	0.12	0.11	0.121
Cadmium	NS	ND(0.0002)	0.000072 J	ND(0.0005)
Chromium Total	NS	0.00046 J	0.00026 J	NS
Cobalt	NS	0.0013	0.0014	NS
Lead	NS	0.00025 J	0.00015 J	ND(0.003)
Manganese	NS	0.88 (RDW)	0.79 J	NS
Nickel	NS	0.0044	0.005	ND(0.005)
Vanadium	NS	ND(0.0008)	0.000098 J	NS
Zinc	NS	ND(0.015 J)	0.033	ND(0.005)
Inorganic-Dissolved				
Arsenic	NS	0.0048	NS	NS
Barium	NS	0.1	NS	NS
Cadmium	NS	ND(0.0002)	NS	NS
Chromium Total	NS	0.0033	NS	NS
Cobalt	NS	0.0012	NS	NS
Lead	NS	ND(0.0004)	NS	NS
Manganese	NS	0.77	NS	NS
Nickel	NS	0.0032	NS	NS
Vanadium	NS	0.00093	NS	NS
Zinc	NS	0.0083 J	NS	NS

RFI-81-11	9/24/2001	6/19/2002	4/1/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.0043	0.0036	0.0013
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.00055 J	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001 J)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0016	0.0012	ND(0.001)
SVOC			
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0055)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.00011)	NS	NS
Inorganic			
Arsenic	NS	0.011	0.0064
Barium	NS	0.22	1
Cadmium	NS	ND(0.0002)	ND(0.0002)
Chromium Total	NS	0.00097	0.0019
Cobalt	NS	0.00026	0.0012
Lead	NS	0.047 (IDW,RDW)	0.021 (IDW,RDW)
Manganese	NS	0.45	2 J (RDW)
Nickel	NS	0.0031	0.025
Vanadium	NS	0.0005 J	ND(0.0008)
Zinc	NS	0.015 J	0.025
Inorganic-Dissolved			
Arsenic	0.013 J	0.0097	NS
Barium	0.37 J	0.19	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	ND(0.0006)	0.003	NS
Cobalt	0.00029	0.00022	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	0.46 J	0.37 J	NS
Nickel	0.0043	0.0034	NS
Vanadium	ND(0.0008)	0.00085	NS
Zinc	0.012	0.013	NS

86-100	9/24/2001	6/18/2002	4/1/2003	10/7/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0052	0.047	0.0027	0.008
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0038	0.032 (IDW,RDW)	0.0018	0.007 (IDW,RDW)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.03)
Vinyl chloride	0.0034 (IDW,RDW)	0.047 J (IDW,RDW)	ND(0.001)	0.009 (IDW,RDW)
SVOC				
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056)	NS	NS	NS
PCB				
Total PCBs	ND(0.00011)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0029	0.003 J	NS
Barium	NS	1.2	0.66	1.44
Cadmium	NS	0.00035	0.0098 (IDW,RDW)	0.0008
Chromium Total	NS	0.0006 J	0.0034	NS
Cobalt	NS	0.0019	0.072 (RDW)	NS
Lead	NS	0.0034	0.033 (IDW,RDW)	0.006 (IDW,RDW)
Manganese	NS	1.2 (RDW)	1.7 J (RDW)	NS
Nickel	NS	0.0098	0.24 (IDW,RDW)	0.006
Vanadium	NS	ND(0.0008)	ND(0.0008)	NS
Zinc	NS	0.068 J	6 (IDW,RDW)	0.042
Inorganic-Dissolved				
Arsenic	0.0058	NS	NS	NS
Barium	2.5 (IDW,RDW)	NS	NS	NS
Cadmium	0.00084	NS	NS	NS
Chromium Total	ND(0.0006)	NS	NS	NS
Cobalt	0.0049	NS	NS	NS
Lead	0.0013	NS	NS	NS
Manganese	1.1 (RDW)	NS	NS	NS
Nickel	0.014	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS
Zinc	0.14	NS	NS	NS

RFI-81-02	10/13/2001	6/20/2002	4/2/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	0.00054 J	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0029 J	0.0011	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0019	ND(0.001)	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.012 (IDW,RDW)	0.0072 (IDW,RDW)	0.01 (IDW,RDW)
SVOC			
Benzo(a)pyrene	ND(0.0021)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.08 (IDW,RDW)	0.091 (IDW,RDW)
Barium	NS	1	0.66
Cadmium	NS	ND(0.0002)	ND(0.0002)
Chromium Total	NS	0.0015	0.0023
Cobalt	NS	0.0038	0.0031
Lead	NS	0.0014	0.01 (IDW,RDW)
Manganese	NS	0.066	0.1 J
Nickel	NS	0.017	0.024
Vanadium	NS	ND(0.0008)	0.00075 J
Zinc	NS	ND(0.029 J)	0.026
Inorganic-Dissolved			
Arsenic	0.083 (IDW,RDW)	0.073 (IDW,RDW)	NS
Barium	0.54	0.87	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	0.0015	0.0055	NS
Cobalt	0.0019	0.0032	NS
Lead	0.00058	0.00043	NS
Manganese	0.058	0.058	NS
Nickel	0.008	0.015	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS
Zinc	0.026	0.02 J	NS

RFI-81-24	9/7/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	0.0028
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	0.0015
SVOC	
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.02
Barium	0.18
Cadmium	0.00025
Chromium Total	0.0013
Cobalt	0.00033
Lead	ND(0.0004)
Manganese	0.029
Nickel	0.0037
Vanadium	0.012 (RDW)
Zinc	0.01 J

RFI-81-23	9/7/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	0.00086 J
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	0.0017
SVOC	
Benzo(a)pyrene	ND(0.002 J)
bis(2-Ethylhexyl)phthalate	ND(0.005)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.039
Barium	0.48
Cadmium	ND(0.0002)
Chromium Total	0.00097
Cobalt	0.0012
Lead	ND(0.0004)
Manganese	0.14
Nickel	0.005
Vanadium	0.0082 (RDW)
Zinc	0.024 J

RFI-81-35	2/19/2002	6/18/2002	4/1/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	NS
1,1-Dichloroethane	ND(0.001)	ND(0.001)	NS
1,1-Dichloroethene	ND(0.001)	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	NS
Tetrachloroethene	ND(0.001)	ND(0.001)	NS
Trichloroethene	ND(0.001)	ND(0.001)	NS
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	NS
Inorganic			
Arsenic	NS	0.0096	0.0033
Barium	NS	0.063	0.1
Cadmium	NS	0.00013 J	ND(0.0002)
Chromium Total	NS	0.0037	0.0014
Cobalt	NS	0.00078	0.00031
Lead	NS	0.0061 (IDW,RDW)	0.0005
Manganese	NS	0.21	0.24 J
Nickel	NS	0.0045	0.006
Vanadium	NS	0.012 (RDW)	0.0028
Zinc	NS	0.02 J	0.0085

RFI-81-51	4/4/2005
VOC	
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)
1,1-Dichloroethane	0.004 /0.004
1,1-Dichloroethene	0.0006 J /0.0005 J
cis-1,2-Dichloroethene	0.162 (IDW,RDW) /0.159 (IDW,RDW)
Tetrachloroethene	ND(0.001) /ND(0.001)
Trichloroethene	0.0008 J /0.0008 J
Trifluorotrichloroethane (Freon 113)	ND(0.03) /ND(0.03)
Vinyl chloride	0.064 (IDW,RDW) /0.065 (IDW,RDW)

RFI-81-09	9/24/2001	2/22/2002	6/18/2002	4/1/2003
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Tetrachloroethene	0.0059 (IDW,RDW)	0.011 J (IDW,RDW)	0.01 J (IDW,RDW)	0.0028
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
SVOC				
Benzo(a)pyrene	ND(0.0021)	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS	NS	NS
PCB				
Total PCBs	ND(0.00012)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.00011)	NS	NS	NS
Inorganic-Dissolved				
Arsenic	0.0026 J	NS	NS	NS
Barium	0.24 J	NS	NS	NS
Cadmium	0.00021 J	NS	NS	NS
Chromium Total	ND(0.0006)	NS	NS	NS
Cobalt	0.002	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.7 J	NS	NS	NS
Nickel	0.006	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS
Zinc	0.0081	NS	NS	NS

RFI-81-07	7/27/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
1,1-Dichloroethane	ND(0.001)
1,1-Dichloroethene	ND(0.001)
cis-1,2-Dichloroethene	0.0019 J
Tetrachloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Trifluorotrichloroethane (Freon 113)	ND(0.001)
Vinyl chloride	0.0017 J
SVOC	
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.00637 (IDW,RDW)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0035 J
Barium	0.83
Cadmium	0.0013
Chromium Total	ND(0.0018)
Cobalt	0.0042
Lead	0.0067 (IDW,RDW)
Manganese	2.6 (IDW,RDW)
Nickel	0.091
Vanadium	0.016 (RDW)
Zinc	0.034

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
11. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FACTORY 81 (BUILDINGS 69, 70, 71, 72, 73, AND 74) AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-12

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C12.DWG

RFI-07-10	0 - 2 (ft)	6 - 8 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.038)
1,2-Dichloroethane	ND(0.04)	ND(0.038)
Benzene	ND(0.04)	ND(0.038)
Chloroethane	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.038)
Methylene chloride	0.036 J	0.035 J
Tetrachloroethene	ND(0.04)	ND(0.038)
Trichloroethene	ND(0.04)	ND(0.038)
Vinyl chloride	ND(0.079)	ND(0.077)
SVOC		
2-Methylnaphthalene	ND(0.2)	ND(0.19)
Benzo(a)pyrene	ND(0.2)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.19)
Pentachlorophenol	ND(0.77)	ND(0.75)
Inorganic		
Arsenic	4.9	18 (RDC)
Beryllium	0.33	0.23
Lead	11 J	6.5 J
Manganese	190 J	290 J
Selenium	0.33	0.15
Vanadium	27	18

RFI-07-09	0 - 2 (ft)
VOC	
1,1-Dichloroethene	ND(0.041)
1,2-Dichloroethane	ND(0.041)
Benzene	ND(0.041)
Chloroethane	ND(0.17)
cis-1,2-Dichloroethene	ND(0.041)
Methylene chloride	ND(0.17)
Tetrachloroethene	ND(0.041)
Trichloroethene	ND(0.041)
Vinyl chloride	ND(0.041)
SVOC	
2-Methylnaphthalene	0.173 J
Benzo(a)pyrene	0.0472 J
bis(2-Ethylhexyl)phthalate	ND(0.2)
Pentachlorophenol	ND(0.78)
Inorganic	
Arsenic	4.6
Beryllium	0.51
Lead	81 J
Manganese	900 J
Selenium	0.24 J
Vanadium	21

RFI-07-04	0 - 2 (ft)	4 - 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.051)	ND(0.043)
1,2-Dichloroethane	ND(0.051)	ND(0.043)
Benzene	0.2	ND(0.043)
Chloroethane	ND(0.22)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.051)	ND(0.043)
Methylene chloride	ND(0.22)	ND(0.18)
Tetrachloroethene	ND(0.051)	ND(0.043)
Trichloroethene	ND(0.051)	ND(0.043)
Vinyl chloride	ND(0.051)	ND(0.043)
SVOC		
2-Methylnaphthalene	0.608	ND(0.21)
Benzo(a)pyrene	0.125 J	ND(0.21)
bis(2-Ethylhexyl)phthalate	ND(0.25)	ND(0.21)
Pentachlorophenol	ND(0.97)	ND(0.84)
Inorganic		
Arsenic	16 (RDC)	12 (RDC)
Beryllium	1.1	0.61
Lead	200 J	12 J
Manganese	390 J	510 J
Selenium	1.5	ND(0.11)
Vanadium	40	35

RFI-07-02	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)
VOC		
1,1-Dichloroethene	ND(0.038)	ND(0.041)
1,2-Dichloroethane	ND(0.038)	ND(0.041)
Benzene	ND(0.038)	ND(0.041)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.041)
Methylene chloride	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.041)
Trichloroethene	ND(0.038)	ND(0.041)
Vinyl chloride	ND(0.038)	ND(0.041)
SVOC		
2-Methylnaphthalene	ND(0.18)	ND(0.2)
Benzo(a)pyrene	0.0343 J	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)
Pentachlorophenol	ND(0.72)	ND(0.78)
Inorganic		
Arsenic	5.2	2.9
Beryllium	0.2	0.41
Lead	9.7	7.6
Manganese	300 J	180 J
Selenium	0.53 J	0.49 J
Vanadium	16	18

RFI-07-03	0 - 2 (ft)
VOC	
1,1-Dichloroethene	ND(0.039)
1,2-Dichloroethane	ND(0.039)
Benzene	ND(0.039)
Chloroethane	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)
Methylene chloride	ND(0.17)
Tetrachloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Vinyl chloride	ND(0.039)
SVOC	
2-Methylnaphthalene	ND(0.19)
Benzo(a)pyrene	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)
Pentachlorophenol	ND(0.76)
Inorganic	
Arsenic	3.5
Beryllium	0.31
Lead	30 J
Manganese	160 J
Selenium	0.33 J
Vanadium	16

RFI-07-11	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.04)	ND(0.037)
1,2-Dichloroethane	ND(0.039)	ND(0.04)	ND(0.037)
Benzene	ND(0.039)	ND(0.04)	ND(0.037)
Chloroethane	ND(0.17)	ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04)	ND(0.037)
Methylene chloride	0.049 J	ND(0.17)	ND(0.16)
Tetrachloroethene	ND(0.039 J)	ND(0.04)	ND(0.037)
Trichloroethene	ND(0.039)	ND(0.04)	ND(0.037)
Vinyl chloride	ND(0.078)	ND(0.08)	ND(0.074)
SVOC			
2-Methylnaphthalene	ND(0.19)	ND(0.2)	ND(0.18)
Benzo(a)pyrene	ND(0.19)	ND(0.2)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.2)	ND(0.18)
Pentachlorophenol	ND(0.76)	ND(0.77)	ND(0.72)
Inorganic			
Arsenic	6.1	5.1	6.1
Beryllium	0.35	0.48	0.39
Lead	42 J	6.8	6.8
Manganese	860 J	200 J	220 J
Selenium	0.34	ND(0.25)	ND(0.19)
Vanadium	21	27	26

RFI-07-06	0.5 - 2.5 (ft)	6.5 - 8.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.036)	ND(0.04)
1,2-Dichloroethane	ND(0.036)	ND(0.04)
Benzene	ND(0.036)	ND(0.04)
Chloroethane	ND(0.15)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.04)
Methylene chloride	ND(0.15)	ND(0.17)
Tetrachloroethene	0.23	0.23
Trichloroethene	ND(0.036)	ND(0.04)
Vinyl chloride	ND(0.036)	ND(0.04)
SVOC		
2-Methylnaphthalene	ND(0.18)	ND(0.2)
Benzo(a)pyrene	ND(0.18)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)
Pentachlorophenol	ND(0.69)	ND(0.77)
Inorganic		
Arsenic	3.4	3.1
Beryllium	0.14	0.14
Lead	12 J	4.1 J
Manganese	160 J	100 J
Selenium	ND(0.19)	ND(0.31)
Vanadium	8.8	9.8

RFI-07-01	0.3 - 2.3 (ft)	2.3 - 4.3 (ft)
VOC		
1,1-Dichloroethene	ND(0.041)	ND(0.04)
1,2-Dichloroethane	ND(0.041)	ND(0.04)
Benzene	ND(0.041)	ND(0.04)
Chloroethane	ND(0.18)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.04)
Methylene chloride	ND(0.18)	0.035 J
Tetrachloroethene	ND(0.041)	ND(0.04)
Trichloroethene	ND(0.041)	ND(0.04)
Vinyl chloride	ND(0.041)	ND(0.04)
SVOC		
2-Methylnaphthalene	ND(0.2)	ND(0.2)
Benzo(a)pyrene	ND(0.2)	0.097 J
bis(2-Ethylhexyl)phthalate	0.074 J	ND(0.2)
Pentachlorophenol	ND(0.8)	ND(0.78)
Inorganic		
Arsenic	4.8	6.1
Beryllium	0.29	0.35
Lead	8.1	32
Manganese	380 J	410 J
Selenium	ND(0.7)	ND(0.73)
Vanadium	13	20

RFI-07-01R	4 - 6 (ft)
VOC	
1,1-Dichloroethene	ND(0.041)
1,2-Dichloroethane	ND(0.041)
Benzene	ND(0.041)
Chloroethane	ND(0.18)
cis-1,2-Dichloroethene	ND(0.041)
Methylene chloride	0.1 J
Tetrachloroethene	ND(0.041)
Trichloroethene	ND(0.041)
Vinyl chloride	ND(0.082)
SVOC	
2-Methylnaphthalene	0.246
Benzo(a)pyrene	4.04 J (RDC)
bis(2-Ethylhexyl)phthalate	0.965 J
Pentachlorophenol	ND(0.79)
Inorganic	
Arsenic	8.4 (RDC)
Beryllium	0.59 J
Lead	12 J
Manganese	290
Selenium	ND(0.063)
Vanadium	48

RFI-07-08	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
1,1-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.037)
1,2-Dichloroethane	ND(0.036)	ND(0.037)	ND(0.037)
Benzene	ND(0.036)	ND(0.037)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.16 J)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.037)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.16)
Tetrachloroethene	ND(0.036)	ND(0.037)	ND(0.037 J)
Trichloroethene	ND(0.036)	ND(0.037)	ND(0.037)
Vinyl chloride	ND(0.036)	ND(0.037)	ND(0.037)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.18)	ND(0.18)
Benzo(a)pyrene	0.0475 J	ND(0.18)	ND(0.18)
bis(2-Ethylhexyl)phthalate	0.0579 J	ND(0.18)	ND(0.18)
Pentachlorophenol	ND(0.69)	ND(0.7)	ND(0.7)
Inorganic			
Arsenic	6.5	6.7	4.8
Beryllium	0.35	0.061 J	0.08
Lead	36	2.8	2.9
Manganese	730	75	130
Selenium	0.5 J	0.059 J	ND(0.074)
Vanadium	23	7	6.9

RFI-07-07	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	14.5 - 16.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.046)
1,2-Dichloroethane	ND(0.038)	ND(0.038)	ND(0.046)
Benzene	ND(0.038)	ND(0.038)	ND(0.046)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.2)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.046)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.2)
Tetrachloroethene	ND(0.038)	ND(0.038)	ND(0.046)
Trichloroethene	ND(0.038)	ND(0.038)	ND(0.046)
Vinyl chloride	ND(0.038)	ND(0.038)	ND(0.046)
SVOC			
2-Methylnaphthalene	ND(0.19)	ND(0.18)	ND(0.22)
Benzo(a)pyrene	ND(0.19)	ND(0.18)	ND(0.22 J)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.18)	ND(0.22 J)
Pentachlorophenol	ND(0.73)	ND(0.71)	ND(0.86 J)
Inorganic			
Arsenic	4.1	28 (RDC)	4.4
Beryllium	0.19	0.11	0.14
Lead	5.1 J	3.3	4 J
Manganese	220 J	170	110 J
Selenium	ND(0.25)	ND(0.098)	ND(0.26)
Vanadium	14	7.2	8.8

RFI-86-03	2 - 4 (ft)	4 - 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.043)	ND(0.042)
1,2-Dichloroethane	ND(0.043)	ND(0.042)
Benzene	ND(0.043)	ND(0.042)
Chloroethane	ND(0.18)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.043)	ND(0.042)
Methylene chloride	ND(0.18)	ND(0.18)
Tetrachloroethene	0.06	0.055
Trichloroethene	0.2	0.15
Vinyl chloride	ND(0.043)	ND(0.042)
SVOC		
2-Methylnaphthalene	ND(0.21)	ND(0.2)
Benzo(a)pyrene	ND(0.21)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.21)	ND(0.2)
Pentachlorophenol	ND(0.82)	ND(0.8)
Inorganic		
Arsenic	9.8 (RDC)	34 (RDC)
Beryllium	0.98	0.14
Lead	14 J	4.7 J
Manganese	400	130
Selenium	0.19 J	0.28 J
Vanadium	48	13

RFI-86-04	1 - 3 (ft)	3 - 5 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.04)
1,2-Dichloroethane	ND(0.04 J)	ND(0.04)
Benzene	ND(0.04)	ND(0.04)
Chloroethane	ND(0.17)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.04)
Methylene chloride	ND(0.17 J)	ND(0.17 J)
Tetrachloroethene	ND(0.04)	ND(0.04)
Trichloroethene	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.04)	ND(0.04)
SVOC		
2-Methylnaphthalene	ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.177 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.19)
Pentachlorophenol	ND(0.75)	ND(0.76)
Inorganic		
Arsenic	4.5	4.5
Beryllium	0.29	0.15
Lead	630 J (RDC)	460 J (RDC)
Manganese	270 J	280 J
Selenium	ND(0.63 J)	ND(0.33 J)
Vanadium	15	9.3

RFI-86-08	0.6 - 2.6 (ft)	8.6 - 10.6 (ft)	10.6 - 12.6 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.045)	ND(0.044)
1,2-Dichloroethane	ND(0.038)	ND(0.045)	ND(0.044)
Benzene	0.08	ND(0.045)	ND(0.044)
Chloroethane	ND(0.16)	ND(0.19)	0.18 J
cis-1,2-Dichloroethene	ND(0.038)	0.097	ND(0.044)
Methylene chloride	ND(0.16)	ND(0.19)	ND(0.19)
Tetrachloroethene	0.11 J	ND(0.045)	ND(0.044)
Trichloroethene	5.5 D	3.3	ND(0.044)
Vinyl chloride	ND(0.038)	ND(0.045)	ND(0.044)
SVOC			
2-Methylnaphthalene	0.131 J	ND(0.22)	ND(0.21)
Benzo(a)pyrene	1.7	ND(0.22)	ND(0.21)
bis(2-Ethylhexyl)phthalate	0.151 J	ND(0.22)	ND(0.21)
Pentachlorophenol	ND(0.74)	ND(0.85)	ND(0.83)
Inorganic			
Arsenic	8.4 (RDC)	12 (RDC)	9.5 (RDC)
Beryllium	0.87	1.3	0.86
Lead	170 J	99 J	14 J
Manganese	370 J	820 J	410 J
Selenium	0.65	ND(0.47)	0.66
Vanadium	18	23	38

RFI-86-05	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.041)
1,2-Dichloroethane	ND(0.038)	ND(0.038)	ND(0.041)
Benzene	ND(0.038)	ND(0.038)	ND(0.041)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.041)
Methylene chloride	ND(0.16)	0.14 J	0.15 J
Tetrachloroethene	0.077	0.18	0.054
Trichloroethene	0.16	0.081	ND(0.041)
Vinyl chloride	ND(0.038)	ND(0.038)	ND(0.041)
SVOC			
2-Methylnaphthalene	ND(0.19)	ND(0.18)	ND(0.19)
Benzo(a)pyrene	ND(0.19)	ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.331 J	0.474 J	0.217 J
Pentachlorophenol	ND(0.75)	ND(0.71)	ND(0.77)
Inorganic			
Arsenic	5.8	3.1	4
Beryllium	0.6	0.25	0.36
Lead	27 J	7.6 J	10 J
Manganese	1000	490	310
Selenium	0.66	0.23 J	0.26 J
Vanadium	16	11	15

RFI-85-07	0.5 - 2.5 (ft)	8 - 10 (ft)	11 - 13 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.043)	ND(0.042)
1,2-Dichloroethane	ND(0.039)	ND(0.043)	ND(0.042)
Benzene	0.042	ND(0.043)	ND(0.042)
Chloroethane	ND(0.17 J)	ND(0.19 J)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.043)	ND(0.042)
Methylene chloride	ND(0.17)	ND(0.19)	ND(0.18)
Tetrachloroethene	ND(0.039 J)	ND(0.043 J)	ND(0.042)
Trichloroethene	ND(0.039)	ND(0.043)	ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.043)	ND(0.042)
SVOC			
2-Methylnaphthalene	0.124 J	ND(0.21)	0.823
Benzo(a)pyrene	0.15 J	ND(0.21)	ND(0.21)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.21)	ND(0.21)
Pentachlorophenol	ND(0.75)	ND(0.82)	ND(0.82)
Inorganic			
Arsenic	8.7 (RDC)	5.2	7.2
Beryllium	1	0.43	0.55
Lead	66	10	12
Manganese	140	340	490
Selenium	0.21	0.25 J	ND(0.081)
Vanadium	17	20	31

RFI-81-10	0.3 - 2.3 (ft)	8.3 - 10.3 (ft)	10.3 - 12.3 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.039)	ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.039)	ND(0.04)
Benzene	ND(0.038)	ND(0.039)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.17)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)	ND(0.04)
Methylene chloride	0.032 J	0.14 J	0.033 J
Tetrachloroethene	ND(0.038)	0.13	0.05
Trichloroethene	ND(0.038)	0.056	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.039)	ND(0.04)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.621 J	ND(0.19)	0.0432 J
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)	ND(0.19)
Pentachlorophenol	ND(0.71)	ND(0.74)	ND(0.75)
Inorganic			
Arsenic	4.7	3.4	3.4
Beryllium	0.41	0.15	0.17
Lead	38 J	360 J	220 J
Manganese	940	140	120
Selenium	0.39 J	0.083 J	0.068 J
Vanadium	14	8.2	9.5

RFI-21-03	1 - 3 (ft)	9 - 11 (ft)
VOC		
1,1-Dichloroethene	ND(0.037)	ND(0.039)
1,2-Dichloroethane	ND(0.037)	ND(0.039)
Benzene	ND(0.037)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.039)
Methylene chloride	0.034 J	0.03 J
Tetrachloroethene	ND(0.037)	ND(0.039)
Trichloroethene	ND(0.037)	ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.039)
SVOC		
2-Methylnaphthalene	0.209 J	ND(0.19)
Benzo(a)pyrene	0.199 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)
Pentachlorophenol	ND(0.71)	ND(0.76)
Inorganic		
Arsenic	10 (RDC)	21 (RDC)
Beryllium	0.93	0.42
Lead	40 J	31 J
Manganese	910	1300
Selenium	0.68	0.74
Vanadium	21	27

RFI-21-04	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)	10.7 - 12.7 (ft)
VOC			
1,1-Dichloroethene	ND(0.037)	ND(0.038)	ND(0.043)
1,2-Dichloroethane	ND(0.037)	ND(0.038)	ND(0.043)
Benzene	ND(0.037)	ND(0.038)	ND(0.043)
Chloroethane	ND(0.16 J)	ND(0.16 J)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)	ND(0.043)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.18)
Tetrachloroethene	ND(0.037 J)	ND(0.038 J)	ND(0.043)
Trichloroethene	0.04	ND(0.038)	ND(0.043)
Vinyl chloride	ND(0.037)	ND(0.038)	ND(0.043)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.19)	ND(0.21)
Benzo(a)pyrene	0.524 J	ND(0.19)	ND(0.21)
bis(2-Ethylhexyl)phthalate	0.0641 J	ND(0.19)	ND(0.21)
Pentachlorophenol	ND(0.71)	ND(0.74)	ND(0.82)
Inorganic			
Arsenic	3.1	4.8	6.8
Beryllium	0.18	0.26	0.7
Lead	140	11	11
Manganese	450	660	580
Selenium	ND(0.071)	ND(0.078)	ND(0.084)
Vanadium	9	20	39

RFI-21-01	0.9 - 2.9 (ft)	6.9 - 8.9 (ft)
VOC		
1,1-Dichloroethene	ND(0.038)	ND(0.039)
1,2-Dichloroethane	ND(0.038)	ND(0.039)
Benzene	ND(0.038)	ND(0.039)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)
Methylene chloride	ND(0.16 J)	ND(0.17 J)
Tetrachloroethene	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.039)
SVOC		
2-Methylnaphthalene	ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.103 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.19)
Pentachlorophenol	ND(0.73)	ND(0.77)
Inorganic		
Arsenic	10 (RDC)	10 (RDC)
Beryllium	1.2 J	0.52 J
Lead	50	11
Manganese	480 J	340 J
Selenium	0.26 J	0.19 J
Vanadium	16	26

RFI-21-02	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.039)
1,2-Dichloroethane	ND(0.039)	ND(0.039)
Benzene	ND(0.039)	ND(0.039)
Chloroethane	ND(0.17)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.039)
Methylene chloride	ND(0.17 J)	ND(0.17 J)
Tetrachloroethene	0.035 J	ND(0.039)
Trichloroethene	0.035 J	ND(0.039)
Vinyl chloride	ND(0.039)	ND(0.039)
SVOC		
2-Methylnaphthalene	0.15 J	ND(0.19)
Benzo(a)pyrene	0.142 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19)
Pentachlorophenol	ND(0.76)	ND(0.75)
Inorganic		
Arsenic	7.9 (RDC)	5.3
Beryllium	0.41 J	0.21 J
Lead	54	13
Manganese	1400 J	250 J
Selenium	0.42 J	0.22 J
Vanadium	19	17

RFI-85-06	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)	10.7 - 12.7 (ft)
VOC			
1,1-Dichloroethene	ND(0.037)	ND(0.041)	ND(0.037)
1,2-Dichloroethane	ND(0.037 J)	ND(0.041 J)	ND(0.037 J)
Benzene	ND(0.037)	ND(0.041)	ND(0.037)
Chloroethane	ND(0.16)	ND(0.18)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.041)	ND(0.037)
Methylene chloride	ND(0.16 J)	ND(0.18 J)	ND(0.16 J)
Tetrachloroethene	ND(0.037)	ND(0.041)	2.2
Trichloroethene	ND(0.037)	ND(0.041)	2.8
Vinyl chloride	ND(0.037)	ND(0.041)	ND(0.037)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.2)	ND(0.18)
Benzo(a)pyrene	0.0343 J	ND(0.2)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)	ND(0.18)
Pentachlorophenol	ND(0.73)	ND(0.77)	ND(0.72)
Inorganic			
Arsenic	3.2	3.1	3.1
Beryllium	0.18 J	0.18 J	0.095 J
Lead	5.8	3	3.7
Manganese	130 J	87 J	100 J
Selenium	0.2 J	0.19 J	0.17 J
Vanadium	10	9.8	6.9

RFI-85-02	1.3 - 3.3 (ft)	7.3 - 9.3 (ft)	9.3 - 11.3 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.043)	ND(0.038)
1,2-Dichloroethane	ND(0.038 J)	ND(0.043 J)	ND(0.038 J)
Benzene	ND(0.038)	ND(0.043)	ND(0.038)
Chloroethane	ND(0.16)	ND(0.18)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.043)	ND(0.038)
Methylene chloride	ND(0.16 J)	ND(0.18 J)	ND(0.16 J)
Tetrachloroethene	ND(0.038)	ND(0.043)	ND(0.038)
Trichloroethene	0.081	ND(0.043)	0.28
Vinyl chloride	ND(0.038)	ND(0.043)	ND(0.038)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.21)	ND(0.18)
Benzo(a)pyrene	0.0339 J	ND(0.21)	ND(0.18)
bis(2-Ethylhexyl)phthalate	0.182	ND(0.21)	ND(0.18)
Pentachlorophenol	ND(0.71)	ND(0.83)	ND(0.71)
Inorganic			
Arsenic	2.5	4.7	2.8
Beryllium	0.21 J	0.56 J	0.081 J
Lead	6.3	8.3	2.8
Manganese	120 J	190 J	97 J
Selenium	0.16 J	0.18 J	0.094 J
Vanadium	9.2	29	6.8

RFI-85-08	0.5 - 2.5 (ft)	6.5 - 8.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.037 J)	ND(0.04 J)
1,2-Dichloroethane	ND(0.037 J)	ND(0.04 J)
Benzene	ND(0.037 J)	ND(0.04 J)
Chloroethane	ND(0.16 J)	ND(0.17 J)
cis-1,2-Dichloroethene	ND(0.037 J)	ND(0.04 J)
Methylene chloride	0.07 J	0.09 J
Tetrachloroethene	ND(0.037 J)	ND(0.04 J)
Trichloroethene	ND(0.037 J)	ND(0.04 J)
Vinyl chloride	ND(0.037 J)	ND(0.04 J)
SVOC		
2-Methylnaphthalene	ND(1.8)	ND(0.19)
Benzo(a)pyrene	ND(1.8)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(1.8)	ND(0.19)
Pentachlorophenol	ND(7.2)	ND(0.75)
Inorganic		
Arsenic	4.2 J	2.3 J
Beryllium	0.26	0.13
Lead	27 J	37 J
Manganese	370 J	150 J
Selenium	ND(0.064 J)	0.04 J
Vanadium	14 J	9.6 J

RFI-85-03	1 - 3 (ft)	5 - 7 (ft)
VOC		
1,1-Dichloroethene	ND(0.038)	ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.04)
Benzene	ND(0.038)	ND(0.04)
Chloroethane	ND(0.16)	ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.17)
Tetrachloroethene	ND(0.038)	ND(0.04)
Trichloroethene	0.043	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.04)
SVOC		
2-Methylnaphthalene	0.0799 J	ND(0.2)
Benzo(a)pyrene	0.107 J	0.0667 J
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)
Pentachlorophenol	ND(0.71)	ND(0.77)
Inorganic		
Arsenic	3.1	2.2
Beryllium	0.18	0.19
Lead	25 J	85 J
Manganese	230	400
Selenium	0.29 J	0.27 J
Vanadium	9.8	13

RFI-86-02	1 - 3 (ft)	7 - 9 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.037) /ND(0.037)
1,2-Dichloroethane	ND(0.039)	ND(0.037) /ND(0.037)
Benzene	ND(0.039)	ND(0.037) /ND(0.037)
Chloroethane	ND(0.17)	ND(0.16 J) /ND(0.16)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.037) /ND(0.037)
Methylene chloride	ND(0.17 J)	ND(0.16) /ND(0.16 J)
Tetrachloroethene	ND(0.039)	ND(0.037) /ND(0.037)
Trichloroethene	ND(0.039)	ND(0.037) /ND(0.037)
Vinyl chloride	ND(0.039)	ND(0.037) /ND(0.037)
SVOC		
2-Methylnaphthalene	ND(0.19)	7.35 /7.41
Benzo(a)pyrene	ND(0.19)	ND(0.9 J) /ND(0.89 J)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.9 J) /ND(0.89 J)
Pentachlorophenol	ND(0.74)	ND(3.5) /ND(3.5)
Inorganic		
Arsenic	2.7	3.5 /2.9
Beryllium	0.13 J	0.095 J /0.088 J
Lead	2.8	6 /3.6
Manganese	80 J	120 J /85 J
Selenium	0.41 J	0.33 J /0.32 J
Vanadium	10	12 /8.6

RFI-85-05	1 - 3 (ft)	5 - 7 (ft)	9 - 11 (ft)	17 - 19 (ft)
VOC				
1,1-Dichloroethene	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
1,2-Dichloroethane	ND(0.037) /ND(0.038 J)	ND(0.038 J)	ND(0.038 J)	ND(0.044)
Benzene	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
Chloroethane	ND(0.16) /ND(0.16)	ND(0.16)	ND(0.16)	ND(0.19)
cis-1,2-Dichloroethene	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
Methylene chloride	ND(0.16 J) /ND(0.16 J)	ND(0.16 J)	ND(0.16 J)	ND(0.19 J)
Tetrachloroethene	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
Trichloroethene	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
Vinyl chloride	ND(0.037) /ND(0.038)	ND(0.038)	ND(0.038)	ND(0.044)
SVOC				
2-Methylnaphthalene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.18)	ND(0.21)
Benzo(a)pyrene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.18)	ND(0.21)
bis(2-Ethylhexyl)phthalate	0.0704 J /0.147 J	0.126	0.108	0.134 J
Pentachlorophenol	ND(0.72) /ND(0.71)	ND(0.72)	ND(0.72)	ND(0.84)
Inorganic				
Arsenic	2.7 /3.1	3.4	3.8	6.1
Beryllium	0.14 /0.14	0.17	0.14	0.59
Lead	6.6 J /6.9 J	5.5 J	5.5 J	10 J
Manganese	260 J /250 J	100 J	100 J	310 J
Selenium	ND(0.2) /ND(0.12)	ND(0.42 J)	ND(0.22)	ND(0.15)
Vanadium	9.8 /9.1	11	11	31

RFI-85-04	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	12.5 - 14.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
Benzene	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
Chloroethane	ND(0.16 J)	ND(0.16) /ND(0.16)	ND(0.16 J)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
Methylene chloride	ND(0.16)	ND(0.16 J) /ND(0.16 J)	ND(0.16)
Tetrachloroethene	ND(0.036 J)	ND(0.036) /ND(0.038)	ND(0.038)
Trichloroethene	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.036) /ND(0.038)	ND(0.038)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.18) /ND(0.18)	ND(0.18)
Benzo(a)pyrene	ND(0.18)	ND(0.18) /ND(0.18)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.18) /ND(0.18)	ND(0.18)
Pentachlorophenol	ND(0.7)	ND(0.71) /ND(0.72)	ND(0.72)
Inorganic			
Arsenic	3.5	4.3 /3.6	5
Beryllium	0.15	0.17 J /0.12 J	0.21 J
Lead	4.8	5.2 /5	4.7
Manganese	94	120 J /120 J	110 J
Selenium	ND(0.072)	0.25 J /0.19 J	0.23 J
Vanadium	11	12 /11	10

RFI-86-07	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)
VOC		
1,1-Dichloroethene	ND(0.04) /ND(0.04)	ND(0.045)
1,2-Dichloroethane	ND(0.04) /ND(0.04 J)	ND(0.045)
Benzene	0.0074 J /ND(0.04)	ND(0.045)
Chloroethane	ND(0.17) /ND(0.17)	ND(0.19)
cis-1,2-Dichloroethene	ND(0.04 J) /ND(0.04 J)	ND(0.045 J)
Methylene chloride	ND(0.17) /ND(0.17)	ND(0.19)
Tetrachloroethene	ND(0.04 J) /ND(0.04 J)	ND(0.045 J)
Trichloroethene	ND(0.04) /ND(0.04)	ND(0.045)
Vinyl chloride	ND(0.04) /ND(0.04)	ND(0.045)
SVOC		
2-Methylnaphthalene	ND(0.19) /ND(0.19)	ND(0.22)
Benzo(a)pyrene	0.0705 J /0.0458 J	ND(0.22)
bis(2-Ethylhexyl)phthalate	0.0705 J /ND(0.19)	ND(0.22)
Pentachlorophenol	ND(0.75) /ND(0.76)	ND(0.85)
Inorganic		
Arsenic	110 J (IDC,RDC) /110 J (IDC,RDC)	9.1 J (RDC)
Beryllium	0.15 J /ND(0.2)	0.76 J
Lead	7.3 J /7.5 J	12 J
Manganese	18 J /18 J	640 J
Selenium	4.8 /4.8	ND(2.1)
Vanadium	15 /16	30

RFI-86-12	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)
Inorganic		
Arsenic	56 (IDC,RDC)	4.7
Beryllium	NS	NS
Lead	NS	NS
Manganese	NS	NS
Selenium	NS	NS
Vanadium	NS	NS

RFI-86-18	1 - 3 (ft)
Inorganic	
Arsenic	19 J (RDC)
Beryllium	NS
Lead	NS
Manganese	NS
Selenium	NS
Vanadium	NS

RFI-86-11	0.7 - 2.7 (ft)	2.7 - 4.7 (ft)
Inorganic		
Arsenic	35 (RDC)	8.5 (RDC)
Beryllium	NS	NS
Lead	NS	NS
Manganese	NS	NS
Selenium	NS	NS
Vanadium	NS	NS

RFI-86-17	1 - 3 (ft)
Inorganic	
Arsenic	190 J (IDC,RDC)
Beryllium	NS
Lead	NS
Manganese	NS
Selenium	NS
Vanadium	NS

RFI-86-13	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)
Inorganic		
Arsenic	11 (RDC)	6.2
Beryllium	NS	NS
Lead	NS	NS
Manganese	NS	NS
Selenium	NS	NS
Vanadium	NS	NS

RFI-02-08	0.7 - 2 (ft)	4 - 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.042)
1,2-Dichloroethane	ND(0.039)	ND(0.042)
Benzene	0.011 J	ND(0.042)
Chloroethane	ND(0.17)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.042)
Methylene chloride	0.021 J	0.017 J
Tetrachloroethene	ND(0.039)	ND(0.042)
Trichloroethene	ND(0.039)	ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.042)
SVOC		
2-Methylnaphthalene	ND(0.19)	ND(0.2)
Benzo(a)pyrene	0.564	ND(0.2)
bis(2-Ethylhexyl)phthalate	0.308	ND(0.2)
Pentachlorophenol	ND(0.75)	ND(0.8)
Inorganic		
Arsenic	10 J (RDC)	4.1 J
Beryllium	0.64 J	0.86 J
Lead	190 J	10 J
Manganese	1300 J	280 J
Selenium	1.9	1.5 J
Vanadium	25	37

RFI-86-01	0.5 - 2.5 (ft)	4.5 - 6.5 (ft)	8.5 - 10.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.037)	ND(0.04) /ND(0.04)
1,2-Dichloroethane	ND(0.038)	ND(0.037 J)	ND(0.04 J) /ND(0.04 J)
Benzene	0.1	ND(0.037)	ND(0.04) /ND(0.04)
Chloroethane	ND(0.16)	ND(0.16)	ND(0.17) /ND(0.17)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.037 J)	ND(0.04 J) /ND(0.04 J)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.17) /ND(0.17)
Tetrachloroethene	0.011 J	ND(0.037 J)	ND(0.04 J) /ND(0.04 J)
Trichloroethene	ND(0.038)	ND(0.037)	ND(0.04) /ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.037)	ND(0.04) /ND(0.04)
SVOC			
2-Methylnaphthalene	0.658	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(a)pyrene	3.85 J (RDC)	0.0733 J	ND(0.19) /ND(0.19)
bis(2-Ethylhexyl)phthalate	0.109 J	ND(0.18)	ND(0.19) /ND(0.19)
Pentachlorophenol	ND(0.74)	ND(0.72)	ND(0.77) /ND(0.76)
Inorganic			
Arsenic	12 J (RDC)	7.4 J	3.3 J /3 J
Beryllium	0.68 J	0.19 J	1.6 J /1.1 J
Lead	110 J	7.7 J	6.4 J /2.9 J
Manganese	380 J	230 J	3200 J (IPSIC) /1100 J
Selenium	0.89 J	ND(1.6)	ND(1.8) /ND(1.6)
Vanadium	15	14	13 /5.7

RFI-86-10	6.5 - 8.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Lead	NS
Manganese	320
Selenium	NS
Vanadium	NS

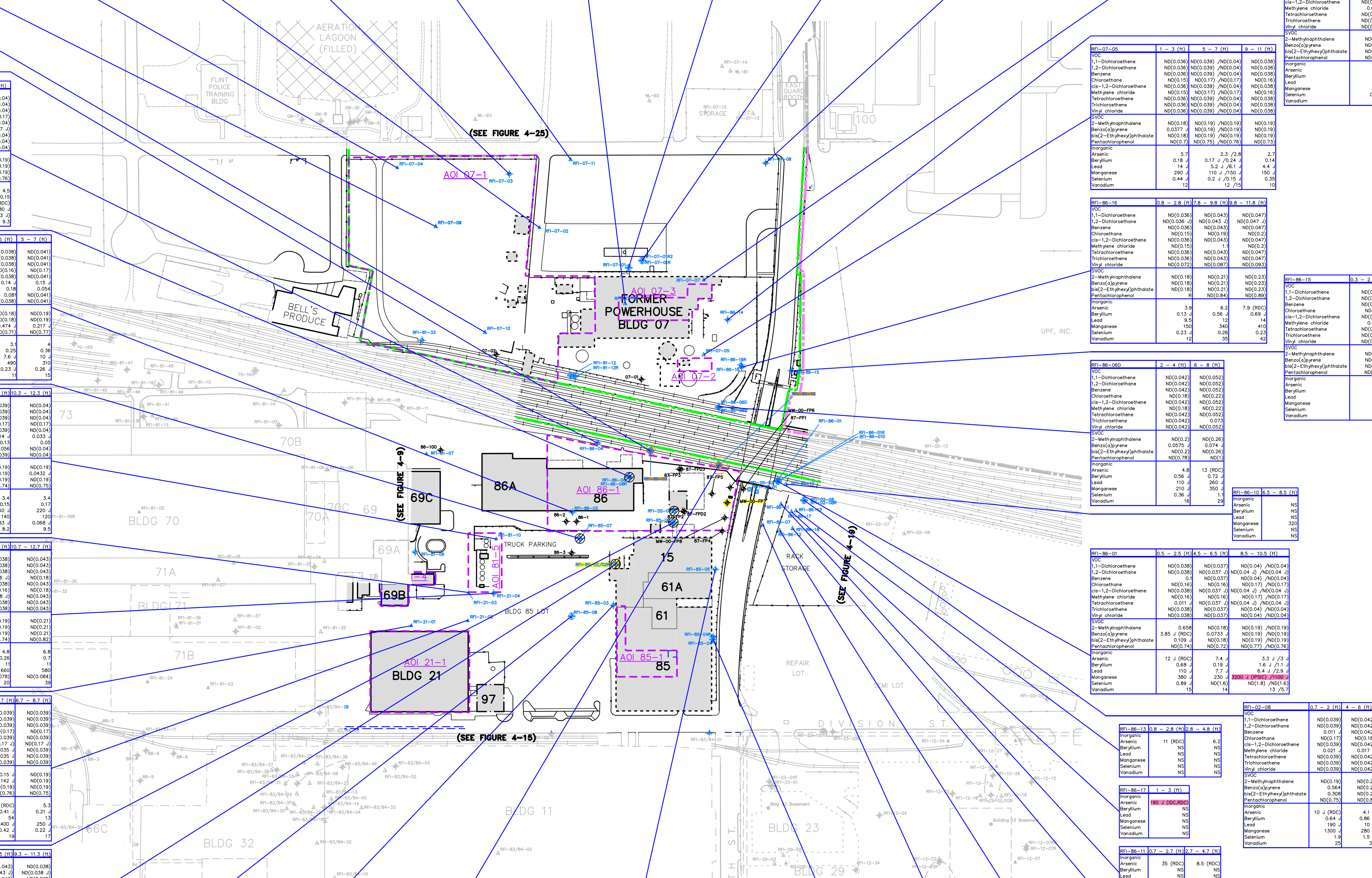
RFI-86-06D	2 - 4 (ft)	6 - 8 (ft)
VOC		
1,1-Dichloroethene	ND(0.042)	ND(0.052)
1,2-Dichloroethane	ND(0.042)	ND(0.052)
Benzene	ND(0.042)	ND(0.052)
Chloroethane	ND(0.18)	ND(0.22)
cis-1,2-Dichloroethene	ND(0.042)	ND(0.052)
Methylene chloride	ND(0.18)	ND(0.22)
Tetrachloroethene	ND(0.042)	ND(0.052)
Trichloroethene	ND(0.042)	0.073
Vinyl chloride	ND(0.042)	ND(0.052)
SVOC		
2-Methylnaphthalene	ND(0.2)	ND(0.26)
Benzo(a)pyrene	0.0575 J	0.074 J
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.26)
Pentachlorophenol	ND(0.78)	ND(1)
Inorganic		
Arsenic	4.8	13 (RDC)
Beryllium	0.56 J	0.72 J
Lead	110 J	260 J
Manganese	210 J	350 J
Selenium	0.36 J	1.1
Vanadium	16	29

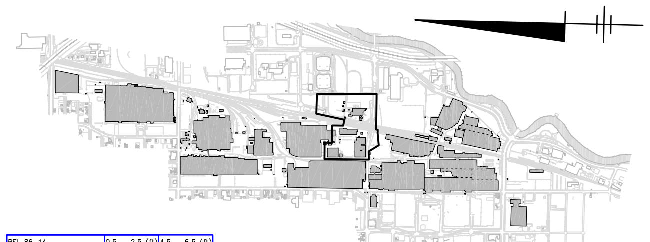
RFI-86-15	0.3 - 2.3 (ft)
VOC	
1,1-Dichloroethene	ND(0.039)
1,2-Dichloroethane	ND(0.039)
Benzene	ND(0.039)
Chloroethane	ND(0.17)
cis-1,2-Dichloroethene	ND(0.039)
Methylene chloride	0.031 J
Tetrachloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Vinyl chloride	ND(0.039)
SVOC	
2-Methylnaphthalene	ND(0.19)
Benzo(a)pyrene	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)
Pentachlorophenol	ND(0.74)
Inorganic	
Arsenic	3.3
Beryllium	0.25
Lead	9.6
Manganese	130
Selenium	0.15
Vanadium	10

RFI-86-16	0.8 - 2.8 (ft)	7.8 - 9.8 (ft)	9.8 - 11.8 (ft)
VOC			
1,1-Dichloroethene	ND(0.036)	ND(0.043)	ND(0.047)
1,2-Dichloroethane	ND(0.036 J)	ND(0.043 J)	ND(0.047 J)
Benzene	ND(0.036)	ND(0.043)	ND(0.047)
Chloroethane	ND(0.15)	ND(0.19)	ND(0.2)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.043)	ND(0.047)
Methylene chloride	ND(0.15)	1.1	ND(0.2)
Tetrachloroethene	ND(0.036)	ND(0.043)	ND(0.047)
Trichloroethene	ND(0.036)	ND(0.043)	ND(0.047)
Vinyl chloride	ND(0.072)	ND(0.087)	ND(0.093)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.21)	ND(0.23)
Benzo(a)pyrene	ND(0.18)	ND(0.21)	ND(0.23)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.21)	ND(0.23)
Pentachlorophenol	R	ND(0.84)	ND(0.89)
Inorganic			
Arsenic	3.9	6.2	7.9 (RDC)
Beryllium	0.13	0.56 J	0.69 J
Lead	9.5	12	14
Manganese	150	340	410
Selenium	0.23 J	0.26	0.23
Vanadium	12	35	42

RFI-07-05	1 - 3 (ft)	5 - 7 (ft)	9 - 11 (ft)
VOC			
1,1-Dichloroethene	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
1,2-Dichloroethane	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
Benzene	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
Chloroethane	ND(0.15)	ND(0.17) /ND(0.17)	ND(0.16)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
Methylene chloride	ND(0.15)	ND(0.17) /ND(0.17)	ND(0.16)
Tetrachloroethene	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
Trichloroethene	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.039) /ND(0.04)	ND(0.038)
SVOC			
2-Methylnaphthalene	ND(0.18)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.0377 J	ND(0.19) /ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19) /ND(0.19)	ND(0.19)
Pentachlorophenol	ND(0.7)	ND(0.75) /ND(0.76)	ND(0.73)
Inorganic			
Arsenic	5.7	2.3 /2.8	2.7
Beryllium	0.18 J	0.17 J /0.24 J	0.14
Lead	14 J	5.2 J /6.1 J	4.4 J
Manganese	290 J	110 J /150 J	150 J
Selenium	0.44 J	0.2 J /0.15 J	0.35
Vanadium	12	12 /15	10

RFI-86-14	0.5 - 2.5 (ft)	4.5 - 6.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.037)	ND(0.041)
1,2-Dichloroethane	ND(0.037)	ND(0.041)
Benzene	ND(0.037)	ND(0.041)
Chloroethane	ND(0.16)	ND(0.18)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.041)
Methylene chloride	0.056 J	0.059 J
Tetrachloroethene	ND(0.037)	ND(0.041)
Trichloroethene	ND(0.037)	ND(0.041)
Vinyl chloride	ND(0.037)	ND(0.041)
SVOC		
2-Methylnaphthalene	ND(0.18)	ND(0.2)
Benzo(a)pyrene	ND(0.18)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)
Pentachlorophenol	ND(0.71)	ND(0.79)
Inorganic		
Arsenic	2.4	6.7 D
Beryllium	0.22	1.2 D
Lead	4	10 D
Manganese	100	480 D
Selenium	0.34 J	ND(0.38 D)
Vanadium	8	38 D





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC — INDUSTRIAL DIRECT CONTACT
  - IPSIC — INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. R-RESULT REJECTED DURING DATA VALIDATION.
12. RDC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
6/4/07 SYR-85-NES LAF GMS
64410112/RFI-06/64410C13.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - BUILDINGS 07, 21, 85 AND 86 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
4-13

RFI-86-03	9/20/2001	6/17/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0027	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)
Tetrachloroethene	ND(0.001)	ND(0.001 J)
Trichloroethene	0.0079 (IDW,RDW)	0.0053 (IDW,RDW)
Vinyl chloride	0.0013	ND(0.001)
SVOC		
2-Methylnaphthalene	ND(0.0053)	NS
Benzo(a)pyrene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic		
Arsenic	NS	0.0041
Beryllium	NS	ND(0.0004 J)
Lead	NS	0.0005
Manganese	NS	0.64 J
Selenium	NS	ND(0.0014)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.0027	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.97 (RDW)	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

07-02	9/20/2001	6/20/2002	4/2/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.017	0.013	0.0064
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0033 (IDW,RDW)	0.0024 (IDW,RDW)	0.0012
SVOC			
2-Methylnaphthalene	ND(0.0054)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0054)	NS	NS
Pentachlorophenol	ND(0.022)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.001)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.37	NS	NS
Selenium	ND(0.0014)	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-81-12R	12/7/2001	6/20/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
2-Methylnaphthalene	ND(0.005)	NS
Benzo(a)pyrene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Pentachlorophenol	ND(0.02)	NS
Inorganic		
Arsenic	0.0079	0.0014
Beryllium	0.00023 J	ND(0.0004)
Lead	0.0029	0.0008
Manganese	0.38	0.27
Selenium	0.0034	0.00059 J
Vanadium	0.0086 (RDW)	0.0014
Inorganic-Dissolved		
Arsenic	0.0034	ND(0.001)
Beryllium	0.0007 J	ND(0.0004)
Lead	ND(0.0004)	ND(0.0004)
Manganese	0.28	0.2
Selenium	0.0024	ND(0.0014)
Vanadium	0.0012	0.00081

RFI-07-04	6/14/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0145 (IDW,RDW)
Pentachlorophenol	ND(0.005)
Inorganic-Dissolved	
Arsenic	0.0014
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	1.8 (RDW)
Selenium	ND(0.0031)
Vanadium	ND(0.0008)

RFI-07-02	6/19/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	0.0012 J
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0533 (IDW,RDW)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0035
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.13
Selenium	0.0026
Vanadium	0.0038

RFI-07-03	9/25/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.0056)
Benzo(a)pyrene	ND(0.0022)
bis(2-Ethylhexyl)phthalate	ND(0.0056)
Pentachlorophenol	ND(0.022)
Inorganic-Dissolved	
Arsenic	0.0011 J
Beryllium	ND(0.0004)
Lead	0.00062
Manganese	0.14 J
Selenium	0.011
Vanadium	ND(0.0008)

07-01	9/20/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.0056)
Benzo(a)pyrene	ND(0.0022)
bis(2-Ethylhexyl)phthalate	ND(0.0056)
Pentachlorophenol	ND(0.022)
Inorganic-Dissolved	
Arsenic	0.001 J
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.26
Selenium	ND(0.0014)
Vanadium	ND(0.0008)

RFI-86-06D	9/28/2001	6/18/2002	4/3/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	0.0035
cis-1,2-Dichloroethene	0.0035	0.00085 J	0.0013
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.021 (IDW,RDW)	0.0069 (IDW,RDW)	0.023 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.0051)	NS	NS
Benzo(a)pyrene	ND(0.0021)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0051)	NS	NS
Pentachlorophenol	ND(0.021)	NS	NS
Inorganic			
Arsenic	ND(0.0019)	NS	NS
Beryllium	0.00031 J	NS	NS
Lead	0.0014 J	NS	NS
Manganese	0.053 J	NS	NS
Selenium	0.0039 J	NS	NS
Vanadium	ND(0.0008)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.001)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.038 J	NS	NS
Selenium	0.0034 J	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-07-07	8/1/2001
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
1,2-Dichloroethane	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
Chloroethane	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)
Tetrachloroethene	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005) /ND(0.005)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.005)
Pentachlorophenol	ND(0.02) /ND(0.02)
Inorganic-Dissolved	
Arsenic	ND(0.001) /ND(0.001)
Beryllium	ND(0.0004) /ND(0.0004)
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.064 /0.063
Selenium	0.005 /0.0028
Vanadium	0.0012 /ND(0.0008)

RFI-07-08	9/20/2001	6/20/2002	10/6/2004
VOC			
1,1-Dichloroethene	ND(0.001) /ND(0.001)	NS	ND(0.001)
1,2-Dichloroethane	ND(0.001) /ND(0.001)	NS	ND(0.001)
Benzene	ND(0.001) /ND(0.001)	NS	ND(0.001)
Chloroethane	ND(0.001) /ND(0.001)	NS	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)	NS	ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)	NS	ND(0.005)
Tetrachloroethene	ND(0.001) /ND(0.001)	NS	0.0005 J
Trichloroethene	ND(0.001) /ND(0.001)	NS	ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)	NS	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.005) /ND(0.0056)	NS	NS
Benzo(a)pyrene	ND(0.002) /ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.0056)	NS	NS
Pentachlorophenol	ND(0.02) /ND(0.022)	NS	NS
Inorganic			
Arsenic	0.0028 J /0.0036 J	0.0011	NS
Beryllium	0.0013 J /0.016 (IDW,RDW)	ND(0.0004)	ND(0.001)
Lead	0.00032 J /0.00049 J	0.0003 J	NS
Manganese	0.53 J /0.74	0.023	NS
Selenium	0.016 J /0.016	0.012	NS
Vanadium	ND(0.0008) /ND(0.0008)	ND(0.0008)	NS
Inorganic-Dissolved			
Arsenic	0.0014 /0.001 J	ND(0.001)	NS
Beryllium	ND(0.0004) /ND(0.0004)	ND(0.0004)	NS
Lead	ND(0.0004) /ND(0.0004)	ND(0.0004)	NS
Manganese	0.31 /0.33	0.013	NS
Selenium	0.014 /0.013	0.011	NS
Vanadium	ND(0.0008) /ND(0.0008)	ND(0.0008)	NS

RFI-86-06S	10/2/2001	6/17/2002	4/3/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	0.0032
cis-1,2-Dichloroethene	0.0026	0.00058 J	0.0011
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001 J)	ND(0.001)
Trichloroethene	0.018 (IDW,RDW)	0.0098 (IDW,RDW)	0.019 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.0056)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056)	NS	NS
Pentachlorophenol	ND(0.022)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.001 J)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.0033	NS	NS
Selenium	0.015	NS	NS
Vanadium	ND(0.0008)	NS	NS

87-FP3	9/27/2001	6/18/2002	4/4/2003
VOC			
1,1-Dichloroethene	0.027 (IDW,RDW)	0.011 (IDW,RDW)	0.02 (IDW,RDW)
1,2-Dichloroethane	0.00073 J	0.00074 J	ND(0.001)
Benzene	0.00076 J	0.001	0.0011
Chloroethane	0.12 D	0.28 D	0.12 D
cis-1,2-Dichloroethene	0.45 D (IDW,RDW)	0.19 D (IDW,RDW)	0.2 D (IDW,RDW)
Methylene chloride	0.0024 J	ND(0.005)	ND(0.005)
Tetrachloroethene	0.041 (IDW,RDW)	0.015 J (IDW,RDW)	0.018 (IDW,RDW)
Trichloroethene	2 D (IDW,RDW)	0.99 D (IDW,RDW)	0.96 D (IDW,RDW)
Vinyl chloride	0.28 D (IDW,RDW)	0.43 D (IDW,RDW)	0.097 D (IDW,RDW)
SVOC			
2-Methylnaphthalene	ND(0.0056)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056)	NS	NS
Pentachlorophenol	ND(0.022)	NS	NS
Inorganic-Dissolved			
Arsenic	0.022	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.4 J	NS	NS
Selenium	ND(0.0029)	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-07-01R	9/15/2003
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-86-14	6/17/2002
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005 J)
Tetrachloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-86-16R	9/16/2003	10/6/2004
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)

RFI-86-04	9/27/2001	6/17/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)
Tetrachloroethene	ND(0.001)	ND(0.001 J)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
2-Methylnaphthalene	ND(0.0051)	NS
Benzo(a)pyrene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0051)	NS
Pentachlorophenol	ND(0.02)	NS
Inorganic-Dissolved		
Arsenic	0.0021 J	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.039 J	NS
Selenium	0.0036 J	NS
Vanadium	ND(0.0008)	NS

RFI-86-08R	2/21/2002	6/20/2002	12/18/2002	4/3/2003
VOC				
1,1-Dichloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	0.0022 /0.0018	0.0022	0.0015	0.0016
Benzene	0.0079 (IDW,RDW) /0.0064 (IDW,RDW)	0.0057 (IDW,RDW)	0.006 (IDW,RDW)	0.0046
Chloroethane	8.3 D (IDW,RDW) /9.1 D (IDW,RDW)	14 D (IDW,RDW)	11 D (IDW,RDW)	5.2 D (IDW,RDW)
cis-1,2-Dichloroethene	0.0058 /0.0046	0.0055	0.0044	0.0037
Methylene chloride	0.0031 J /0.0025 J	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0083 (IDW,RDW) /0.0066 (IDW,RDW)	0.006 (IDW,RDW)	0.0062 (IDW,RDW)	0.0097 (IDW,RDW)
Vinyl chloride	0.0063 (IDW,RDW) /0.0051 (IDW,RDW)	0.049 (IDW,RDW)	0.0077 (IDW,RDW)	0.011 (IDW,RDW)
SVOC				
2-Methylnaphthalene	0.0545 /0.049	NS	NS	NS
Benzo(a)pyrene	ND(0.002) /ND(0.002)	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.005)	NS	NS	NS
Pentachlorophenol	ND(0.02) /ND(0.02)	NS	NS	NS
Inorganic				
Arsenic	NS	0.047	0.041	NS
Beryllium	NS	ND(0.0004)	ND(0.0004 J)	NS
Lead	NS	0.00043	0.00083 J	NS
Manganese	NS	0.25	0.28 J	NS
Selenium	NS	ND(0.0014)	ND(0.0016)	NS
Vanadium	NS	0.0013	0.0015	NS
Inorganic-Dissolved				
Arsenic	0.036 /0.036	NS	NS	NS
Beryllium	0.0098 J (IDW,RDW) /0.008 J (IDW,RDW)	NS	NS	NS
Lead	ND(0.0004) /ND(0.0004)	NS	NS	NS
Manganese	0.19 /0.18	NS	NS	NS
Selenium	ND(0.0044) /ND(0.0015)	NS	NS	NS
Vanadium	0.0044 /0.0064 (RDW)	NS	NS	NS

RFI-86-08	7/20/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	0.0054 (IDW,RDW)
Benzene	0.0051 (IDW,RDW)
Chloroethane	14 D (IDW,RDW)
cis-1,2-Dichloroethene	0.013
Methylene chloride	0.0093 (IDW,RDW)
Tetrachloroethene	ND(0.001)
Trichloroethene	0.046 (IDW,RDW)
Vinyl chloride	0.0071 (IDW,RDW)
SVOC	
2-Methylnaphthalene	0.316 (RDW)
Benzo(a)pyrene	ND(0.02 J)
bis(2-Ethylhexyl)phthalate	ND(0.05)
Pentachlorophenol	ND(0.2)
Inorganic-Dissolved	
Arsenic	0.017
Beryllium	ND(0.0004)
Lead	ND(0.00086)
Manganese	0.76
Selenium	0.0097
Vanadium	0.0041

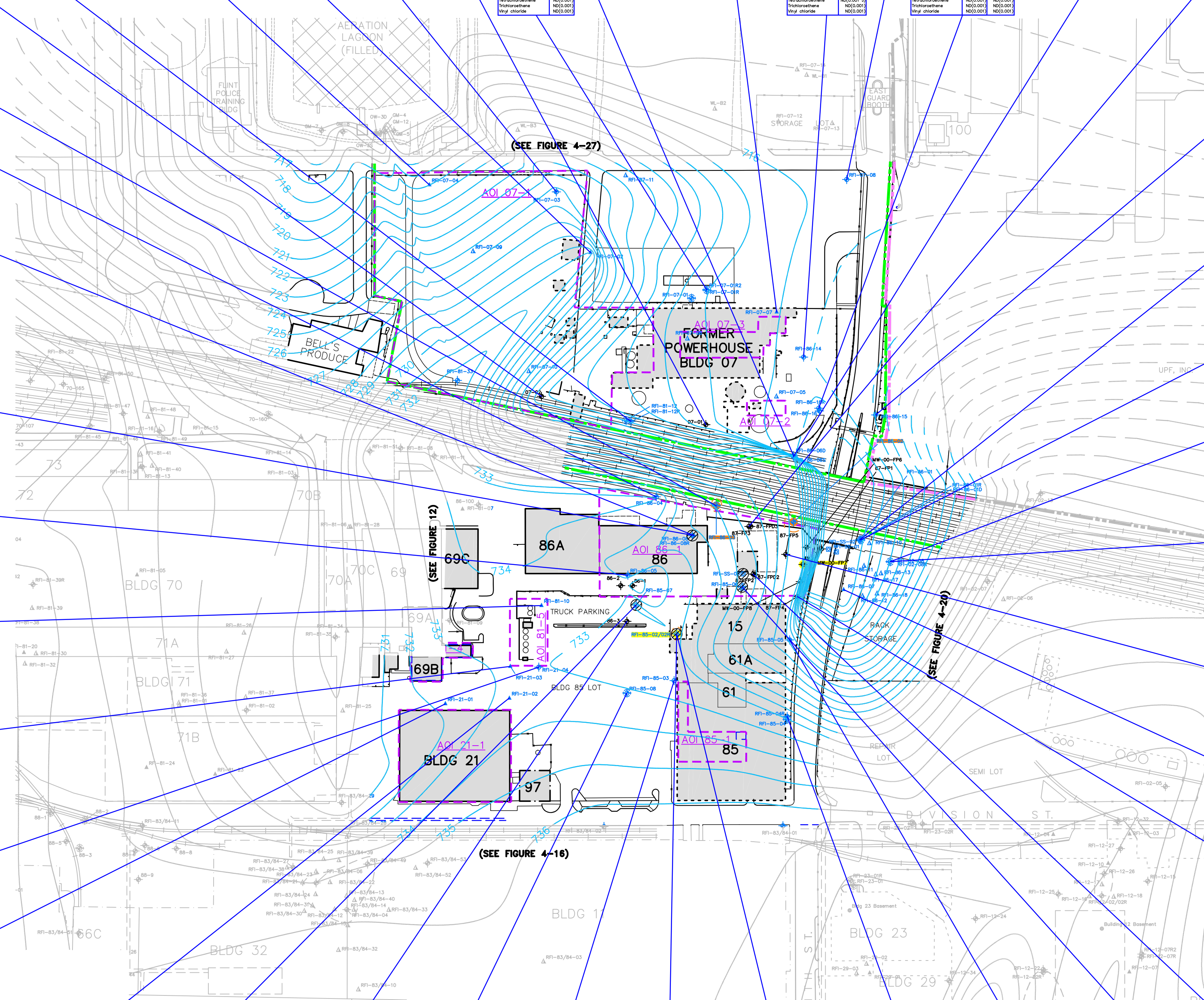
RFI-86-05	9/27/2001	6/13/2002	4/2/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	0.0006 J	0.00065 J	ND(0.001)
Trichloroethene	0.0061 (IDW,RDW)	0.0039	0.0086 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.005)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS
Pentachlorophenol	ND(0.02)	NS	NS
Inorganic-Dissolved			
Arsenic	0.0014 J	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.28	NS	NS
Selenium	0.0023 J	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-81-10	6/22/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	0.00067 J
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.00115 J
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0044
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	1.8 (RDW)
Selenium	0.01
Vanadium	0.012 J (RDW)

RFI-21-03	6/21/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	0.0027 J
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001 J)
Trichloroethene	0.0051 (IDW,RDW)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Pentachlorophenol	0.00206 J (IDW,RDW)
Inorganic-Dissolved	
Arsenic	0.0083
Beryllium	ND(0.0004)
Lead	0.00051
Manganese	2.8 (IDW,RDW)
Selenium	ND(0.0014)
Vanadium	0.0085 (RDW)

RFI-21-04	11/19/2001	6/13/2002	10/7/2004	4/6/2005
VOC				
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	NS
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Chloroethane	ND(0.001 J)	ND(0.001)	ND(0.001 J)	NS
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Methylene chloride	ND(0.005)	ND(0.005)	0.0006 J	NS
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
SVOC				
2-Methylnaphthalene	ND(0.005)	NS	NS	ND(0.005)
Benzo(a)pyrene	ND(0.002)	NS	NS	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS	ND(0.005)
Pentachlorophenol	ND(0.02)	NS	NS	ND(0.001)
Inorganic				
Arsenic	0.0023 J	0.0018 J	NS	NS
Beryllium	ND(0.0004 J)	ND(0.0004 J)	NS	NS
Lead	ND(0.0004)	0.00035 J	NS	NS
Manganese	8.2 J (IDW,RDW)	6.3 (IDW,RDW)	16.4 (IDW,RDW)	NS
Selenium	ND(0.0014)	ND(0.0014)	NS	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS	NS
Inorganic-Dissolved				
Arsenic	0.0043	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	9.2 J (IDW,RDW)	NS	NS	NS
Selenium	ND(0.0014)	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS

RFI-21-01	6/25/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	0.004
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	0.012 (IDW,RDW)
Vinyl chloride	0.0032 (IDW,RDW)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.042 (IDW,RDW)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0013
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	1.8 (RDW)
Selenium	ND(0.0014)
Vanadium	0.013 J (RDW)



RFI-21-02	6/27/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.106 (IDW,RDW)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0036
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.5 J
Selenium	0.0026
Vanadium	0.0075 (RDW)

RFI-85-07	11/19/2001	6/12/2002	4/2/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	0.0011	0.0012	ND(0.001)
Chloroethane	ND(0.001 J)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.00064 J	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	0.022 (IDW,RDW)	0.0052 (IDW,RDW)	0.014 (IDW,RDW)
Trichloroethene	0.0077 (IDW,RDW)	0.0069 (IDW,RDW)	0.0031
Vinyl chloride	0.00067 J	ND(0.001)	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.005)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS
Pentachlorophenol	ND(0.02)	NS	NS
Inorganic			
Arsenic	0.0023	ND(0.001)	NS
Beryllium	ND(0.0004 J)	ND(0.0004 J)	NS
Lead	ND(0.0004)	0.00033 J	NS
Manganese	0.93 J (RDW)	0.84 J	NS
Selenium	ND(0.0014)	ND(0.0014)	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS
Inorganic-Dissolved			
Arsenic	0.0026	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.94 J (RDW)	NS	NS
Selenium	ND(0.0014)	NS	NS
Vanadium	0.00082 J	NS	NS

86-3	9/26/2001	12/19/2002
VOC		
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
2-Methylnaphthalene	ND(0.0053)	NS
Benzo(a)pyrene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic		
Arsenic	NS	0.0042 J
Beryllium	NS	ND(0.0004)
Lead	NS	ND(0.0004)
Manganese	NS	1.1 J (RDW)
Selenium	NS	ND(0.0016)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.0053 J	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	1.3 (RDW)	NS
Selenium	0.0017 J	NS
Vanadium	ND(0.0008)	NS

RFI-85-08	12/18/2002
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	0.0007 J
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.006)
Benzo(a)pyrene	ND(0.0024)
bis(2-Ethylhexyl)phthalate	ND(0.006)
Pentachlorophenol	ND(0.024)
Inorganic	
Arsenic	0.0016 J
Beryllium	ND(0.0004 J)
Lead	ND(0.0004 J)
Manganese	0.014 J
Selenium	ND(0.0016)
Vanadium	ND(0.0008)

RFI-85-03	9/26/2001	6/13/2002
VOC		
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Trichloroethene	0.00063 J	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
2-Methylnaphthalene	ND(0.0053)	NS
Benzo(a)pyrene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	0.00104 J	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic		
Arsenic	NS	ND(0.001)
Beryllium	NS	ND(0.0004 J)
Lead	NS	0.00026 J
Manganese	NS	0.0059 J
Selenium	NS	ND(0.0014)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	ND(0.0012)	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.19	NS
Selenium	0.08 (IDW,RDW)	NS
Vanadium	ND(0.0008)	NS

RFI-85-02	6/22/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	0.024 (IDW,RDW)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.00101 J
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0019
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.4
Selenium	0.0026
Vanadium	0.014 J (RDW)

RFI-85-02R	12/13/2001	6/14/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.00065 J	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005 J)
Tetrachloroethene	ND(0.001)	ND(0.001)
Trichloroethene	0.036 (IDW,RDW)	ND(0.001 J)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
2-Methylnaphthalene	ND(0.005)	NS
Benzo(a)pyrene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Pentachlorophenol	ND(0.02)	NS
Inorganic		
Arsenic	ND(0.0021)	0.00067 J
Beryllium	0.0002 J	ND(0.0004 J)
Lead	0.00015 J	0.0003 J
Manganese	0.1 J	0.002 J
Selenium	ND(0.0014)	ND(0.0014)
Vanadium	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.006	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.097	NS
Selenium	0.0028 J	NS
Vanadium	0.13 (IDW,RDW)	NS

RFI-85-04R	2/28/2002	6/12/2002
VOC		
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	0.0048	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
2-Methylnaphthalene	ND(0.005)	NS
Benzo(a)pyrene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Pentachlorophenol	ND(0.02 J)	NS
Inorganic		
Arsenic	NS	0.0023 J
Beryllium	NS	ND(0.0004 J)
Lead	NS	0.00013 J
Manganese	NS	0.16 J
Selenium	NS	ND(0.0014)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.01	NS
Beryllium	0.007 J (IDW,RDW)	NS
Lead	ND(0.0004)	NS
Manganese	0.19 J	NS
Selenium	0.075 J (IDW,RDW)	NS
Vanadium	ND(0.0008)	NS

RFI-85-05	10/18/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	0.0053 J
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005)
Benzo(a)pyrene	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Arsenic	0.005
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.096
Selenium	0.0029 J
Vanadium	ND(0.0008)

RFI-85-06	9/24/2001	6/12/2002	4/2/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0017	0.0049	0.0017
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	0.0018	0.0014	0.0013
Trichloroethene	0.045 (IDW,RDW)	0.093 (IDW,RDW)	0.053 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
2-Methylnaphthalene	ND(0.0054)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0054)	NS	NS
Pentachlorophenol	ND(0.022)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.001)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.052 J	NS	NS
Selenium	ND(0.0014)	NS	NS
Vanadium	ND(0.0008)	NS	NS

87-FP2	9/24/2001	6/19/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.012	0.011
Methylene chloride	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001 J)
Trichloroethene	0.042 (IDW,RDW)	0.014 (IDW,RDW)
Vinyl chloride	0.0028 (IDW,RDW)	0.0007 J
SVOC		
2-Methylnaphthalene	ND(0.0053)	NS
Benzo(a)pyrene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic-Dissolved		
Arsenic	0.003 J	NS
Beryllium	ND(0.0004)	NS
Lead	ND(0.0004)	NS
Manganese	0.25 J	NS
Selenium	ND(0.0014)	NS
Vanadium	ND(0.0008)	NS

RFI-86-15	2/19/2002	6/20/2002	4/3/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)

RFI-86-01	9/20/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.0056)
Benzo(a)pyrene	ND(0.0022)
bis(2-Ethylhexyl)phthalate	ND(0.0056)
Pentachlorophenol	ND(0.022)
Inorganic	
Arsenic	0.014 J
Beryllium	0.0028 J
Lead	0.01 J (IDW,RDW)
Manganese	0.76 J
Selenium	0.0025 J
Vanadium	0.014 J (RDW)
Inorganic-Dissolved	
Arsenic	0.0061
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.28
Selenium	0.0015 J
Vanadium	ND(0.0008)

RFI-86-01R	6/25/2002	4/2/2003	10/7/2004
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001 J)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	0.0003 J
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic			
Arsenic	0.0011	0.0018	NS
Beryllium	ND(0.0004)	ND(0.0004)	NS
Lead	0.00075	0.0013	NS
Manganese	0.9 (RDW)	0.47 J	NS
Selenium	0.0023 J	0.0054	NS
Vanadium	0.00022 J	0.00021 J	NS

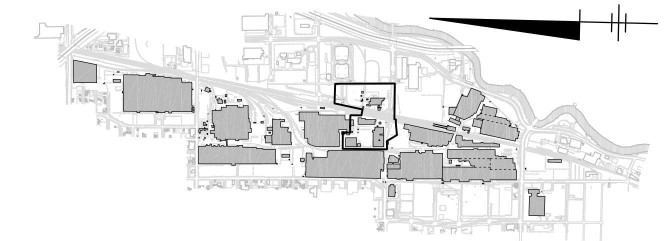
RFI-02-08R	6/25/2002	4/4/2005
VOC		
1,1-Dichloroethene	ND(0.001)	NS
1,2-Dichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Chloroethane	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Tetrachloroethene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
2-Methylnaphthalene	NS	ND(0.005)
Benzo(a)pyrene	NS	ND(0.005)
bis(2-Ethylhexyl)phthalate	NS	ND(0.005)
Pentachlorophenol	NS	ND(0.001)

RFI-02-08	9/19/2001
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.0053)
Benzo(a)pyrene	ND(0.0021)
bis(2-Ethylhexyl)phthalate	ND(0.0053)
Pentachlorophenol	ND(0.021)
Inorganic	
Arsenic	0.036 J
Beryllium	0.00024 J
Lead	0.00094 J
Manganese	0.26 J
Selenium	ND(0.0014)
Vanadium	0.0024 J
Inorganic-Dissolved	
Arsenic	0.022
Beryllium	ND(0.0004)
Lead	ND(0.0004)
Manganese	0.19 J
Selenium	ND(0.0014)
Vanadium	ND(0.0008)

87-FP5	9/28/2001	6/19/2002	4/3/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
1,2-Dichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Chloroethane	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.054	0.051 J	0.025
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.012 (IDW,RDW)	0.011 J (IDW,RDW)	0.0089 (IDW,RDW)
Vinyl chloride	0.0063 (IDW,RDW)	0.0019	0.002
SVOC			
2-Methylnaphthalene	ND(0.005)	NS	NS
Benzo(a)pyrene	ND(0.002 J)	NS	NS
bis(2-Ethylhexyl)phthalate	0.00319 J	NS	NS
Pentachlorophenol	ND(0.02)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.0035)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.16	NS	NS
Selenium	ND(0.0014)	NS	NS
Vanadium	0.0012	NS	NS

RFI-86-07	5/24/2001
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
1,2-Dichloroethane	ND(0.001) /ND(0.001)
Benzene	0.00014 J /0.00015 J
Chloroethane	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J) /ND(0.001 J)
Methylene chloride	ND(0.005) /ND(0.005)
Tetrachloroethene	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
2-Methylnaphthalene	ND(0.005) /ND(0.005)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.005)
Pentachlorophenol	ND(0.02) /ND(0.02)
Inorganic-Dissolved	
Arsenic	0.0012 J /0.0018 J
Beryllium	ND(0.0004) /ND(0.0004)
Lead	ND(0.0004) /ND(0.0004)
Manganese	2.8 (IDW,RDW) /2.8 (IDW,RDW)
Selenium	0.0085 J /0.0096 J
Vanadium	ND(0.0008) /ND(0.0008)

87-FP4	10/6/2004
VOC	
1,1-Dichloroethene	ND(0.001)
1,2-Dichloroethane	ND(0.001)
Benzene	ND(0.001)
Chloroethane	ND(0.001 J)
cis-1,2-Dichloroethene	0.001
Methylene chloride	ND(0.005)
Tetrachloroethene	ND(0.001)
Trichloroethene	0.023 (IDW,RDW)
Vinyl chloride	ND(0.001)



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
11. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDINGS 07, 21, 85 AND 86 AREA

BBL® BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-14

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
6/4/07 SYR-85-NES LAF GMS
64410112/RFI-06/64410C14.DWG

RFI-83-84-26	0.8 - 2.8 (ft)	6.8 - 8.8 (ft)
VOC		
Benzene	ND(0.04)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.04)
Methylene chloride	ND(0.17)	ND(0.17)
Toluene	ND(0.04)	0.062
Trichloroethene	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.04)	ND(0.04)
SVOC		
Benzo(a)anthracene	1.91 J	ND(0.97 J)
Benzo(a)pyrene	2.08 J (RDC)	ND(0.97 J)
Benzo(b)fluoranthene	2.58 J	ND(0.97 J)
Dibenz(a,h)anthracene	ND(0.19 J)	ND(0.97 J)
Indeno(1,2,3-cd)pyrene	1.91 J	ND(0.97 J)
Phenanthrene	0.746	1.09
Inorganic		
Arsenic	4.2 J	7.3 J
Beryllium	0.54 J	0.8 J
Chromium Total	9.5	24
Cyanide (total)	ND(0.2 J)	ND(0.2 J)
Lead	470 (RDC)	460 (RDC)
Manganese	230	280
Vanadium	14	21

RFI-83-84-51	3 - 5 (ft)	5 - 7 (ft)
VOC		
Benzene	ND(0.036)	ND(0.038) /ND(0.038)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.038) /ND(0.038)
Methylene chloride	ND(0.16)	ND(0.16) /ND(0.16)
Toluene	ND(0.073)	ND(0.077) /ND(0.076)
Trichloroethene	ND(0.036)	ND(0.038) /ND(0.038)
Vinyl chloride	ND(0.073)	ND(0.077) /ND(0.076)
SVOC		
Benzo(a)anthracene	ND(0.18)	0.176 J /1.47
Benzo(a)pyrene	ND(0.18)	0.0991 J /0.904
Benzo(b)fluoranthene	ND(0.18)	0.0883 J /0.959
Dibenz(a,h)anthracene	ND(0.18 J)	ND(0.19 J) /ND(0.19 J)
Indeno(1,2,3-cd)pyrene	ND(0.18 J)	ND(0.19 J) /0.328 J
Phenanthrene	ND(0.18)	1.51 /15.2 D
Inorganic		
Arsenic	4.1	9.1 (RDC) /4.9
Beryllium	0.19	0.3 /0.2
Chromium Total	5.6	8.7 /6
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	5.7	14 /6
Manganese	110	140 /120
Vanadium	11	18 /12

RFI-83-84-11	0 - 2 (ft)	4 - 6 (ft)
VOC		
Benzene	ND(0.037)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)
Methylene chloride	ND(0.16 J)	ND(0.16 J)
Toluene	ND(0.037)	ND(0.038)
Trichloroethene	ND(0.037)	ND(0.038)
Vinyl chloride	ND(0.037)	ND(0.038)
SVOC		
Benzo(a)anthracene	0.0834 J	ND(0.19)
Benzo(a)pyrene	0.0809 J	ND(0.19)
Benzo(b)fluoranthene	0.119 J	ND(0.19)
Dibenz(a,h)anthracene	ND(0.18 J)	ND(0.19 J)
Indeno(1,2,3-cd)pyrene	ND(0.18 J)	ND(0.19 J)
Phenanthrene	0.0717 J	ND(0.19)
Inorganic		
Arsenic	3.6	2.6
Beryllium	0.17	0.2
Chromium Total	14	7
Cyanide (total)	0.33	0.026 J
Lead	33	4.7
Manganese	190	65
Vanadium	11	11

RFI-83-84-27	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)	8.7 - 10.7 (ft)
VOC			
Benzene	ND(0.037)	ND(0.037)	ND(0.037) /ND(0.037)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037)	ND(0.037) /ND(0.037)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.16) /ND(0.16)
Toluene	ND(0.037)	ND(0.037)	ND(0.037) /ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037)	ND(0.037) /ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037)	ND(0.037) /ND(0.037)
SVOC			
Benzo(a)anthracene	0.0383 J	0.167 J	0.0662 J /0.0659 J
Benzo(a)pyrene	0.0355 J	0.146 J	0.0627 J /0.0691 J
Benzo(b)fluoranthene	ND(0.18)	0.142 J	0.0609 J /0.057 J
Dibenz(a,h)anthracene	ND(0.18)	ND(0.18)	ND(0.18) /ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.18)	0.093 J	0.041 J /0.0399 J
Phenanthrene	0.0692 J	0.385	0.122 J /0.123 J
Inorganic			
Arsenic	2.5 J	1.8 J	2.4 J /2 J
Beryllium	0.11 J	0.092 J	0.14 J /0.11 J
Chromium Total	23 J	18 J	31 J /25 J
Cyanide (total)	0.051 J	0.054 J	0.14 J /0.066 J
Lead	7 J	3.5 J	4.7 J /7.3 J
Manganese	130 J	120 J	140 J /120 J
Vanadium	4.7	4.8	7.1 /7

RFI-83-84-21	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)
VOC		
Benzene	0.36	0.62
cis-1,2-Dichloroethene	ND(0.038)	ND(0.044)
Methylene chloride	ND(0.16)	ND(0.19)
Toluene	0.15	0.27
Trichloroethene	ND(0.038)	ND(0.044)
Vinyl chloride	ND(0.038)	ND(0.044)
SVOC		
Benzo(a)anthracene	0.736 J	12.8 D
Benzo(a)pyrene	0.758 J	13.1 JD (IDC,RDC)
Benzo(b)fluoranthene	0.74 J	11 JD
Dibenz(a,h)anthracene	ND(0.18 J)	2.82 J (RDC)
Indeno(1,2,3-cd)pyrene	0.468 J	13.3 EJ
Phenanthrene	0.975	20 D
Inorganic		
Arsenic	5.5 J	47 J (IDC,RDC)
Beryllium	0.43 J	5.6 J
Chromium Total	36	270 (IPSIC,RPSIC)
Cyanide (total)	0.039 J	0.049 J
Lead	220	2900 (IDC,RDC)
Manganese	290	3500 (IPSIC,RPSIC)
Vanadium	7.3	66

RFI-83-84-06	1 - 3 (ft)	7 - 9 (ft)	9 - 11 (ft)
VOC			
Benzene	ND(0.036)	0.41	0.031 J
cis-1,2-Dichloroethene	ND(0.036)	ND(0.04)	ND(0.04)
Methylene chloride	ND(0.15)	ND(0.17)	ND(0.17)
Toluene	ND(0.036)	0.16	ND(0.04)
Trichloroethene	ND(0.036)	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.036)	ND(0.04)	ND(0.04)
SVOC			
Benzo(a)anthracene	0.0992 J	0.44 J	ND(0.19)
Benzo(a)pyrene	ND(0.17 J)	ND(0.19 J)	ND(0.19 J)
Benzo(b)fluoranthene	0.0469 J	0.118 J	ND(0.19 J)
Dibenz(a,h)anthracene	ND(0.17 J)	ND(0.19 J)	ND(0.19 J)
Indeno(1,2,3-cd)pyrene	ND(0.17 J)	ND(0.19 J)	ND(0.19 J)
Phenanthrene	0.16 J	0.876	ND(0.19)
Inorganic			
Arsenic	3.3 J	15 J (RDC)	5.1 J
Beryllium	0.11	0.41	0.2
Chromium Total	5.2	29	28
Cyanide (total)	0.22	3.1	0.067 J
Lead	8.6	2300 J (IDC,RDC)	25 J
Manganese	140 J	750 J	420 J
Vanadium	7.6 J	22 J	14 J

RFI-83-84-29	1 - 3 (ft)	9 - 11 (ft)
VOC		
Benzene	ND(0.04)	ND(0.061)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.061)
Methylene chloride	ND(0.17)	ND(0.26)
Toluene	0.13	ND(0.061)
Trichloroethene	ND(0.04)	ND(0.061)
Vinyl chloride	ND(0.04)	ND(0.061)
SVOC		
Benzo(a)anthracene	0.0524 J	ND(0.3)
Benzo(a)pyrene	0.0632 J	ND(0.3)
Benzo(b)fluoranthene	0.058 J	ND(0.3)
Dibenz(a,h)anthracene	ND(0.19 J)	ND(0.3)
Indeno(1,2,3-cd)pyrene	ND(0.19 J)	ND(0.3)
Phenanthrene	0.114 J	ND(0.3)
Inorganic		
Arsenic	11 (RDC)	1.5
Beryllium	1.4	0.31
Chromium Total	22	12
Cyanide (total)	ND(0.2)	ND(0.3)
Lead	95	6.4
Manganese	360	150 J
Vanadium	16	7.7

RFI-83-84-28	0.7 - 2.7 (ft)	2.7 - 4.7 (ft)
VOC		
Benzene	ND(0.04)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.041)
Methylene chloride	ND(0.17)	ND(0.18)
Toluene	ND(0.04)	ND(0.041)
Trichloroethene	ND(0.04)	ND(0.041)
Vinyl chloride	ND(0.04)	ND(0.041)
SVOC		
Benzo(a)anthracene	5.35 D	ND(0.2 J)
Benzo(a)pyrene	5.58 (RDC)	ND(0.2 J)
Benzo(b)fluoranthene	6.23 D	ND(0.2 J)
Dibenz(a,h)anthracene	ND(0.98)	ND(0.2 J)
Indeno(1,2,3-cd)pyrene	2.68 D	ND(0.2 J)
Phenanthrene	9.42 D	ND(0.2)
Inorganic		
Arsenic	6.1 J	4.1 J
Beryllium	0.32 J	0.33 J
Chromium Total	47 J	11 J
Cyanide (total)	0.39	ND(0.2)
Lead	66 J	6.9 J
Manganese	410 J	410 J
Vanadium	9.1	17

RFI-83-84-39	0.9 - 2.9 (ft)	1.1 - 3.1 (ft)	5.1 - 7.1 (ft)
VOC			
Benzene	ND(0.037)	ND(0.036)	ND(0.036)
cis-1,2-Dichloroethene	ND(0.037 J)	ND(0.036)	ND(0.036)
Methylene chloride	0.028 J	0.034 J	0.029 J
Toluene	0.033 J	ND(0.072)	ND(0.071)
Trichloroethene	ND(0.037)	ND(0.036)	ND(0.036)
Vinyl chloride	ND(0.074)	ND(0.072)	ND(0.071)
SVOC			
Benzo(a)anthracene	ND(4.6)	ND(0.18)	ND(0.18)
Benzo(a)pyrene	ND(4.6 J)	ND(0.18)	ND(0.18)
Benzo(b)fluoranthene	ND(4.6 J)	ND(0.18)	ND(0.18)
Dibenz(a,h)anthracene	ND(4.6 J)	ND(0.18 J)	ND(0.18 J)
Indeno(1,2,3-cd)pyrene	ND(4.6)	ND(0.18 J)	ND(0.18 J)
Phenanthrene	ND(4.6)	ND(0.18)	ND(0.18)
Inorganic			
Arsenic	13 (RDC)	0.99	0.98
Beryllium	0.12	0.12	0.12
Chromium Total	2400 (IPSIC,RPSIC)	3.4	2.9
Cyanide (total)	ND(0.2)	ND(0.2)	ND(0.2)
Lead	96	3 J	2.3 J
Manganese	1800 (IPSIC)	53 J	44 J
Vanadium	390	5	5

RFI-83-84-53	0.9 - 2.9 (ft)	6.9 - 8.9 (ft)	8.9 - 10.9 (ft)
VOC			
Benzene	ND(0.037)	ND(0.036)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.036)	ND(0.041)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.17)
Toluene	0.1	ND(0.072)	ND(0.081)
Trichloroethene	ND(0.037)	ND(0.036)	ND(0.041)
Vinyl chloride	ND(0.074)	ND(0.072)	ND(0.081)
SVOC			
Benzo(a)anthracene	2.21 J	ND(1.8)	ND(4)
Benzo(a)pyrene	1.63 J	ND(1.8)	ND(4)
Benzo(b)fluoranthene	2.42 J	ND(1.8)	ND(4)
Dibenz(a,h)anthracene	ND(3.7 J)	ND(1.8 J)	ND(4 J)
Indeno(1,2,3-cd)pyrene	ND(3.7 J)	ND(1.8 J)	ND(4 J)
Phenanthrene	8.73	1.48 J	2.39 J
Inorganic			
Arsenic	3.2	2.2	4.5
Beryllium	0.2	0.11	0.49
Chromium Total	15	5.3	16
Cyanide (total)	0.52 J	ND(0.2)	ND(0.2)
Lead	8.8	3.8	9.8
Manganese	160	160	510
Vanadium	18	9.9	28

RFI-83-84-02	2 - 4 (ft)	4 - 6 (ft)
VOC		
Benzene	ND(0.039)	ND(0.04) /ND(0.04)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.04)
Methylene chloride	ND(0.17)	ND(0.17) /ND(0.17)
Toluene	ND(0.039)	ND(0.04) /ND(0.04)
Trichloroethene	ND(0.039)	ND(0.04) /ND(0.04)
Vinyl chloride	ND(0.039)	ND(0.04) /ND(0.04)
SVOC		
Benzo(a)anthracene	ND(0.19)	ND(0.19) /ND(0.2)
Benzo(a)pyrene	ND(0.19)	ND(0.19) /ND(0.2)
Benzo(b)fluoranthene	ND(0.19)	ND(0.19) /ND(0.2)
Dibenz(a,h)anthracene	ND(0.19)	ND(0.19) /ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.19)	ND(0.19) /ND(0.2)
Phenanthrene	ND(0.19)	ND(0.19) /ND(0.2)
Inorganic		
Arsenic	7.4	3.5 /4.3
Beryllium	0.5	0.21 /0.25
Chromium Total	17	9.1 /8.9
Cyanide (total)	0.079 J	0.055 J /0.046 J
Lead	9.9 J	7.2 J /5.6 J
Manganese	460 J	170 J /170 J
Vanadium	25	15 /16

RFI-65-01	0.7 - 2.7 (ft)	4.7 - 6.7 (ft)
VOC		
Benzene	ND(0.039)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04)
Methylene chloride	ND(0.17)	ND(0.17)
Toluene	ND(0.039)	ND(0.04)
Trichloroethene	0.044 J	ND(0.04)
Vinyl chloride	ND(0.039)	ND(0.04)
SVOC		
Benzo(a)anthracene	0.0401 J	ND(0.2)
Benzo(a)pyrene	0.0553 J	ND(0.2)
Benzo(b)fluoranthene	0.0669 J	ND(0.2)
Dibenz(a,h)anthracene	ND(0.18 J)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.18 J)	ND(0.2)
Phenanthrene	ND(0.18)	ND(0.2)
Inorganic		
Arsenic	3.7	1.8
Beryllium	0.2	0.15
Chromium Total	10 J	6.8 J
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	12	6
Manganese	230	71
Vanadium	13	14

RFI-83-84-38	5 - 7 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	12 J
Manganese	NS
Vanadium	NS

RFI-83-84-23	1 - 3 (ft)	5 - 7 (ft)
VOC		
Benzene	ND(0.035) /ND(0.035)	1.4
cis-1,2-Dichloroethene	ND(0.035) /ND(0.035)	0.083
Methylene chloride	ND(0.15) /ND(0.15)	ND(0.16)
Toluene	ND(0.035) /ND(0.035)	0.45
Trichloroethene	ND(0.035) /ND(0.035)	0.035 J
Vinyl chloride	ND(0.035) /ND(0.035)	ND(0.038)
SVOC		
Benzo(a)anthracene	0.142 J /0.0839 J	1.34 J
Benzo(a)pyrene	ND(0.17 J) /ND(0.17 J)	0.608 J
Benzo(b)fluoranthene	ND(0.17 J) /ND(0.17 J)	0.684 J
Dibenz(a,h)anthracene	ND(0.17 J) /ND(0.17 J)	ND(0.94 J)
Indeno(1,2,3-cd)pyrene	ND(0.17 J) /ND(0.17 J)	ND(0.94 J)
Phenanthrene	0.302 /0.212	2.05
Inorganic		
Arsenic	2.8 J /2.4 J	28 J (RDC)
Beryllium	0.28 J /0.3 J	11 J
Chromium Total	6.6 /5.5	99
Cyanide (total)	ND(0.2 J) /ND(0.2 J)	ND(0.2 J)
Lead	10 /7.5	6500 (IDC,RDC)
Manganese	180 /180	2600 (IPSIC)
Vanadium	7.6 /7.4	51

RFI-83-84-25	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)	10.7 - 12.7 (ft)
VOC			
Benzene	ND(0.037)	ND(0.038)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.16)	ND(0.17)
Toluene	ND(0.037)	ND(0.038)	ND(0.04)
Trichloroethene	0.082	ND(0.038)	0.052
Vinyl chloride	ND(0.037)	ND(0.038)	ND(0.04)
SVOC			
Benzo(a)anthracene	0.0344 J	ND(0.18)	1.24 J
Benzo(a)pyrene	ND(0.18)	ND(0.18)	1.09 J
Benzo(b)fluoranthene	ND(0.18)	ND(0.18)	1.14 J
Dibenz(a,h)anthracene	ND(0.18)	ND(0.18)	0.26 J
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.18)	0.587 J
Phenanthrene	0.081 J	ND(0.18)	3.05 J
Inorganic			
Arsenic	2 J	2.3 J	2.2 J
Beryllium	0.083 J	0.17 J	0.077 J
Chromium Total	22 J	6.6 J	5.8 J
Cyanide (total)	ND(0.2)	3.2	0.82
Lead	2.6 J	5.5 J	4.6 J
Manganese	160 J	69 J	57 J
Vanadium	4.8 J	9.8 J	7 J

RFI-83-84-03	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
Benzene	ND(0.039)	ND(0.038)	ND(0.039) /ND(0.038)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.039) /ND(0.038)
Methylene chloride	ND(0.17)	ND(0.16)	ND(0.17) /ND(0.16)
Toluene	ND(0.039)	0.61	0.31 /0.33
Trichloroethene	ND(0.039)	0.083	0.061 /0.068
Vinyl chloride	ND(0.039)	ND(0.038)	ND(0.039) /ND(0.038)
SVOC			
Benzo(a)anthracene	ND(0.18)	ND(4.5 J)	ND(5) /ND(0.97)
Benzo(a)pyrene	ND(0.18)	ND(4.5 J)	ND(5) /ND(0.97)
Benzo(b)fluoranthene	ND(0.18)	ND(4.5 J)	ND(5 J) /ND(0.97 J)
Dibenz(a,h)anthracene	ND(0.18)	ND(4.5 J)	ND(5) /ND(0.97)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(4.5 J)	ND(5) /ND(0.97)
Phenanthrene	ND(0.18)	ND(4.5)	ND(5) /3 J
Inorganic			
Arsenic	3.1 J	2.74 J	3.62 J /3.83 J
Beryllium	NS	NS	NS
Chromium Total	6.83	3.9	4.97 /4
Cyanide (total)	NS	NS	NS
Lead	8.14	3.25	3.22 /2.82
Manganese	NS	NS	NS
Vanadium	NS	NS	NS

RFI-83-84-01	2 - 3.7 (ft)
VOC	
Benzene	1.1 J
cis-1,2-Dichloroethene	ND(0.041)
Methylene chloride	ND(0.17)
Toluene	0.68
Trichloroethene	ND(0.041)
Vinyl chloride	ND(0.041)
SVOC	
Benzo(a)anthracene	0.0388 J
Benzo(a)pyrene	0.0408 J
Benzo(b)fluoranthene	ND(0.2)
Dibenz(a,h)anthracene	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.2)
Phenanthrene	0.0658 J
Inorganic	
Arsenic	3.3
Beryllium	1.1
Chromium Total	9.3
Cyanide (total)	0.16 J
Lead	50 J
Manganese	110 J
Vanadium	15

RFI-83-84-34	0.7 - 2.7 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	35
Manganese	NS
Vanadium	NS

RFI-83-84-16	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	NS	NS
Lead	670 J (RDC) /870 J (RDC)	2500 J (IDC,RDC)
Manganese	NS	NS
Vanadium	NS	NS

RFI-83-84-17R	1 - 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	1800 (IDC,RDC)
Manganese	NS
Vanadium	NS

RFI-83-84-05	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)
VOC		
Benzene	ND(0.039)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)
Methylene chloride	ND(0.17 J)	ND(0.16 J)
Toluene	4.8	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)anthracene	4.44 JD	ND(0.18)
Benzo(a)pyrene	4.03 JD (RDC)	ND(0.18)
Benzo(b)fluoranthene	4.1 JD	ND(0.18)
Dibenz(a,h)anthracene	ND(0.19 J)	ND(0.18)
Indeno(1,2,3-cd)pyrene	1.65 J	ND(0.18)
Phenanthrene	4.4	ND(0.18)
Inorganic		
Arsenic	5.7	3.7
Beryllium	0.91	0.1
Chromium Total	17	6.8
Cyanide (total)	0.32	ND(0.2)
Lead	42000 JD (IDC,RDC)	6.4 J
Manganese	200 J	130 J
Vanadium	14	10

RFI-83-84-37	0.7 - 2.7 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	290
Manganese	NS
Vanadium	NS

RFI-83-84-18	0.8 - 2.8 (ft)	2.8 - 4.8 (ft)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	NS	NS
Lead	400 J	1100 J (IDC,RDC)
Manganese	NS	NS
Vanadium	NS	NS

RFI-83-84-36	0.7 - 2.7 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	200
Manganese	NS
Vanadium	NS

RFI-83-84-19	0.8 - 2.8 (ft)	2.8 - 3.4 (ft)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	NS	NS
Lead	110 J	38 J
Manganese	NS	NS
Vanadium	NS	NS

RFI-83-84-35	0.7 - 2.7 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	3900 (IDC,RDC)
Manganese	NS
Vanadium	NS

RFI-83-84-43	1.5 - 3.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	400
Manganese	NS
Vanadium	NS

RFI-83-84-42	1 - 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	47
Manganese	NS
Vanadium	NS

RFI-83-84-41	1 - 2 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	10
Manganese	NS
Vanadium	NS

RFI-83-84-50	3 - 5 (ft)	5 - 7 (ft)
VOC		
Benzene	ND(0.039)	ND(0.04) /ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04) /ND(0.039)
Methylene chloride	0.036 J	ND(0.17) /ND(0.17)
Toluene	ND(0.078)	ND(0.079) /ND(0.078)
Trichloroethene	ND(0.039)	ND(0.04) /ND(0.039)
Vinyl chloride	ND(0.078)	ND(0.079) /ND(0.078)
SVOC		
Benzo(a)anthracene	ND(0.19)	ND(0.19) /ND(0.19)
Benzo(a)pyrene	ND(0.19)	ND(0.19) /ND(0.19)
Benzo(b)fluoranthene	ND(0.19)	ND(0.19) /ND(0.19)
Dibenz(a,h)anthracene	ND(0.19 J)	ND(0.19 J) /ND(0.19 J)
Indeno(1,2,3-cd)pyrene	ND(0.19 J)	ND(0.19 J) /ND(0.19 J)
Phenanthrene	ND(0.19)	ND(0.19) /ND(0.19)
Inorganic		
Arsenic	2.7	1.3 /2.1
Beryllium	0.21	0.14 /0.2
Chromium Total	8.6	4.7 /6.5
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	7.7	4.3 /6.1
Manganese	89	76 /78
Vanadium	15	9.7 /13

RFI-83-84-07	0.9 - 2.9 (ft)	8.9 - 10.9 (ft)
VOC		
Benzene	ND(0.035)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.035)	ND(0.038)
Methylene chloride	ND(0.15 J)	ND(0.16 J)
Toluene	ND(0.035)	ND(0.038)
Trichloroethene	0.11	ND(0.038)
Vinyl chloride	ND(0.035)	ND(0.038)
SVOC		
Benzo(a)anthracene	ND(0.17)	ND(0.19 J)
Benzo(a)pyrene	ND(0.17)	R
Benzo(b)fluoranthene	0.118 J	R
Dibenz(a,h)anthracene	ND(0.17)	R
Indeno(1,2,3-cd)pyrene	ND(0.17)	R
Phenanthrene	0.0903 J	ND(0.19)
Inorganic		
Arsenic	0.89	2.5
Beryllium	0.076 J	0.15
Chromium Total	3.6	6.2
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	20 J	5.7 J
Manganese	35 J	41 J
Vanadium	4.4	11

RFI-83-84-44	1 - 3 (ft)	7 - 9 (ft)
VOC		
Benzene	ND(0.037)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.037 J)	ND(0.038 J)
Methylene chloride	0.028 J	0.031 J
Toluene	ND(0.074)	ND(0.077)
Trichloroethene	0.071	ND(0.038)
Vinyl chloride	ND(0.074)	ND(0.077)
SVOC		
Benzo(a)anthracene	7.69 D	0.349
Benzo(a)pyrene	6.43 JD (RDC)	0.285
Benzo(b)fluoranthene	7.31 JD	0.279
Dibenz(a,h)anthracene	1.22 J	ND(0.19)
Indeno(1,2,3-cd)pyrene	2.06	ND(0.19)
Phenanthrene	11.9 D	0.627
Inorganic		
Arsenic	5.1	4.6
Beryllium	0.24	0.25
Chromium Total	42	12
Cyanide (total)	ND(0.2)	21 (RDC)
Lead	480 (RDC)	28
Manganese	290	120
Vanadium	8	16

RFI-83-84-45	0.9 - 2.9 (ft)	7.9 - 9.9 (ft)
VOC		
Benzene	ND(0.035)	ND(0.037) /ND(0.037)
cis-1,2-Dichloroethene	ND(0.035 J)	ND(0.037 J) /ND(0.037 J)
Methylene chloride	0.037 J	0.04 J /0.034 J
Toluene	0.054 J	ND(0.075) /ND(0.073)
Trichloroethene	0.83	ND(0.037) /ND(0.037)
Vinyl chloride	ND(0.07)	ND(0.075) /ND(0.073)
SVOC		
Benzo(a)anthracene	ND(0.17)	ND(0.19) /ND(0.18)
Benzo(a)pyrene	ND(0.17)	ND(0.19) /ND(0.18)
Benzo(b)fluoranthene	ND(0.17)	ND(0.19) /ND(0.18)
Dibenz(a,h)anthracene	ND(0.17)	ND(0.19) /ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.17)	ND(0.19) /ND(0.18)
Phenanthrene	0.134 J	ND(0.19) /ND(0.18)
Inorganic		
Arsenic	1.4	2.2 /2.9
Beryllium	0.1	0.12 /0.14
Chromium Total	3.3	6.7 /7.7
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	75	5.6 /9.9
Manganese	41	50 /64
Vanadium	4.9	12 /14

RFI-83-84-08	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)
VOC		
Benzene	ND(0.036)	ND(0.045)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.045)
Methylene chloride	ND(0.16 J)	ND(0.19 J)
Toluene	0.035 J	ND(0.045)
Trichloroethene	ND(0.036)	ND(0.045)
Vinyl chloride	ND(0.036)	ND(0.045)
SVOC		
Benzo(a)anthracene	ND(0.17 J)	ND(0.22)
Benzo(a)pyrene	ND(0.17 J)	ND(0.22)
Benzo(b)fluoranthene	ND(0.17 J)	ND(0.22)
Dibenz(a,h)anthracene	ND(0.17 J)	ND(0.22)
Indeno(1,2,3-cd)pyrene	ND(0.17 J)	ND(0.22)
Phenanthrene	ND(0.17)	ND(0.22)
Inorganic		
Arsenic	1.9	10 (RDC)
Beryllium	0.18	0.72
Chromium Total	4.8	22
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	8.7 J	16 J
Manganese	76 J	220 J
Vanadium	8.3	37

RFI-83-84-46	1.5 - 3.5 (ft)	7.5 - 9.5 (ft)	9.5 - 11.5 (ft)
VOC			
Benzene	ND(0.035)	ND(0.035)	ND(0.045)
cis-1,2-Dichloroethene	0.76	0.43	0.037 J
Methylene chloride	0.052 J	ND(0.15)	0.047 J
Toluene	0.036 J	0.026 J	ND(0.09)
Trichloroethene	ND(0.035)	ND(0.035)	ND(0.045)
Vinyl chloride	ND(0.071)	ND(0.07)	ND(0.09)
SVOC			
Benzo(a)anthracene	ND(0.17)	0.337	ND(0.23)
Benzo(a)pyrene	ND(0.17)	0.293 J	ND(0.23)
Benzo(b)fluoranthene	ND(0.17)	0.477 J	ND(0.23)
Dibenz(a,h)anthracene	ND(0.17 J)	ND(0.18 J)	ND(0.23 J)
Indeno(1,2,3-cd)pyrene	ND(0.17 J)	0.0982 J	ND(0.23 J)
Phenanthrene	0.226	2.05	ND(0.23)
Inorganic			
Arsenic	5.6	13 (RDC)	8.1 (RDC)
Beryllium	0.18	0.26	0.41
Chromium Total	20	120	23
Cyanide (total)	ND(0.2)	ND(0.2)	ND(0.3)
Lead	13 J	37 J	13 J
Manganese	310 J	930 J	190 J
Vanadium	17	27	29

RFI-BG-05	0 - 2 (ft)
Inorganic	
Arsenic	6.8 J
Beryllium	0.22
Chromium Total	14 J
Cyanide (total)	NS
Lead	84 J
Manganese	360
Vanadium	14 J

RFI-83-84-54	0.6 - 2.6 (ft)
VOC	
Benzene	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)
Methylene chloride	ND(0.16)
Toluene	0.038 J
Trichloroethene	ND(0.038)
Vinyl chloride	ND(0.076)
SVOC	
Benzo(a)anthracene	ND(0.93)
Benzo(a)pyrene	ND(0.93)
Benzo(b)fluoranthene	ND(0.93)
Dibenz(a,h)anthracene	ND(0.93 J)
Indeno(1,2,3-cd)pyrene	ND(0.93 J)
Phenanthrene	ND(0.93)
Inorganic	
Arsenic	4.4
Beryllium	0.29
Chromium Total	25
Cyanide (total)	0.36 J
Lead	140
Manganese	280
Vanadium	11

RFI-83-84-47	1 - 3 (ft)	8 - 10 (ft)
VOC		
Benzene	0.025 J /0.026 J	0.043
cis-1,2-Dichloroethene	5 /5.2	1.4
Methylene chloride	ND(0.15) /ND(0.15)	ND(0.17)
Toluene	0.062 J /0.064 J	0.14
Trichloroethene	0.13 /0.15	0.031 J
Vinyl chloride	0.23 /0.24	0.078 J
SVOC		
Benzo(a)anthracene	ND(0.88) /0.366	0.846 J
Benzo(a)pyrene	ND(0.88 J) /ND(0.18 J)	ND(2 J)
Benzo(b)fluoranthene	ND(0.88 J) /ND(0.18 J)	ND(2 J)
Dibenz(a,h)anthracene	ND(0.88 J) /ND(0.18 J)	ND(2 J)
Indeno(1,2,3-cd)pyrene	ND(0.88 J) /ND(0.18 J)	ND(2 J)
Phenanthrene	0.67 J /0.876	2.46
Inorganic		
Arsenic	3.4 /5.4	11 (RDC)
Beryllium	0.27 /0.51	0.51
Chromium Total	8.5 /20	53
Cyanide (total)	ND(0.2) /ND(0.2)	0.29 J
Lead	14 /16	840 (RDC)
Manganese	150 /110	1100
Vanadium	13 /17	16

RFI-83-84-48	1 - 3 (ft)	7 - 9 (ft)
VOC		
Benzene	ND(0.037)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.17)
Toluene	0.038 J	ND(0.079)
Trichloroethene	ND(0.037)	ND(0.04)
Vinyl chloride	ND(0.073)	ND(0.079)
SVOC		
Benzo(a)anthracene	0.0964 J	ND(0.97)
Benzo(a)pyrene	0.0894 J	ND(0.97 J)
Benzo(b)fluoranthene	0.119 J	ND(0.97 J)
Dibenz(a,h)anthracene	ND(0.18 J)	ND(0.97 J)
Indeno(1,2,3-cd)pyrene	ND(0.18 J)	ND(0.97 J)
Phenanthrene	0.282	ND(0.97)
Inorganic		
Arsenic	3.7	16 (RDC)
Beryllium	0.28	0.55
Chromium Total	15	12
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	6.3	13
Manganese	490	690
Vanadium	14	24

RFI-83-84-24	0.8 - 2.8 (ft)	4.8 - 6.8 (ft)	6.8 - 8.8 (ft)
VOC			
Benzene	ND(0.037) /ND(0.036)	0.17 J	0.08
cis-1,2-Dichloroethene	ND(0.037) /ND(0.036)	ND(0.038)	ND(0.04)
Methylene chloride	ND(0.16) /ND(0.15)	ND(0.16)	ND(0.17)
Toluene	ND(0.037) /ND(0.036)	0.099 J	0.03 J
Trichloroethene	ND(0.037) /ND(0.036)	ND(0.038)	ND(0.04)
Vinyl chloride	ND(0.037) /ND(0.036)	ND(0.038)	ND(0.04)
SVOC			
Benzo(a)anthracene	ND(0.17) /ND(0.17)	1.6 J	1.52 J
Benzo(a)pyrene	ND(0.17) /ND(0.17)	ND(0.94 J)	0.409 J
Benzo(b)fluoranthene	ND(0.17) /ND(0.17)	ND(0.94 J)	0.698 J
Dibenz(a,h)anthracene	ND(0.17) /ND(0.17)	ND(0.94 J)	ND(0.98 J)
Indeno(1,2,3-cd)pyrene	ND(0.17) /ND(0.17)	ND(0.94 J)	0.373 J
Phenanthrene	ND(0.17) /ND(0.17)	2.97 J	6.07 JD
Inorganic			
Arsenic	2.7 J /2.8 J	11 J (RDC)	10 J (RDC)
Beryllium	0.24 J /0.2 J	6.2 J	0.98 J
Chromium Total	6.1 /4.8	180	28
Cyanide (total)	ND(0.2 J) /ND(0.2 J)	ND(0.2 J)	0.044 J
Lead	5.3 /4.8	3200 (IDC,RDC)	600 (RDC)
Manganese	150 /140	1800 (IPSIC)	430
Vanadium	6.2 /6.4	38	18

RFI-83-84-30	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)
Inorganic		
Arsenic	2.4	6.2
Beryllium	0.17	1.1
Chromium Total	24 J	24 J
Cyanide (total)	NS	NS
Lead	42	73
Manganese	200 J	340 J
Vanadium	6.8	29

RFI-83-84-31	1 - 3 (ft)	7 - 9 (ft)
Inorganic		
Arsenic	3	2.2
Beryllium	0.11	0.19
Chromium Total	5.6 J	24 J
Cyanide (total)	NS	NS
Lead	3.6	37
Manganese	140 J	200 J
Vanadium	9.4	10

RFI-83-84-13	1.1 - 3.1 (ft)	3.1 - 5.1 (ft)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	NS	NS
Lead	78	640 (RDC)
Manganese	NS	NS
Vanadium	NS	NS

RFI-83-84-32	0.7 - 2.7 (ft)
Inorganic	
Arsenic	5
Beryllium	0.22
Chromium Total	27 J
Cyanide (total)	NS
Lead	110
Manganese	240 J
Vanadium	9.2

RFI-83-84-15	1.2 - 3 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	35 J
Manganese	NS
Vanadium	NS

RFI-83-84-40	1 - 2.5 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	3000 (IDC,RDC)
Manganese	NS
Vanadium	NS

RFI-83-84-22	1.1 - 3.1 (ft)	3.1 - 5.1 (ft)	7.1 - 9.1 (ft)
VOC			
Benzene	0.22	0.081	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.039)	ND(0.04)
Methylene chloride	ND(0.16)	ND(0.17)	ND(0.17)
Toluene	0.44	0.2	ND(0.04)
Trichloroethene	ND(0.037)	ND(0.039)	ND(0.04)
Vinyl chloride	ND(0.037)	ND(0.039)	ND(0.04)
SVOC			
Benzo(a)anthracene	1.08 J	81.2 D (IDC,RDC)	0.299 J
Benzo(a)pyrene	1.63 J	66.1 JD (IDC,RDC)	ND(0.19 J)
Benzo(b)fluoranthene	1.35 J	62.9 JD (RDC)	ND(0.19 J)
Dibenz(a,h)anthracene	ND(0.9 J)	16.9 J (IDC,RDC)	ND(0.19 J)
Indeno(1,2,3-cd)pyrene	0.925 J	29.1 JD (RDC)	ND(0.19 J)
Phenanthrene	1.95	192 D (IVSIC,RVSIC)	0.811
Inorganic			
Arsenic	2.5 J	7.2 J	5.8 J
Beryllium	0.31 J	0.51 J	0.56 J
Chromium Total	20	37	11
Cyanide (total)	0.24 J	0.23 J	ND(0.2 J)
Lead	530 (RDC)	300	9.5
Manganese	190	380	120
Vanadium	5.3	12	16

RFI-83-84-12	0.7 - 2.7 (ft)	2.7 - 4.7 (ft)
VOC		
Benzene	ND(0.04)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.042)
Methylene chloride	ND(0.17)	ND(0.18)
Toluene	0.038 J	ND(0.042)
Trichloroethene	ND(0.04)	ND(0.042)
Vinyl chloride	ND(0.04)	ND(0.042)
SVOC		
Benzo(a)anthracene	0.658 J	0.451 J
Benzo(a)pyrene	ND(0.98 J)	ND(2 J)
Benzo(b)fluoranthene	0.441 J	ND(2 J)
Dibenz(a,h)anthracene	ND(0.98 J)	ND(2 J)
Indeno(1,2,3-cd)pyrene	ND(0.98 J)	ND(2 J)
Phenanthrene	4.52	2.89
Inorganic		
Arsenic	7.5 J	32 J (RDC)
Beryllium	1.1 J	5.3 J
Chromium Total	37	73
Cyanide (total)	0.16 J	0.14 J
Lead	150	2900 (IDC,RDC)
Manganese	630	1500
Vanadium	18	33

RFI-83-84-09	0.8 - 2.8 (ft)	6.8 - 8.8 (ft)
VOC		
Benzene	ND(0.038)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.042)
Methylene chloride	ND(0.16)	ND(0.18)
Toluene	ND(0.038)	ND(0.042)
Trichloroethene	ND(0.038)	ND(0.042)
Vinyl chloride	ND(0.038)	ND(0.042)
SVOC		
Benzo(a)anthracene	0.917 J	ND(0.21)
Benzo(a)pyrene	0.71 J	ND(0.21)
Benzo(b)fluoranthene	0.784 J	ND(0.21)
Dibenz(a,h)anthracene	ND(0.93 J)	ND(0.21)
Indeno(1,2,3-cd)pyrene	0.537 J	ND(0.21)
Phenanthrene	3.07	0.049 J
Inorganic		
Arsenic	3.2	2.4
Beryllium	0.24	0.54
Chromium Total	5.6 J	15 J
Cyanide (total)	R	R
Lead	13 J	8.8 J
Manganese	120 J	250 J
Vanadium	10	22

RFI-83-84-04	0 - 2 (ft)	8 - 10 (ft)	12 - 14 (ft)
VOC			
Benzene	ND(0.041)	ND(0.041)	ND(0.029)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.041)	ND(0.029)
Methylene chloride	ND(0.18)	ND(0.18)	ND(0.12)
Toluene	ND(0.041)	ND(0.041)	ND(0.029)
Trichloroethene	ND(0.041)	ND(0.041)	ND(0.029)
Vinyl chloride	ND(0.041)	ND(0.041)	ND(0.029)
SVOC			
Benzo(a)anthracene	1.296 J	ND(0.2 J)	ND(0.2)
Benzo(a)pyrene	1.425 J	ND(0.2 J)	ND(0.2)
Benzo(b)fluoranthene	1.49 J	ND(0.2 J)	ND(0.2)
Dibenz(a,h)anthracene	0.304 J	ND(0.2 J)	ND(0.2)
Indeno(1,2,3-cd)pyrene	1.263 J	ND(0.2 J)	ND(0.2)
Phenanthrene	1.079 J	ND(0.2)	ND(0.2)
Inorganic			
Arsenic	10.7 J (RDC)	3.85 J	4.02 J
Beryllium	NS	NS	NS
Chromium Total	37.5	15.7	14.7
Cyanide (total)	NS	NS	NS
Lead	1570 (IDC,RDC)	14.6	10.9
Manganese	NS	NS	NS
Vanadium	NS	NS	NS

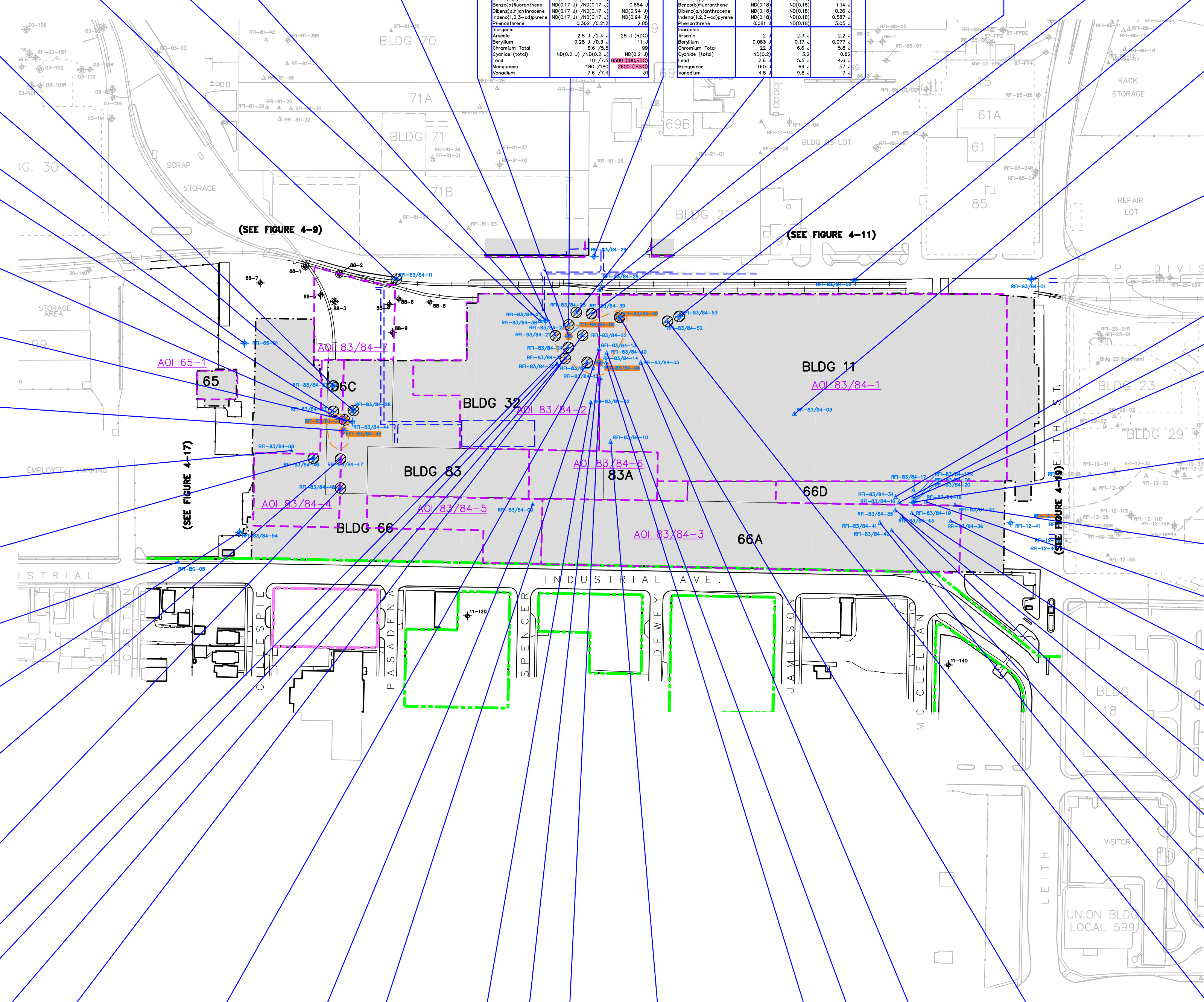
RFI-83-84-10	0 - 2 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC			
Benzene	ND(0.05)	ND(0.04)	ND(0.042) /ND(0.043)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.04)	ND(0.042) /ND(0.043)
Methylene chloride	ND(0.21)	ND(0.17)	ND(0.18) /ND(0.18)
Toluene	ND(0.05)	ND(0.04)	ND(0.042) /ND(0.043)
Trichloroethene	0.051	ND(0.04)	ND(0.042) /ND(0.043)
Vinyl chloride	ND(0.05)	ND(0.04)	ND(0.042) /ND(0.043)
SVOC			
Benzo(a)anthracene	7.9	0.24 J	ND(0.21) /ND(0.21)
Benzo(a)pyrene	8.3 J (IDC,RDC)	0.2 J	ND(0.21) /ND(0.21)
Benzo(b)fluoranthene	7.8 J	ND(0.19 J)	ND(0.21) /ND(0.21)
Dibenz(a,h)anthracene	0.95 J	ND(0.19 J)	ND(0.21) /ND(0.21)
Indeno(1,2,3-cd)pyrene	5.4 J	ND(0.19 J)	ND(0.21) /ND(0.21)
Phenanthrene	11	1.3	ND(0.21) /ND(0.21)
Inorganic			
Arsenic	5.72 J	2.66 J	4.64 J /4 J
Beryllium	NS	NS	NS
Chromium Total	14.9	12.2	9.21 /5.19
Cyanide (total)	NS	NS	NS
Lead	857 (RDC)	7.62	17 /11.4
Manganese	NS	NS	NS
Vanadium	NS	NS	NS

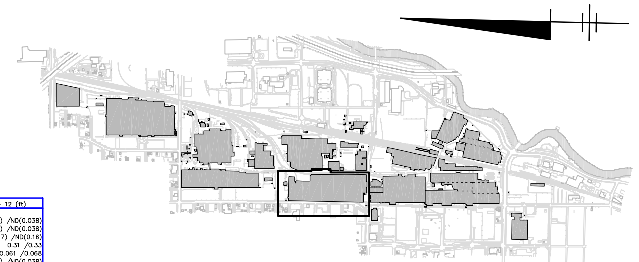
RFI-83-84-14	0.8 - 1 (ft)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	3600 (IDC,RDC)
Manganese	NS
Vanadium	NS

RFI-83-84-33	1.2 - 3.2 (ft)	7.2 - 9.2 (ft)
Inorganic		
Arsenic	4.7 /4.2	6.4
Beryllium	0.59 /0.54	0.66
Chromium Total	14 J /9.5 J	17 J
Cyanide (total)	NS	NS
Lead	51 /70	53
Manganese	180 J /360 J	290 J
Vanadium	21 /17	27

RFI-83-84-49	0.9 - 2.9 (ft)	4.5 - 6.5 (ft)	8.5 - 10.5 (ft)
VOC			
Benzene	ND(0.038)	ND(0.04)	ND(0.041) /ND(0.04)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04)	ND(0.041) /ND(0.04)
Methylene chloride	ND(0.16)	ND(0.17)	ND(0.18) /ND(0.17)
Toluene	ND(0.077)	ND(0.08)	ND(0.083) /ND(0.079)
Trichloroethene	ND(0.038)	ND(0.04)	ND(0.041) /ND(0.04)
Vinyl chloride	ND(0.077)	ND(0.08)	ND(0.083) /ND(0.079)
SVOC			
Benzo(a)anthracene	3.25 J	ND(1.9)	0.0766 J /ND(1.9)
Benzo(a)pyrene	3.6 J (RDC)	ND(1.9 J)	ND(0.21 J) /ND(1.9 J)
Benzo(b)fluoranthene	3.75 J	ND(1.9 J)	ND(0.21 J) /ND(1.9 J)
Dibenz(a,h)anthracene	ND(4.7 J)	ND(1.9 J)	ND(0.21 J) /ND(1.9 J)
Indeno(1,2,3-cd)pyrene	ND(4.7 J)	ND(1.9 J)	ND(0.21 J) /ND(1.9 J)
Phenanthrene	9.67	1.47 J	0.266 /ND(1.9)
Inorganic			
Arsenic	3.3	35 (RDC)	2.9 /15 (RDC)
Beryllium	0.22	0.23	0.42 /0.19
Chromium Total	26	20	22 /21
Cyanide (total)	ND(0.2)	0.3 J	ND(0.2) /ND(0.2)
Lead	65	1200 (IDC,RDC)	13 /590 (RDC)
Manganese	290	460	82 /370
Vanadium	10	18	22 /23

RFI-83-84-52	0.9 - 2.9 (ft)	2.9 - 4.9 (ft)	6.9 - 8.9 (ft)
VOC			
Benzene	ND(0.038)	ND(0.038) /ND(0.038)	ND(0.044)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038) /ND(0.038)	ND(0.044)
Methylene chloride	ND(0.16)	0.03 J /ND(0.16)	ND(0.19)
Toluene	ND(0.075)	ND(0.077) /ND(0.075)	ND(0.088)
Trichloroethene	ND(0.038)	ND(0.038) /ND(0.038)	ND(0.044)
Vinyl chloride	ND(0.075)	ND(0.077) /ND(0.075)	ND(0.088)
SVOC			
Benzo(a)anthracene	ND(1.9 J)	ND(2.9) /0.45 J	0.192 J
Benzo(a)pyrene	ND(1.9 J)	ND(2.9) /ND(0.56)	ND(0.22)
Benzo(b)fluoranthene	ND(1.9 J)	ND(2.9) /ND(0.56)	ND(0.22)
Dibenz(a,h)anthracene	ND(1.9 J)	ND(2.9 J) /ND(0.56 J)	ND(0.22 J)
Indeno(1,2,3-cd)pyrene	ND(1.9 J)	ND(2.9 J) /ND(0.56 J)	ND(0.22 J)
Phenanthrene	1.42 J	2.65 J /2.59	0.971
Inorganic			
Arsenic	4.5	4.1 /3.5	10 (RDC)
Beryllium	0.36	0.26 /0.23	0.81
Chromium Total	12	9.6 /8.6	26
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)	ND(0.3)
Lead	8.4	7.1 /7	16
Manganese	200	180 /130	400
Vanadium	21	18 /18	42





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTORYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. R-RESULT REJECTED DURING DATA VALIDATION.
12. RDC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.
13. RPSIC-EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FACTORY 83/84 (BUILDINGS 11, 32, 65, 66, AND 83) AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-15

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C15.DWG

SB-2	9/20/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Dibenz(a,h)anthracene	ND(0.002)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Phenanthrene	ND(0.005)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	ND(0.005)
Lead	NS
Manganese	NS
Vanadium	NS
Inorganic-Dissolved	
Arsenic	0.0064
Beryllium	ND(0.0004)
Chromium Total	ND(0.0006)
Cyanide (total)	ND(0.005)
Lead	ND(0.0004)
Manganese	0.074
Vanadium	ND(0.0008)

RFI-83-84-11	9/24/2001	6/19/2002	4/1/2003	10/7/2004
VOC				
Benzene	0.04 (DW,RDW)	0.16 D (DW,RDW)	0.023 (DW,RDW)	0.067 (DW,RDW)
cis-1,2-Dichloroethene	0.0054	0.0009 J	0.001	ND(0.005)
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005)	0.01 J (DW,RDW)
Toluene	0.011	2.3 D (DW,RDW)	0.012	0.64
Trichloroethene	0.035 (DW,RDW)	0.0019	ND(0.001)	ND(0.005)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)
SVOC				
Benzo(a)anthracene	ND(0.0011)	NS	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS	NS
Dibenz(a,h)anthracene	ND(0.0022)	NS	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022)	NS	NS	NS
Phenanthrene	ND(0.0056)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0047	NS	NS
Beryllium	NS	ND(0.0004 J)	NS	NS
Chromium Total	NS	0.0023 J	NS	NS
Cyanide (total)	ND(0.005)	0.0079 J	NS	NS
Lead	NS	0.0048 J	NS	NS
Manganese	NS	0.0016	NS	NS
Vanadium	NS	0.39	NS	NS
Inorganic-Dissolved				
Arsenic	0.0062	0.0034	NS	NS
Beryllium	ND(0.0004 J)	ND(0.0004 J)	NS	NS
Chromium Total	ND(0.0006)	0.0033 J	NS	NS
Cyanide (total)	0.0064	0.0053 J	NS	NS
Lead	ND(0.0004)	ND(0.0004)	NS	NS
Manganese	0.56	0.25 J	NS	NS
Vanadium	0.0064 (RDW)	0.0011 J	NS	NS

RFI-83-84-27	2/21/2002	6/18/2002	4/2/2003	10/7/2004
VOC				
Benzene	ND(0.001)	NS	ND(0.001)	0.0004 J
cis-1,2-Dichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)	ND(0.005)
Toluene	ND(0.001)	NS	ND(0.001)	0.0004 J
Trichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
SVOC				
Benzo(a)anthracene	ND(0.001)	NS	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS	NS
Dibenz(a,h)anthracene	ND(0.002)	NS	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS	NS
Phenanthrene	ND(0.005)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0031	NS	NS
Beryllium	NS	ND(0.0004 J)	NS	ND(0.001)
Chromium Total	NS	0.001	NS	NS
Cyanide (total)	0.0072	0.0074	NS	NS
Lead	NS	0.00092	NS	NS
Manganese	NS	0.17	NS	NS
Vanadium	NS	0.00054 J	NS	NS
Inorganic-Dissolved				
Arsenic	0.0047 J	NS	NS	NS
Beryllium	0.021 J (DW,RDW)	NS	NS	NS
Chromium Total	0.012	NS	NS	NS
Cyanide (total)	0.0066	NS	NS	NS
Lead	0.00088	NS	NS	NS
Manganese	0.2	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS

RFI-83-84-29	2/21/2002	6/18/2002	4/1/2003
VOC			
Benzene	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	ND(0.001)	NS	NS
Methylene chloride	ND(0.005)	NS	NS
Toluene	ND(0.001)	NS	NS
Trichloroethene	ND(0.001)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
Dibenz(a,h)anthracene	ND(0.002)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS
Phenanthrene	ND(0.005)	NS	NS
Inorganic			
Arsenic	NS	0.0055	0.0061
Beryllium	NS	ND(0.0004 J)	ND(0.0004)
Chromium Total	NS	0.00071 J	0.00095 J
Cyanide (total)	0.0023 J	ND(0.005)	ND(0.005)
Lead	NS	0.0003 J	0.00013 J
Manganese	NS	1.2 (RDW)	0.57 J
Vanadium	NS	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved			
Arsenic	0.0079	NS	NS
Beryllium	0.023 J (DW,RDW)	NS	NS
Chromium Total	0.014	NS	NS
Cyanide (total)	0.0033 J	NS	NS
Lead	0.00062 J	NS	NS
Manganese	1.1 (RDW)	NS	NS
Vanadium	0.00099	NS	NS

RFI-83-84-02	10/1/2001	12/18/2002
VOC		
Benzene	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Toluene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
Phenanthrene	ND(0.005)	NS
Inorganic		
Arsenic	NS	0.0081
Beryllium	NS	ND(0.0004 J)
Chromium Total	NS	0.0018 J
Cyanide (total)	0.0083	0.003 J
Lead	NS	0.00065 J
Manganese	NS	1 (RDW)
Vanadium	NS	0.00024 J
Inorganic-Dissolved		
Arsenic	ND(0.067)	NS
Beryllium	ND(0.0004)	NS
Chromium Total	ND(0.0006)	NS
Cyanide (total)	0.0085	NS
Lead	ND(0.0004)	NS
Manganese	1.1	NS
Vanadium	ND(0.0008)	NS

RFI-83-84-02-ULF	10/1/2001
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	0.01
Lead	NS
Manganese	NS
Vanadium	NS

RFI-83-84-01	9/21/2001	4/4/2005
VOC		
Benzene	0.0011	NS
cis-1,2-Dichloroethene	0.00059 J	NS
Methylene chloride	ND(0.005)	NS
Toluene	ND(0.001)	NS
Trichloroethene	0.0016	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	ND(0.001)	ND(0.005) /ND(0.005)
Benzo(a)pyrene	ND(0.002)	ND(0.005) /ND(0.005)
Benzo(b)fluoranthene	ND(0.002)	ND(0.005) /ND(0.005)
Dibenz(a,h)anthracene	ND(0.002)	ND(0.005) /ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)	ND(0.005) /ND(0.005)
Phenanthrene	ND(0.005)	ND(0.005) /ND(0.005)
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	0.051	NS
Lead	NS	NS
Manganese	NS	NS
Vanadium	NS	NS
Inorganic-Dissolved		
Arsenic	0.0018 J	NS
Beryllium	ND(0.0004)	NS
Chromium Total	0.001	NS
Cyanide (total)	0.05	NS
Lead	ND(0.0004)	NS
Manganese	0.48	NS
Vanadium	ND(0.0008)	NS

SB-7	9/20/2001	6/14/2002
VOC		
Benzene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Toluene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)anthracene	ND(0.0011)	NS
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
Dibenz(a,h)anthracene	ND(0.0021)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS
Phenanthrene	ND(0.0053)	NS
Inorganic		
Arsenic	NS	0.0031
Beryllium	NS	ND(0.0004 J)
Chromium Total	NS	0.00055 J
Cyanide (total)	0.0058	NS
Lead	NS	0.00014 J
Manganese	NS	1.1 J (RDW)
Vanadium	NS	ND(0.0008)
Inorganic-Dissolved		
Arsenic	0.0058	NS
Beryllium	ND(0.0004)	NS
Chromium Total	0.00075	NS
Cyanide (total)	0.0042 J	NS
Lead	ND(0.0004)	NS
Manganese	0.73	NS
Vanadium	ND(0.0008)	NS

RFI-65-01	9/24/2001	6/13/2002	4/1/2003
VOC			
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.049	0.037	0.019
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.042 (DW,RDW)	0.046 (DW,RDW)	0.036 (DW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
Benzo(a)anthracene	ND(0.0011)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS
Dibenz(a,h)anthracene	ND(0.0022)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022)	NS	NS
Phenanthrene	ND(0.0056)	NS	NS
Inorganic			
Arsenic	NS	ND(0.001)	NS
Beryllium	NS	ND(0.0004 J)	NS
Chromium Total	NS	0.0021	NS
Cyanide (total)	0.004 J	NS	NS
Lead	NS	0.00028 J	NS
Manganese	NS	1.9 J (RDW)	NS
Vanadium	NS	0.00056 J	NS
Inorganic-Dissolved			
Arsenic	ND(0.0018)	NS	NS
Beryllium	ND(0.0004 J)	NS	NS
Chromium Total	0.0013	NS	NS
Cyanide (total)	0.0029 J	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	1.3 (RDW)	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-83-84-51	9/19/2003	10/14/2003
VOC		
Benzene	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Toluene	ND(0.001)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	NS	ND(0.001) /ND(0.001)
Benzo(a)pyrene	NS	ND(0.002) /ND(0.002)
Benzo(b)fluoranthene	NS	ND(0.002) /ND(0.002)
Dibenz(a,h)anthracene	NS	ND(0.002) /ND(0.002)
Indeno(1,2,3-cd)pyrene	NS	ND(0.002) /ND(0.002)
Phenanthrene	NS	ND(0.005) /ND(0.005)
Inorganic		
Arsenic	0.11 J (DW,RDW)	NS
Beryllium	0.14 J (DW,RDW)	NS
Chromium Total	0.016	NS
Cyanide (total)	ND(0.005)	NS
Lead	0.0081 (DW,RDW)	NS
Manganese	0.36 J	NS
Vanadium	0.01 J (RDW)	NS
Inorganic-Dissolved		
Arsenic	0.097 J (DW,RDW)	NS
Beryllium	0.027 J (DW,RDW)	NS
Chromium Total	0.0025 J	NS
Cyanide (total)	ND(0.005)	NS
Lead	0.00052 J	NS
Manganese	0.18 J	NS
Vanadium	ND(0.0008 J)	NS

RFI-83-84-08	7/31/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002 J)
Benzo(b)fluoranthene	ND(0.002 J)
Dibenz(a,h)anthracene	ND(0.002 J)
Indeno(1,2,3-cd)pyrene	ND(0.002 J)
Phenanthrene	ND(0.005)
Inorganic-Dissolved	
Arsenic	0.055 (DW,RDW)
Beryllium	ND(0.0004)
Chromium Total	0.0023
Cyanide (total)	0.0021 J
Lead	ND(0.0004)
Manganese	0.16
Vanadium	ND(0.0008)

RFI-83-84-05	7/31/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.003
Methylene chloride	ND(0.005)
Toluene	ND(0.001)
Trichloroethene	0.004
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Dibenz(a,h)anthracene	ND(0.002)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Phenanthrene	ND(0.005)
Inorganic-Dissolved	
Arsenic	0.036
Beryllium	ND(0.0004)
Chromium Total	0.0036
Cyanide (total)	0.0017 J
Lead	0.02 (DW,RDW)
Manganese	0.41
Vanadium	0.0014

RFI-83-84-20	2/22/2002	6/20/2002	4/2/2003
VOC			
Benzene	ND(0.001)	NS	NS
cis-1,2-Dichloroethene	0.00083 J	NS	NS
Methylene chloride	ND(0.005)	NS	NS
Toluene	ND(0.001)	NS	NS
Trichloroethene	0.0015	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002 J)	NS	NS
Benzo(b)fluoranthene	ND(0.002 J)	NS	NS
Dibenz(a,h)anthracene	ND(0.002 J)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002 J)	NS	NS
Phenanthrene	ND(0.005)	NS	NS
Inorganic			
Arsenic	NS	0.014	0.023
Beryllium	NS	ND(0.0004)	ND(0.0004)
Chromium Total	NS	0.00061	0.00029 J
Cyanide (total)	0.0011 J	ND(0.005)	ND(0.005)
Lead	NS	0.017 (DW,RDW)	0.0016
Manganese	NS	0.61	0.6 J
Vanadium	NS	ND(0.0008)	0.00009 J
Inorganic-Dissolved			
Arsenic	0.017 J	NS	NS
Beryllium	0.011 J (DW,RDW)	NS	NS
Chromium Total	0.014 J	NS	NS
Cyanide (total)	ND(0.005)	NS	NS
Lead	0.0033 J	NS	NS
Manganese	0.92 J (RDW)	NS	NS
Vanadium	0.0023 J	NS	NS

11-140	9/28/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Toluene	0.00078 J
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.0011 J)
Benzo(a)pyrene	ND(0.0022 J)
Benzo(b)fluoranthene	ND(0.0022 J)
Dibenz(a,h)anthracene	ND(0.0022 J)
Indeno(1,2,3-cd)pyrene	ND(0.0022 J)
Phenanthrene	ND(0.0056 J)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	0.0017 J
Lead	NS
Manganese	NS
Vanadium	NS
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004 J)
Chromium Total	ND(0.0006 J)
Cyanide (total)	0.0028 J
Lead	ND(0.0004)
Manganese	0.22
Vanadium	ND(0.0008)

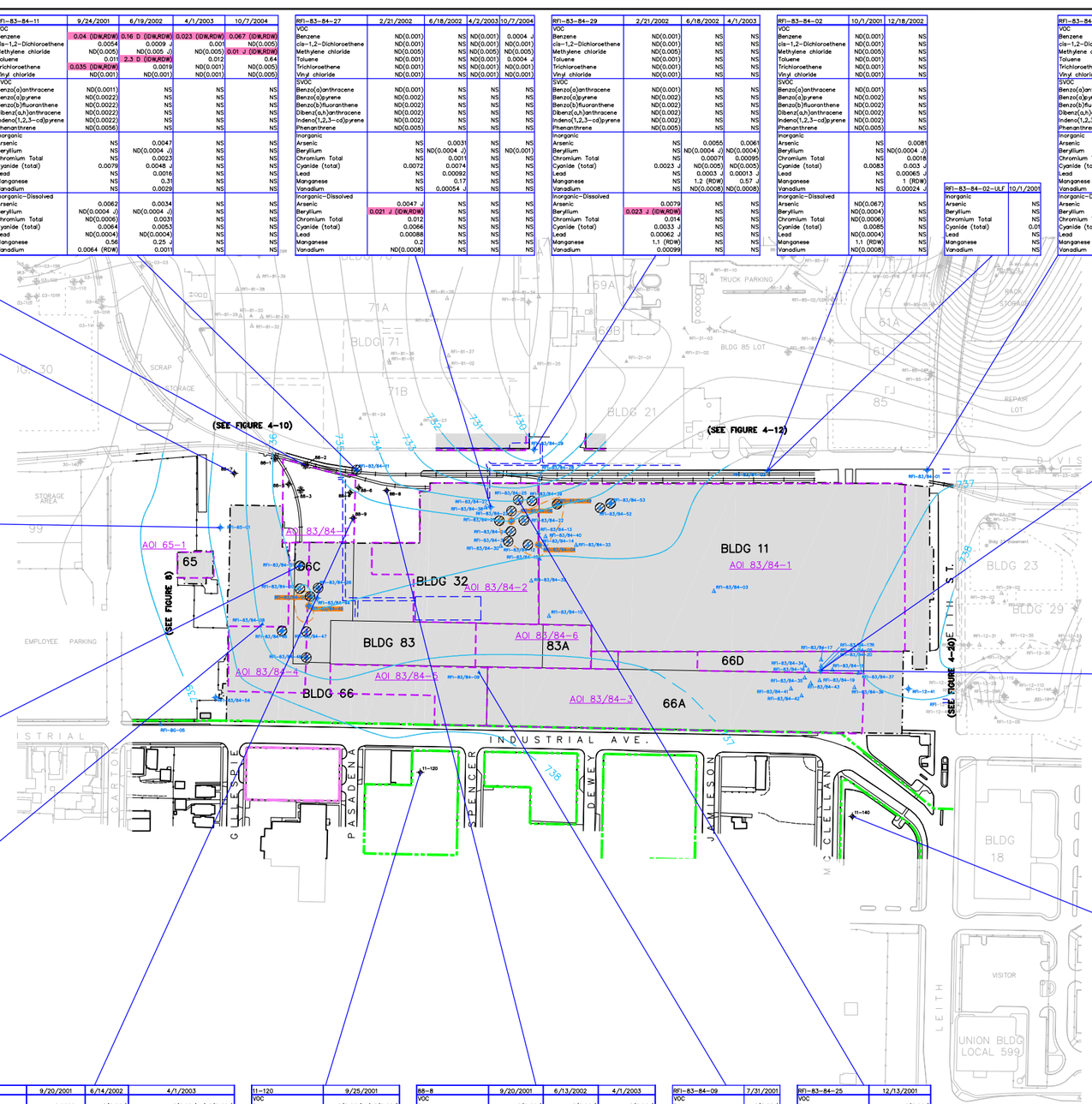
SB-9	9/20/2001	6/14/2002	4/1/2003
VOC			
Benzene	0.00061 J	ND(0.001)	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	0.088 D (DW,RDW)	0.024	0.0016 /0.0014
Methylene chloride	ND(0.005)	ND(0.005 J)	ND(0.005) /ND(0.005)
Toluene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	0.15 D (DW,RDW)	0.1 (DW,RDW)	0.1 D (DW,RDW) /0.1 D (DW,RDW)
SVOC			
Benzo(a)anthracene	ND(0.0011)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS
Dibenz(a,h)anthracene	ND(0.0022)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022)	NS	NS
Phenanthrene	ND(0.0056)	NS	NS
Inorganic			
Arsenic	NS	NS	NS
Beryllium	NS	NS	NS
Chromium Total	NS	NS	NS
Cyanide (total)	0.0099	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Vanadium	NS	NS	NS
Inorganic-Dissolved			
Arsenic	0.036	NS	NS
Beryllium	ND(0.0004)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Cyanide (total)	0.0089	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.077	NS	NS
Vanadium	ND(0.0008)	NS	NS

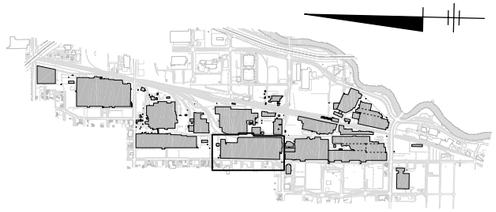
11-120	9/25/2001
VOC	
Benzene	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)
Toluene	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001) /ND(0.001)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
Benzo(b)fluoranthene	ND(0.002) /ND(0.002)
Dibenz(a,h)anthracene	ND(0.002) /ND(0.002)
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.002)
Phenanthrene	ND(0.005) /ND(0.005)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	0.0027 J /0.0033 J
Lead	NS
Manganese	NS
Vanadium	NS
Inorganic-Dissolved	
Arsenic	0.0031 J /0.0026 J
Beryllium	ND(0.0004) /ND(0.0004)
Chromium Total	0.0006 /0.00072
Cyanide (total)	0.0035 J /0.0038 J
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.13 J /0.12 J
Vanadium	ND(0.0008) /ND(0.0008)

68-8	9/20/2001	6/13/2002	4/1/2003
VOC			
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	0.0013	0.0009 J	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Toluene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.0052 (DW,RDW)	0.0038 (DW,RDW)	0.012 J (DW,RDW)
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
Dibenz(a,h)anthracene	ND(0.002)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS
Phenanthrene	ND(0.005)	NS	NS
Inorganic			
Arsenic	NS	NS	NS
Beryllium	NS	NS	NS
Chromium Total	NS	NS	NS
Cyanide (total)	0.004 J	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Vanadium	NS	NS	NS
Inorganic-Dissolved			
Arsenic	0.039	NS	NS
Beryllium	ND(0.0004)	NS	NS
Chromium Total	ND(0.0006)	NS	NS
Cyanide (total)	0.0049 J	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.4	NS	NS
Vanadium	ND(0.0008)	NS	NS

RFI-83-84-09	7/31/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Methylene chloride	ND(0.005)
Toluene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	0.00055 J
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Dibenz(a,h)anthracene	ND(0.002)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Phenanthrene	ND(0.005)
Inorganic	
Arsenic	0.0094
Beryllium	ND(0.0004)
Chromium Total	0.0014
Cyanide (total)	ND(0.005)
Lead	ND(0.0004)
Manganese	0.17
Vanadium	0.00092

RFI-83-84-25	12/13/2001
VOC	
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.075 (DW,RDW)
Methylene chloride	ND(0.005)
Toluene	ND(0.001)
Trichloroethene	0.001
Vinyl chloride	0.069 (DW,RDW)
SVOC	
Benzo(a)anthracene	ND(0.0011)
Benzo(a)pyrene	ND(0.0021)
Benzo(b)fluoranthene	ND(0.0021)
Dibenz(a,h)anthracene	ND(0.0021)
Indeno(1,2,3-cd)pyrene	ND(0.0021)
Phenanthrene	ND(0.0053)
Inorganic	
Arsenic	0.1 J (DW,RDW)
Beryllium	0.0046 J (DW,RDW)
Chromium Total	0.0024 J
Cyanide (total)	0.042
Lead	0.00039 J
Manganese	0.17 J
Vanadium	ND(0.0008)
Inorganic-Dissolved	
Arsenic	0.095 (DW,RDW)
Beryllium	0.00081
Chromium Total	ND(0.0006)
Cyanide (total)	0.038
Lead	ND(0.0004)
Manganese	0.12
Vanadium	ND(0.0008)





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA: IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
13. (ULF) – SAMPLE WAS COLLECTED USING ULTRA LOW-FLOW PROCEDURES TO MINIMIZE TUBIDITY.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD–BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL–SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P- PAGESET/SYR–DL
7/11/06 SYR–85–NES LAF GMS
64410112/RFI–06/64410C16.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FACTORY 83/84 (BUILDINGS 11, 32, 65, 66, AND 83) AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-16

EP 94-02B	0.5 – 2.5 (ft)	2.5 – 4.5 (ft)	4.5 – 6.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.038)
Benzene	ND(0.039)	ND(0.038)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.038)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)	ND(0.038)
SVOC			
Benzo(a)anthracene	ND(0.19 J)	ND(0.19)	ND(0.19)
Benzo(a)pyrene	ND(0.19)	ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	ND(0.19)	ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.19)	ND(0.19)
Di-n-butylphthalate	ND(0.19)	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.137 J	ND(0.19)	ND(0.19)
PCB			
Total PCBs	ND(0.04)	ND(0.038)	ND(0.038)

BD 94 EP-02	0.33 – 2 (ft)	8 – 10 (ft)	16 – 18 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.041)	ND(0.037)
Benzene	ND(0.039)	ND(0.041)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.041)	ND(0.037)
Trichloroethene	ND(0.039)	ND(0.041)	ND(0.037)
Vinyl chloride	ND(0.039)	ND(0.041)	ND(0.037)
SVOC			
Benzo(a)anthracene	ND(0.95 J)	ND(0.2)	ND(0.18)
Benzo(a)pyrene	ND(0.95 J)	ND(0.2)	ND(0.18)
Benzo(b)fluoranthene	ND(0.95 J)	ND(0.2)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.95 J)	ND(0.2)	ND(0.18)
Di-n-butylphthalate	ND(0.95)	ND(0.2)	ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.95 J)	ND(0.2 J)	ND(0.18)
PCB			
Total PCBs	6.9 (RDC)	ND(0.04)	ND(0.038)
Inorganic			
Arsenic	6.8 J	10 J (RDC)	5.4 J
Beryllium	0.46	0.69	0.28
Chromium Total	10	23	11 J
Cyanide (total)	0.088 J	ND(0.4)	ND(0.4)
Lead	130 J	10 J	5.8 J
Manganese	390 J	410 J	250 J
Nickel	11	29	13
Selenium	ND(1.9 J)	ND(1.7 J)	ND(1.8 J)
Silver	0.32 J	0.097 J	0.11 J
Vanadium	15 J	38 J	17 J

EP 94-02A	2.5 – 4.5 (ft)	4.5 – 6.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.037)
Benzene	ND(0.04)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.037)
Trichloroethene	ND(0.04)	ND(0.037)
Vinyl chloride	ND(0.04)	ND(0.037)
SVOC		
Benzo(a)anthracene	ND(0.19 J)	ND(0.18)
Benzo(a)pyrene	ND(0.19 J)	ND(0.18)
Benzo(b)fluoranthene	ND(0.19 J)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.18)
Di-n-butylphthalate	ND(0.19)	ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.19 J)	ND(0.18)
PCB		
Total PCBs	ND(0.04)	ND(0.037)

EP 94-02D	0.5 – 2.5 (ft)	2.5 – 4.5 (ft)
PCB		
Total PCBs	ND(0.037)	ND(0.04)

EP 94-02C	0.5 – 2.5 (ft)	2.5 – 4.5 (ft)
PCB		
Total PCBs	ND(0.038)	ND(0.039)

BD 94 EP-01	0.5 – 2 (ft)	8 – 10 (ft)	14 – 16 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.04)	ND(0.038)
Benzene	ND(0.039)	ND(0.04)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.04)	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.04)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.04)	ND(0.038)
SVOC			
Benzo(a)anthracene	ND(0.19)	ND(0.19)	ND(0.18)
Benzo(a)pyrene	ND(0.19)	ND(0.19)	ND(0.18)
Benzo(b)fluoranthene	ND(0.19)	ND(0.19)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19)	ND(0.18)
Di-n-butylphthalate	ND(0.19)	ND(0.19)	ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.19)	ND(0.19)	ND(0.18)
PCB			
Total PCBs	ND(0.039)	ND(0.04)	ND(0.038)
Inorganic			
Arsenic	6.9 J	6.3 J	4.9 J
Beryllium	0.38	0.64	0.28
Chromium Total	13	22	14
Cyanide (total)	0.077 J	0.027 J	0.13 J
Lead	8.7 J	10 J	5 J
Manganese	300 J	400 J	230 J
Nickel	15	27	13
Selenium	ND(1.5 J)	ND(1.6 J)	ND(1.6 J)
Silver	0.062 J	0.092 J	0.049 J
Vanadium	24 J	34 J	17 J

RFI-94-08	4 – 6 (ft)	8 – 10 (ft)	21 – 23 (ft)
VOC			
1,1-Dichloroethene	ND(0.041)	ND(0.038) /ND(0.038)	ND(0.039)
Benzene	ND(0.041)	ND(0.038) /ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.038) /ND(0.038)	ND(0.039)
Trichloroethene	ND(0.041)	ND(0.038) /ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.082)	ND(0.076) /ND(0.076)	ND(0.078)
SVOC			
Benzo(a)anthracene	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(a)pyrene	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
Di-n-butylphthalate	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.19) /ND(0.19)	ND(0.19)
PCB			
Total PCBs	ND(0.041)	ND(0.039) /ND(0.038)	ND(0.039)
Inorganic			
Arsenic	4.3	5.3 /6.3	2.2
Beryllium	0.54	0.42 /ND(1.4)	0.16
Chromium Total	19	13 /13	8
Cyanide (total)	NS	NS	NS
Lead	62	6 /ND(7)	3.1
Manganese	380	460 /310	150
Nickel	13	19 /14	8.6
Selenium	ND(1)	ND(0.93) /ND(8.4)	ND(0.42)
Silver	ND(0.17)	ND(0.15) /ND(3.5)	ND(0.17)
Vanadium	19	20 /18	12

RFI-94-02	0 – 2 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC			
1,1-Dichloroethene	ND(0.04)	ND(0.039)	ND(0.041)
Benzene	ND(0.04)	ND(0.039)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.039)	ND(0.041)
Trichloroethene	ND(0.04)	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.04)	ND(0.039)	ND(0.041)
SVOC			
Benzo(a)anthracene	0.209	ND(0.19)	ND(0.2)
Benzo(a)pyrene	0.227 J	ND(0.19)	ND(0.2)
Benzo(b)fluoranthene	0.231 J	ND(0.19)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.19)	ND(0.2)
Di-n-butylphthalate	ND(0.2)	ND(0.19)	ND(0.2)
Indeno(1,2,3-cd)pyrene	0.112 J	ND(0.19)	ND(0.2)
PCB			
Total PCBs	ND(0.04)	ND(0.04)	ND(0.04)
Inorganic			
Arsenic	8.2 J (RDC)	4.2 J	5.1 J
Beryllium	0.47 J	0.5 J	0.3 J
Chromium Total	17 J	20 J	13
Cyanide (total)	0.099 J	ND(0.2)	ND(0.4)
Lead	110 J	8.7 J	7.1 J
Manganese	420 J	300 J	360 J
Nickel	12 J	23 J	17 J
Selenium	ND(0.56)	ND(0.22)	ND(0.27)
Silver	0.2 J	0.087 J	0.13 J
Vanadium	21 J	26 J	18 J

RFI-94-04	0.4 – 2 (ft)	8 – 10 (ft)
VOC		
1,1-Dichloroethene	ND(0.041) /ND(0.038)	ND(0.039)
Benzene	ND(0.041) /ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.041) /ND(0.038)	ND(0.039)
Trichloroethene	ND(0.041) /ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.041) /ND(0.038)	ND(0.039)
SVOC		
Benzo(a)anthracene	0.123 J /0.173 J	ND(0.19)
Benzo(a)pyrene	ND(0.2) /0.095 J	ND(0.19)
Benzo(b)fluoranthene	ND(0.2 J) /0.158 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.2) /ND(0.19)	ND(0.19 J)
Di-n-butylphthalate	0.152 J /0.143 J	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.2) /ND(0.19)	ND(0.19)
PCB		
Total PCBs	ND(0.041) /ND(0.039)	ND(0.039)
Inorganic		
Arsenic	8.1 (RDC) /6.1	8.2 (RDC)
Beryllium	0.91 /0.51	0.39
Chromium Total	39 /63	14
Cyanide (total)	0.028 J /0.092 J	0.04 J
Lead	120 /110	8
Manganese	560 /460	310
Nickel	38 /40	18
Selenium	0.86 J /ND(1.4)	ND(1.8)
Silver	0.15 J /0.066 J	0.076 J
Vanadium	22 J /14 J	19 J

RFI-84-11	0.5 – 2.5 (ft)	3.5 – 5.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.06) /ND(0.06)	ND(0.05)
Benzene	ND(0.06) /ND(0.06)	0.03 J
cis-1,2-Dichloroethene	ND(0.06) /ND(0.06)	ND(0.05)
Trichloroethene	ND(0.06) /ND(0.06)	0.03 J
Vinyl chloride	ND(0.1) /ND(0.1)	ND(0.1)

RFI-84-08	2 – 3 (ft)	8 – 10 (ft)	28 – 30 (ft)
VOC			
1,1-Dichloroethene	ND(0.05)	ND(0.07)	ND(0.07)
Benzene	ND(0.05)	ND(0.07)	ND(0.07)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.07)	ND(0.07)
Trichloroethene	ND(0.05)	0.02 J	ND(0.07)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)anthracene	ND(0.33)	0.2 J	ND(0.33)
Benzo(a)pyrene	ND(0.33)	0.1 J	ND(0.33)
Benzo(b)fluoranthene	ND(0.33)	0.1 J	ND(0.33)
bis(2-Ethylhexyl)phthalate	ND(0.33)	ND(0.33)	ND(0.33)
Di-n-butylphthalate	ND(0.33)	ND(0.33)	ND(0.33)
Indeno(1,2,3-cd)pyrene	ND(0.33)	0.3 J	ND(0.33)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	ND(0.68)	2.71	6.14
Beryllium	0.09 J	0.5	0.12 J
Chromium Total	28.5	3.6	2.9
Cyanide (total)	ND(0.1)	ND(0.1)	ND(0.1)
Lead	3.9	170	5.3
Manganese	155	303	360
Nickel	8.2	8.5	7
Selenium	ND(0.2)	ND(0.58)	ND(0.82)
Silver	ND(0.1)	ND(0.1)	ND(0.1)
Vanadium	1.7	7.4	5.3

RFI-94-11	1.5 – 3.5 (ft)	8 – 10 (ft)	10.5 – 12.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.06)	ND(0.06)	ND(0.06)
Benzene	ND(0.06)	ND(0.06)	ND(0.06)
cis-1,2-Dichloroethene	ND(0.06)	ND(0.06)	ND(0.06)
Trichloroethene	ND(0.06)	ND(0.06)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)anthracene	ND(0.3)	ND(0.3)	ND(0.3)
Benzo(a)pyrene	ND(0.3)	ND(0.3)	ND(0.3)
Benzo(b)fluoranthene	ND(0.3)	ND(0.3)	ND(0.3)
bis(2-Ethylhexyl)phthalate	ND(0.3)	ND(0.3)	ND(0.3)
Di-n-butylphthalate	ND(0.3)	ND(0.3)	ND(0.3)
Indeno(1,2,3-cd)pyrene	ND(0.3)	ND(0.3)	ND(0.3)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	1.34 J	3.29 J	4.65 J
Beryllium	0.24	0.229	0.173
Chromium Total	4.47	6.19	4.13
Cyanide (total)	ND(0.1)	ND(0.1)	ND(0.1)
Lead	80.2	6.95	5.53
Manganese	304	421	288
Nickel	4.75	13.6	7.96
Selenium	0.26	0.44	0.62
Silver	ND(0.2)	ND(0.2)	ND(0.2)
Vanadium	5.39	10.1	6.74

RFI-94-07	2 – 4 (ft)	4 – 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.042)
Benzene	ND(0.039)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.042)
Trichloroethene	ND(0.039)	ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.042)
SVOC		
Benzo(a)anthracene	ND(0.96)	ND(0.2)
Benzo(a)pyrene	ND(0.96)	ND(0.2)
Benzo(b)fluoranthene	ND(0.96)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.96)	ND(0.2)
Di-n-butylphthalate	ND(0.96)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.96)	ND(0.2)
PCB		
Total PCBs	ND(0.04)	ND(0.041)
Inorganic		
Arsenic	16 J (RDC)	4.8 J
Beryllium	0.6	0.51
Chromium Total	12 J	20 J
Cyanide (total)	ND(0.2 J)	ND(0.2 J)
Lead	16 J	8.3 J
Manganese	1300 J	350 J
Nickel	22	20
Selenium	0.64 J	1.1
Silver	0.15 J	0.17
Vanadium	52 J	31 J

RFI-94-01	0.5 – 2 (ft)	2 – 4 (ft)
VOC		
1,1-Dichloroethene	ND(0.037)	ND(0.04)
Benzene	ND(0.037)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037 J)	ND(0.04 J)
Trichloroethene	ND(0.037)	ND(0.04)
Vinyl chloride	ND(0.037)	ND(0.04)
SVOC		
Benzo(a)anthracene	ND(0.18)	ND(0.19)
Benzo(a)pyrene	ND(0.18)	ND(0.19)
Benzo(b)fluoranthene	ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.102 J	ND(0.19)
Di-n-butylphthalate	ND(0.18)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.19)
PCB		
Total PCBs	ND(0.037)	ND(0.04)
Inorganic		
Arsenic	2.9	2.5
Beryllium	0.11 J	0.11 J
Chromium Total	5.4	4.5
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	4.2 J	3.1 J
Manganese	110	95
Nickel	5.5	4.9 J
Selenium	ND(1.7 J)	ND(1.4 J)
Silver	ND(0.19 J)	ND(0.15)
Vanadium	8.3	7.7

RFI-17-01	0.7 – 2 (ft)	2 – 4 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.041)
Benzene	0.082	0.025 J
cis-1,2-Dichloroethene	ND(0.039 J)	ND(0.041 J)
Trichloroethene	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.039)	ND(0.041)
SVOC		
Benzo(a)anthracene	0.195 J	0.119 J
Benzo(a)pyrene	0.293 J	0.168 J
Benzo(b)fluoranthene	0.526 J	0.253
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.2)
Di-n-butylphthalate	0.0505 J	ND(0.2)
Indeno(1,2,3-cd)pyrene	0.19 J	0.119 J
PCB		
Total PCBs	0.147 J	0.22
Inorganic		
Arsenic	13 (RDC)	12 (RDC)
Beryllium	0.45	0.41
Chromium Total	31	26
Cyanide (total)	0.0053 J	0.061 J
Lead	65 J	53 J
Manganese	490	400
Nickel	16 J	16 J
Selenium	0.63 J	0.59 J
Silver	0.15 J	0.094 J
Vanadium	11	12

RFI-84-09	0.5 – 2.5 (ft)	8 – 10 (ft)
VOC		
1,1-Dichloroethene	ND(0.05)	ND(0.07)
Benzene	ND(0.05)	ND(0.07)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.07)
Trichloroethene	ND(0.05)	ND(0.07)
Vinyl chloride	ND(0.1)	ND(0.1)

RFI-84-10	0.7 – 2.7 (ft)	2.7 – 4.7 (ft)
VOC		
1,1-Dichloroethene	ND(0.05)	ND(0.06)
Benzene	ND(0.05)	ND(0.06)
cis-1,2-Dichloroethene	ND(0.05)	ND(0.06)
Trichloroethene	ND(0.05)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)

RFI-84-03	0.8 – 2 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC			
1,1-Dichloroethene	ND(0.037)	ND(0.042)	ND(0.042)
Benzene	ND(0.037)	ND(0.042)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.042)	ND(0.042)
Trichloroethene	ND(0.037)	ND(0.042)	ND(0.042)
Vinyl chloride	ND(0.037)	ND(0.042)	ND(0.042)
SVOC			
Benzo(a)anthracene	0.0888 J	ND(0.2)	ND(0.2)
Benzo(a)pyrene	0.0838 J	ND(0.2)	ND(0.2)
Benzo(b)fluoranthene	0.102 J	ND(0.2)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2 J)	ND(0.2 J)
Di-n-butylphthalate	0.0802 J	0.0561 J	0.0734 J
Indeno(1,2,3-cd)pyrene	0.0435 J	ND(0.2)	ND(0.2)
PCB			
Total PCBs	ND(0.037)	ND(0.042)	ND(0.041)
Inorganic			
Arsenic	6.8	11 (RDC)	6.2
Beryllium	0.55	0.56	0.1 J
Chromium Total	14	19	3.4
Cyanide (total)	ND(0.2)	ND(0.4)	0.053 J
Lead	16	10	2.1
Manganese	420	330	84
Nickel	20	24	3.7
Selenium	ND(1.3)	ND(1.8)	ND(1.8)
Silver	0.083 J	0.099 J	0.063 J
Vanadium	18 J	27 J	4 J

RFI-17-02	0.3 – 2 (ft)	4 – 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.043)
Benzene	ND(0.04)	ND(0.043)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.043)
Trichloroethene	ND(0.04)	ND(0.043)
Vinyl chloride	ND(0.04)	ND(0.043)
SVOC		
Benzo(a)anthracene	0.15 J	ND(0.21)
Benzo(a)pyrene	0.136 J	ND(0.21)
Benzo(b)fluoranthene	0.133 J	ND(0.21)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.21)
Di-n-butylphthalate	ND(0.2)	ND(0.21)
Indeno(1,2,3-cd)pyrene	0.0563 J	ND(0.21)
PCB		
Total PCBs	ND(0.041)	ND(0.043)
Inorganic		
Arsenic	10 (RDC)	14 (RDC)
Beryllium	2.1	0.72
Chromium Total	11 J	18 J
Cyanide (total)	0.28	ND(0.2)
Lead	270	11
Manganese	200	270
Nickel	34 J	21 J
Selenium	1.1 J	ND(1.7)
Silver	0.11 J	0.089 J
Vanadium	18 J	31 J

RFI-84-02	0.8 – 2 (ft)	8 – 10 (ft)
VOC		
1,1-Dichloroethene	ND(0.038)	ND(0.039)
Benzene	ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.039)
SVOC		
Benzo(a)anthracene	0.905 J	ND(0.19)
Benzo(a)pyrene	0.77 J	ND(0.19)
Benzo(b)fluoranthene	0.933 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19 J)
Di-n-butylphthalate	ND(0.19)	0.0889 J
Indeno(1,2,3-cd)pyrene	0.411 J	ND(0.19)
PCB		
Total PCBs	ND(0.038)	ND(0.039)
Inorganic		
Arsenic	4.3	2
Beryllium	0.34	0.092 J
Chromium Total	7.6	3.5
Cyanide (total)	0.04 J	ND(0.2)
Lead	47	2.2
Manganese	220	57
Nickel	11	4.1
Selenium	ND(1.3)	ND(1.5)
Silver	0.06 J	ND(0.17)
Vanadium	10 J	4.3 J

RFI-84-01	0.5 – 2 (ft)	8 – 10 (ft)	16 – 17.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.04)	ND(0.039)	ND(0.038)
Benzene	ND(0.04)	ND(0.039)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.039)	ND(0.038)
Trichloroethene	0.49	ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.04)	ND(0.039)	ND(0.038)
SVOC			
Benzo(a)anthracene	1.237 J	ND(0.19)	ND(0.19)
Benzo(a)pyrene	1.081 J	ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	1.307 J	ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19 J)	ND(0.19 J)
Di-n-butylphthalate	0.052 J	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.493 J	ND(0.19)	ND(0.19)
PCB			
Total PCBs	ND(0.04)	ND(0.038)	ND(0.038)
Inorganic			
Arsenic	12 (RDC)	4.9	8 (RDC)
Beryllium	3.7	0.43	1.5
Chromium Total	15	16	19
Cyanide (total)	0.65	0.017 J	ND(0.4)
Lead	600 (RDC)	7.9	200
Manganese	370	350	420
Nickel	48	20	28
Selenium	1.2 J	ND(1.3)	ND(1.4)
Silver	0.31	0.087 J	0.14 J
Vanadium	23 J	20 J	20 J

RFI-09-48	0.5 – 2.5 (ft)	8.5 – 10.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.046)
Benzene	ND(0.039)	ND(0.046)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.046)
Trichloroethene	ND(0.039)	ND(0.046)
Vinyl chloride	ND(0.078)	ND(0.093)
SVOC		
Benzo(a)anthracene	ND(0.95)	ND(0.2)
Benzo(a)pyrene	ND(0.95 J)	ND(0.2)
Benzo(b)fluoranthene	ND(0.95 J)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.95)	ND(0.2)
Di-n-butylphthalate	ND(0.95)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.95)	ND(0.2)
PCB		
Total PCBs	ND(0.039)	ND(0.042)
Inorganic		
Arsenic	10 J (RDC)	9 J (RDC)
Beryllium	0.59 J	2.4 J
Chromium Total	150	11
Cyanide (total)	0.24	ND(0.2)
Lead	61 J	19 J
Manganese	1800 (IPSIC)	340
Nickel	87 J	32 J
Selenium	0.35 J	0.82 J
Silver	0.15 J	0.12 J
Vanadium	15 J	27 J

RFI-84-06	0.9 – 2 (ft)	4 – 6 (ft)
VOC		
1,1-Dichloroethene	ND(0.038)	ND(0.039)
Benzene	0.011 J	ND(0.039)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.039)
SVOC		
Benzo(a)anthracene	0.487	ND(0.19)
Benzo(a)pyrene	0.552 J	ND(0.19)
Benzo(b)fluoranthene	0.537 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19)
Di-n-butylphthalate	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.25 J	ND(0.19)
PCB		
Total PCBs	ND(0.038)	ND(0.039)
Inorganic		
Arsenic	6.4 J	6.3 J
Beryllium	2.9 J	0.48 J
Chromium Total	11	16
Cyanide (total)	0.062 J	0.0054 J
Lead	430 J (RDC)	7 J
Manganese	380 J	240 J
Nickel	32	17
Selenium	ND(1.6)	ND(1.7)
Silver	0.15 J	0.056 J
Vanadium	19	23

RFI-84-07	2 – 4 (ft)	8 – 10 (ft)	14 – 16 (ft)
VOC			
1,1-Dichloroethene	ND(0.06)	ND(0.07)	ND(0.06)
Benzene	ND(0.06)	ND(0.07)	ND(0.06)
cis-1,2-Dichloroethene	ND(0.06)	ND(0.07)	ND(0.06)
Trichloroethene	ND(0.06)	ND(0.07)	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)anthracene	ND(0.33)	ND(0.33)	ND(0.33)
Benzo(a)pyrene	ND(0.33)	ND(0.33)	ND(0.33)
Benzo(b)fluoranthene	ND(0.33)	ND(0.33)	ND(0.33)
bis(2-Ethylhexyl)phthalate	ND(0.33)	ND(0.33)	ND(0.33)
Di-n-butylphthalate	ND(0.33)	ND(0.33)	ND(0.33)
Indeno(1,2,3-cd)pyrene	ND(0.33)	ND(0.33)	ND(0.33)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	1.82	1.8	2.78
Beryllium	0.19 J	0.18 J	0.51
Chromium Total	3.7	3.6	13.1
Cyanide (total)	ND(0.1)	ND(0.1)	ND(0.1)
Lead	13.1	4.8	11
Manganese	330	204	442
Nickel	7.8	6.1	24.7
Selenium	ND(0.87)	ND(0.64)	ND(0.92)
Silver	ND(0.1)	ND(0.1)	ND(0.1)
Vanadium	6.2	6.5	16.2

BD 94 EP-03	0.5 – 2 (ft)	8 – 10 (ft)	16 – 18 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.043) /ND(0.042)
Benzene	ND(0.039)	ND(0.038)	ND(0.043) /ND(0.042)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)	ND(0.043) /ND(0.042)
Trichloroethene	ND(0.039)	ND(0.038)	ND(0.043) /ND(0.042)
Vinyl chloride	ND(0.039)	ND(0.038)	ND(0.043) /ND(0.042)
SVOC			
Benzo(a)anthracene	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
Benzo(a)pyrene	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
Benzo(b)fluoranthene	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
Di-n-butylphthalate	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.19)	ND(0.19)	ND(0.21) /ND(0.2)
PCB			
Total PCBs	ND(0.039)	ND(0.039)	ND(0.043) /ND(0.042)
Inorganic			
Arsenic	8.4 J (RDC)	5 J	10 J (RDC) /9.9 J (RDC)
Beryllium	0.52	0.4	0.81 /0.81
Chromium Total	15	14	28 /28
Cyanide (total)	0.14 J	0.059 J	0.039 J /0.079 J
Lead	12 J	7.4 J	14 J /13 J
Manganese	300 J	310 J	400 J /420 J
Nickel	16	17	35 /34
Selenium	ND(2 J)	ND(1.6 J)	ND(1.6 J) /ND(1.9 J)
Silver	0.17 J	0.082 J	0.16 J /0.15 J
Vanadium	24 J	23 J	45 J /41 J

RFI-94-03	0.8 – 2 (ft)	2 – 4 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.04)
Benzene	ND(0.04)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.04)
Trichloroethene	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.04)	ND(0.04)
SVOC		
Benzo(a)anthracene	0.0927 J	0.252 J
Benzo(a)pyrene	0.0684 J	0.183 J
Benzo(b)fluoranthene	0.0954 J	0.261 J
bis(2-Ethylhexyl)phthalate	0.0861 J	ND(0.2)
Di-n-butylphthalate	ND(0.2)	0.069 J
Indeno(1,2,3-cd)pyrene	0.0348 J	ND(0.2)
PCB		
Total PCBs	ND(0.041)	ND(0.041)
Inorganic		
Arsenic	3.3	2
Beryllium	0.25	0.35
Chromium Total	44	38
Cyanide (total)	0.022 J	ND(0.2)
Lead	140	150
Manganese	390	720
Nickel	26	18
Selenium	ND(1.8)	ND(1.9)
Silver	0.18 J	0.11 J
Vanadium	11 J	9 J

RFI-94-05	0.5 – 2 (ft)	8 – 10 (ft)	18 – 20 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.039)	ND(0.039) /ND(0.038)
Benzene	ND(0.038)	ND(0.039)	ND(0.039) /ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)	ND(0.039) /ND(0.038)
Trichloroethene	0.13	ND(0.039)	ND(0.039) /ND(0.038)
Vinyl chloride	ND(0.038)	ND(0.039)	ND(0.039) /ND(0.038)
SVOC			
Benzo(a)anthracene	0.12 J	ND(0.19)	ND(0.19) /ND(0.18)
Benzo(a)pyrene	0.0887 J	ND(0.19)	ND(0.19) /ND(0.18)
Benzo(b)fluoranthene	0.112 J	ND(0.19)	ND(0.19) /ND(0.18)
bis(2-Ethylhexyl)phthalate	0.128 J	ND(0.19)	ND(0.19) /ND(0.18)
Di-n-butylphthalate	ND(0.18)	ND(0.19)	ND(0.19) /ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.18 J)	ND(0.19)	ND(0.19) /ND(0.18)
PCB			
Total PCBs	ND(0.038)	ND(0.039)	ND(0.039) /ND(0.037)
Inorganic			
Arsenic	7	5.5	8.1 (RDC) /5.6
Beryllium	0.45	0.53	0.51 J /0.2 J
Chromium Total	15	19	28 J /11 J
Cyanide (total)	ND(0.2)	0.034 J	ND(0.2) /0.061 J
Lead	160	9.6	9.6 J /5.3 J
Manganese	310 J	380 J	410 J /270 J
Nickel	17 J	22 J	22 J /12 J
Selenium	ND(1.5)	ND(1.9)	ND(1.8) /ND(1.6)
Silver	0.13 J	0.33	0.14 J /0.067 J
Vanadium	20 J	34 J	34 J /17 J

RFI-40-08	1 – 3 (ft)	9 – 11 (ft)	13 – 15 (ft)
VOC			
1,1-Dichloroethene	ND(0.04)	ND(0.045)	ND(0.042)
Benzene	ND(0.04)	ND(0.045)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.045)	ND(0.042)
Trichloroethene	0.041	ND(0.045)	ND(0.042)
Vinyl chloride	ND(0.04)	ND(0.045)	ND(0.042)
SVOC			
Benzo(a)anthracene	0.055 J	ND(0.22)	0.059 J
Benzo(a)pyrene	0.0477 J	ND(0.22)	0.0377 J
Benzo(b)fluoranthene	ND(0.2)	ND(0.22)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.22)	ND(0.2)
Di-n-butylphthalate	ND(0.2)	ND(0.22)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.22)	ND(0.2)
PCB			
Total PCBs	ND(0.041)	ND(0.045)	ND(0.042)
Inorganic			
Arsenic	13 J (RDC)	5.5 J	5.4 J
Beryllium	4.1	5.7 J	4.1 J
Chromium Total	18	79 J	14 J
Cyanide (total)	0.057 J	ND(0.3)	ND(0.2)
Lead	100 J	16 J	12 J
Manganese	760 J	500 J	450 J
Nickel	24 J	28 J	14 J
Selenium	ND(0.54)	0.32 J	0.1 J
Silver	0.29	0.47 J	0.23 J
Vanadium	35	150	22

RFI-40-07	0.7 – 2.7 (ft)	8.7 – 10.7 (ft)
VOC		
1,1-Dichloroethene	ND(0.037) /ND(0.038)	ND(0.04)
Benzene	ND(0.037) /ND(0.038)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037) /ND(0.038)	ND(0.04)
Trichloroethene	ND(0.037) /ND(0.038)	ND(0.04)
Vinyl chloride	ND(0.037) /ND(0.038)	ND(0.04)
SVOC		
Benzo(a)anthracene	ND(0.18) /ND(0.18)	ND(0.19)
Benzo(a)pyrene	0.0351 J /ND(0.18)	ND(0.19)
Benzo(b)fluoranthene	0.0411 J /ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18) /ND(0.18)	ND(0.19)
Di-n-butylphthalate	ND(0.18) /ND(0.18)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.18 J) /ND(0.18)	ND(0.19)
PCB		
Total PCBs	ND(0.038) /ND(0.038)	ND(0.04)
Inorganic		
Arsenic	2.6 /2.4	4.5
Beryllium	0.16 /0.12	0.48
Chromium Total	7.6 /4.8	12
Cyanide (total)	R /R	R
Lead	18 /9.4	5.5
Manganese	220 J /120 J	200 J
Nickel	5.5 /5.3	12
Selenium	0.1 /ND(0.06)	ND(0.066)
Silver	0.025 J /0.013 J	0.049 J
Vanadium	7.6 /7.4	17

RFI-40-06	1 – 3 (ft)	9 – 11 (ft)	11 – 13 (ft)	15 – 17 (ft)
VOC				
1,1-Dichloroethene	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.041)
Benzene	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.041)
Trichloroethene	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.041)
Vinyl chloride	ND(0.038)	ND(0.041)	ND(0.04)	ND(0.041)
SVOC				
Benzo(a)anthracene	0.126 J	0.087 J	ND(0.2)	0.0604 J
Benzo(a)pyrene	0.139 J	0.078 J	ND(0.2)	0.0369 J
Benzo(b)fluoranthene	0.139 J	ND(0.2 J)	ND(0.2)	ND(0.2 J)
bis(2-Ethylhexyl)phthalate	0.0978 J	ND(0.2)	ND(0.2)	ND(0.2)
Di-n-butylphthalate	ND(0.19)	ND(0.2)	ND(0.2)	ND(0.2)
Indeno(1,2,3-cd)pyrene	0.0748 J	ND(0.2 J)	ND(0.2)	ND(0.2 J)
PCB				
Total PCBs	ND(0.039)	ND(0.041)	ND(0.04)	ND(0.04)
Inorganic				
Arsenic	4.4	4.7	4.4	3.7
Beryllium	0.58	0.89	0.56	0.7
Chromium Total	13	19 J	12	10
Cyanide (total)	ND(0.4)	ND(0.5)	ND(0.4)	ND(0.5)
Lead	220	10	9.8	8.7
Manganese	210 J	400 J	290 J	270 J
Nickel	12	20	17	14
Selenium	0.084	0.048 J	0.18 J	0.55
Silver	0.12 J	0.13 J	0.093 J	0.11 J
Vanadium	15	26	15	17

RFI-94-06	0.7 – 2 (ft)	8 – 10 (ft)
VOC		
1,1-Dichloroethene	ND(0.039)	ND(0.041) /ND(0.039)
Benzene	ND(0.039)	ND(0.041) /ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.041) /ND(0.039)
Trichloroethene	ND(0.039)	ND(0.041) /ND(0.039)
Vinyl chloride	ND(0.039)	ND(0.041) /ND(0.039)
SVOC		
Benzo(a)anthracene	0.0899 J	ND(0.2) /ND(0.19)
Benzo(a)pyrene	0.0839 J	ND(0.2) /ND(0.19)
Benzo(b)fluoranthene	0.12 J	ND(0.2) /ND(0.19)
bis(2-Ethylhexyl)phthalate	0.0582 J	ND(0.2) /ND(0.19)
Di-n-butylphthalate	0.069 J	ND(0.2) /ND(0.19)
Indeno(1,2,3-cd)pyrene	0.0511 J	ND(0.2) /ND(0.19)
PCB		
Total PCBs	ND(0.039)	ND(0.041) /ND(0.039)
Inorganic		
Arsenic	10 (RDC)	12 (RDC) /8.3 (RDC)
Beryllium	0.41	0.24 /0.32
Chromium Total	15	10 /15
Cyanide (total)	0.042 J	ND(0.2) /0.051 J
Lead	75	7.7 /7.5
Manganese	380 J	280 J /420 J
Nickel	16 J	12 J /15 J
Selenium	0.68 J	ND(1.8) /ND(1.8)
Silver	0.15 J	0.085 J /0.17 J
Vanadium	22 J	16 J /23 J

RFI-40-15	2 – 4 (ft)	8 – 10 (ft)	14 – 16 (ft)
VOC			
1,1-Dichloroethene	ND(0.04)	ND(0.043)	ND(0.039)
Benzene	ND(0.04)	ND(0.043)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.043)	ND(0.039)
Trichloroethene	ND(0.04)	ND(0.043)	ND(0.039)
Vinyl chloride	ND(0.08)	ND(0.087)	ND(0.078)
SVOC			
Benzo(a)anthracene	ND(0.2)	ND(0.21)	ND(0.2)
Benzo(a)pyrene	0.0733 J	ND(0.21)	ND(0.2)
Benzo(b)fluoranthene	ND(0.2)	ND(0.21)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.21)	ND(0.2)
Di-n-butylphthalate	ND(0.2)	ND(0.21)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.21)	ND(0.2)
PCB			
Total PCBs	ND(0.041)	ND(0.044)	ND(0.041)
Inorganic			
Arsenic	4 J	4.9 J	4.8 J
Beryllium	0.3 J	0.61 J	0.2 J
Chromium Total	13	26	9.8
Cyanide (total)	ND(0.2)	ND(0.3)	1
Lead	11 J	11 J	5.6 J
Manganese	270	220	260
Nickel	9.6 J	27 J	13 J
Selenium	0.23 J	ND(0.07 J)	0.25 J
Silver	0.049 J	0.085 J	0.055 J
Vanadium	22 J	39 J	16 J

RFI-40-14	0.5 – 2.5 (ft)	4.5 – 6.5 (ft)
VOC		
1,1-Dichloroethene	ND(0.041)	ND(0.04)
Benzene	ND(0.041)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.04)
Trichloroethene	ND(0.041)	ND(0.04)
Vinyl chloride	ND(0.081)	ND(0.079)
SVOC		
Benzo(a)anthracene	ND(2)	ND(0.19)
Benzo(a)pyrene	ND(2)	ND(0.19)
Benzo(b)fluoranthene	ND(2)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(2)	ND(0.19)
Di-n-butylphthalate	ND(2)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(2 J)	ND(0.19 J)
PCB		
Total PCBs	ND(0.041)	ND(0.04)
Inorganic		
Arsenic	3.8	4.6
Beryllium	0.25	0.3
Chromium Total	8	12
Cyanide (total)	ND(0.2)	ND(1)
Lead	24	6
Manganese	220 J	190 J
Nickel	7.5	13
Selenium	ND(0.2)	ND(0.11)
Silver	0.028 J	0.046 J
Vanadium	14	20

RFI-40-13	0.5 – 2.5 (ft)	8.5 – 10.5 (ft)	12.5 – 14.5 (ft)
VOC			
1,1-Dichloroethene	ND(0.038)	ND(0.04) /ND(0.041)	ND(0.038)
Benzene	ND(0.038)	ND(0.04) /ND(0.041)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.04) /ND(0.041)	ND(0.038)
Trichloroethene	ND(0.038)	ND(0.04) /ND(0.041)	ND(0.038)
Vinyl chloride	ND(0.077)	ND(0.08) /ND(0.081)	ND(0.075)
SVOC			
Benzo(a)anthracene	ND(1.9)	ND(0.2) /ND(0.2)	ND(0.19)
Benzo(a)pyrene	ND(1.9)	ND(0.2) /ND(0.2)	ND(0.19)
Benzo(b)fluoranthene	ND(1.9)	ND(0.2) /ND(0.2)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(1.9)	ND(0.2) /ND(0.2)	ND(0.19)
Di-n-butylphthalate	ND(1.9)	ND(0.2) /ND(0.2)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(1.9 J)	ND(0.2 J) /ND(0.2 J)	ND(0.19 J)
PCB			
Total PCBs	ND(0.04)	ND(0.042) /ND(0.041)	ND(0.039)
Inorganic			
Arsenic	6	5.9 /6.4	3.9
Beryllium	0.31	0.34 /0.32	0.17
Chromium Total	11	13 /14	8.1
Cyanide (total)	0.24	ND(1) /ND(1)	ND(1)
Lead	54	7.3 /7.3	5
Manganese	180 J	250 J /220 J	230 J
Nickel	12	16 /16	12
Selenium	ND(0.42)	ND(0.23) /ND(0.18)	ND(0.19)
Silver	0.06 J	0.063 J /0.064 J	0.044 J
Vanadium	13	22 /23	13

RFI-40-17	0 – 2 (ft)
SVOC	
Benzo(a)anthracene	NS
Benzo(a)pyrene	ND(0.33)
Benzo(b)fluoranthene	NS
bis(2-Ethylhexyl)phthalate	NS
Di-n-butylphthalate	NS
Indeno(1,2,3-cd)pyrene	NS

RFI-40-16	0 – 2 (ft)
SVOC	
Benzo(a)anthracene	NS
Benzo(a)pyrene	3.5 (RDC)
Benzo(b)fluoranthene	NS
bis(2-Ethylhexyl)phthalate	NS
Di-n-butylphthalate	NS
Indeno(1,2,3-cd)pyrene	NS

RFI-40-18	0 – 2 (ft)
SVOC	
Benzo(a)anthracene	NS
Benzo(a)pyrene	ND(0.33)
Benzo(b)fluoranthene	NS
bis(2-Ethylhexyl)phthalate	NS
Di-n-butylphthalate	NS
Indeno(1,2,3-cd)pyrene	NS

40-7R	0 – 2 (ft)	2 – 4 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC				
1,1-Dichloroethene	ND(0.041)	ND(0.041)	ND(0.045)	ND(0.038)
Benzene	0.076	ND(0.041)	ND(0.045)	0.042 J
cis-1,2-Dichloroethene	0.09	ND(0.041)	ND(0.045)	ND(0.038)
Trichloroethene	0.32	ND(0.041)	ND(0.045)	ND(0.038)
Vinyl chloride	ND(0.041)	ND(0.041)	ND(0.045)	ND(0.038)
SVOC				
Benzo(a)anthracene	0.839	ND(0.2)	ND(0.21)	0.0363 J
Benzo(a)pyrene	0.759 J	ND(0.2)	ND(0.21)	0.0705 J
Benzo(b)fluoranthene	0.867 J	ND(0.2)	ND(0.21)	ND(0.18)
bis(2-Ethylhexyl)phthalate	0.0832 J	ND(0.2)	ND(0.21)	ND(0.18)
Di-n-butylphthalate	0.0606 J	ND(0.2)	ND(0.21)	ND(0.18)
Indeno(1,2,3-cd)pyrene	0.366 J	ND(0.2)	ND(0.21)	ND(0.18)
PCB				
Total PCBs	0.22 J	ND(0.041)	ND(0.044)	ND(0.038)
Inorganic				
Arsenic	4.7	2.7	9.3 (RDC)	2.4
Beryllium	0.86	0.18	0.75	0.11
Chromium Total	42 J	7.3 J	23 J	4.5 J
Cyanide (total)	0.5	ND(0.2)	0.13 J	ND(0.2)
Lead	140 J	6.4 J	13 J	3.2 J
Manganese	270	92	240	140
Nickel	29	7.2	30	6.6
Selenium	0.51	0.4 J	ND(0.11)	0.3
Silver	0.17 J	0.087 J	0.15 J	0.1 J
Vanadium	13	13	30	6.4

RFI-40-12	0 – 2 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC			
1,1-Dichloroethene	ND(0.041)	ND(0.037)	ND(0.039)
Benzene	ND(0.041)	ND(0.037)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.037)	ND(0.039)
Trichloroethene	0.12	ND(0.037)	ND(0.039)
Vinyl chloride	ND(0.082)	ND(0.074)	ND(0.078)
SVOC			
Benzo(a)anthracene	37.1 (RDC)	ND(0.18)	ND(0.2)
Benzo(a)pyrene	35.8 J (IDC,RDC)	ND(0.18)	ND(0.2)
Benzo(b)fluoranthene	36.1 J (RDC)	ND(0.18)	ND(0.2)
bis(2-Ethylhexyl)phthalate	2.2	ND(0.18)	ND(0.2)
Di-n-butylphthalate	ND(2)	ND(0.18)	ND(0.2)
Indeno(1,2,3-cd)pyrene	20.8 J (RDC)	ND(0.18 J)	ND(0.2 J)
PCB			
Total PCBs	1.12	ND(0.037)	ND(0.04)
Inorganic			
Arsenic	6.4	5.1	4.4
Beryllium	0.34	0.34	0.27
Chromium Total	30	15	11
Cyanide (total)	2.6	ND(1)	ND(1)
Lead	120	7.2	6
Manganese	210 J	220 J	250 J
Nickel	27	15	15
Selenium	ND(0.54)	ND(0.25)	ND(0.35)
Silver	0.14 J	0.11 J	0.057 J
Vanadium	19	22	17

RFI-40-05	0.8 – 2.8 (ft)	8.8 – 10.8 (ft)	10.8 – 12.8 (ft)
VOC			
1,1-Dichloroethene	ND(0.04)	ND(0.041)	ND(0.039)
Benzene	ND(0.04)	ND(0.041)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.041)	ND(0.039)
Trichloroethene	ND(0.04)	ND(0.041)	ND(0.039)
Vinyl chloride	ND(0.04)	ND(0.041)	ND(0.039)
SVOC			
Benzo(a)anthracene	ND(0.2)	ND(0.2)	ND(0.19)
Benzo(a)pyrene	ND(0.2)	ND(0.2)	ND(0.19)
Benzo(b)fluoranthene	ND(0.2)	ND(0.2)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.2)	ND(0.19)
Di-n-butylphthalate	ND(0.2)	ND(0.2)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.2)	ND(0.19)
PCB			
Total PCBs	ND(0.04)	ND(0.041)	ND(0.039)
Inorganic			
Arsenic	3.8	3.9	4.4
Beryllium	0.35	0.65	0.76
Chromium Total	7.8	12	15
Cyanide (total)	ND(0.2)	ND(0.5)	ND(0.4)
Lead	8.3	6.7	6.7
Manganese	170 J	230 J	300 J
Nickel	8.8	14	17
Selenium	0.089	0.43 J	0.2
Silver	0.088 J	0.12 J	0.11 J
Vanadium	13	19	27

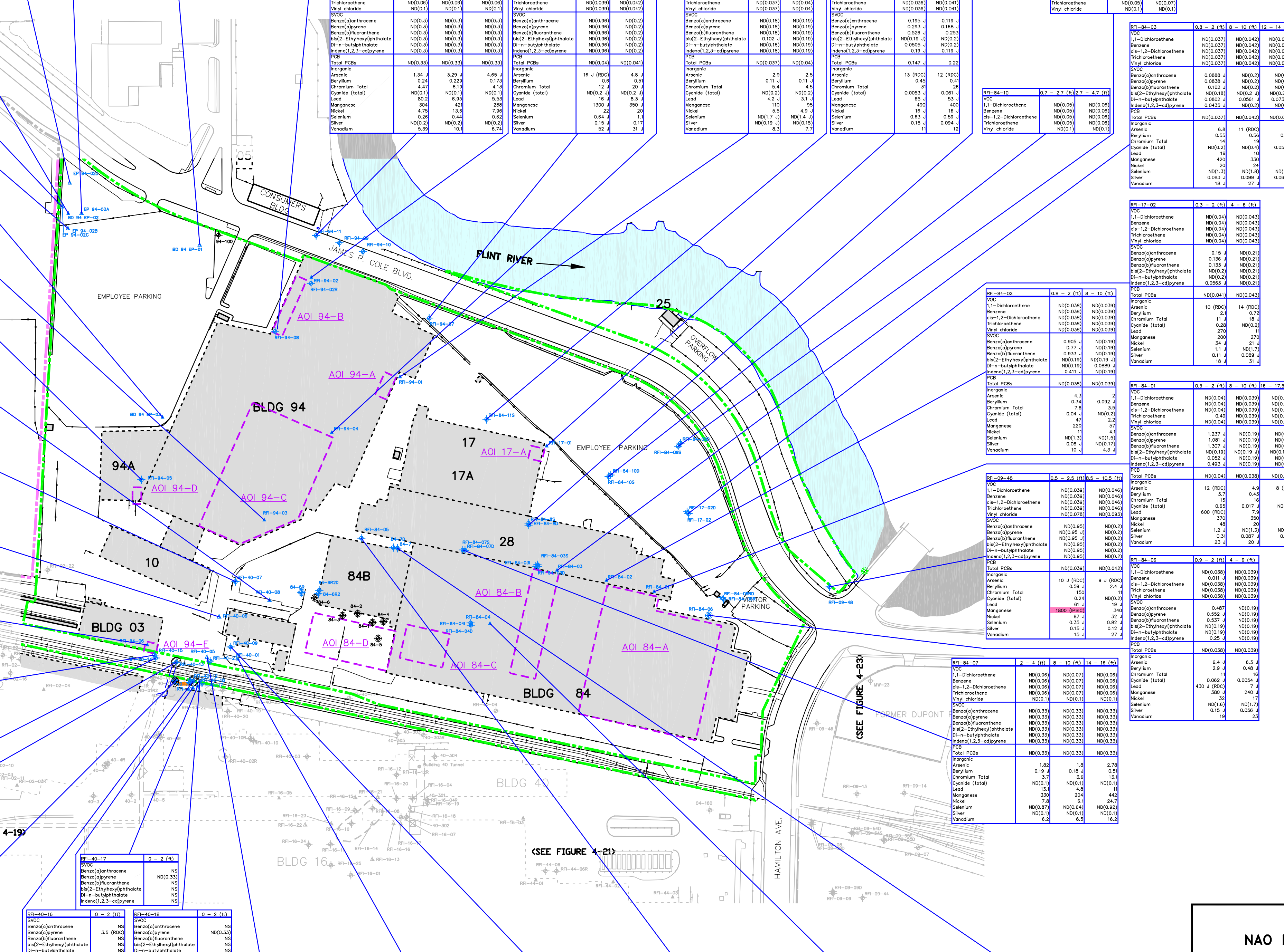
RFI-40-01	0.3 – 2.3 (ft)
VOC	
1,1-Dichloroethene	ND(0.039)
Benzene	ND(0.039)
cis-1,2-Dichloroethene	ND(0.039)
Trichloroethene	ND(0.039)
Vinyl chloride	ND(0.039)
SVOC	
Benzo(a)anthracene	0.102 J
Benzo(a)pyrene	0.211 J
Benzo(b)fluoranthene	0.456 J
bis(2-Ethylhexyl)phthalate	ND(0.19)
Di-n-butylphthalate	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.112 J
PCB	
Total PCBs	ND(0.039)
Inorganic	
Arsenic	3.6 J
Beryllium	0.3 J
Chromium Total	8.8 J
Cyanide (total)	0.041 J
Lead	23 J
Manganese	170
Nickel	8 J
Selenium	0.54 J
Silver	0.081 J
Vanadium	16 J

RFI-40-09	0.7 – 2.7 (ft)	8.7 – 10.7 (ft)
VOC		
1,1-Dichloroethene	ND(0.04)	ND(0.044)
Benzene	ND(0.04)	ND(0.044)
cis-1,2-Dichloroethene	ND(0.04)	ND(0.044)
Trichloroethene	ND(0.04)	ND(0.044 J)
Vinyl chloride	ND(0.04)	ND(0.044)
SVOC		
Benzo(a)anthracene	0.242	ND(0.21)
Benzo(a)pyrene	0.278	ND(0.21)
Benzo(b)fluoranthene	0.443	ND(0.21)
bis(2-Ethylhexyl)phthalate	ND(0.19)	ND(0.21)
Di-n-butylphthalate	ND(0.19)	ND(0.21)
Indeno(1,2,3-cd)pyrene	0.167 J	ND(0.21)
PCB		
Total PCBs	ND(0.04)	ND(0.044)
Inorganic		
Arsenic	7 J	4.3 J
Beryllium	2.7 J	4.6 J
Chromium Total	25 J	19 J
Cyanide (total)	0.34 J	ND(0.3)
Lead	490 J (RDC)	8.5 J
Manganese	400 J	420 J
Nickel	20 J	17 J
Selenium	0.78 J	0.27 J
Silver	0.22 J	0.26 J
Vanadium	21	31

RFI-84-05	0.8 – 2.8 (ft)	6.8 – 8.8 (ft)
VOC		
1,1-Dichloroethene	ND(0.041)	ND(0.044)
Benzene	ND(0.041)	ND(0.044)
cis-1,2-Dichloroethene	0.26	ND(0.044)
Trichloroethene	4.1	0.39
Vinyl chloride	ND(0.041)	ND(0.044)
SVOC		
Benzo(a)anthracene	ND(0.2)	ND(0.21)
Benzo(a)pyrene	ND(0.2)	ND(0.21)
Benzo(b)fluoranthene	ND(0.2)	ND(0.21)
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.21)
Di-n-butylphthalate	ND(0.2)	ND(0.21)
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.21)
PCB		
Total PCBs	ND(0.041)	ND(0.043)
Inorganic		
Arsenic	8 J (RDC)	11 J (RDC)
Beryllium	0.78 J	0.72 J
Chromium Total	50 J	25 J
Cyanide (total)	0.056 J	0.041 J
Lead	150 J	30 J
Manganese	780	590
Nickel	37 J	28 J
Selenium	ND(1.9)	ND(1.8)
Silver	0.22 J	0.14 J
Vanadium	32 J	38 J

RFI-84-04	0.8 – 2 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC			
1,1-Dichloroethene	ND(0.039)	ND(0.039)	ND(0.041)
Benzene	ND(0.039)	ND(0.039)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.039)	ND(0.041)
Trichloroethene	ND(0.039)	ND(0.039)	ND(0.041)
Vinyl chloride	ND(0.039)	ND(0.039)	ND(0.041)
SVOC			
Benzo(a)anthracene	0.113 J	ND(0.19)	ND(0.2)
Benzo(a)pyrene	0.124 J	ND(0.19)	ND(0.2)
Benzo(b)fluoranthene	0.108 J	ND(0.19)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.19 J)	ND(0.19 J)	ND(0.2 J)
Di-n-butylphthalate	0.0502 J	ND(0.19)	0.072 J
Indeno(1,2,3-cd)pyrene	0.0829 J	ND(0.19)	ND(0.2)
PCB			
Total PCBs	ND(0.04)	ND(0.039)	ND(0.04)
Inorganic			
Arsenic	19 (RDC)	8.6 (RDC)	3.4
Beryllium	0.88	0.58	0.43
Chromium Total	11	19	15
Cyanide (total)	ND(0.2)	0.071 J	0.063 J
Lead	140	9.9	22
Manganese	260	330	310
Nickel	16	20	20
Selenium	1 J	ND(1.9)	ND(1.7)
Silver	0.092 J	0.18 J	0.075 J
Vanadium	27 J	28 J	19 J

84-07	0 – 2 (ft)	8 – 10 (ft)	15 – 17 (ft)
VOC			
1,1-Dichloroethene	ND(0.06)	ND(0.06)	ND(0.06)
Benzene	ND(0.06)	ND(0.06)	ND(0.06)
cis-1,2-Dichloroethene	ND(0.06)	0.47	ND(0.06)
Trichloroethene	0.3	1	ND(0.06)
Vinyl chloride	ND(0.1)	ND(0.1)	ND(0.1)
SVOC			
Benzo(a)anthracene	0.2 J	ND(0.3)	ND(0.3)
Benzo(a)pyrene	0.2 J	ND(0.3)	ND(0.3)
Benzo(b)fluoranthene	0.2 J	ND(0.3)	ND(0.3)
bis(2-Ethylhexyl)phthalate	0.08 J	ND(0.3)	ND(0.3)
Di-n-butylphthalate	ND(0.3)	ND(0.3)	ND(0.3)
Indeno(1,2,3-cd)pyrene	0.09 J	ND(0.3)	ND(0.3)
PCB			
Total PCBs	ND(0.33)	ND(0.33)	ND(0.33)
Inorganic			
Arsenic	2.29	1.71	6.55
Beryllium	NS	NS	NS
Chromium Total	39.3	6.17	5.28
Cyanide (total)	NS	NS	NS
Lead	134	7.77	12.5
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Selenium	0.2	0.39	0.71
Silver	ND(0.2)	ND(0.2)	ND(0.2)
Vanadium	NS	NS	NS



SITE LOCATION

LEGEND

GM PROPERTY BOUNDARY

PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)

DEMOLISHED BUILDING

BUILDING CURRENTLY IDLED

APPROXIMATE AOI BOUNDARY

AOI 81-1 AOI ID

BASEMENT/TUNNEL AREA

ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL

04-140 HISTORICAL MONITORING WELL LOCATION

RFI-83/84-03 RFI SOIL BORING LOCATION

RFI-09-02 RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION

RFI-09-01 RFI MONITORING WELL LOCATION

RFI-12-13 DECOMMISSIONED/DESTROYED MONITORING WELL

RFI-36-01 RFI PIEZOMETER

FORMER RIVER GAUGE LOCATION

CURRENT RIVER GAUGE LOCATION

LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005

LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED

LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL

EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ALL DEPTH IN FEET.
7. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
8. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
9. NS-NOT ANALYZED FOR THIS CONSTITUENT.
10. J-ESTIMATED CONCENTRATION.
11. R-RESULT REJECTED DURING DATA VALIDATION.
12. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTRACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

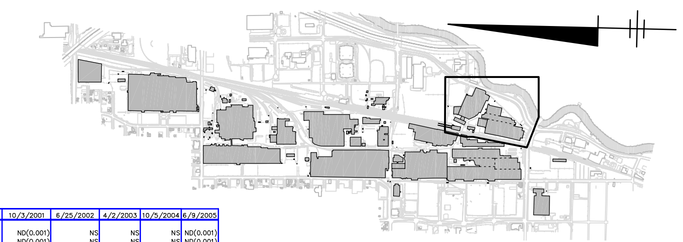
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C17.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FORMER BUILDINGS 03, 17, 28, 84, AND 94 AREA

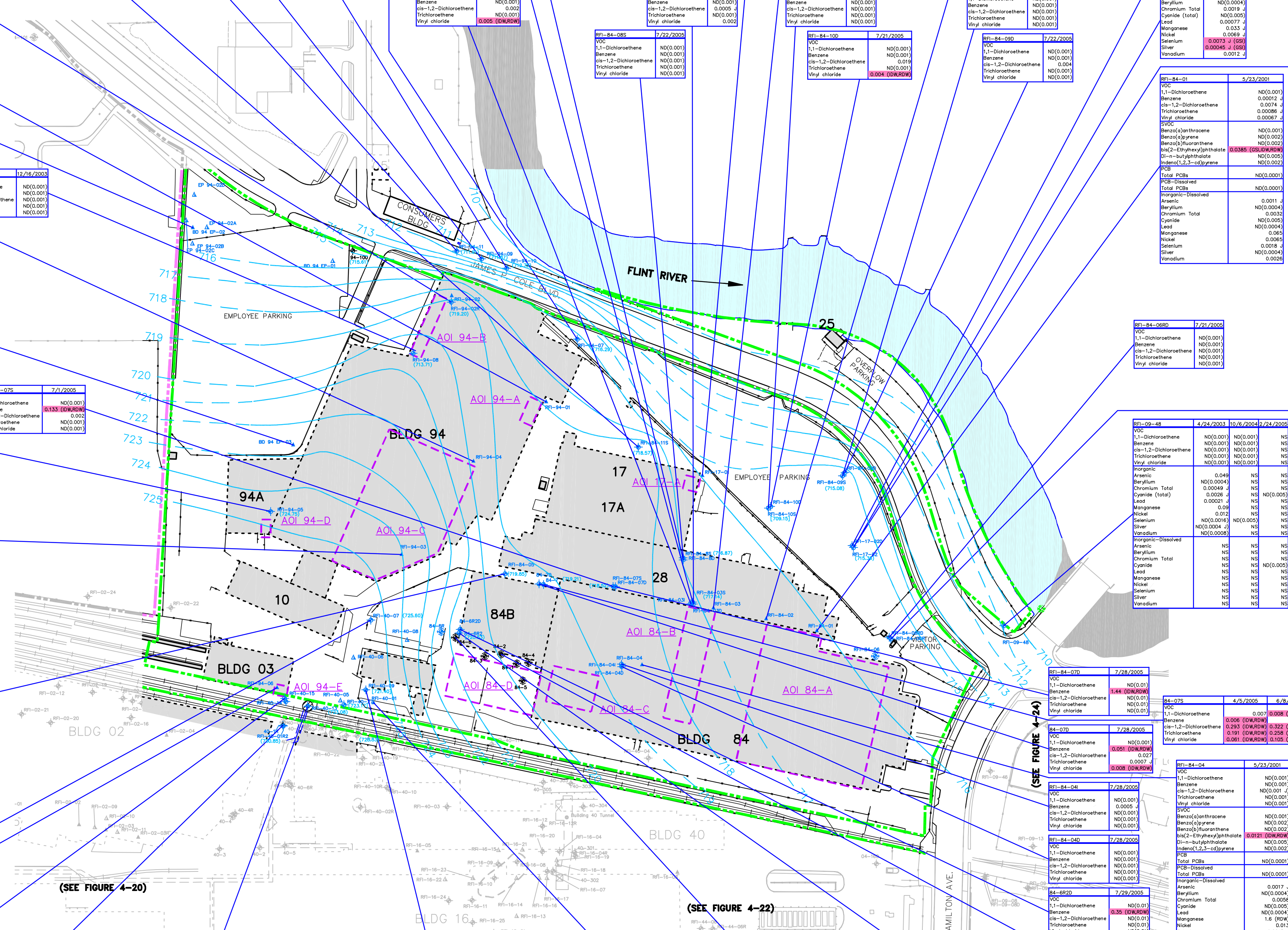
BBL® BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-17



LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERED)
- (739.13) — GROUNDWATER ELEVATION (IN FEET)
- [742.02] — ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- FORMER RIVER GAUGE LOCATION
- CURRENT RIVER GAUGE LOCATION
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDW – INDUSTRIAL DRINKING WATER
  - GSI – GROUNDWATER SURFACE WATER INTERFACE
  - GCC – GROUNDWATER CONTACT
  - GAI – GROUNDWATER ACUTE INHALATION



RFI-94-01	5/22/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0114 (IDW,RDW)
Di-n-butylphthalate	0.0128 (GSI)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0056 J
Beryllium	ND(0.0004)
Chromium Total	0.0025
Cyanide	0.0053 (GSI)
Lead	ND(0.0004)
Manganese	0.44
Nickel	0.0032
Selenium	ND(0.0014)
Silver	ND(0.0004)
Vanadium	0.0026

RFI-94-02R	4/3/2003	4/4/2003	9/18/2003	10/6/2004
VOC				
1,1-Dichloroethene	NS	0.0075 (IDW,RDW)	0.0053	0.002 J
Benzene	NS	ND(0.001)	ND(0.001)	0.0005 J
cis-1,2-Dichloroethene	NS	0.0052	0.0045	0.023
Trichloroethene	NS	0.51 D (GSI,IDW,RDW)	0.56 D (GSI,IDW,RDW)	0.95 (GSI,IDW,RDW)
Vinyl chloride	NS	ND(0.001)	ND(0.001)	ND(0.001)
SVOC				
Benzo(a)anthracene	NS	ND(0.001)	NS	NS
Benzo(a)pyrene	NS	ND(0.002)	NS	NS
Benzo(b)fluoranthene	NS	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	NS	ND(0.005)	NS	NS
Di-n-butylphthalate	NS	ND(0.005)	NS	NS
Indeno(1,2,3-cd)pyrene	NS	ND(0.002)	NS	NS
PCB				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Arsenic	NS	ND(0.001)	NS	NS
Beryllium	NS	ND(0.0008)	NS	NS
Chromium Total	NS	0.00034 J	NS	NS
Cyanide (total)	NS	0.0032 J	NS	NS
Lead	NS	0.00028 J	NS	NS
Manganese	NS	0.29 J	NS	NS
Nickel	NS	0.016	NS	NS
Selenium	NS	ND(0.0016)	NS	NS
Silver	NS	ND(0.0004 J)	NS	NS
Vanadium	NS	0.00035 J	NS	NS

BD 94 EP-02	5/31/2001
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001 J) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.005) /ND(0.005)
Benzo(a)pyrene	ND(0.005) /ND(0.005)
Benzo(b)fluoranthene	ND(0.005) /ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0624 J (IDW,RDW) /0.0483 (IDW,RDW)
Di-n-butylphthalate	0.00075 J /0.00078 J
Indeno(1,2,3-cd)pyrene	ND(0.005) /ND(0.005)
PCB	
Total PCBs	ND(0.0001) /ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001) /ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.019 /0.017
Beryllium	ND(0.0004) /ND(0.0004)
Chromium Total	0.0032 /0.0017
Cyanide	ND(0.005) /ND(0.005)
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.14 /0.14
Nickel	0.0035 /0.0035
Selenium	ND(0.0014) /ND(0.0014)
Silver	ND(0.0004 J) /ND(0.0004 J)
Vanadium	ND(0.0008) /ND(0.0008)

BD 94 EP-03	5/31/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0701 (IDW,RDW)
Di-n-butylphthalate	0.00056 J
Indeno(1,2,3-cd)pyrene	ND(0.005)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.029
Beryllium	ND(0.0004)
Chromium Total	0.0044
Cyanide	ND(0.005)
Lead	0.00083
Manganese	0.41
Nickel	0.012
Selenium	ND(0.0014)
Silver	0.0019
Vanadium	0.0048 (RDW)

RFI-94-03	5/21/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.184 D (IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0039 J
Beryllium	ND(0.0004)
Chromium Total	0.0025
Cyanide	0.013
Lead	ND(0.0004)
Manganese	0.25
Nickel	0.004
Selenium	ND(0.0014)
Silver	ND(0.0004)
Vanadium	0.0018

RFI-94-04	5/22/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.00045 J
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0762 (GSI,IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.00011)
Inorganic-Dissolved	
Arsenic	0.052 J (IDW,RDW)
Beryllium	ND(0.0004)
Chromium Total	0.0026
Cyanide	ND(0.005)
Lead	ND(0.0004)
Manganese	0.1
Nickel	0.0092
Selenium	0.002 J
Silver	ND(0.0004)
Vanadium	0.0039

RFI-94-08	12/16/2003
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-94-05	12/17/2002
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	0.00074 J
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.0011)
Benzo(a)pyrene	ND(0.0021)
Benzo(b)fluoranthene	ND(0.0021)
bis(2-Ethylhexyl)phthalate	ND(0.0053)
Di-n-butylphthalate	ND(0.0053)
Indeno(1,2,3-cd)pyrene	ND(0.0021)
PCB	
Total PCBs	ND(0.00011)
PCB-Dissolved	
Total PCBs	ND(0.00011)
Inorganic	
Arsenic	0.0012 J
Beryllium	ND(0.0004 J)
Chromium Total	0.0013
Cyanide (total)	ND(0.005)
Lead	0.00086 J
Manganese	0.12
Nickel	0.0056 J
Selenium	ND(0.0016)
Silver	ND(0.0004 J)
Vanadium	0.0011

RFI-84-07S	7/1/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.133 (IDW,RDW)
cis-1,2-Dichloroethene	0.002
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-84-11S	7/28/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	0.0008 J
Vinyl chloride	ND(0.001)

RFI-94-11	4/7/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-94-09	12/15/2003	2/25/2005
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)

RFI-94-10	12/15/2003	10/8/2004
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	0.0007 J
Trichloroethene	0.0025	0.003
Vinyl chloride	ND(0.001)	ND(0.001)

RFI-94-07	12/17/2002	3/24/2003
SVOC		
Benzo(a)anthracene	ND(0.0011)	ND(0.001)
Benzo(a)pyrene	ND(0.0022)	ND(0.002)
Benzo(b)fluoranthene	ND(0.0022)	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.0055)	ND(0.005)
Di-n-butylphthalate	ND(0.0055)	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.0022)	ND(0.002 J)

RFI-84-08D	7/6/2005
VOC	
1,1-Dichloroethene	0.0008 J /0.0009 J
Benzene	0.002 /0.002
cis-1,2-Dichloroethene	0.078 (IDW,RDW) /0.084 (IDW,RDW)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	0.114 (IDW,RDW) /0.124 (IDW,RDW)

RFI-84-03S	7/29/2005
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	0.001 /0.002
Trichloroethene	0.001 J /0.001 J
Vinyl chloride	ND(0.001) /ND(0.001)

RFI-84-03I	7/29/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.002
Trichloroethene	ND(0.001)
Vinyl chloride	0.005 (IDW,RDW)

RFI-17-01	5/22/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0136 (IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0024 J
Beryllium	ND(0.0004)
Chromium Total	0.0044
Cyanide	ND(0.005)
Lead	ND(0.0004)
Manganese	0.0056
Nickel	0.0061
Selenium	0.011 J (GSI)
Silver	ND(0.0004)
Vanadium	0.0041

RFI-84-03	5/22/2001
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	0.0022 J /0.0019 J
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	0.001 J /0.0005 J
SVOC	
Benzo(a)anthracene	ND(0.001) /ND(0.001)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
Benzo(b)fluoranthene	ND(0.002) /ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0799 (IDW,RDW) /0.0768 (IDW,RDW)
Di-n-butylphthalate	ND(0.005) /ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.002)
PCB	
Total PCBs	ND(0.0001) /ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001) /ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0011 J /ND(0.001)
Beryllium	ND(0.0004) /ND(0.0004)
Chromium Total	0.0036 /0.0048
Cyanide	0.004 J /0.0039 J
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.17 /0.18
Nickel	0.0039 /0.0044
Selenium	ND(0.0014) /ND(0.0014)
Silver	ND(0.0004) /ND(0.0004)
Vanadium	0.0019 /0.0041

RFI-84-02	5/24/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.577 D (GAI,GCC,GSI,IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Chromium Total	0.001
Cyanide	ND(0.005)
Lead	ND(0.0004)
Manganese	0.006
Nickel	0.003 J
Selenium	ND(0.005)
Silver	ND(0.0004)
Vanadium	ND(0.0008)

RFI-84-03D	7/29/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.0005 J
Trichloroethene	ND(0.001)
Vinyl chloride	0.002

RFI-84-08S	7/22/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-84-10S	7/22/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-84-10D	7/21/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.019
Trichloroethene	ND(0.001)
Vinyl chloride	0.004 (IDW,RDW)

RFI-84-09S	7/22/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-84-09D	7/22/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.004
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-17-02D	7/29/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	0.003
Trichloroethene	ND(0.001)
Vinyl chloride	0.003 (IDW,RDW)

RFI-17-02-ULF	10/3/2001
Inorganic	
Arsenic	0.0055 J
Beryllium	ND(0.0004)
Chromium Total	0.0019 J
Cyanide (total)	ND(0.005)
Lead	0.00077 J
Manganese	0.033 J
Nickel	0.0069 J
Selenium	0.0073 J (GSI)
Silver	0.00045 J (GSI)
Vanadium	0.0012 J

RFI-17-02	10/3/2001	6/25/2002	4/2/2003	10/5/2004	6/9/2005
VOC					
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	ND(0.001)
Benzene	ND(0.001)	NS	NS	NS	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	NS	NS	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	NS	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	NS	NS	ND(0.001)
SVOC					
Benzo(a)anthracene	ND(0.001)	NS	NS	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS	NS	NS
Di-n-butylphthalate	ND(0.005)	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS	NS	NS
PCB					
Total PCBs	ND(0.0001)	NS	NS	NS	NS
PCB-Dissolved					
Total PCBs	ND(0.0001)	NS	NS	NS	NS
Inorganic					
Arsenic	NS	0.027	0.0058	NS	NS
Beryllium	NS	ND(0.0004)	ND(0.0004)	NS	NS
Chromium Total	NS	0.0026	0.0012	NS	NS
Cyanide (total)	0.0011 J	ND(0.005)	ND(0.005)	NS	NS
Lead	NS	0.002	0.00077	NS	NS
Manganese	NS	0.085	0.016 J	NS	NS
Nickel	NS	0.0038	0.0079	NS	NS
Selenium	NS	0.0032	0.0019 J	ND(0.005)	NS
Silver	NS	ND(0.0004 J)	ND(0.0004)	ND(0.0005)	NS
Vanadium	NS	0.0038	0.00056 J	NS	NS
Inorganic-Dissolved					
Arsenic	0.0014 J	0.0017 J	NS	NS	NS
Beryllium	ND(0.0004 J)	ND(0.0004)	NS	NS	NS
Chromium Total	ND(0.0006 J)	0.00089	NS	NS	NS
Cyanide	0.0016 J	ND(0.005)	NS	NS	NS
Lead	ND(0.0004)	ND(0.0004)	NS	NS	NS
Manganese	0.071	0.039 J	NS	NS	NS
Nickel	0.0025	0.0021	NS	NS	NS
Selenium	0.003	0.0038	NS	NS	NS
Silver	ND(0.0004 J)	ND(0.0004 J)	NS	NS	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS	NS	NS

RFI-84-01	5/23/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.00012 J
cis-1,2-Dichloroethene	0.0074 J
Trichloroethene	0.00086 J
Vinyl chloride	0.00067 J
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0385 (GSI,IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0011 J
Beryllium	ND(0.0004)
Chromium Total	0.0032
Cyanide	ND(0.005)
Lead	ND(0.0004)
Manganese	0.065
Nickel	0.0065
Selenium	0.0018 J
Silver	ND(0.0004)
Vanadium	0.0026

RFI-84-06R	4/2/2003	4/3/2003	2/25/2005	7/22/2005
VOC				
1,1-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
Benzene	ND(0.001)	NS	NS	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	NS	NS	ND(0.001)
Trichloroethene	ND(0.001)	NS	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	NS	ND(0.001)
SVOC				
Benzo(a)anthracene	NS	ND(0.001) /ND(0.001)	NS	NS
Benzo(a)pyrene	NS	ND(0.002) /ND(0.002)	NS	NS
Benzo(b)fluoranthene	NS	ND(0.002) /ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	NS	ND(0.005) /ND(0.005)	NS	NS
Di-n-butylphthalate	NS	ND(0.005) /ND(0.005)	NS	NS
Indeno(1,2,3-cd)pyrene	NS	ND(0.002) /ND(0.002)	NS	NS
PCB				
Total PCBs	ND(0.00011)	NS	NS	NS
PCB-Dissolved				
Total PCBs	ND(0.00011)	NS	NS	NS
Inorganic				
Arsenic	NS	0.0035 J /NS	NS	NS
Beryllium	NS	ND(0.0004) /NS	NS	NS
Chromium Total	NS	0.0028 /NS	NS	NS
Cyanide (total)	NS	0.061 (GSI) /NS	0.062 (GSI)	NS
Lead	NS	0.00094 /NS	NS	NS
Manganese	NS	0.051 J /NS	NS	NS
Nickel	NS	0.0092 /NS	NS	NS
Selenium	NS	0.0029 J /NS	NS	NS
Silver	NS	ND(0.0004) /NS	NS	NS
Vanadium	NS	0.004 /NS	NS	NS
Inorganic-Dissolved				
Arsenic	0.003	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS
Chromium Total	0.0066	NS	NS	NS
Cyanide	0.071 (GSI)	NS	0.058 (GSI)	NS
Lead	0.00017 J	NS	NS	NS
Manganese	0.05	NS	NS	NS
Nickel	0.0078	NS	NS	NS
Selenium	0.004	NS	NS	NS
Silver	0.00024 J (GSI)	NS	NS	NS
Vanadium	0.0016	NS	NS	NS

RFI-84-06RD	7/21/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-09-48	4/24/2003	10/6/2004	2/24/2005
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	NS
Benzene	ND(0.001)	ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	NS
Trichloroethene	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	NS
Inorganic			
Arsenic	0.049	NS	NS
Beryllium	ND(0.0004)	NS	NS
Chromium Total	0.00049 J	NS	NS
Cyanide (total)	0.0026 J	NS	ND(0.005)
Lead	0.00021 J	NS	NS
Manganese	0.09	NS	NS
Nickel	0.012	NS	NS
Selenium	ND(0.0016)	ND(0.005)	NS
Silver	ND(0.0004 J)	NS	NS
Vanadium	ND(0.0008)	NS	NS
Inorganic-Dissolved			
Arsenic	NS	NS	NS
Beryllium	NS	NS	NS
Chromium Total	NS	NS	NS
Cyanide	NS	NS	ND(0.005)
Lead	NS	NS	NS
Manganese	NS	NS	NS
Nickel	NS	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS
Vanadium	NS	NS	NS

RFI-84-07D	7/28/2005
VOC	
1,1-Dichloroethene	ND(0.01)
Benzene	1.44 (IDW,RDW)
cis-1,2-Dichloroethene	ND(0.01)
Trichloroethene	ND(0.01)
Vinyl chloride	ND(0.01)

84-07D	7/28/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.051 (IDW,RDW)
cis-1,2-Dichloroethene	0.027
Trichloroethene	0.0007 J
Vinyl chloride	0.008 (IDW,RDW)

84-07S	4/5/2005	6/8/2005
VOC		
1,1-Dichloroethene	0.007	0.008 (IDW,RDW)
Benzene	0.006 (IDW,RDW)	0.003 J
cis-1,2-Dichloroethene	0.293 (IDW,RDW)	0.322 (IDW,RDW)
Trichloroethene	0.191 (IDW,RDW)	0.258 (IDW,RDW)
Vinyl chloride	0.061 (IDW,RDW)	0.105 (IDW,RDW)

RFI-84-04I	7/28/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.0005 J
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-84-04D	7/28/2005
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

84-6R2D	7/29/2005
VOC	
1,1-Dichloroethene	ND(0.01)
Benzene	0.35 (IDW,RDW)
cis-1,2-Dichloroethene	ND(0.01)
Trichloroethene	ND(0.01)
Vinyl chloride	ND(0.01)

RFI-84-04	5/23/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	0.0121 (IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0017 J
Beryllium	ND(0.0004)
Chromium Total	0.0058
Cyanide	ND(0.005)
Lead	ND(0.0004)
Manganese	1.6 (RDW)
Nickel	0.013
Selenium	0.0015 J
Silver	ND(0.0004)
Vanadium	ND(0.0008)

RFI-84-05	10/2/2001	12/17/2002	3/24/2003	2/25/2005	6/8/2005
VOC					
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	0.0003 J	0.0003 J
Trichloroethene	0.0035	0.0039	0.0024	0.009 (IDW,RDW)	0.013 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
SVOC					
Benzo(a)anthracene	ND(0.0011)	NS	NS	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056)	NS	NS	NS	NS
Di-n-butylphthalate	ND(0.0056)	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022)	NS	NS	NS	NS
PCB					
Total PCBs	ND(0.00011)	NS	NS	NS	NS
PCB-Dissolved					
Total PCBs	ND(0.00011)	NS	NS	NS	NS
Inorganic					
Arsenic	NS	0.0017	NS	NS	NS
Beryllium	NS	0.00046 J	NS	NS	NS
Chromium Total	NS	0.0027	NS	NS	NS
Cyanide (total)	0.0011 J	ND(0.005)	NS	NS	NS
Lead	NS	0.0014 J	NS	NS	NS
Manganese	NS	0.41 J	NS	NS	NS
Nickel	NS	0.015 J	NS	NS	NS
Selenium	NS	ND(0.0016)	NS	NS	NS
Silver	NS	ND(0.0004 J)	NS	NS	NS
Vanadium	NS	0.0016	NS	NS	NS
Inorganic-Dissolved					
Arsenic	ND(0.001)	NS	NS	NS	NS
Beryllium	ND(0.0004)	NS	NS	NS	NS
Chromium Total	0.0015	NS	NS	NS	NS
Cyanide	0.00092 J	NS	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS	NS
Manganese	0.34	NS	NS	NS	NS
Nickel	0.022	NS	NS	NS	NS
Selenium	0.042	NS	NS	NS	NS
Silver	ND(0.0004)	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS

RFI-40-07	2/25/2002	6/24/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	0.001 J	NS
Di-n-butylphthalate	ND(0.005)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	0.0031 J	NS
Lead	NS	NS
Manganese	NS	NS
Nickel	NS	NS
Selenium	NS	NS
Silver	NS	NS
Vanadium	NS	NS
Inorganic-Dissolved		
Arsenic	0.0024	NS
Beryllium	0.0021 J	NS
Chromium Total	0.0075	NS
Cyanide	0.0033 J	NS
Lead	0.003	NS
Manganese	0.37	NS
Nickel	0.0096	NS
Selenium	0.0054 J	NS
Silver	ND(0.0004 J)	NS
Vanadium	0.00098 J	NS

RFI-94-06	5/21/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.00028 J
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0057 J
Beryllium	ND(0.0004)
Chromium Total	0.0021
Cyanide	0.0048 J
Lead	ND(0.0004)
Manganese	0.4
Nickel	0.0076
Selenium	ND(0.0014)
Silver	ND(0.0004)
Vanadium	0.0098 (RDW)

RFI-40-15	4/22/2003
VOC	
1,1-Dichloroethene	ND(0.001 J)
Benzene	5.5 JD (IDW,RDW)
cis-1,2-Dichloroethene	ND(0.001 J)
Trichloroethene	ND(0.001 J)
Vinyl chloride	ND(0.001 J)
Inorganic	
Arsenic	0.011
Beryllium	ND(0.0004)
Chromium Total	0.00096
Cyanide (total)	0.0031 J
Lead	0.00053
Manganese	0.12
Nickel	0.0086
Selenium	ND(0.0016)
Silver	ND(0.0004 J)
Vanadium	0.00099

40-1R	4/3/2003
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	0.0017
Vinyl chloride	ND(0.001)
Inorganic	
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Chromium Total	0.0064
Cyanide (total)	0.0068
Lead	0.0013
Manganese	0.057 J
Nickel	0.0083
Selenium	ND(0.0016)
Silver	ND(0.0004 J)
Vanadium	0.00024 J

RFI-40-13	9/16/2003	10/13/2003
VOC		
1,1-Dichloroethene	ND(0.001) /ND(0.001)	NS
Benzene	ND(0.001) /ND(0.001)	NS
cis-1,2-Dichloroethene	ND(0.001) /ND(0.001)	NS
Trichloroethene	ND(0.001) /ND(0.001)	NS
Vinyl chloride	ND(0.001) /ND(0.001)	NS
SVOC		
Benzo(a)anthracene	NS	ND(0.001)
Benzo(a)pyrene	NS	ND(0.002)
Benzo(b)fluoranthene	NS	ND(0.002)
bis(2-Ethylhexyl)phthalate	NS	ND(0.005)
Di-n-butylphthalate	NS	ND(0.005)
Indeno(1,2,3-cd)pyrene	NS	ND(0.002)
PCB		
Total PCBs	ND(0.00011) /ND(0.0001)	NS
Inorganic		
Arsenic	0.0087 J /0.0086 J	NS
Beryllium	0.17 J (IDW,RDW) /0.19 J (IDW,RDW)	NS
Chromium Total	0.0065 J /0.0059 J	NS
Cyanide (total)	ND(0.005) /ND(0.005)	NS
Lead	0.0011 /0.0011	NS
Manganese	0.2 /0.2	NS
Nickel	0.019 J /0.018 J	NS
Selenium	ND(0.0016 J) /ND(0.0016 J)	NS
Silver	0.0013 J /0.0012 J	NS
Vanadium	ND(0.0008) /ND(0.0008)	NS

RFI-40-09	2/26/2002	6/24/2002	3/26/2003
VOC			
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	0.68 D (IDW,RDW)	0.73 D (IDW,RDW)	0.85 D (IDW,RDW)
cis-1,2-Dichloroethene	ND(0.001 J)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS
Di-n-butylphthalate	ND(0.005)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.0001)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Arsenic	NS	0.043	NS
Beryllium	NS	ND(0.0004)	NS
Chromium Total	NS	0.00026 J	NS
Cyanide (total)	0.0014 J	ND(0.005)	NS
Lead	NS	0.00031 J	NS
Manganese	NS	0.12 J	NS
Nickel	NS	0.004	NS
Selenium	NS	ND(0.0014)	NS
Silver	NS	ND(0.0004 J)	NS
Vanadium	NS	0.00025 J	NS
Inorganic-Dissolved			
Arsenic	0.049	0.041	NS
Beryllium	0.019 J (IDW,RDW)	ND(0.0004)	NS
Chromium Total	0.0097 J	ND(0.0006)	NS
Cyanide	ND(0.005)	ND(0.005)	NS
Lead	0.00049 J	ND(0.0004)	NS
Manganese	0.1 J	0.1 J	NS
Nickel	0.0093 J	0.0035	NS
Selenium	ND(0.0014)	ND(0.0014)	NS
Silver	0.0011 J	0.00084 J	NS
Vanadium	ND(0.0008 J)	ND(0.0008)	NS

RFI-40-01	5/29/2001
VOC	
1,1-Dichloroethene	ND(0.001)
Benzene	0.00013 J
cis-1,2-Dichloroethene	ND(0.001)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	0.00019 J
Benzo(b)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0109 (IDW,RDW)
Di-n-butylphthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
PCB	
Total PCBs	ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Arsenic	0.0034 J
Beryllium	ND(0.0004)
Chromium Total	0.0047
Cyanide	ND(0.005)
Lead	0.0014 J
Manganese	0.17
Nickel	0.0059 J
Selenium	ND(0.0025)
Silver	ND(0.0004)
Vanadium	0.0045 J

84-6	10/17/2001	6/26/2002
VOC		
1,1-Dichloroethene	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	0.0021 (IDW,RDW)	0.0013
SVOC		
Benzo(a)anthracene	ND(0.0011)	NS
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Di-n-butylphthalate	ND(0.0053)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Arsenic	NS	0.0096 J
Beryllium	NS	ND(0.0004)
Chromium Total	NS	0.0009
Cyanide (total)	0.0019 J	ND(0.005 J)
Lead	NS	0.00059
Manganese	NS	0.11
Nickel	NS	0.0076
Selenium	NS	ND(0.0014)
Silver	NS	ND(0.0004 J)
Vanadium	NS	0.00026 J
Inorganic-Dissolved		
Arsenic	0.013	0.0076 J
Beryllium	ND(0.0004)	ND(0.0004)
Chromium Total	0.45 (IDW,RDW)	0.003
Cyanide	0.0016 J	ND(0.005 J)
Lead	0.00083	ND(0.0004)
Manganese	0.42	0.077
Nickel	0.91 (IDW,RDW)	0.0049
Selenium	0.0021 J	ND(0.0016)
Silver	ND(0.0004)	ND(0.0004 J)
Vanadium	0.002	ND(0.0008)

84-6R2	9/15/2003	10/5/2004	6/9/2005
VOC			
1,1-Dichloroethene	NS	ND(0.001)	ND(0.005)
Benzene	NS	0.259 (IDW,RDW)	0.402 (IDW,RDW)
cis-1,2-Dichloroethene	NS	0.002	ND(0.005)
Trichloroethene	NS	ND(0.001)	ND(0.005)
Vinyl chloride	NS	0.004 (IDW,RDW)	ND(0.005)
Inorganic			
Arsenic	0.013 J	NS	NS
Beryllium	0.21 J (IDW,RDW)	ND(0.001)	NS
Chromium Total	0.01 J	ND(0.005)	NS
Cyanide (total)	0.0091	NS	NS
Lead	0.0026	NS	NS
Manganese	0.43 J	NS	NS
Nickel	0.029 J	ND(0.005)	NS
Selenium	0.0025 J	NS	NS
Silver	0.0019 J	NS	NS
Vanadium	ND(0.0008)	NS	NS
Inorganic-Dissolved			
Arsenic	0.0097 J	NS	NS
Beryllium	0.26 J (IDW,RDW)	NS	NS
Chromium Total	0.0084 J	NS	NS
Cyanide	0.005	NS	NS
Lead	0.0011	NS	NS
Manganese	0.35	NS	NS
Nickel	0.024 J	NS	NS
Selenium	ND(0.0016)	NS	NS
Silver	0.0017 J	NS	NS
Vanadium	ND(0.0008)	NS	NS

84-2	10/17/2001
VOC	
1,1-Dichloroethene	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
cis-1,2-Dichloroethene	ND(0.001 J) /ND(0.001 J)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001) /ND(0.001)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
Benzo(b)fluoranthene	ND(0.002) /ND(0.002)
bis(2-Ethylhexyl)phthalate	ND(0.0051) /ND(0.005)
Di-n-butylphthalate	ND(0.0051) /ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.002)
PCB	
Total PCBs	ND(0.0001) /ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.0001) /ND(0.0001)
Inorganic	
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	ND(0.005) /0.0013 J
Lead	NS
Manganese	NS
Nickel	NS
Selenium	NS
Silver	NS
Vanadium	NS
Inorganic-Dissolved	
Arsenic	0.0016 J /0.0018 J
Beryllium	ND(0.0004) /ND(0.0004)
Chromium Total	0.0018 /0.0034
Cyanide	0.001 J /0.0013 J
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.0085 /0.0088
Nickel	0.0014 /0.0023
Selenium	ND(0.0014) /ND(0.0014)
Silver	ND(0.0004) /ND(0.0004)
Vanadium	ND(0.0008) /ND(0.0008)

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED ON AUGUST 1, 2005.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
12. BIS(2-ETHYLHEXYL)PHTHALATE DETECTED IN SAMPLES COLLECTED FROM TEMPORARY WELLS IN MAY 2001 WAS FOUND TO BE CAUSED BY THE TUBING USED TO COLLECT THE SAMPLES.
13. RDW – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

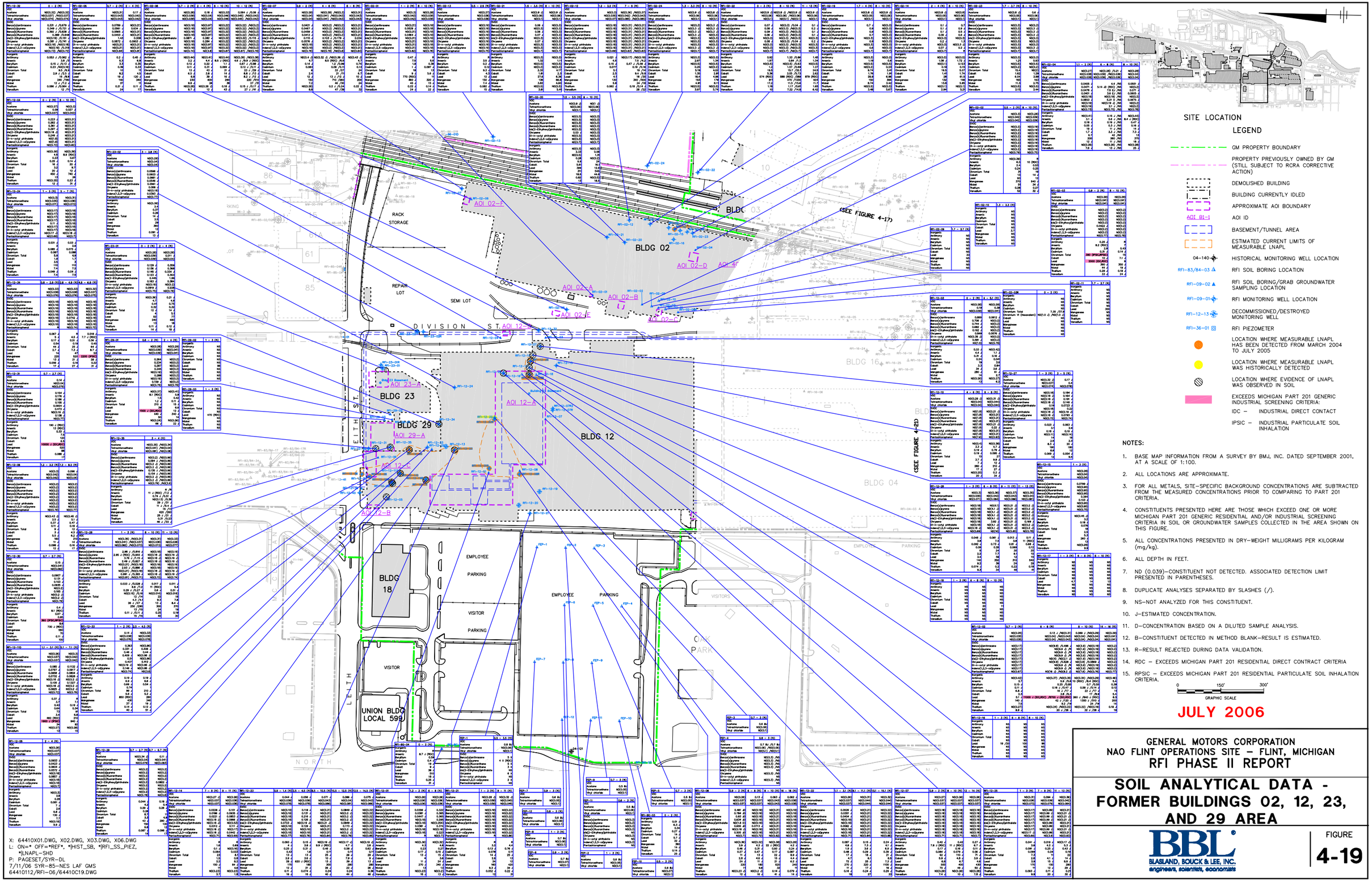
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C18.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FORMER BUILDINGS 03, 17, 28, 84, AND 94 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-18



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 01-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC — INDUSTRIAL DIRECT CONTACT
  - IPSIC — INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE–SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY–WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ALL DEPTH IN FEET.
7. ND (0.039)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
8. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
9. NS–NOT ANALYZED FOR THIS CONSTITUENT.
10. J–ESTIMATED CONCENTRATION.
11. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
12. B–CONSTITUENT DETECTED IN METHOD BLANK–RESULT IS ESTIMATED.
13. R–RESULT REJECTED DURING DATA VALIDATION.
14. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTRACT CRITERIA
15. RPSIC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FORMER BUILDINGS 02, 12, 23, AND 29 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-19

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF* , *HIST_SB, *[RFI_SS_PIEZ, *[LNAPL–SHD
P: PAGESET/SYR–DL
7/11/06 SYR–85–NES LAF GMS
64410112/RFI–06/64410C19.DWG

RFI-23-01R	10/4/2004	4/6/2005
SVOC		
Benzo(a)anthracene	ND(0.001)	ND(0.005)
Benzo(a)pyrene	ND(0.002)	ND(0.005)
Benzo(b)fluoranthene	ND(0.002)	ND(0.005)
Benzo(k)fluoranthene	ND(0.002)	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0007 J	ND(0.005)
Chrysene	ND(0.002)	ND(0.005)
Di-n-octyl phthalate	ND(0.005)	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)	ND(0.005)
Pentachlorophenol	0.002 J (IDW,RDW)	ND(0.001)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Beryllium	NS	NS
Cadmium	NS	NS
Chromium Total	NS	NS
Cobalt	NS	NS
Lead	ND(0.003)	NS
Manganese	NS	NS
Nickel	NS	NS
Thallium	NS	NS
Vanadium	NS	NS

RFI-12-24	4/4/2003	4/23/2003	4/6/2005
VOC			
Acetone	ND(0.025)	0.0082 J	NS
Tetrachloroethene	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	NS
SVOC			
Benzo(a)anthracene	ND(0.0011)	ND(0.001)	ND(0.005)
Benzo(a)pyrene	ND(0.0022)	ND(0.002)	ND(0.005)
Benzo(b)fluoranthene	ND(0.0022)	ND(0.002)	ND(0.005)
Benzo(k)fluoranthene	ND(0.0056)	ND(0.005)	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.0056)	ND(0.005)	ND(0.005)
Chrysene	ND(0.0056)	ND(0.005)	ND(0.005)
Di-n-octyl phthalate	ND(0.0056)	ND(0.005 J)	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.0022)	ND(0.002 J)	ND(0.005)
Pentachlorophenol	ND(0.022 J)	ND(0.02)	ND(0.001)
Inorganic			
Antimony	0.00038 J	0.0011 J	NS
Arsenic	0.0023	0.0018	NS
Beryllium	ND(0.0008)	ND(0.0004)	NS
Cadmium	0.00043	0.00064	NS
Chromium Total	0.0014	0.00065	NS
Cobalt	0.019	0.024	NS
Lead	0.0026	0.0015	NS
Manganese	0.74 J	0.89 (RDW)	NS
Nickel	0.024	0.03	NS
Thallium	0.000059 J	0.00015 J	NS
Vanadium	0.0024	0.00074 J	NS

RFI-23-02	9/18/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.0011)
Benzo(a)pyrene	ND(0.0022)
Benzo(b)fluoranthene	ND(0.0022)
Benzo(k)fluoranthene	ND(0.0056)
bis(2-Ethylhexyl)phthalate	ND(0.0056)
Chrysene	ND(0.0056)
Di-n-octyl phthalate	ND(0.0056)
Indeno(1,2,3-cd)pyrene	ND(0.0022)
Pentachlorophenol	ND(0.022)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0023
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	0.00083
Cobalt	0.0011
Lead	ND(0.0004)
Manganese	0.013
Nickel	0.0052
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

RFI-23-02R	10/4/2004	4/6/2005
SVOC		
Benzo(a)anthracene	ND(0.001)	ND(0.005)
Benzo(a)pyrene	ND(0.002)	ND(0.005)
Benzo(b)fluoranthene	ND(0.002)	ND(0.005)
Benzo(k)fluoranthene	ND(0.002)	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0007 J	ND(0.005)
Chrysene	ND(0.002)	ND(0.005)
Di-n-octyl phthalate	ND(0.005)	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)	ND(0.005)
Pentachlorophenol	0.003 J (IDW,RDW)	ND(0.001)
Inorganic		
Antimony	NS	NS
Arsenic	ND(0.002)	NS
Beryllium	ND(0.001)	NS
Cadmium	ND(0.0005)	NS
Chromium Total	ND(0.005)	NS
Cobalt	NS	NS
Lead	ND(0.003)	NS
Manganese	0.301	NS
Nickel	ND(0.005)	NS
Thallium	ND(0.002)	NS
Vanadium	0.009 (RDW)	NS

RFI-02-07	9/18/2001	6/27/2002	3/27/2003
VOC			
Acetone	ND(0.025)	NS	NS
Tetrachloroethene	ND(0.001)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
SVOC			
Benzo(a)anthracene	ND(0.0011)	NS	NS
Benzo(a)pyrene	ND(0.0022)	NS	NS
Benzo(b)fluoranthene	ND(0.0022)	NS	NS
Benzo(k)fluoranthene	ND(0.0054)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0054)	NS	NS
Chrysene	ND(0.0054)	NS	NS
Di-n-octyl phthalate	ND(0.0054)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022)	NS	NS
Pentachlorophenol	ND(0.022)	NS	NS
Inorganic			
Antimony	ND(0.0012)	ND(0.0012)	ND(0.0012)
Arsenic	0.0024 J	0.0006 J	ND(0.001)
Beryllium	0.0025 J	ND(0.0004)	ND(0.0004)
Cadmium	0.00044 J	ND(0.0002)	0.00012 J
Chromium Total	0.0018	0.00054 J	0.0016
Cobalt	0.004 J	0.00035	0.0024
Lead	0.00054 J	0.0003 J	0.00015 J
Manganese	3.7 J (IDW,RDW)	0.45	2.2 (RDW)
Nickel	0.027 J	0.0029	0.026
Thallium	ND(0.0002)	0.000062 J	0.000086 J
Vanadium	ND(0.0008)	ND(0.0008)	ND(0.0008)
Inorganic-Dissolved			
Antimony	ND(0.0012)	ND(0.0012)	NS
Arsenic	ND(0.001)	0.0011 J	NS
Beryllium	ND(0.0004)	ND(0.0004)	NS
Cadmium	ND(0.0002)	ND(0.0002)	NS
Chromium Total	ND(0.0006)	0.0034	NS
Cobalt	0.0027	0.00074	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	2.2 (RDW)	0.38	NS
Nickel	0.016	0.0042	NS
Thallium	ND(0.0002)	ND(0.0002)	NS
Vanadium	ND(0.0008)	ND(0.0008)	NS

RFI-02-13	12/19/2002	10/7/2004
VOC		
Acetone	NS	ND(0.03)
Tetrachloroethene	NS	ND(0.001)
Vinyl chloride	NS	ND(0.001)
Inorganic		
Antimony	ND(0.0012)	NS
Arsenic	0.0025 J	NS
Beryllium	ND(0.0004)	NS
Cadmium	0.000083 J	NS
Chromium Total	0.0012 J	NS
Cobalt	0.00058 J	NS
Lead	0.0011 J	NS
Manganese	0.38 J	2.25 (RDW)
Nickel	0.0051 J	NS
Thallium	0.00052 J	NS
Vanadium	0.00062 J	NS

RFI-02-21	4/5/2005
VOC	
Acetone	0.008 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-12	3/26/2003	10/5/2004	2/24/2005
VOC			
Acetone	NS	2 (RDW) /2.36 EJ (IDW,RDW)	47 (IDW,RDW)
Tetrachloroethene	NS	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	NS	ND(0.001) /ND(0.001)	ND(0.001)
Inorganic			
Antimony	ND(0.0012)	NS	NS
Arsenic	ND(0.001)	NS	NS
Beryllium	ND(0.0004)	NS	NS
Cadmium	ND(0.0002)	NS	NS
Chromium Total	0.0007	NS	NS
Cobalt	0.0003	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.083	NS	NS
Nickel	0.0084	NS	NS
Thallium	ND(0.0002)	NS	NS
Vanadium	0.00027 J	NS	NS

RFI-02-24	4/5/2005
VOC	
Acetone	ND(0.03 J)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-20	4/5/2005
VOC	
Acetone	2.3 (IDW,RDW)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-22	4/5/2005
VOC	
Acetone	0.01 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-19	4/8/2005
VOC	
Acetone	0.006 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-01	5/18/2001
VOC	
Acetone	0.0018 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.00093 J
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Beryllium	ND(0.00042)
Cadmium	0.00084
Chromium Total	0.003
Cobalt	0.00063
Lead	0.00042
Manganese	0.033
Nickel	0.0068
Thallium	ND(0.00021)
Vanadium	0.0017

RFI-02-04	5/18/2001
VOC	
Acetone	0.0055 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.334 D (GCC,IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0085
Beryllium	ND(0.00042)
Cadmium	ND(0.00021)
Chromium Total	0.0044
Cobalt	0.0093
Lead	ND(0.00042)
Manganese	1.2 (RDW)
Nickel	0.0064
Thallium	ND(0.00021)
Vanadium	ND(0.00083)

RFI-23-01	9/18/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	0.0013
Cobalt	0.00039
Lead	ND(0.0004)
Manganese	0.0019
Nickel	0.0031
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

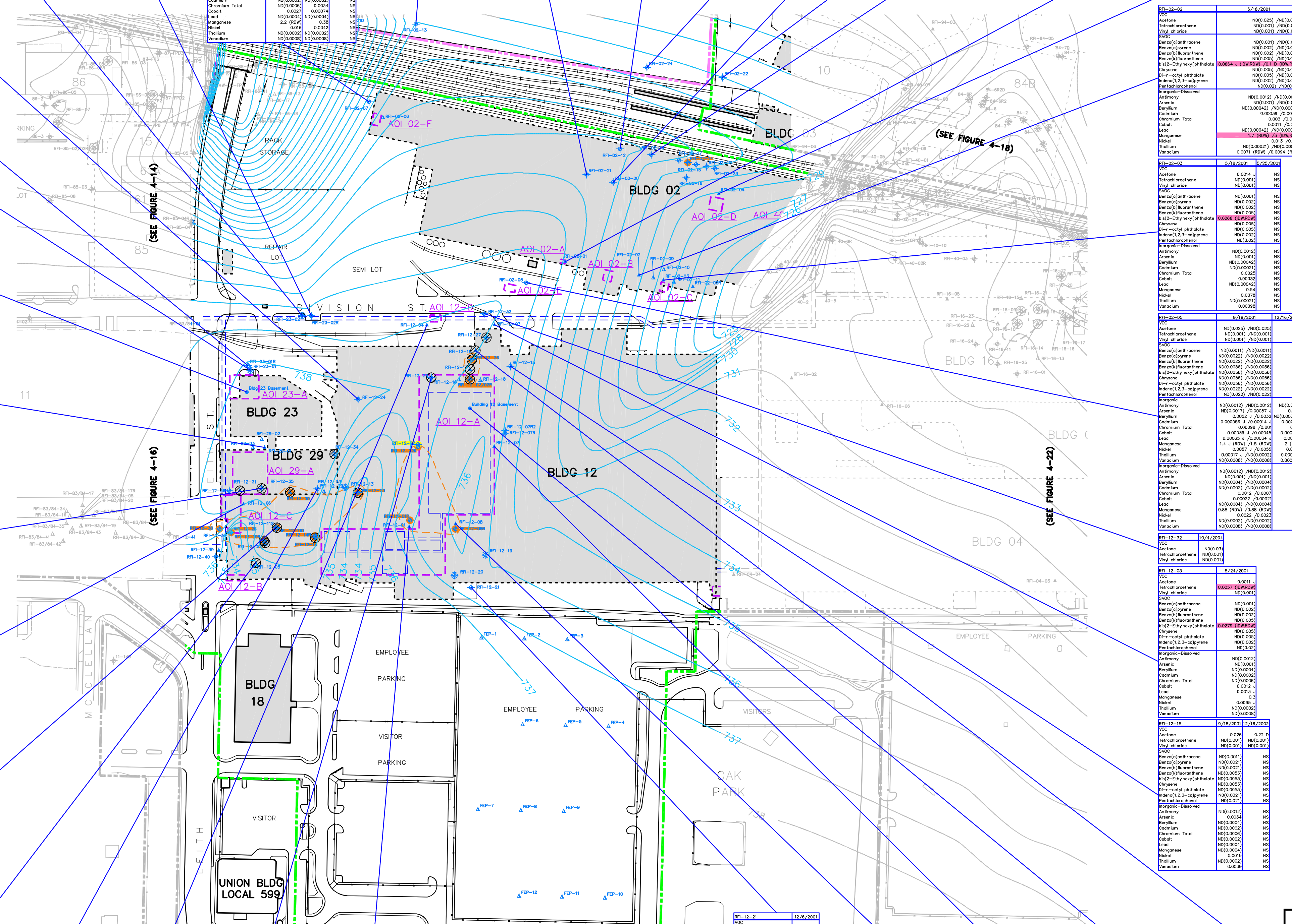
Bldg 23 Basement	11/22/2002
VOC	
Acetone	0.005 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	0.0113 J (GCC,IDW,RDW)
Benzo(a)pyrene	0.0113 J (GCC,IDW,RDW)
Benzo(b)fluoranthene	0.0659 J (GCC,IDW,RDW)
Benzo(k)fluoranthene	0.0088 J (GCC,IDW,RDW)
bis(2-Ethylhexyl)phthalate	0.197 (IDW,RDW)
Chrysene	0.0102 J (GCC,IDW,RDW)
Di-n-octyl phthalate	0.234 J (RDW)
Indeno(1,2,3-cd)pyrene	0.0166 J (GCC,IDW,RDW)
Pentachlorophenol	ND(0.2)
Inorganic	
Antimony	0.0031
Arsenic	ND(0.0017)
Beryllium	ND(0.0004)
Cadmium	0.00031
Chromium Total	0.0067
Cobalt	0.00075
Lead	0.0077 (IDW,RDW)
Manganese	0.17 J
Nickel	0.0068
Thallium	ND(0.0002)
Vanadium	0.00069 J

RFI-29-01	5/23/2001
VOC	
Acetone	0.0024 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.238 D (IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	0.0018 J
Cobalt	0.00044
Lead	ND(0.0004)
Manganese	0.73
Nickel	0.0015
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

RFI-12-35	9/17/2003	10/14/2003
VOC		
Acetone	0.02 J	NS
Tetrachloroethene	ND(0.001 J)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	NS	ND(0.0011)
Benzo(a)pyrene	NS	ND(0.0022)
Benzo(b)fluoranthene	NS	ND(0.0022)
Benzo(k)fluoranthene	NS	ND(0.0054)
bis(2-Ethylhexyl)phthalate	NS	ND(0.0054)
Chrysene	NS	ND(0.0054)
Di-n-octyl phthalate	NS	ND(0.0054)
Indeno(1,2,3-cd)pyrene	NS	ND(0.0022)
Pentachlorophenol	NS	ND(0.022)
Inorganic		
Antimony	0.0043 J	NS
Arsenic	0.06 J (IDW,RDW)	NS
Beryllium	0.27 JDM (IDW,RDW)	NS
Cadmium	0.0067 J (IDW,RDW)	NS
Chromium Total	0.12 (IDW,RDW)	NS
Cobalt	0.046 (RDW)	NS
Lead	0.059 (IDW,RDW)	NS
Manganese	2.1 (RDW)	NS
Nickel	0.12 (IDW,RDW)	NS
Thallium	0.0036 (IDW,RDW)	NS
Vanadium	0.14 (IDW,RDW)	NS
Inorganic-Dissolved		
Antimony	0.0028 J	NS
Arsenic	0.02	NS
Beryllium	0.03 J (IDW,RDW)	NS
Cadmium	0.0027 J	NS
Chromium Total	0.004	NS
Cobalt	0.0074 J	NS
Lead	0.001 J	NS
Manganese	0.27	NS
Nickel	0.027 J	NS
Thallium	0.00089 J	NS
Vanadium	ND(0.0008 J)	NS

RFI-12-06	5/25/2001
VOC	
Acetone	0.017 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.579 D (GAI,GCC,IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
Pentachlorophenol	ND(0.005)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.014 J
Beryllium	ND(0.0004)
Cadmium	0.002 J
Chromium Total	0.0012
Cobalt	ND(0.0002)
Lead	ND(0.0004)
Manganese	ND(0.0004)
Nickel	0.007 J
Thallium	ND(0.0002)
Vanadium	0.076 J (IDW,RDW)

RFI-12-11S	9/19/2001	6/25/2002
VOC		
Acetone	ND(0.025)	0.0078 J
Tetrachloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
Benzo(k)fluoranthene	ND(0.0051)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0051)	NS
Chrysene	ND(0.0051)	NS
Di-n-octyl phthalate	ND(0.0051)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic		
Antimony	NS	0.0013
Arsenic	NS	0.001 J
Beryllium	NS	ND(0.0004)
Cadmium	NS	0.0002
Chromium Total	NS	0.00068
Cobalt	NS	0.0011
Lead	NS	0.00043
Manganese	NS	0.74 J
Nickel	NS	0.017
Thallium	NS	ND(0.0002)
Vanadium	NS	0.00033 J
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	ND(0.001)	NS
Beryllium	ND(0.0004)	NS
Cadmium	ND(0.0002)	NS
Chromium Total	ND(0.0006)	NS
Cobalt	0.00081	NS
Lead	0.0006	NS
Manganese	0.31	NS
Nickel	0.0088	NS
Thallium	ND(0.0002)	NS
Vanadium	ND(0.0008)	NS



RFI-02-02	5/18/2001
VOC	
Acetone	ND(0.025) /ND(0.025)
Tetrachloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001) /ND(0.001)
Benzo(a)pyrene	ND(0.002) /ND(0.002)
Benzo(b)fluoranthene	ND(0.002) /ND(0.002)
Benzo(k)fluoranthene	ND(0.005) /ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0664 J (IDW,RDW) /0.1 D (IDW,RDW)
Chrysene	ND(0.005) /ND(0.005)
Di-n-octyl phthalate	ND(0.005) /ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.002)
Pentachlorophenol	ND(0.02) /ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012) /ND(0.0012)
Arsenic	ND(0.001) /ND(0.001)
Beryllium	ND(0.00042) /ND(0.00042)
Cadmium	0.00039 /0.00064
Chromium Total	0.003 /0.0046
Cobalt	0.0011 /0.0021
Lead	ND(0.00042) /ND(0.00042)
Manganese	1.7 (RDW) /3 (IDW,RDW)
Nickel	0.013 /0.022
Thallium	ND(0.00021) /ND(0.00021)
Vanadium	0.0071 (RDW) /0.0094 (RDW)

RFI-02-03	5/18/2001	5/25/2001
VOC		
Acetone	0.0014 J	NS
Tetrachloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
Benzo(k)fluoranthene	ND(0.005)	NS
bis(2-Ethylhexyl)phthalate	0.0268 (IDW,RDW)	NS
Chrysene	ND(0.005)	NS
Di-n-octyl phthalate	ND(0.005)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
Pentachlorophenol	ND(0.02)	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	ND(0.001)	NS
Beryllium	ND(0.00042)	NS
Cadmium	ND(0.00021)	NS
Chromium Total	0.0025	NS
Cobalt	0.00032	NS
Lead	ND(0.00042)	NS
Manganese	0.54	NS
Nickel	0.0078	NS
Thallium	ND(0.00021)	NS
Vanadium	0.00098	NS

RFI-02-05	9/18/2001	12/16/2002
VOC		
Acetone	ND(0.025) /ND(0.025)	NS
Tetrachloroethene	ND(0.001) /ND(0.001)	NS
Vinyl chloride	ND(0.001) /ND(0.001)	NS
SVOC		
Benzo(a)anthracene	ND(0.0011) /ND(0.0011)	NS
Benzo(a)pyrene	ND(0.0022) /ND(0.0022)	NS
Benzo(b)fluoranthene	ND(0.0022) /ND(0.0022)	NS
Benzo(k)fluoranthene	ND(0.0056) /ND(0.0056)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0056) /ND(0.0056)	NS
Chrysene	ND(0.0056) /ND(0.0056)	NS
Di-n-octyl phthalate	ND(0.0056) /ND(0.0056)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0022) /ND(0.0022)	NS
Pentachlorophenol	ND(0.022) /ND(0.022)	NS
Inorganic		
Antimony	ND(0.0012) /ND(0.0012)	ND(0.0012)
Arsenic	ND(0.0017) /0.00087 J	0.0014
Beryllium	0.0002 J /0.0032	ND(0.0004 J)
Cadmium	0.000056 J /0.00014 J	0.00011 J
Chromium Total	0.00098 /0.001	0.005
Cobalt	0.00039 J /0.00045	0.00064 J
Lead	0.00065 J /0.00034 J	0.0021 J
Manganese	1.4 J (RDW) /1.5 (RDW)	2 (RDW)
Nickel	0.0057 J /0.0055	0.012 J
Thallium	0.00017 J /ND(0.0002)	0.00012 J
Vanadium	ND(0.0008) /ND(0.0008)	0.00027 J
Inorganic-Dissolved		
Antimony	ND(0.0012) /ND(0.0012)	NS
Arsenic	ND(0.001) /ND(0.001)	NS
Beryllium	ND(0.0004) /ND(0.0004)	NS
Cadmium	ND(0.0002) /ND(0.0002)	NS
Chromium Total	0.0012 /0.0007	NS
Cobalt	0.00022 /0.00021	NS
Lead	ND(0.0004) /ND(0.0004)	NS
Manganese	0.88 (RDW) /0.88 (RDW)	NS
Nickel	0.0022 /0.0023	NS
Thallium	ND(0.0002) /ND(0.0002)	NS
Vanadium	ND(0.0008) /ND(0.0008)	NS

RFI-12-32	10/4/2004
VOC	
Acetone	ND(0.03)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-12-03	5/24/2001
VOC	
Acetone	0.0011 J
Tetrachloroethene	0.0057 (IDW,RDW)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0279 (IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006)
Cobalt	0.0012 J
Lead	0.0013 J
Manganese	0.3
Nickel	0.0095 J
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

RFI-12-15	9/18/2001	12/16/2002
VOC		
Acetone	0.026	0.22 D
Tetrachloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
SVOC		
Benzo(a)anthracene	ND(0.0011)	NS
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
Benzo(k)fluoranthene	ND(0.0053)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Chrysene	ND(0.0053)	NS
Di-n-octyl phthalate	ND(0.0053)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS
Pentachlorophenol	ND(0.021)	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	0.0034	NS
Beryllium	ND(0.0004)	NS
Cadmium	ND(0.0002)	NS
Chromium Total	ND(0.0006)	NS
Cobalt	ND(0.0002)	NS
Lead	ND(0.0004)	NS
Manganese	ND(0.0004)	NS
Nickel	0.0015	NS
Thallium	ND(0.0002)	NS
Vanadium	0.0039	NS

RFI-12-05	5/16/2001
VOC	
Acetone	0.0075 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001 J)
Benzo(a)pyrene	ND(0.002 J)
Benzo(b)fluoranthene	ND(0.002 J)
Benzo(k)fluoranthene	ND(0.005 J)
bis(2-Ethylhexyl)phthalate	0.179 D (IDW,RDW)
Chrysene	ND(0.005 J)
Di-n-octyl phthalate	ND(0.005 J)
Indeno(1,2,3-cd)pyrene	ND(0.002 J)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0053 J
Beryllium	ND(0.00042)
Cadmium	ND(0.00021)
Chromium Total	0.003 J
Cobalt	0.0026 J
Lead	0.0013 J
Manganese	1.6 (RDW)
Nickel	0.033 J
Thallium	ND(0.00021)
Vanadium	0.013 J (RDW)

RFI-12-33	4/7/2005
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
Pentachlorophenol	ND(0.001)

RFI-12-04	5/23/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.0013)
Benzo(a)pyrene	ND(0.0026)
Benzo(b)fluoranthene	ND(0.0026)
Benzo(k)fluoranthene	ND(0.0064)
bis(2-Ethylhexyl)phthalate	0.0907 (IDW,RDW)
Chrysene	ND(0.0064)
Di-n-octyl phthalate	ND(0.0064)
Indeno(1,2,3-cd)pyrene	ND(0.0026)
Pentachlorophenol	ND(0.026)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.014 J
Beryllium	ND(0.0004)
Cadmium	0.00095 J
Chromium Total	0.0013
Cobalt	0.00054
Lead	ND(0.0004)
Manganese	0.13
Nickel	0.0039
Thallium	ND(0.0002)
Vanadium	0.0018

RFI-12-25	4/23/2003
VOC	
Acetone	0.0062 J
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005 J)
Indeno(1,2,3-cd)pyrene	ND(0.002 J)
Pentachlorophenol	ND(0.02)
Inorganic	
Antimony	0.00039 J
Arsenic	0.0016 J
Beryllium	ND(0.0004)
Cadmium	0.00012 J
Chromium Total	0.0011 J
Cobalt	0.0018 J
Lead	0.0015 J
Manganese	0.4
Nickel	0.024
Thallium	0.000094 J
Vanadium	ND(0.0008)

RFI-12-01	5/16/2001	5/18/2001
VOC		
Acetone	ND(0.025)	NS
Tetrachloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
SVOC		
Benzo(a)anthracene	NS	ND(0.001)
Benzo(a)pyrene	NS	ND(0.002)
Benzo(b)fluoranthene	NS	ND(0.002)
Benzo(k)fluoranthene	NS	ND(0.005)
bis(2-Ethylhexyl)phthalate	NS	0.00354 J
Chrysene	NS	ND(0.005)
Di-n-octyl phthalate	NS	ND(0.005)
Indeno(1,2,3-cd)pyrene	NS	ND(0.002)
Pentachlorophenol	NS	ND(0.02)
Inorganic-Dissolved		
Antimony	NS	0.0014
Arsenic	NS	ND(0.001)
Beryllium	NS	ND(0.00042)
Cadmium	NS	ND(0.00021)
Chromium Total	NS	0.0058
Cobalt	NS	0.0015
Lead	NS	0.00068
Manganese	NS	0.11
Nickel	NS	0.014
Thallium	NS	ND(0.00021)
Vanadium	NS	ND(0.00083)

04-121	9/28/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	ND(0.0006)
Cobalt	ND(0.0002)
Lead	ND(0.0004)
Manganese	0.019 J
Nickel	0.0044
Thallium	ND(0.0002)
Vanadium	ND(0.0008)

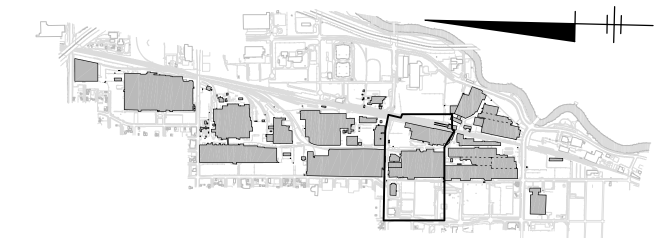
RFI-12-21	12/6/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	ND(0.005)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic	
Antimony	ND(0.0012)
Arsenic	0.0072
Beryllium	ND(0.0004)
Cadmium	0.000069 J
Chromium Total	0.0018
Cobalt	0.0046
Lead	0.00014 J
Manganese	0.31
Nickel	0.012
Thallium	0.000066 J
Vanadium	0.00044 J
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0065
Beryllium	0.00094 J
Cadmium	0.00023
Chromium Total	0.00083
Cobalt	0.0032
Lead	ND(0.0004)
Manganese	0.21
Nickel	0.0069
Thallium	0.0003
Vanadium	ND(0.0008)

RFI-12-08	5/16/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	0.04 (IDW,RDW)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0725 (IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.002 J
Beryllium	ND(0.00042)
Cadmium	ND(0.00021)
Chromium Total	0.0022 J
Cobalt	ND(0.00021)
Lead	0.0011 J
Manganese	0.074
Nickel	0.0043 J
Thallium	ND(0.00021)
Vanadium	0.0027 J

RFI-12-07	5/16/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001)
Benzo(a)pyrene	ND(0.002)
Benzo(b)fluoranthene	ND(0.002)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.0026 J
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002)
Pentachlorophenol	ND(0.02)
Inorganic-Dissolved	
Antimony	ND(0.0019)
Arsenic	0.0014 J
Beryllium	ND(0.00042)
Cadmium	ND(0.00021)
Chromium Total	0.0071 J
Cobalt	0.0004 J
Lead	0.002 J
Manganese	0.2
Nickel	0.007 J
Thallium	ND(0.00021)
Vanadium	0.002 J

Building 12 Basement	9/18/2001
VOC	
Acetone	0.0041 J /0.004 J
Tetrachloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.001 J) /ND(0.001)
Benzo(a)pyrene	ND(0.002 J) /0.00092 J
Benzo(b)fluoranthene	ND(0.002 J) /0.00076 J
Benzo(k)fluoranthene	ND(0.005 J) /0.00063 J
bis(2-Ethylhexyl)phthalate	0.0014 J /0.0236 J (IDW,RDW)
Chrysene	ND(0.005 J) /ND(0.005)
Di-n-octyl phthalate	ND(0.005 J) /ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.002 J) /ND(0.002)
Pentachlorophenol	ND(0.02) /ND(0.02)
Inorganic-Dissolved	
Antimony	0.0054 /0.0054
Arsenic	0.0036 /0.0031
Beryllium	ND(0.0004) /ND(0.0004)
Cadmium	0.0013 /0.00062
Chromium Total	0.0043 /0.0033
Cobalt	0.0045 /0.0033
Lead	0.0079 (IDW,RDW) /0.0014
Manganese	0.055 /0.026
Nickel	0.034 /0.028
Thallium	ND(0.0002) /ND(0.0002)
Vanadium	0.0025 /0.0012

RFI-12-10	5/31/2001
VOC	
Acetone	ND(0.025)
Tetrachloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
Benzo(k)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.52 D (GAI,GCC,IDW,RDW)
Chrysene	ND(0.005)
Di-n-octyl phthalate	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
Pentachlorophenol	ND(0.005)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0075
Beryllium	ND(0.0004)
Cadmium	ND(0.0002)
Chromium Total	0.0016
Cobalt	0.00047
Lead	ND(0.0004)
Manganese	0.017
Nickel	0.0038
Thallium	ND(0.0002)
Vanadium	0.012 (RDW)



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDW – INDUSTRIAL DRINKING WATER
  - GCC – GROUNDWATER CONTACT
  - GAI – GROUNDWATER ACUTE INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. E– ESTIMATED CONCENTRATION, CONCENTRATION OUT OF RANGE OF INSTRUMENT.
11. D– CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
13. BIS(2-ETHYLHEXYL)PHTHALATE DETECTED IN SAMPLES COLLECTED FROM TEMPORARY WELLS IN MAY 2001 WAS FOUND TO BE CAUSED BY THE TUBING USED TO COLLECT THE SAMPLES.
14. RDW – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
15. LNAPL MEASURED AT RFI-02-14 IN 2005.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, *|HIST_SB, *|RFI_SS_PIEZ, *|LNAPL-SHD
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C20.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FORMER BUILDINGS 02, 12, 23, AND 29 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-20

RFI-16-05	0.5 - 2 (ft)	2 - 4 (ft)
VOC		
Benzene	ND(0.041)	ND(0.043)
cis-1,2-Dichloroethene	ND(0.041 J)	ND(0.043 J)
Ethylbenzene	ND(0.041)	ND(0.043)
Trichloroethene	ND(0.041)	ND(0.043)
Vinyl chloride	ND(0.041)	ND(0.043)
SVOC		
Benzo(a)anthracene	ND(0.2)	0.0656 J
Benzo(a)pyrene	ND(0.2)	0.0615 J
Benzo(b)fluoranthene	ND(0.2)	0.0554 J
Benzo(g,h,i)perylene	ND(0.2)	ND(0.21)
Benzo(k)fluoranthene	ND(0.2)	0.0575 J
bis(2-Ethylhexyl)phthalate	ND(0.2)	ND(0.21)
Chrysene	ND(0.2)	0.066 J
Indeno(1,2,3-cd)pyrene	ND(0.2)	ND(0.21)
PCB		
Total PCBs	ND(0.041)	ND(0.043)
Inorganic		
Antimony	ND(0.39)	ND(0.38)
Arsenic	7.7 (RDC)	6.1
Beryllium	0.83	0.74
Chromium Total	21 J	15 J
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	170 J	60 J
Manganese	560 J	420 J
Nickel	21	17
Selenium	ND(1.6)	ND(1.5)
Vanadium	19 J	24 J

RFI-40-02	0.9 - 2.9 (ft)	8.9 - 10.9 (ft)
VOC		
Benzene	ND(0.041)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.041)	ND(0.042)
Ethylbenzene	ND(0.041)	ND(0.042)
Trichloroethene	0.051	ND(0.042)
Vinyl chloride	ND(0.041)	ND(0.042)
SVOC		
Benzo(a)anthracene	0.615	0.349 J
Benzo(a)pyrene	0.617	ND(0.21 J)
Benzo(b)fluoranthene	0.909 J	ND(0.21 J)
Benzo(g,h,i)perylene	1.39 J	ND(0.21 J)
Benzo(k)fluoranthene	0.686 J	ND(0.21 J)
bis(2-Ethylhexyl)phthalate	0.168 J	ND(0.21 J)
Chrysene	0.714	0.588 J
Indeno(1,2,3-cd)pyrene	1.09 J	ND(0.21 J)
PCB		
Total PCBs	0.034 J	ND(0.043)
Inorganic		
Antimony	0.14 J	0.15 J
Arsenic	6.3 J	4.7 J
Beryllium	3.3 J	2.9 J
Chromium Total	17 J	13 J
Cyanide (total)	0.14 J	ND(0.2)
Lead	12 J	6.8 J
Manganese	410 J	440 J
Nickel	16 J	14 J
Selenium	0.15 J	ND(0.07)
Vanadium	26	22

RFI-40-10	0.7 - 2.7 (ft)	4.7 - 6.7 (ft)
VOC		
Benzene	ND(0.037)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.041)
Ethylbenzene	ND(0.037)	ND(0.041)
Trichloroethene	0.15	0.031 J
Vinyl chloride	ND(0.037)	ND(0.041)
SVOC		
Benzo(a)anthracene	0.355	ND(0.19)
Benzo(a)pyrene	0.345	ND(0.19)
Benzo(b)fluoranthene	0.353	ND(0.19)
Benzo(g,h,i)perylene	0.263 J	ND(0.19)
Benzo(k)fluoranthene	0.294	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.0602 J	ND(0.19)
Chrysene	0.404	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.219 J	ND(0.19)
PCB		
Total PCBs	0.014 J	ND(0.04)
Inorganic		
Antimony	0.1 J	0.098 J
Arsenic	4.8 J	9.1 J (RDC)
Beryllium	2.5 J	2.7 J
Chromium Total	15 J	13 J
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	11 J	8.7 J
Manganese	410 J	280 J
Nickel	11 J	13 J
Selenium	0.23 J	ND(0.066)
Vanadium	22	24

RFI-40-03	0.7 - 2.7 (ft)	6.7 - 8.7 (ft)
VOC		
Benzene	ND(0.038) /ND(0.037)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.038) /ND(0.037)	ND(0.04)
Ethylbenzene	ND(0.038) /ND(0.037)	ND(0.04)
Trichloroethene	0.32 /ND(0.037)	ND(0.04)
Vinyl chloride	ND(0.038) /ND(0.037)	ND(0.04)
SVOC		
Benzo(a)anthracene	0.138 J /ND(0.18)	ND(0.19)
Benzo(a)pyrene	0.129 J /ND(0.18)	ND(0.19)
Benzo(b)fluoranthene	0.123 J /ND(0.18)	ND(0.19)
Benzo(g,h,i)perylene	0.0688 J /ND(0.18)	ND(0.19 J)
Benzo(k)fluoranthene	0.0972 J /ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18) /ND(0.18)	ND(0.19)
Chrysene	0.146 J /ND(0.18)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.0635 J /ND(0.18)	ND(0.19 J)
PCB		
Total PCBs	ND(0.037) /ND(0.037)	ND(0.04)
Inorganic		
Antimony	0.082 J /0.056 J	0.068 J
Arsenic	8.2 J (RDC) /3.9 J	9.5 J (RDC)
Beryllium	2.3 J /1.3 J	1.6 J
Chromium Total	15 J /8 J	13 J
Cyanide (total)	ND(0.2) /ND(0.2)	ND(0.2)
Lead	12 J /19 J	13 J
Manganese	1200 J /180 J	1100 J
Nickel	13 J /8.8 J	15 J
Selenium	0.18 J /0.19 J	0.3 J
Vanadium	27 /14	23

RFI-40-11	0.9 - 2.9 (ft)	4.9 - 6.9 (ft)
VOC		
Benzene	0.13	ND(0.034)
cis-1,2-Dichloroethene	ND(0.034)	ND(0.034)
Ethylbenzene	0.12	ND(0.034)
Trichloroethene	ND(0.034)	ND(0.034)
Vinyl chloride	ND(0.067)	ND(0.069)

RFI-16-12	0.9 - 2.9 (ft)	8.9 - 10.9 (ft)
VOC		
Benzene	ND(0.04)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.04)	1.4
Ethylbenzene	ND(0.04)	ND(0.042)
Trichloroethene	0.15	0.17
Vinyl chloride	ND(0.04)	0.16
SVOC		
Benzo(a)anthracene	ND(0.2 J)	ND(0.2)
Benzo(a)pyrene	ND(0.2 J)	ND(0.2)
Benzo(b)fluoranthene	ND(0.2 J)	ND(0.2)
Benzo(g,h,i)perylene	ND(0.2 J)	ND(0.2)
Benzo(k)fluoranthene	ND(0.2 J)	ND(0.2)
bis(2-Ethylhexyl)phthalate	ND(0.2 J)	ND(0.2)
Chrysene	ND(0.2 J)	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.2 J)	ND(0.2)
PCB		
Total PCBs	0.033 J	ND(0.041)
Inorganic		
Antimony	0.1 J	0.16 J
Arsenic	4.1 J	14 J (RDC)
Beryllium	3.2 J	2.9 J
Chromium Total	14 J	12 J
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	250 J	7.1 J
Manganese	270 J	380 J
Nickel	21 J	14 J
Selenium	0.3 J	0.31 J
Vanadium	22	19

40-303R	1 - 3 (ft)	8 - 10 (ft)	27 - 29 (ft)
VOC			
Benzene	ND(0.037)	ND(0.039)	ND(0.039)
cis-1,2-Dichloroethene	0.05	0.071	ND(0.039)
Ethylbenzene	0.028 J	ND(0.039)	ND(0.039)
Trichloroethene	1.3	ND(0.039)	ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.039)	ND(0.039)
SVOC			
Benzo(a)anthracene	0.154 J	ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.223	ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	0.26	ND(0.19)	ND(0.19)
Benzo(g,h,i)perylene	0.122 J	ND(0.19)	ND(0.19)
Benzo(k)fluoranthene	0.232	ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)	ND(0.19)
Chrysene	0.179 J	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.131 J	ND(0.19)	ND(0.19)
PCB			
Total PCBs	0.102 J	ND(0.039)	0.013 J
Inorganic			
Antimony	R	R	R
Arsenic	3.8	3.3	5.1
Beryllium	0.19	0.23	0.33
Chromium Total	10	16	12
Cyanide (total)	1.8	0.45	0.11 J
Lead	29	5.5	7.1
Manganese	220	250	360
Nickel	13	9.9	15
Selenium	ND(0.097)	ND(0.094)	0.16
Vanadium	9.9	13	19

RFI-40-04	0.5 - 2.5 (ft)	8.5 - 10.5 (ft)	22.5 - 24.5 (ft)
VOC			
Benzene	ND(0.038)	ND(0.039)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.039)	ND(0.04)
Ethylbenzene	ND(0.038)	ND(0.039)	ND(0.04)
Trichloroethene	ND(0.038)	ND(0.039)	ND(0.04)
Vinyl chloride	ND(0.038)	ND(0.039)	ND(0.04)
SVOC			
Benzo(a)anthracene	0.128 J	ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.12 J	ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	0.14 J	ND(0.19)	ND(0.19)
Benzo(g,h,i)perylene	0.0771 J	ND(0.19)	ND(0.19)
Benzo(k)fluoranthene	0.133 J	ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)	ND(0.19)
Chrysene	0.149 J	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.0682 J	ND(0.19)	ND(0.19)
PCB			
Total PCBs	ND(0.038)	ND(0.039)	ND(0.039)
Inorganic			
Antimony	R	R	R
Arsenic	9.3 (RDC)	4.5	3.5
Beryllium	0.86	0.75	0.48
Chromium Total	7.6	14	8.5
Cyanide (total)	ND(0.4)	ND(0.4)	ND(0.4)
Lead	16	7.6	4.2
Manganese	480 J	310 J	210 J
Nickel	16	16	10
Selenium	1.9	0.12	0.1
Vanadium	10	23	13

RFI-16-03	0.5 - 2 (ft)	4 - 6 (ft)
VOC		
Benzene	0.12	0.015 J /0.0078 J
cis-1,2-Dichloroethene	ND(0.038 J)	ND(0.043 J) /ND(0.042 J)
Ethylbenzene	0.049	ND(0.043) /ND(0.042)
Trichloroethene	ND(0.038)	ND(0.043) /ND(0.042)
Vinyl chloride	ND(0.038)	ND(0.043) /ND(0.042)
SVOC		
Benzo(a)anthracene	R	R /ND(0.2)
Benzo(a)pyrene	R	R /ND(0.2)
Benzo(b)fluoranthene	R	R /ND(0.2)
Benzo(g,h,i)perylene	R	R /ND(0.2)
Benzo(k)fluoranthene	R	R /ND(0.2)
bis(2-Ethylhexyl)phthalate	R	R /ND(0.2)
Chrysene	0.0652 J	R /ND(0.2)
Indeno(1,2,3-cd)pyrene	R	R /ND(0.2)
PCB		
Total PCBs	ND(0.039)	ND(0.043) /ND(0.041)
Inorganic		
Antimony	ND(0.43)	ND(0.44) /ND(0.4)
Arsenic	8.4 (RDC)	8.7 (RDC) /3.8
Beryllium	0.97	0.51 /0.35
Chromium Total	16 J	16 J /12 J
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	65 J	16 J /14 J
Manganese	370 J	780 J /350 J
Nickel	18	19 /13
Selenium	0.86 J	0.75 J /ND(1.6)
Vanadium	30 J	26 J /18 J

RFI-44-01	0.7 - 2 (ft)	4 - 6 (ft)
VOC		
Benzene	ND(0.038)	ND(0.038) /ND(0.037)
cis-1,2-Dichloroethene	0.026 J	ND(0.038 J) /ND(0.037 J)
Ethylbenzene	0.01 J	ND(0.038) /ND(0.037)
Trichloroethene	0.011 J	0.013 J /0.061
Vinyl chloride	ND(0.038)	ND(0.038) /ND(0.037)
SVOC		
Benzo(a)anthracene	0.134 J	ND(0.18) /ND(0.18)
Benzo(a)pyrene	0.163 J	ND(0.18) /ND(0.18 J)
Benzo(b)fluoranthene	0.197	ND(0.18) /ND(0.18 J)
Benzo(g,h,i)perylene	0.102 J	ND(0.18) /ND(0.18 J)
Benzo(k)fluoranthene	0.202	ND(0.18) /ND(0.18 J)
bis(2-Ethylhexyl)phthalate	0.108 J	ND(0.18) /0.123 J
Chrysene	0.174 J	ND(0.18) /ND(0.18)
Indeno(1,2,3-cd)pyrene	0.101 J	ND(0.18) /ND(0.18 J)
PCB		
Total PCBs	ND(0.039)	ND(0.038) /ND(0.038)
Inorganic		
Antimony	ND(0.47 J)	ND(0.48 J) /ND(0.42 J)
Arsenic	4.8	5.2 /5.9
Beryllium	0.2 J	0.14 J /0.11 J
Chromium Total	13	8.1 /6.1
Cyanide (total)	0.19 J	ND(0.2) /0.017 J
Lead	68 J	5.7 J /5.6 J
Manganese	250	300 /230
Nickel	19	8.5 /7.3
Selenium	ND(1.9)	ND(1.9) /ND(1.7)
Vanadium	15	9.2 /9.2

40-4R	1 - 3 (ft)	8 - 10 (ft)	13 - 15 (ft)	15 - 17 (ft)
VOC				
Benzene	ND(0.037) /ND(0.036)	ND(0.037)	0.91	0.83
cis-1,2-Dichloroethene	ND(0.037) /ND(0.036)	ND(0.037)	ND(0.04)	ND(0.04)
Ethylbenzene	ND(0.037) /ND(0.036)	ND(0.037)	3.9	3.8
Trichloroethene	ND(0.037) /ND(0.036)	ND(0.037)	ND(0.04)	ND(0.04)
Vinyl chloride	ND(0.037) /ND(0.036)	ND(0.037)	ND(0.04)	ND(0.04)
SVOC				
Benzo(a)anthracene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
Benzo(a)pyrene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
Benzo(b)fluoranthene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
Benzo(g,h,i)perylene	ND(0.18) /ND(0.18)	ND(0.18 J)	ND(0.2 J)	ND(0.19)
Benzo(k)fluoranthene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
Chrysene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.18) /ND(0.18)	ND(0.18)	ND(0.2 J)	ND(0.19)
PCB				
Total PCBs	ND(0.036) /ND(0.036)	ND(0.037)	ND(0.041)	ND(0.04)
Inorganic				
Antimony	R /R	R	R	R
Arsenic	3.6 /3.9	2.5	2.8	4.7
Beryllium	0.09 /0.099	0.074	0.44	0.25
Chromium Total	5.8 /6.3	4.9	15	12
Cyanide (total)	ND(0.2) /ND(0.2)	0.04 J	ND(0.2)	ND(0.2)
Lead	3.9 /4.6	4.7	6.9	7.1
Manganese	220 /180	150	160	180
Nickel	8.7 /8.1	7.2	13	9.2
Selenium	0.093 /ND(0.071)	ND(0.074)	ND(0.26)	ND(0.09)
Vanadium	8.3 /8.4	6.4	23	15

RFI-16-09	0.7 - 2.7 (ft)	4.7 - 6.6 (ft)
VOC		
Benzene	ND(0.038)	ND(0.037) /ND(0.037)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.037) /ND(0.037)
Ethylbenzene	ND(0.038)	ND(0.037) /ND(0.037)
Trichloroethene	ND(0.038)	ND(0.037) /ND(0.037)
Vinyl chloride	ND(0.038)	ND(0.037) /ND(0.037)
SVOC		
Benzo(a)anthracene	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(a)pyrene	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(b)fluoranthene	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(k)fluoranthene	ND(0.18)	ND(0.18) /ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.18 J)	ND(0.18) /ND(0.18)
Chrysene	ND(0.18)	ND(0.18) /ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.18) /ND(0.18)
PCB		
Total PCBs	ND(0.037)	ND(0.038) /ND(0.037)
Inorganic		
Antimony	R	R /R
Arsenic	3.4	4.1 /3.3
Beryllium	0.11 J	0.12 J /0.15
Chromium Total	4.8	4.8 /4.8
Cyanide (total)	ND(0.2)	ND(0.2) /ND(0.2)
Lead	4.8	5.4 /5
Manganese	220 J	420 J /240 J
Nickel	7.2	8.7 /7.2
Selenium	ND(1.5)	ND(1.4) /ND(1.3)
Vanadium	5.8	5.9 /6.1

RFI-16-02	0.4 - 2 (ft)	8 - 10 (ft)	14 - 16 (ft)
VOC			
Benzene	ND(0.037)	ND(0.043)	ND(0.041)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.043)	ND(0.041 J)
Ethylbenzene	0.012 J	ND(0.043)	ND(0.041)
Trichloroethene	ND(0.037)	ND(0.043)	ND(0.041)
Vinyl chloride	ND(0.037)	ND(0.043)	ND(0.041)
SVOC			
Benzo(a)anthracene	ND(0.18)	ND(0.2)	ND(0.2 J)
Benzo(a)pyrene	ND(0.18)	ND(0.2)	ND(0.2 J)
Benzo(b)fluoranthene	ND(0.18)	ND(0.2)	ND(0.2 J)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.2)	ND(0.2 J)
Benzo(k)fluoranthene	ND(0.18)	ND(0.2)	ND(0.2 J)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2)	ND(0.2 J)
Chrysene	ND(0.18)	ND(0.2)	ND(0.2 J)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.2)	ND(0.2 J)
PCB			
Total PCBs	ND(0.037)	ND(0.042)	ND(0.041)
Inorganic			
Antimony	R	0.18 J	ND(0.44)
Arsenic	1.5	6.6	5.6
Beryllium	0.16 J	1.1	0.27
Chromium Total	11 J	31 J	9.1 J
Cyanide (total)	0.013 J	ND(0.2)	ND(0.2)
Lead	8.6	13	8.2 J
Manganese	120	290	230 J
Nickel	6.2 J	35 J	18
Selenium	ND(1.9)	ND(2)	ND(1.7)
Vanadium	6 J	45 J	12 J

RFI-16-24	1 - 3 (ft)	5 - 7 (ft)
VOC		
Benzene	ND(0.034)	ND(0.033)
cis-1,2-Dichloroethene	ND(0.034)	ND(0.033)
Ethylbenzene	ND(0.034)	ND(0.033)
Trichloroethene	ND(0.034)	ND(0.033)
Vinyl chloride	ND(0.067)	ND(0.067)

RFI-16-06	0.7 - 2 (ft)	4 - 6 (ft)
VOC		
Benzene	ND(0.037)	ND(0.039) /ND(0.039)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.039) /ND(0.039)
Ethylbenzene	ND(0.037)	ND(0.039) /ND(0.039)
Trichloroethene	ND(0.037)	ND(0.039) /ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.039) /ND(0.039)
SVOC		
Benzo(a)anthracene	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(a)pyrene	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(b)fluoranthene	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.19) /ND(0.19)
Benzo(k)fluoranthene	ND(0.18)	ND(0.19) /ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19) /ND(0.19)
Chrysene	ND(0.18)	ND(0.19) /ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.19) /ND(0.19)
PCB		
Total PCBs	ND(0.037)	ND(0.039) /ND(0.039)
Inorganic		
Antimony	R	R /R
Arsenic	4.1	6.6 /5.4
Beryllium	0.16 J	0.49 /0.28
Chromium Total	23 J	18 J /11 J
Cyanide (total)	ND(0.2)	0.028 J /ND(0.2)
Lead	7.6	9.4 /7.1
Manganese	260	590 /390
Nickel	14 J	22 J /12 J
Selenium	ND(1.9)	ND(1.5) /ND(1.8)
Vanadium	11 J	24 J /15 J

RFI-16-11	1 - 3 (ft)	5 - 7 (ft)
VOC		
Benzene	ND(0.038)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.037)
Ethylbenzene	ND(0.038)	ND(0.037)
Trichloroethene	ND(0.038)	ND(0.037)
Vinyl chloride	ND(0.038)	ND(0.037)
SVOC		
Benzo(a)anthracene	5.92	0.0766 J
Benzo(a)pyrene	5.18 (RDC)	0.0816 J
Benzo(b)fluoranthene	5.53	0.115 J
Benzo(g,h,i)perylene	2.08	ND(0.18)
Benzo(k)fluoranthene	5.29	0.0766 J
bis(2-Ethylhexyl)phthalate	ND(1.8)	ND(0.18)
Chrysene	6.4	0.118 J
Indeno(1,2,3-cd)pyrene	2.24	ND(0.18)
PCB		
Total PCBs	ND(0.037)	ND(0.038)
Inorganic		
Antimony	ND(0.37 J)	ND(0.4 J)
Arsenic	4.6	2.1
Beryllium	0.21	0.18 J
Chromium Total	71	14
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	46	85
Manganese	1300 J	310 J
Nickel	79	15
Selenium	0.53 J	ND(0.73)
Vanadium	16	7.7

RFI-04-04	1.3 - 2.1 (ft)	3.1 - 5.1 (ft)	5.1 - 7.1 (ft)
VOC			
Benzene	ND(0.036)	ND(0.037)	ND(0.038) /ND(0.038)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.037)	ND(0.038) /ND(0.038)
Ethylbenzene	ND(0.036)	ND(0.037)	ND(0.038) /ND(0.038)
Trichloroethene	0.11	ND(0.037)	ND(0.038) /ND(0.038)
Vinyl chloride	ND(0.036)	ND(0.037)	ND(0.038) /ND(0.038)
SVOC			
Benzo(a)anthracene	0.0706 J	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(a)pyrene	0.0397 J	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(b)fluoranthene	0.0665 J	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.18)	ND(0.18) /ND(0.18)
Benzo(k)fluoranthene	0.0546 J	ND(0.18)	ND(0.18) /ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.183)	ND(0.18)	ND(0.18) /ND(0.18)
Chrysene	0.0912 J	ND(0.18)	ND(0.18) /ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.18)	ND(0.18) /ND(0.18)
PCB			
Total PCBs	0.085	ND(0.037)	ND(0.037) /ND(0.037)
Inorganic			
Antimony	R	R	R /R
Arsenic	3.4	4.1	3.7 /4.9
Beryllium	0.13 J	0.28	0.11 J /0.28
Chromium Total	21	4.9	3.8 /10
Cyanide (total)	NS	NS	NS
Lead	8.7	7.7	5 /50
Manganese	260	200	150 /400
Nickel	13	9.1	7.3 /20
Selenium	ND(1.5)	ND(1.8)	ND(1.7) /ND(1.6)
Vanadium	5.5	7.5	5.6 /10

RFI-16-10	1.2 - 3.2 (ft)	3.2 - 5.2 (ft)
VOC		
Benzene	ND(0.037)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.037)
Ethylbenzene	ND(0.037)	ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037)
SVOC		
Benzo(a)anthracene	ND(0.18)	ND(0.18)
Benzo(a)pyrene	ND(0.18)	ND(0.18)
Benzo(b)fluoranthene	ND(0.18)	0.124 J
Benzo(g,h,i)perylene	ND(0.18)	ND(0.18)
Benzo(k)fluoranthene	ND(0.18)	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.194)
Chrysene	ND(0.18)	ND(0.18)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.18)
PCB		
Total PCBs	ND(0.037)	ND(0.037)
Inorganic		
Antimony	ND(0.47 J)	ND(0.43 J)
Arsenic	4.9	4.1
Beryllium	0.33	0.19 J
Chromium Total	10	10
Cyanide (total)	0.041 J	0.02 J
Lead	5.4	6.9
Manganese	220 J	280 J
Nickel	11	13
Selenium	ND(0.86)	ND(0.79)
Vanadium	18	11

RFI-16-25	1 - 3 (ft)	8 - 10 (ft)
VOC		
Benzene	ND(0.035)	ND(0.034)
cis-1,2-Dichloroethene	ND(0.035)	ND(0.034)
Ethylbenzene	ND(0.035)	ND(0.034)
Trichloroethene	ND(0.035)	ND(0.034)
Vinyl chloride	ND(0.07)	ND(0.068)

RFI-16-01	1 - 3 (ft)	5 - 7 (ft)	8 - 10 (ft)
VOC			
Benzene	ND(0.036)	ND(0.036)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.036)	ND(0.04)
Ethylbenzene	ND(0.036)	ND(0.036)	ND(0.04)
Trichloroethene	ND(0.036)	ND(0.036)	ND(0.04)
Vinyl chloride	ND(0.036)	ND(0.036)	ND(0.04)
SVOC			
Benzo(a)anthracene	ND(0.17)	ND(0.18)	ND(0.19)
Benzo(a)pyrene	ND(0.17)	ND(0.18)	ND(0.19)
Benzo(b)fluoranthene	ND(0.17)	ND(0.18)	ND(0.19)
Benzo(g,h,i)perylene	ND(0.17)	ND(0.18)	ND(0.19)
Benzo(k)fluoranthene	ND(0.17)	ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.17)	0.417	ND(0.19)
Chrysene	ND(0.17)	ND(0.18)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.17)	ND(0.18)	ND(0.19)
PCB			
Total PCBs	ND(0.036)	ND(0.037)	ND(0.039)
Inorganic			
Antimony	R	R	R
Arsenic	2.6	2.2	17 (RDC)
Beryllium	0.088 J	0.16 J	0.6
Chromium Total	5.5	3.1	14
Cyanide (total)	0.014 J	ND(0.2)	0.1 J
Lead	4.1	3.3	11
Manganese	120	100	540
Nickel	4.9	3.8	22
Selenium	0.5 J	ND(1.5)	0.49 J
Vanadium	4.4	3.7	22

RFI-16-13	1 - 3 (ft)	9 - 11 (ft)
VOC		
Benzene	ND(0.036)	ND(0.042)
cis-1,2-Dichloroethene	ND(0.036)	ND(0.042)
Ethylbenzene	ND(0.036)	ND(0.042)
Trichloroethene	ND(0.036)	ND(0.042)
Vinyl chloride	ND(0.036)	ND(0.042)
SVOC		
Benzo(a)anthracene	0.0746 J	ND(0.2)
Benzo(a)pyrene	0.0826 J	ND(0.2)
Benzo(b)fluoranthene	0.0851 J	ND(0.2)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.2)
Benzo(k)fluoranthene	ND(0.18)	ND(0.2)
bis(2-Ethylhexyl)phthalate	0.0607 J	ND(0.2)
Chrysene	0.103 J	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.2)
PCB		
Total PCBs	ND(0.037)	ND(0.042)
Inorganic		
Antimony	R	R
Arsenic	1.2 J	4.4 J
Beryllium	0.089 J	0.42 J
Chromium Total	6.8 J	14 J
Cyanide (total)	ND(0.2)	0.15 J
Lead	55 J	14 J
Manganese	84 J	220 J
Nickel	9.3	20
Selenium	0.32 J	0.27 J
Vanadium	5.8 J	20 J

RFI-BG-02	0 - 2 (ft)
Inorganic	
Antimony	R
Arsenic	10 J (RDC)
Beryllium	0.67
Chromium Total	22 J
Cyanide (total)	NS
Lead	30 J
Manganese	610
Nickel	22 J
Selenium	0.16 J
Vanadium	36 J

RFI-04-03	0.8 - 2.8 (ft)	7 - 9 (ft)	9 - 11 (ft)
VOC			
Benzene	ND(0.037)	ND(0.041) /ND(0.036)	ND(0.04)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.041) /ND(0.036)	ND(0.04)
Ethylbenzene	ND(0.037)	ND(0.041) /ND(0.036)	ND(0.04)
Trichloroethene	0.046	ND(0.041) /0.037 J	ND(0.04)
Vinyl chloride	ND(0.037)	ND(0.041) /ND(0.036)	ND(0.04)
SVOC			
Benzo(a)anthracene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
Benzo(a)pyrene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
Benzo(b)fluoranthene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
Benzo(g,h,i)perylene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
Benzo(k)fluoranthene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.2) /ND(0.31 J)	ND(0.19)
Chrysene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.18)	ND(0.2) /ND(0.18)	ND(0.19)
PCB			
Total PCBs	ND(0.038)	ND(0.04) /ND(0.037)	ND(0.04)
Inorganic			
Antimony	R	0.42 J /R	R
Arsenic	3.9	6.5 J /5	7
Beryllium	0.21	0.5 J /0.094 J	0.47
Chromium Total	5.9	15 J /4.2 J	16
Cyanide (total)	0.46	4 /ND(0.2)	5.5
Lead	12	11 /7.6	11
Manganese	210	400 J /98 J	650 J
Nickel	9.6	25 J /4.7 J	25
Selenium	ND(1.5)	ND(2) /ND(1.5)	ND(1.8)
Vanadium	6.5	18 J /6.1 J	18

RFI-16-08	1.5 - 3.5 (ft)	7.5 - 9.5 (ft)
VOC		
Benzene	0.86	ND(0.043)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.043)
Ethylbenzene	0.7	ND(0.043)
Trichloroethene	ND(0.039)	ND(0.043)
Vinyl chloride	ND(0.039)	ND(0.043)
SVOC		
Benzo(a)anthracene	0.045 J	ND(0.2)
Benzo(a)pyrene	0.0382 J	ND(0.2 J)
Benzo(b)fluoranthene	ND(0.19 J)	ND(0.2 J)
Benzo(g,h,i)perylene	0.0476 J	ND(0.2 J)
Benzo(k)fluoranthene	ND(0.19 J)	ND(0.2 J)
bis(2-Ethylhexyl)phthalate	ND(0.42)	ND(0.2 J)
Chrysene	0.0503 J	ND(0.2)
Indeno(1,2,3-cd)pyrene	ND(0.19 J)	ND(0.2 J)
PCB		
Total PCBs	ND(0.04)	ND(0.042)
Inorganic		
Antimony	R	R
Arsenic	8.2 (RDC)	10 (RDC)
Beryllium	1.1	0.71
Chromium Total	8	21
Cyanide (total)	0.019 J	0.0077 J
Lead	25	17
Manganese	500 J	770 J
Nickel	17	32
Selenium	ND(1.3)	ND(1.4)
Vanadium	15	27

RFI-04-02	0.7 - 2.7 (ft)	8.7 - 10.7 (ft)
VOC		
Benzene	ND(0.037)	ND(0.038)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038)
Ethylbenzene	ND(0.037)	ND(0.038)
Trichloroethene	ND(0.037)	0.03 J
Vinyl chloride	ND(0.037)	ND(0.038)
SVOC		
Benzo(a)anthracene	0.7	ND(0.19)
Benzo(a)pyrene	0.597	ND(0.19)
Benzo(b)fluoranthene	0.446	ND(0.19)
Benzo(g,h,i)perylene	0.677 J	ND(0.19)
Benzo(k)fluoranthene	0.435	ND(0.19)
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)
Chrysene	0.697	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.516 J	ND(0.19)
PCB		
Total PCBs	ND(0.037)	ND(0.039)
Inorganic		
Antimony	0.26 J	R
Arsenic	2.6	5.8
Beryllium	0.13 J	0.33
Chromium Total	10	16
Cyanide (total)	0.073 J	0.027 J
Lead	32	52
Manganese	200 J	350 J
Nickel	10	36
Selenium	ND(1.7)	ND(1.6)
Vanadium	6.3	14

RFI-BG-01	0 - 2 (ft)
Inorganic	
Antimony	0.028 J
Arsenic	7.2 J
Beryllium	0.43
Chromium Total	17 J
Cyanide (total)	NS
Lead	48 J
Manganese	410
Nickel	15 J
Selenium	ND(0.064)
Vanadium	24 J

RFI-16-07	0.5 - 2.5 (ft)	4.5 - 6.5 (ft)
VOC		
Benzene	ND(0.037)	ND(0.038) /ND(0.039)
cis-1,2-Dichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Ethylbenzene	ND(0.037)	ND(0.038) /ND(0.039)
Trichloroethene	ND(0.037)	ND(0.038) /ND(0.039)
Vinyl chloride	ND(0.037)	ND(0.038) /ND(0.039)
SVOC		
Benzo(a)anthracene	0.059 J	ND(0.19) /ND(0.19)
Benzo(a)pyrene	0.0593 J	ND(0.19) /ND(0.19)
Benzo(b)fluoranthene	0.0555 J	ND(0.19) /ND(0.19)
Benzo(g,h,i)perylene	0.0829 J	ND(0.19) /ND(0.19)
Benzo(k)fluoranthene	0.0486 J	ND(0.19) /ND(0.19)
bis(2-Ethylhexyl)phthalate	0.164 J	ND(0.19) /ND(0.19)
Chrysene	0.0652 J	ND(0.19) /ND(0.19)
Indeno(1,2,3-cd)pyrene	0.0604 J	ND(0.19) /ND(0.19)
PCB		
Total PCBs	ND(0.036)	ND(0.039) /ND(0.039)
Inorganic		
Antimony	R	R /R
Arsenic	3.1	2.5 /2.1
Beryllium	0.12 J	0.097 J /0.086 J
Chromium Total	30	43 /38
Cyanide (total)	0.065 J	0.059 J /0.083 J
Lead	31	4.8 /3.8
Manganese	270 J	370 J /420 J
Nickel	21	28 /43
Selenium	ND(1.4)	ND(1.5) /ND(1.6)
Vanadium	6.8	4 /3.4

RFI-04-01	1 - 3 (ft)	9 - 11 (ft)
VOC		
Benzene	ND(0.035)	ND(0.036)
cis-1,2-Dichloroethene	0.081	ND(0.036)
Ethylbenzene	ND(0.035)	ND(0.036)
Trichloroethene	0.28	0.039
Vinyl chloride	ND(0.035)	ND(0.036)
SVOC		
Benzo(a)anthracene	1.47	ND(0.18)
Benzo(a)pyrene	1.5	ND(0.18)
Benzo(b)fluoranthene	1.4	ND(0.18)
Benzo(g,h,i)perylene	1.87 J	ND(0.18)
Benzo(k)fluoranthene	1.44	ND(0.18)
bis(2-Ethylhexyl)phthalate	ND(0.87)	ND(0.2)
Chrysene	1.85	ND(0.18)
Indeno(1,2,3-cd)pyrene	1.41 J	ND(0.18)
PCB		
Total PCBs	ND(0.036)	ND(0.037)
Inorganic		
Antimony	R	R
Arsenic	2.9	1.4
Beryllium	0.12 J	0.079 J
Chromium Total	33	3
Cyanide (total)	0.073 J	0.02 J
Lead	32	4.2
Manganese	250 J	51 J
Nickel	70	3.1
Selenium	ND(1.6)	ND(1.4)
Vanadium	7.2	4.2

RFI-16-20	1 - 3 (ft)	4 - 6 (ft)
VOC		
Benzene	0.12	ND(0.038)
cis-1,2-Dichloroethene	ND(0.039)	ND(0.038)
Ethylbenzene	ND(0.039)	ND(0.038)
Trichloroethene	ND(0.039)	ND(0.038)
Vinyl chloride	ND(0.039)	ND(0.038)
SVOC		
Benzo(a)anthracene	0.0685 J	ND(0.19)
Benzo(a)pyrene	ND(0.2 J)	ND(0.19)
Benzo(b)fluoranthene	ND(0.2 J)	ND(0.19)
Benzo(g,h,i)perylene	ND(0.2 J)	ND(0.19)
Benzo(k)fluoranthene	ND(0.2 J)	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.0666 J	0.614 J
Chrysene	0.0743 J	ND(0.19)
Indeno(1,2,3-cd)pyrene	ND(0.2 J)	ND(0.19)
PCB		
Total PCBs	ND(0.04)	ND(0.039)
Inorganic		
Antimony	R	R
Arsenic	5.7 J	1.9 J
Beryllium	1.5 J	0.15 J
Chromium Total	11 J	4.9 J
Cyanide (total)	0.55	ND(0.2)
Lead	71 J	2.7 J
Manganese	190 J	79 J
Nickel	34	5.9
Selenium	0.39 J	0.2 J
Vanadium	17 J	7.8 J

RFI-44-06	1.3 - 3.3 (ft)	5.3 - 7.3 (ft)	7.3 - 9.3 (ft)
VOC			
Benzene	ND(0.038)	ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.038)	ND(0.038)	ND(0.039)
Ethylbenzene	ND(0.038)	ND(0.038)	ND(0.039)
Trichloroethene	0.075	ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.038)	ND(0.038)	ND(0.039)
SVOC			
Benzo(a)anthracene	0.227 J	0.0568 J	ND(0.19)
Benzo(a)pyrene	0.24 J	0.0625 J	ND(0.19)
Benzo(b)fluoranthene	0.26 J	0.0481 J	ND(0.19)
Benzo(g,h,i)perylene	0.326 J	0.0568 J	ND(0.19)
Benzo(k)fluoranthene	0.182 J	0.0539 J	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.115 J	ND(0.18)	ND(0.19)
Chrysene	0.252 J	0.0636 J	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.304 J	0.0463 J	ND(0.19)
PCB			
Total PCBs	ND(0.038)	ND(0.038)	ND(0.038)
Inorganic			
Antimony	ND(0.16 J)	ND(0.19 J)	0.2 J
Arsenic	6.3	2.3	4.8
Beryllium	0.23	0.12	0.21 J
Chromium Total	18 J	6.4	7.5
Cyanide (total)	0.38	6.7	29 D (RDC)
Lead	43 J	18	6.6
Manganese	360	220	380
Nickel	24 J	8.3	11
Selenium	ND(0.064)	ND(0.076)	ND(0.076)
Vanadium	18 J	7.4	10

RFI-44-02	0.7 - 2 (ft)	2 - 4 (ft)	4 - 6 (ft)
VOC			
Benzene	ND(0.036)	ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.036 J)	ND(0.038)	ND(0.039)
Ethylbenzene	ND(0.036)	ND(0.038)	ND(0.039)
Trichloroethene	ND(0.036)	0.036 J	0.043
Vinyl chloride	ND(0.036)	ND(0.038)	ND(0.039)
SVOC			
Benzo(a)anthracene	0.4426 J	0.117 J	1.175 J
Benzo(a)pyrene	0.549 J	ND(0.18 J)	1.225 J
Benzo(b)fluoranthene	0.55 J	0.233 J	1.309 J
Benzo(g,h,i)perylene	ND(0.18 J)	0.223 J	0.374 J
Benzo(k)fluoranthene	0.36 J	0.22 J	1.261 J
bis(2-Ethylhexyl)phthalate	0.196 J	ND(0.18)	0.405 J
Chrysene	0.548 J	0.156 J	1.244 J
Indeno(1,2,3-cd)pyrene	0.277 J	0.186 J	0.456 J
PCB			
Total PCBs	ND(0.037)	0.48	0.019 J
Inorganic			
Antimony	ND(0.42 J)	ND(0.38 J)	ND(0.41 J)
Arsenic	2.6	1.8	3.8
Beryllium	0.11 J	0.098 J	0.48
Chromium Total	9	20	39
Cyanide (total)	0.087 J	0.11 J	0.095 J
Lead	6.2 J	6.5 J	63 J
Manganese	110	120	980
Nickel	8.1	12	20
Selenium	ND(1.7)	ND(1.5)	ND(1.6)
Vanadium	7.5	5.5	12

RFI-44-03	0.9 - 2 (ft)	6 - 8 (ft)
VOC		
Benzene	ND(0.036)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.036 J)	ND(0.037)
Ethylbenzene	ND(0.036)	ND(0.037)
Trichloroethene	ND(0.036)	ND(0.037)
Vinyl chloride	ND(0.036)	ND(0.037)
SVOC		
Benzo(a)anthracene	ND(0.89)	ND(0.91)
Benzo(a)pyrene	ND(0.89 J)	ND(0.91 J)
Benzo(b)fluoranthene	ND(0.89 J)	ND(0.91 J)
Benzo(g,h,i)perylene	ND(0.89 J)	ND(0.91 J)
Benzo(k)fluoranthene	ND(0.89 J)	ND(0.91 J)
bis(2-Ethylhexyl)phthalate	ND(0.89)	ND(0.91)
Chrysene	ND(0.89)	ND(0.91)
Indeno(1,2,3-cd)pyrene	ND(0.89 J)	ND(0.91 J)
PCB		
Total PCBs	ND(0.036)	ND(0.038)
Inorganic		
Antimony	ND(0.41 J)	ND(0.41 J)
Arsenic	4.4	5
Beryllium	0.13 J	0.14 J
Chromium Total	5.2	5.5
Cyanide (total)	ND(0.2)	0.011 J
Lead	4.8 J	4.1 J
Manganese	140	140
Nickel	7.3	8.3
Selenium	ND(1.6)	ND(1.6)
Vanadium	9.2	10

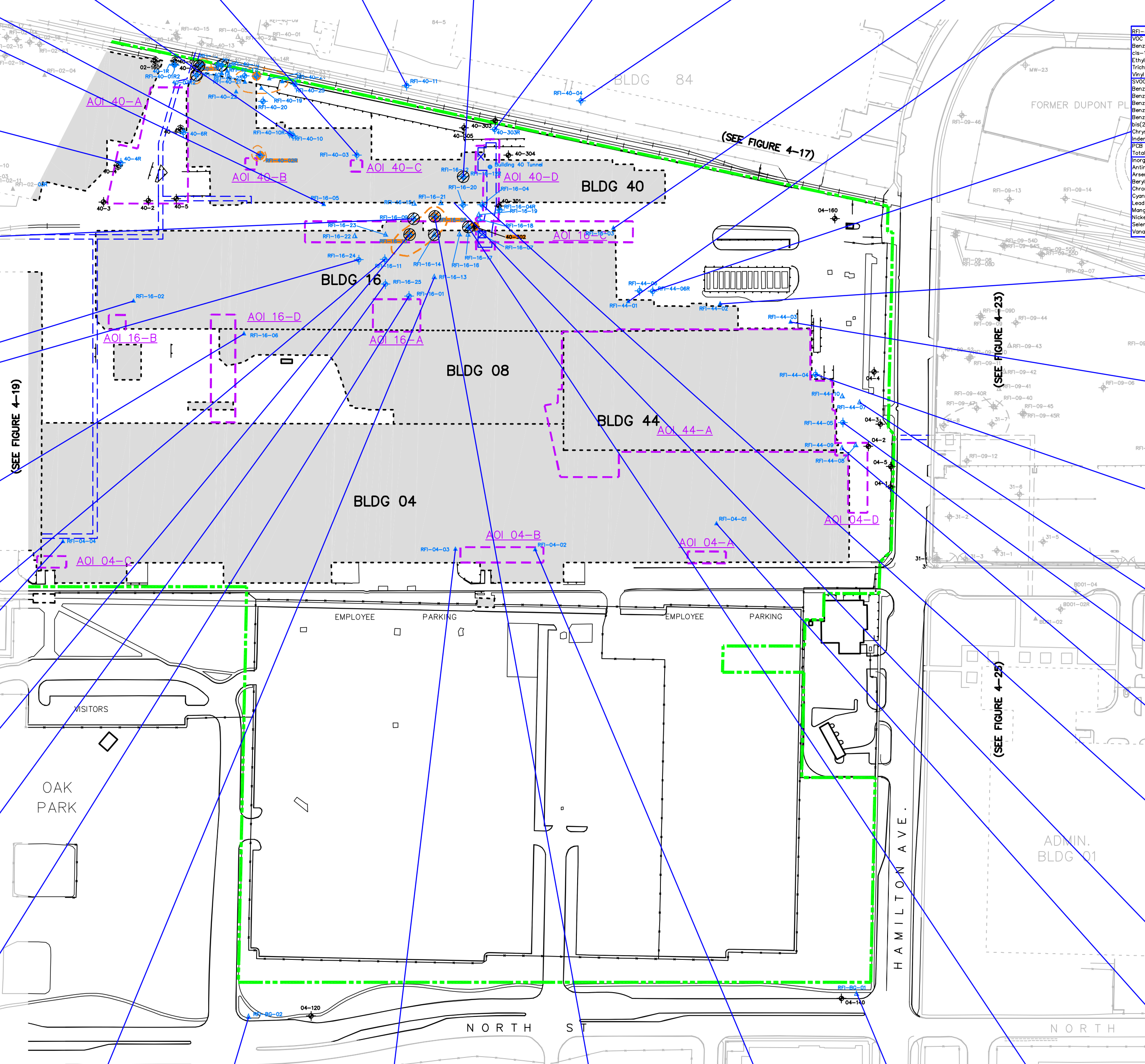
RFI-44-04	0.9 - 2 (ft)	2 - 4 (ft)
VOC		
Benzene	ND(0.037)	ND(0.037)
cis-1,2-Dichloroethene	ND(0.037 J)	ND(0.037 J)
Ethylbenzene	ND(0.037)	ND(0.037)
Trichloroethene	ND(0.037)	ND(0.037)
Vinyl chloride	ND(0.037)	ND(0.037)
SVOC		
Benzo(a)anthracene	ND(1.8 J)	ND(1.8)
Benzo(a)pyrene	ND(1.8 J)	ND(1.8)
Benzo(b)fluoranthene	ND(1.8 J)	ND(1.8)
Benzo(g,h,i)perylene	ND(1.8 J)	ND(1.8)
Benzo(k)fluoranthene	ND(1.8 J)	ND(1.8)
bis(2-Ethylhexyl)phthalate	ND(1.8 J)	ND(1.8)
Chrysene	ND(1.8)	ND(1.8)
Indeno(1,2,3-cd)pyrene	ND(1.8 J)	ND(1.8)
PCB		
Total PCBs	ND(0.037)	ND(0.037)
Inorganic		
Antimony	R	R
Arsenic	4.4	3.7
Beryllium	0.19 J	0.12 J
Chromium Total	18	13
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	9.2 J	4.4 J
Manganese	320	180
Nickel	12 J	10 J
Selenium	ND(1.7 J)	ND(1.6 J)
Vanadium	12	9.6

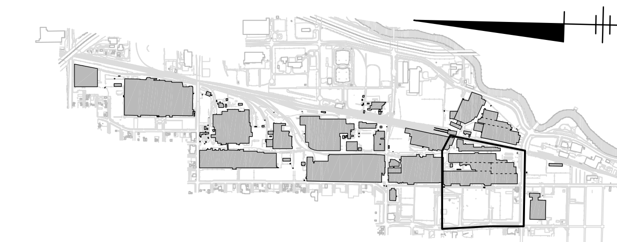
RFI-44-07	0.7 - 2.7 (ft)
Inorganic	
Antimony	NS
Arsenic	NS
Beryllium	NS
Chromium Total	NS
Cyanide (total)	NS
Lead	NS
Manganese	1500
Nickel	NS
Selenium	NS
Vanadium	NS

RFI-44-05	0.9 - 2 (ft)	2 - 4 (ft)	8 - 10 (ft)	10 - 12 (ft)
VOC				
Benzene	ND(0.04)	ND(0.037)	ND(0.039) /ND(0.038)	ND(0.039)
cis-1,2-Dichloroethene	ND(0.04 J)	ND(0.037 J)	ND(0.039 J) /ND(0.038 J)	ND(0.039 J)
Ethylbenzene	ND(0.04)	ND(0.037)	ND(0.039) /ND(0.038)	ND(0.039)
Trichloroethene	ND(0.04)	ND(0.037)	ND(0.039) /ND(0.038)	ND(0.039)
Vinyl chloride	ND(0.04)	ND(0.037)	ND(0.039) /ND(0.038)	ND(0.039)
SVOC				
Benzo(a)anthracene	0.0668 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(a)pyrene	0.0761 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	0.0896 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(g,h,i)perylene	0.0964 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
Benzo(k)fluoranthene	0.0705 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	0.121 J	ND(1.8)	ND(0.19) /0.0557 J	ND(0.19)
Chrysene	0.0806 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	0.0825 J	ND(1.8)	ND(0.19) /ND(0.19)	ND(0.19)
PCB				
Total PCBs	0.063	ND(0.037)	ND(0.039) /ND(0.038)	ND(0.039)
Inorganic				
Antimony	0.34 J	R	R /R	R
Arsenic	9.9 (RDC)	4.3	4.5 /4.3	4.5
Beryllium	1.8	0.14 J	0.39 /0.41	0.52
Chromium Total	210	11	13 /16	18
Cyanide (total)	0.035 J	0.01 J	ND(0.2) /0.035 J	0.012 J
Lead	57 J	6.1 J	10 J /7.7 J	8 J
Manganese	5000 (IPSIC,RPSIC)	200	340 /250	310
Nickel	44 J	11 J	15 J /16 J	19 J
Selenium	0.73 J	ND(1.5 J)	ND(1.5 J) /ND(1.7 J)	ND(1.3 J)
Vanadium	18	11	21 /23	27

RFI-44-09	2 - 3.5 (ft)	0.9 - 2.9 (ft)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Beryllium	NS	NS
Chromium Total	NS	NS
Cyanide (total)	NS	NS
Lead	NS	NS
Manganese	260	150
Nickel	NS	NS
Selenium	NS	NS
Vanadium	NS	NS

RFI-16-04	0.7 - 2 (ft)	4 - 6 (ft)
VOC		
Benzene	ND(0.036)	0.023 J
cis-1,2-Dichloroethene	ND(0.036 J)	ND(0.038 J)
Ethylbenzene	ND(0.036)	ND(0.038)
Trichloroethene	ND(0.036)	0.04
Vinyl chloride	ND(0.036)	ND(0.038)
SVOC		
Benzo(a)anthracene	0.651	0.276
Benzo(a)pyrene	0.811	0.327 J
Benzo(b)fluoranthene	0.761	0.324 J
Benzo(g,h,i)perylene	0.911 J	0.292 J
Benzo(k)fluoranthene	0.58	0.312 J
bis(2-Ethylhexyl)phthalate	ND(0.18)	ND(0.19)
Chrysene	0.771	0.324
Indeno(1,2,3-cd)pyrene	0.736 J	0.235 J
PCB		
Total PCBs	0.097	1.13
Inorganic		
Antimony	ND(0.38)	ND(0.31)
Arsenic	3.5	2.4
Beryllium	0.17 J	0.21
Chromium Total	7.7 J	6 J
Cyanide (total)	ND(0.2)	ND(0.2)
Lead	12 J	22 J
Manganese	180 J	140 J
Nickel	8.1	8
Selenium	ND(1.5)	ND(1.2)
Vanadium	9.9 J	8.1 J





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. D-CONCENTRATION BASE ON A DILUTED SAMPLE ANALYSIS.
11. R-RESULT REJECTED DURING DATA VALIDATION.
12. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.
13. RPSIC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

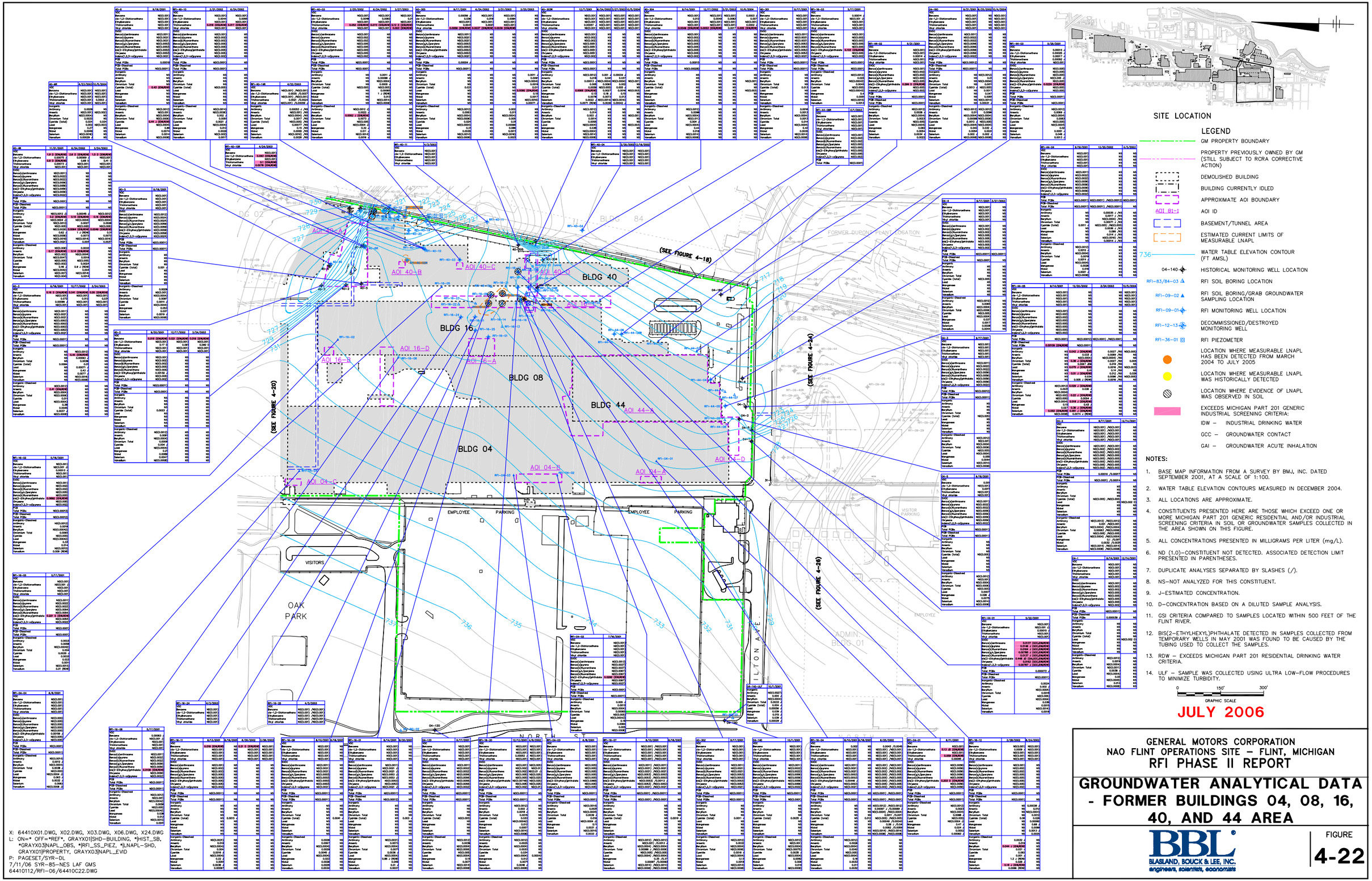
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES DJP GMS
64410112/RFI-06/64410C21.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FORMER BUILDINGS 04, 08, 16, 40, AND 44 AREA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
4-21



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI #1-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDW — INDUSTRIAL DRINKING WATER
  - GCC — GROUNDWATER CONTACT
  - GAI — GROUNDWATER ACUTE INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
12. BIS(2–ETHYLHEXYL)PHTHALATE DETECTED IN SAMPLES COLLECTED FROM TEMPORARY WELLS IN MAY 2001 WAS FOUND TO BE CAUSED BY THE TUBING USED TO COLLECT THE SAMPLES.
13. RDW – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
14. ULF – SAMPLE WAS COLLECTED USING ULTRA LOW–FLOW PROCEDURES TO MINIMIZE TURBIDITY.

0 150' 300'
GRAPHIC SCALE

JULY 2006

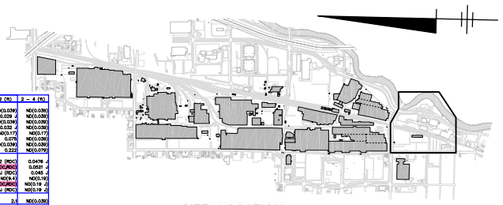
X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD–BUILDING, *|HIST_SB, *GRAYX01|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL–SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVD
P: PAGESET/SYR–DL
7/11/06 SYR–85–NES LAF GMS
64410112/RFI–06/64410C22.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FORMER BUILDINGS 04, 08, 16, 40, AND 44 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-22



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- FORMER RIVER GAUGE LOCATION
- CURRENT RIVER GAUGE LOCATION
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDC – INDUSTRIAL DIRECT CONTACT
  - IPSIC – INDUSTRIAL PARTICULATE SOIL INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ALL DEPTH IN FEET.
7. ND (0.039)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
8. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
9. NS–NOT ANALYZED FOR THIS CONSTITUENT.
10. J–ESTIMATED CONCENTRATION.
11. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
12. R–RESULT REJECTED DURING DATA VALIDATION.
13. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTRACT CRITERIA
14. RPSIC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL PARTICULATE SOIL INHALATION CRITERIA.
15. RSVIA – EXCEEDS MICHIGAN PART 201 RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - FORMER BUILDING 09 AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-23

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD–BUILDING, *|HIST_SB*
GRAYX03|NAPL–, *|RFI_SS_PIEZ, *|LNAPL–SHD,
GRAYX01|PROPERTY
P: PAGESET/SYR–DL
7/11/06 SYR–85–NES LAF GMS
64410112/RFI–06/64410C23.DWG

RFI-09-13	10/3/2001	6/26/2002	3/26/2003	10/4/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Benzene	0.28 D (GSI,IDW,RDW)	0.28 D (GSI,IDW,RDW)	0.45 D (GSI,IDW,RDW)	1.21 (GSI,IDW,RDW)
Carbon tetrachloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Ethylbenzene	0.0046	0.0053	0.0048	0.003 J
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.05)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.01)
Xylenes (total)	0.0414 (GSI)	0.04 (GSI)	0.0405 (GSI)	0.058 J (GSI)
Inorganic				
Antimony	NS	ND(0.0012)	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	ND(0.0014)	NS	ND(0.005)
Inorganic-Dissolved				
Antimony	NS	ND(0.0012)	NS	NS
Arsenic	NS	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	ND(0.0024)	NS	NS

RFI-09-46	12/19/2002	4/1/2003	10/5/2004
VOC			
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)
Benzene	0.7 D (GSI,IDW,RDW) /0.68 D (GSI,IDW,RDW)	0.5 D (GSI,IDW,RDW)	0.049 (IDW,RDW)
Carbon tetrachloride	ND(0.001 J) /ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	0.0019 /0.0018	0.0016	0.0004 J
Methylene chloride	ND(0.005) /ND(0.005)	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	0.0532 (GSI) /0.0508 (GSI)	0.0447 (GSI)	0.019 J
Inorganic			
Antimony	ND(0.0012) /ND(0.0012)	NS	NS
Arsenic	0.0022 J /0.002 J	NS	NS
Lead	0.00048 J /ND(0.0004)	NS	NS
Manganese	0.065 J /0.059 J	NS	NS
Selenium	ND(0.0016) /ND(0.0016)	NS	ND(0.005)

MW-23	2/27/2002	6/25/2002	3/20/2003	10/4/2004
VOC				
1,1,1-Trichloroethane	ND(0.001 J)	NS	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	NS	ND(0.002)	ND(0.001)
Inorganic				
Antimony	NS	ND(0.0012)	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	0.0007 J	NS	ND(0.005)

RFI-09-14	10/3/2001	6/26/2002	3/31/2003	10/4/2004
VOC				
1,1,1-Trichloroethane	ND(0.001)	NS	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	NS	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	NS	ND(0.002)	ND(0.001)
Inorganic				
Antimony	NS	0.00071 J	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	ND(0.0025)	NS	ND(0.005)
Inorganic-Dissolved				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS

MW-22	2/27/2002	6/25/2002	3/20/2003
VOC			
1,1,1-Trichloroethane	ND(0.001 J)	NS	ND(0.001)
Benzene	ND(0.001)	NS	ND(0.001)
Carbon tetrachloride	ND(0.001)	NS	ND(0.001)
Ethylbenzene	ND(0.001)	NS	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)
Trichloroethene	ND(0.001)	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)
Xylenes (total)	ND(0.002)	NS	ND(0.002)
Inorganic			
Antimony	NS	ND(0.0012)	NS
Arsenic	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Selenium	NS	0.00073 J	NS

RFI-09-55S	4/8/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.0005 J
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.01
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.013 J

MW-21	3/20/2003
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)

RFI-09-55D	4/8/2005
VOC	
1,1,1-Trichloroethane	ND(0.01)
Benzene	0.84 (IDW,RDW)
Carbon tetrachloride	ND(0.01)
Ethylbenzene	0.07
Methylene chloride	0.007 J (IDW,RDW)
Trichloroethene	ND(0.01)
Vinyl chloride	ND(0.01)
Xylenes (total)	0.35 J

RFI-09-07	6/21/2002	10/5/2004
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
Benzene	0.052 J (IDW,RDW)	0.007 (IDW,RDW)
Carbon tetrachloride	ND(0.001)	ND(0.001)
Ethylbenzene	0.062 J	0.018
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	0.0719 J	0.015 J
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.0001)	NS
Inorganic		
Antimony	0.00058 J	NS
Arsenic	0.002	NS
Lead	0.00096	NS
Manganese	0.044	NS
Selenium	0.00087 J	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	0.0016	NS
Lead	ND(0.0004)	NS
Manganese	0.032	NS
Selenium	ND(0.0014)	NS

MW-24	2/28/2002	6/26/2002	3/20/2003
VOC			
1,1,1-Trichloroethane	ND(0.001 J)	NS	ND(0.001)
Benzene	ND(0.001)	NS	ND(0.001)
Carbon tetrachloride	ND(0.001)	NS	ND(0.001)
Ethylbenzene	ND(0.001)	NS	ND(0.001)
Methylene chloride	ND(0.005)	NS	ND(0.005)
Trichloroethene	ND(0.001)	NS	ND(0.001)
Vinyl chloride	ND(0.001)	NS	ND(0.001)
Xylenes (total)	ND(0.002)	NS	ND(0.002)
Inorganic			
Antimony	NS	0.00059 J	NS
Arsenic	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Selenium	NS	ND(0.0014)	NS

RFI-09-08	9/14/2001	6/21/2002	3/21/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001 J)	ND(0.001)
Benzene	0.27 D (IDW,RDW)	0.0089 (IDW,RDW)	0.2 D (IDW,RDW)
Carbon tetrachloride	ND(0.001)	ND(0.001 J)	ND(0.001)
Ethylbenzene	0.062	0.0011	0.097 D
Methylene chloride	ND(0.005)	ND(0.005)	0.0074 (IDW,RDW)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	0.267	0.00064 J	0.117
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS
Dibenz(a,h)anthracene	ND(0.002)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.00016)	NS	NS
PCB-Dissolved			
Total PCBs	0.000047 J	NS	NS
Inorganic			
Antimony	NS	0.00039 J	NS
Arsenic	NS	0.0025	NS
Lead	NS	0.0014	NS
Manganese	NS	0.058	NS
Selenium	NS	0.00068 J	NS
Inorganic-Dissolved			
Antimony	ND(0.0012)	NS	NS
Arsenic	0.0075	NS	NS
Lead	0.0021	NS	NS
Manganese	0.13	NS	NS
Selenium	0.052 (IDW,RDW)	NS	NS

RFI-09-54S	4/7/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.006 (IDW,RDW)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.002
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.003 J

RFI-09-54D	4/8/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.033 (IDW,RDW)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	0.0003 J
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.0005 J

RFI-09-44	3/21/2003	10/5/2004
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.001)
Inorganic		
Antimony	0.00037 J	NS
Arsenic	0.0017 J	ND(0.002)
Lead	0.00033 J	ND(0.003)
Manganese	0.3	NS
Selenium	ND(0.0016)	NS

RFI-09-08D	4/7/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.094 (IDW,RDW)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.164
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.362 J

RFI-09-09	9/17/2001	6/21/2002	3/21/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	0.00052 J	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	0.00092 J	ND(0.002)	ND(0.002)
SVOC			
Benzo(a)anthracene	ND(0.0011)	NS	NS
Benzo(a)pyrene	ND(0.0021)	NS	NS
Benzo(b)fluoranthene	ND(0.0021)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS	NS
Dibenz(a,h)anthracene	ND(0.0021)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS	NS
PCB			
Total PCBs	0.000095 J	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.0001)	NS	NS
Inorganic			
Antimony	NS	0.00051 J	NS
Arsenic	NS	0.003	NS
Lead	NS	0.0028	NS
Manganese	NS	0.89 (RDW)	NS
Selenium	NS	0.00074 J	NS
Inorganic-Dissolved			
Antimony	ND(0.0012)	0.0021	NS
Arsenic	0.0024	0.0021	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	0.81	0.71	NS
Selenium	ND(0.0014)	0.0017 J	NS

RFI-09-09D	4/7/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.0004 J
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.0007 J
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.001 J

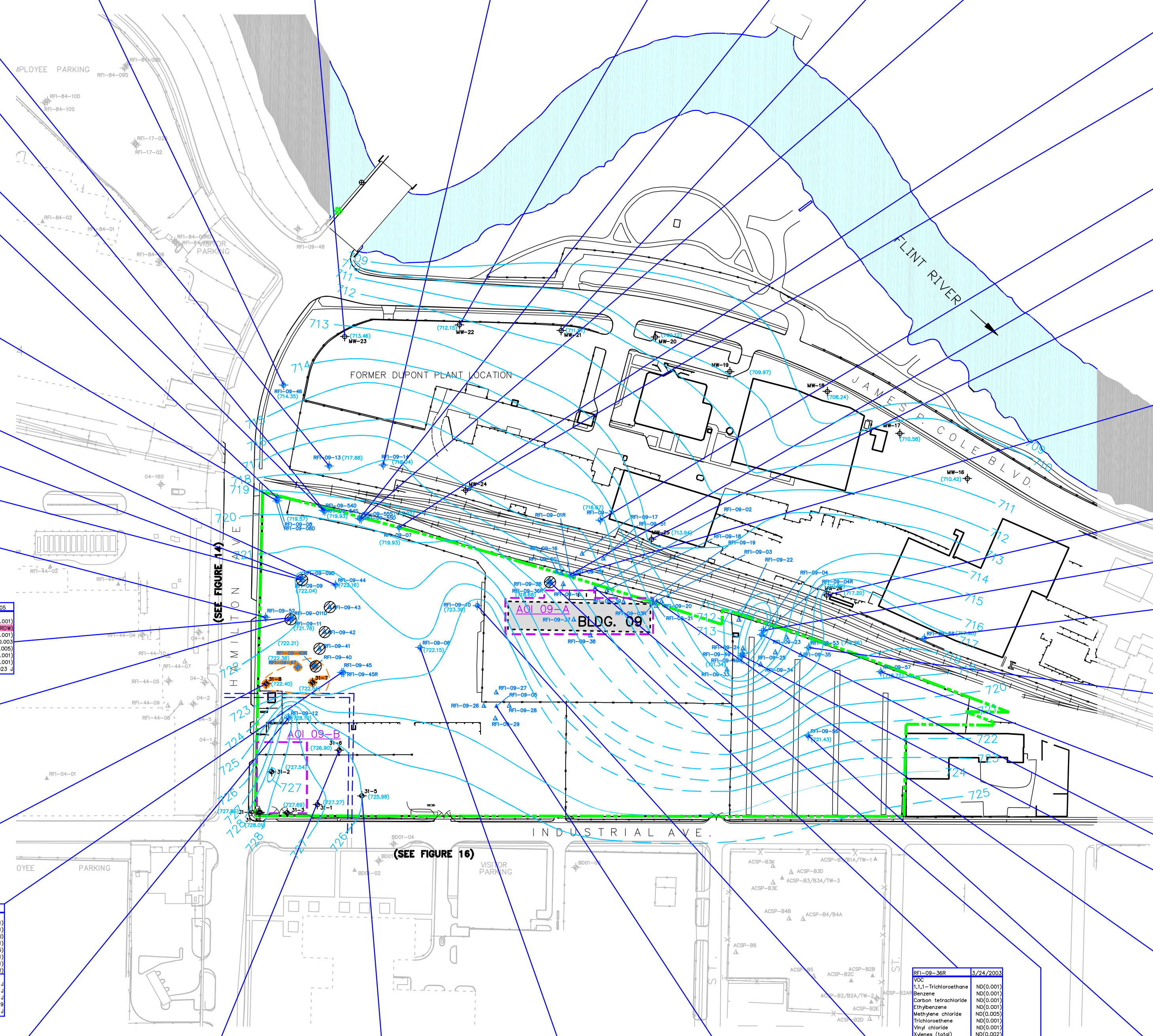
RFI-09-52	9/15/2003
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)

RFI-09-11	9/17/2001	6/21/2002	3/21/2003
VOC			
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)	ND(0.001 J)	ND(0.001)
Benzene	0.8 D (IDW,RDW) /0.83 D (IDW,RDW)	1.1 D (IDW,RDW)	1 D (IDW,RDW)
Carbon tetrachloride	ND(0.001) /ND(0.001)	ND(0.001 J)	ND(0.001)
Ethylbenzene	0.065 /0.087	0.075	0.026
Methylene chloride	ND(0.005) /ND(0.005)	ND(0.005)	0.0067 (IDW,RDW)
Trichloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	0.173 /0.27	0.088	0.066
SVOC			
Benzo(a)anthracene	ND(0.001) /ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002) /ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002) /ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.005)	NS	NS
Dibenz(a,h)anthracene	ND(0.002) /ND(0.002)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.002)	NS	NS
PCB			
Total PCBs	0.00024 /0.00026	NS	NS
PCB-Dissolved			
Total PCBs	0.00026 /0.0003	NS	NS
Inorganic-Dissolved			
Antimony	ND(0.0012) /ND(0.0012)	NS	NS
Arsenic	0.0035 /0.0026	NS	NS
Lead	0.00042 /ND(0.0004)	NS	NS
Manganese	0.28 /0.21	NS	NS
Selenium	ND(0.0014) /ND(0.0014)	NS	NS

RFI-09-11D	4/7/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.19 (IDW,RDW)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.003
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.023 J

31-8	9/17/2001	6/24/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001) /ND(0.001)
Benzene	0.93 D (IDW,RDW)	0.7 D (IDW,RDW) /0.72 D (IDW,RDW)
Carbon tetrachloride	ND(0.001)	ND(0.001) /ND(0.001)
Ethylbenzene	0.61 D	1 D (IDW,RDW) /1 D (IDW,RDW)
Methylene chloride	ND(0.005)	ND(0.005) /ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001) /ND(0.001)
Xylenes (total)	1.17	1.69 /1.7
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.00011)	NS
PCB-Dissolved		
Total PCBs	ND(0.00011)	NS
Inorganic		
Antimony	NS	0.00041 J /ND(0.0012)
Arsenic	NS	0.022 /0.018
Lead	NS	0.0017 /0.0014
Manganese	NS	0.17 J /0.13 J
Selenium	NS	ND(0.0014) /ND(0.0014)
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	0.016	NS
Lead	0.0058 (IDW,RDW)	NS
Manganese	0.16	NS
Selenium	ND(0.0014)	NS

RFI-09-45	12/20/2002
VOC	
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
Carbon tetrachloride	ND(0.001 J) /ND(0.001 J)
Ethylbenzene	ND(0.001) /ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
Xylenes (total)	ND(0.002) /ND(0.002)
Inorganic	
Antimony	0.0011 J /0.0012 J
Arsenic	0.002 J /0.0024 J
Lead	0.0009 J /0.00096 J
Manganese	0.091 /0.079
Selenium	0.0042 J /0.0066 J



RFI-09-12	12/13/2001	6/21/2002	3/21/2003
VOC			
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	0.01 (IDW,RDW)	0.013 J (IDW,RDW)	0.0036
Carbon tetrachloride	ND(0.001)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.002)
SVOC			
Benzo(a)anthracene	ND(0.001)	NS	NS
Benzo(a)pyrene	ND(0.002)	NS	NS
Benzo(b)fluoranthene	ND(0.002)	NS	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS	NS
Dibenz(a,h)anthracene	ND(0.002)	NS	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS	NS
PCB			
Total PCBs	ND(0.00011)	NS	NS
PCB-Dissolved			
Total PCBs	ND(0.00011)	NS	NS
Inorganic			
Antimony	ND(0.0012)	ND(0.0012)	ND(0.0012)
Arsenic	0.061 J (IDW,RDW)	0.049	0.056 (IDW,RDW)
Lead	0.0019 J	0.00013 J	0.00023 J
Manganese	0.11 J	0.065	0.05
Selenium	ND(0.0045)	ND(0.0014)	ND(0.0016)
Inorganic-Dissolved			
Antimony	ND(0.0012)	ND(0.0012)	NS
Arsenic	0.043	0.04	NS
Lead	ND(0.0004)	ND(0.0004)	NS
Manganese	0.069	0.051	NS
Selenium	ND(0.0014)	ND(0.0014)	NS

31-6	9/17/2001	6/21/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001 J)
Benzene	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001 J)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)
SVOC		
Benzo(a)anthracene	ND(0.0011)	NS
Benzo(a)pyrene	ND(0.0021)	NS
Benzo(b)fluoranthene	ND(0.0021)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0053)	NS
Dibenz(a,h)anthracene	ND(0.0021)	NS
Indeno(1,2,3-cd)pyrene	ND(0.0021)	NS
PCB		
Total PCBs	ND(0.00011)	NS
PCB-Dissolved		
Total PCBs	ND(0.00011)	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	ND(0.001)	NS
Lead	ND(0.0004)	NS
Manganese	0.0045	NS
Selenium	ND(0.0014)	NS

31-5	9/17/2001	6/21/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Carbon tetrachloride	ND(0.001)	NS
Ethylbenzene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
Xylenes (total)	ND(0.002)	NS
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	0.00029	ND(0.00011)
PCB-Dissolved		
Total PCBs	0.00169 (IDW,RDW)	ND(0.00011)
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	ND(0.001)	NS
Lead	ND(0.0004)	NS
Manganese	0.005	NS
Selenium	ND(0.0014)	NS

RFI-09-06	9/13/2001	6/21/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001 J)
Benzene	0.014 (IDW,RDW)	0.012 (IDW,RDW)
Carbon tetrachloride	ND(0.001)	ND(0.001 J)
Ethylbenzene	0.005	0.0045
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	0.0184	0.0182
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	ND(0.00014)	NS
Inorganic		
Antimony	ND(0.0012)	NS
Arsenic	0.016	NS
Lead	0.003	NS
Manganese	0.2	NS
Selenium	0.0019	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	0.017	NS
Lead	ND(0.0004)	NS
Manganese	0.14	NS
Selenium	0.014	NS

RFI-09-05	5/29/2001
VOC	
1,1,1-Trichloroethane	ND(0.001 J)
Benzene	0.00013 J
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.00019 J
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.00033 J
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.107 (IDW,RDW)
Dibenz(a,h)anthracene	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
PCB	
Total PCBs	0.00012
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	ND(0.001)
Lead	ND(0.0004)
Manganese	0.078
Selenium	0.014 J

RFI-09-10	9/13/2001	6/21/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	NS
Benzene	ND(0.001)	NS
Carbon tetrachloride	ND(0.001)	NS
Ethylbenzene	ND(0.001)	NS
Methylene chloride	ND(0.005)	NS
Trichloroethene	ND(0.001)	NS
Vinyl chloride	ND(0.001)	NS
Xylenes (total)	ND(0.002)	NS
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.00014)	NS
PCB-Dissolved		
Total PCBs	ND(0.00012)	NS
Inorganic		
Antimony	0.0031 J	0.003
Arsenic	0.0028	0.002
Lead	0.0013	0.0019
Manganese	0.13	0.11
Selenium	0.0014	0.0005 J
Inorganic-Dissolved		
Antimony	0.0068 J (IDW,RDW)	NS
Arsenic	0.0024	NS
Lead	ND(0.00066)	NS
Manganese	0.11	NS
Selenium	ND(0.0056)	NS

RFI-09-36R	3/24/2003
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)

RFI-09-02	5/30/2001
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	0.0019
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.00339 J
Dibenz(a,h)anthracene	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
PCB	
Total PCBs	0.00014
PCB-Dissolved	
Total PCBs	ND(0.0001)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0015
Lead	0.026 (IDW,RDW)
Manganese	0.049
Selenium	0.007

RFI-09-56	7/6/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	0.001
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.0003 J
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.0014 J

RFI-09-03	5/29/2001
VOC	
1,1,1-Trichloroethane	ND(0.001 J)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	0.00011 J
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	0.00012 J
SVOC	
Benzo(a)anthracene	ND(0.005)
Benzo(a)pyrene	ND(0.005)
Benzo(b)fluoranthene	ND(0.005)
bis(2-Ethylhexyl)phthalate	0.863 D (GAI,GCC,IDW,RDW)
Dibenz(a,h)anthracene	ND(0.005)
Indeno(1,2,3-cd)pyrene	ND(0.005)
PCB	
Total PCBs	0.000046 J
PCB-Dissolved	
Total PCBs	ND(0.00011)
Inorganic-Dissolved	
Antimony	ND(0.0012)
Arsenic	0.0033 J
Lead	0.00056 J
Manganese	0.88 (RDW)
Selenium	ND(0.0014)

RFI-09-32	3/6/2002	6/26/2002	3/31/2003
VOC			
1,1,1-Trichloroethane	ND(0.045)	ND(0.001)	ND(0.001)
Benzene	ND(0.045)	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.045)	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.045)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.19)	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.045)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.045)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.089)	ND(0.002)	ND(0.002)
Inorganic			
Antimony	0.016 J (IDW,RDW)	ND(0.0012)	0.00098 J
Arsenic	NS	NS	0.0047
Lead	NS	0.00055 J	ND(0.0004)
Manganese	NS	NS	0.14 J
Selenium	NS	ND(0.0014)	ND(0.0016)

RFI-09-01R	3/24/2003
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	0.0015
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.002)

MW-25	6/26/2002	3/21/2003	10/5/2004	2/25/2005
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	ND(0.001)	NS
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Carbon tetrachloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	NS
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.001)	NS
Inorganic				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	0.0003 J	NS	NS	ND(0.001)
Manganese	0.1	NS	NS	NS
Selenium	NS	NS	NS	NS
Inorganic-Dissolved				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	ND(0.0004)	NS	NS	ND(0.001)
Manganese	0.07	NS	NS	NS
Selenium	NS	NS	NS	NS

RFI-09-01	9/14/2001	6/24/2002
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	0.0015	0.0013
Vinyl chloride	0.0038 (IDW,RDW)	0.0022 (IDW,RDW)
Xylenes (total)	ND(0.002)	ND(0.002)
SVOC		
Benzo(a)anthracene	ND(0.001)	NS
Benzo(a)pyrene	ND(0.002)	NS
Benzo(b)fluoranthene	ND(0.002)	NS
bis(2-Ethylhexyl)phthalate	ND(0.005)	NS
Dibenz(a,h)anthracene	ND(0.002)	NS
Indeno(1,2,3-cd)pyrene	ND(0.002)	NS
PCB		
Total PCBs	ND(0.0001)	NS
PCB-Dissolved		
Total PCBs	0.00006 J	NS
Inorganic-Dissolved		
Antimony	ND(0.0012)	NS
Arsenic	0.0098	NS
Lead	0.0014	NS
Manganese	0.064	NS
Selenium	0.011	NS

MW-26	6/26/2002	3/24/2003	10/5/2004	2/28/2005
VOC				
1,1,1-Trichloroethane	0.0031	0.0018	0.003	NS
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Carbon tetrachloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Ethylbenzene	0.00057 J	ND(0.001)	ND(0.001)	NS
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	NS
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.001)	NS
Inorganic				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	NS	0.004
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS
Inorganic-Dissolved				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	NS	0.002
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS

RFI-09-58	7/22/2005
VOC	
1,1,1-Trichloroethane	ND(0.001) /ND(0.001)
Benzene	ND(0.001) /ND(0.001)
Carbon tetrachloride	ND(0.001) /ND(0.001)
Ethylbenzene	ND(0.001) /ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)
Trichloroethene	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)
Xylenes (total)	ND(0.001) /ND(0.001)

RFI-09-04	11/28/2001
VOC	
1,1,1-Trichloroethane	0.0016 /0.0017
Benzene	ND(0.001) /ND(0.001)
Carbon tetrachloride	ND(0.001) /ND(0.001)
Ethylbenzene	ND(0.001) /ND(0.001)
Methylene chloride	ND(0.005) /ND(0.005)
Trichloroethene	0.0093 (IDW,RDW) /0.0093 (IDW,RDW)
Vinyl chloride	ND(0.001) /ND(0.001)
Xylenes (total)	ND(0.002) /ND(0.002)
SVOC	
Benzo(a)anthracene	ND(0.001) /ND(0.0011)
Benzo(a)pyrene	ND(0.002) /ND(0.0021)
Benzo(b)fluoranthene	ND(0.002) /ND(0.0021)
bis(2-Ethylhexyl)phthalate	ND(0.005) /ND(0.0053)
Dibenz(a,h)anthracene	ND(0.002) /ND(0.0021)
Indeno(1,2,3-cd)pyrene	ND(0.002) /ND(0.0021)
PCB	
Total PCBs	ND(0.00011) /ND(0.0001)
PCB-Dissolved	
Total PCBs	ND(0.00011) /ND(0.00011)
Inorganic	
Antimony	ND(0.0012) /ND(0.0012)
Arsenic	ND(0.001) /0.0005 J
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.022 /0.022
Selenium	0.003 J /0.0028 J
Inorganic-Dissolved	
Antimony	ND(0.0012) /ND(0.0012)
Arsenic	ND(0.001) /ND(0.001)
Lead	ND(0.0004) /ND(0.0004)
Manganese	0.023 /0.023
Selenium	0.004 J /0.0048 J

RFI-09-53	4/7/2005	6/8/2005
VOC		
1,1,1-Trichloroethane	0.05	0.258 (IDW,RDW)
Benzene	0.0003 J	ND(0.005)
Carbon tetrachloride	0.0003 J	ND(0.005)
Ethylbenzene	ND(0.001)	ND(0.005)
Methylene chloride	ND(0.005)	ND(0.03)
Trichloroethene	0.035 (IDW,RDW)	0.184 (IDW,RDW)
Vinyl chloride	0.001 J	ND(0.005)
Xylenes (total)	ND(0.001)	ND(0.005)

RFI-09-57	7/6/2005
VOC	
1,1,1-Trichloroethane	ND(0.001)
Benzene	ND(0.001)
Carbon tetrachloride	ND(0.001)
Ethylbenzene	ND(0.001)
Methylene chloride	ND(0.005)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)
Xylenes (total)	ND(0.001)

RFI-09-04R	6/24/2002	3/24/2003	10/5/2004	6/8/2005
VOC				
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)	0.0003 J	0.0003 J
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001)	0.0003 J	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Trichloroethene	0.0067 (IDW,RDW)	0.0055 (IDW,RDW)	0.011 (IDW,RDW)	0.009 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)
Inorganic				
Antimony	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS
Lead	NS	NS	ND(0.003)	NS
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS

RFI-09-49R	4/3/2003	10/5/2004
VOC		
1,1,1-Trichloroethane	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)
Carbon tetrachloride	ND(0.001)	ND(0.001)
Ethylbenzene	ND(0.001)	ND(0.001)
Methylene chloride	ND(0.005)	ND(0.005)
Trichloroethene	0.0028	0.008 (IDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)
Xylenes (total)	ND(0.002)	ND(0.001)
Inorganic		
Antimony	NS	NS
Arsenic	NS	NS
Lead	NS	ND(0.003)
Manganese	NS	NS
Selenium	NS	NS

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERED)
- (739.13) — GROUNDWATER ELEVATION (IN FEET)
- [742.02] — ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- FORMER RIVER GAUGE LOCATION
- CURRENT RIVER GAUGE LOCATION
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  - IDW – INDUSTRIAL DRINKING WATER
  - GSI – GROUNDWATER SURFACE WATER INTERFACE
  - GCC – GROUNDWATER CONTACT
  - GAI – GROUNDWATER ACUTE INHALATION

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED ON JULY 7, 2005.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D– CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDW – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB*, *GRAYX03|NAPL_*, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C24.DWG

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FORMER BUILDING 09 AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 4-24

SITE LOCATION

BD01-04	0.3 – 2.3 (ft)	6.3 – 8.3 (ft)
VOC		
Benzene	ND(0.036)	ND(0.044) /ND(0.044)
PCB		
Total PCBs	ND(0.037)	ND(0.045) /ND(0.044)
Inorganic		
Arsenic	4.4 J	5.7 J /7.7 J (RDC)

BD01-03	0.4 – 2.4 (ft)	8.4 – 10.4 (ft)	18.4 – 20.4 (ft)
VOC			
Benzene	ND(0.041)	ND(0.038)	ND(0.039)
PCB			
Total PCBs	ND(0.041)	ND(0.037)	ND(0.039)
Inorganic			
Arsenic	4.8 J	3.1 J	3.3 J

ACSP-B3K	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)
PCB			
Total PCBs	ND(0.037)	0.13 /0.49	0.39

ACSP-B3	10 – 12 (ft)
VOC	
Benzene	ND(0.04)
Inorganic	
Arsenic	4.2

ACSP-B3A	0 – 0.5 (ft)	4 – 6 (ft)	6 – 8 (ft)	10 – 12 (ft)	12 – 14 (ft)
PCB					
Total PCBs	ND(0.038)	ND(0.042)	4.7 (RDC)	0.062	ND(0.041)

ACSP-B30	0 – 2 (ft)	5 – 7 (ft)	7 – 9 (ft)	10 – 12 (ft)	12 – 14 (ft)
PCB					
Total PCBs	ND(0.037)	0.062	0.5	0.074	0.04 /0.068

ACSP-B1	14 – 16 (ft)
VOC	
Benzene	ND(0.033)
Inorganic	
Arsenic	2.8

ACSP-B1A	2 – 4 (ft)
PCB	
Total PCBs	ND(0.039)

BD01-02	0 – 2 (ft)	8 – 10 (ft)	12 – 14 (ft)
VOC			
Benzene	ND(0.042)	ND(0.041)	ND(0.036)
PCB			
Total PCBs	0.016 J	ND(0.04)	ND(0.037)
Inorganic			
Arsenic	5	4.7	1.6

ACSP-B3E	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)
PCB			
Total PCBs	0.052	0.18	0.13

ACSP-B2B	12 – 14 (ft)
VOC	
Benzene	ND(0.037)

ACSP-B2E	0 – 2 (ft)	6 – 8 (ft)	8 – 10 (ft)	14 – 16 (ft)	22 – 24 (ft)
VOC					
Benzene	ND(0.036)	ND(0.039)	ND(0.04)	ND(0.038)	0.12

ACSP-B4B	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)	6 – 8 (ft)	8 – 10 (ft)	10 – 12 (ft)
PCB						
Total PCBs	ND(0.038)	ND(0.039) /ND(0.04)	ND(0.04)	ND(0.039)	ND(0.039)	ND(0.04)

ACSP-B2A	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)	6 – 8 (ft)	8 – 10 (ft)	10 – 12 (ft)
VOC						
Benzene	NS	NS	NS	NS	NS	ND(0.83) /NS
PCB						
Total PCBs	ND(0.039)	ND(0.04)	ND(0.041)	ND(0.041)	ND(0.043)	ND(0.044)

ACSP-B2	14 – 16 (ft)
VOC	
Benzene	ND(2) /ND(2)
Inorganic	
Arsenic	4.8 /4.1

ACSP-B2D	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)	14 – 16 (ft)	24 – 26 (ft)
VOC					
Benzene	ND(0.037)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.037)

ACSP-B6	2 – 4 (ft)
VOC	
Benzene	ND(0.035)
Inorganic	
Arsenic	9.5 (RDC)

ACSP-B4A	0 – 2 (ft)	2 – 4 (ft)	4 – 6 (ft)	6 – 8 (ft)	8 – 10 (ft)	10 – 12 (ft)	12 – 14 (ft)
PCB							
Total PCBs	ND(0.039)	ND(0.038)	ND(0.04)	ND(0.038)	ND(0.036)	ND(0.038)	ND(0.042)

ACSP-B4	8 – 10 (ft)
VOC	
Benzene	ND(0.043)
Inorganic	
Arsenic	4.8

BD01-01	0.4 – 2.4 (ft)	8.4 – 10.4 (ft)	22.4 – 24.4 (ft)
VOC			
Benzene	ND(0.039)	ND(0.043)	ND(0.038) /ND(0.038)
PCB			
Total PCBs	ND(0.039)	ND(0.044)	ND(0.038) /ND(0.038)
Inorganic			
Arsenic	6.3 J	7.2 J	2.8 J /2.8 J

ACSP-B5	12 – 14 (ft)
VOC	
Benzene	ND(0.04)
Inorganic	
Arsenic	3.2

ACSP-B2C	8 – 10 (ft)
VOC	
Benzene	ND(0.039)

(SEE FIGURE 4-23)

(SEE FIGURE 4-21)

I N D U S T R I A L A V E .

H A M I L T O N A V E .

H A R R I E T S T .

P A G E S T .

N O R T H S T .

BLDG. 03

ADMIN. BLDG 01

VISITOR PARKING

EMPLOYEE PARKING

EMPLOYEE PARKING

CONSUMERS POWER TRANSFORMER

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDIND CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.
3. FOR ALL METALS, SITE-SPECIFIC BACKGROUND CONCENTRATIONS ARE SUBTRACTED FROM THE MEASURED CONCENTRATIONS PRIOR TO COMPARING TO PART 201 CRITERIA.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN DRY-WEIGHT MILLIGRAMS PER KILOGRAM (mg/kg).
6. ND (0.039)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTRACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

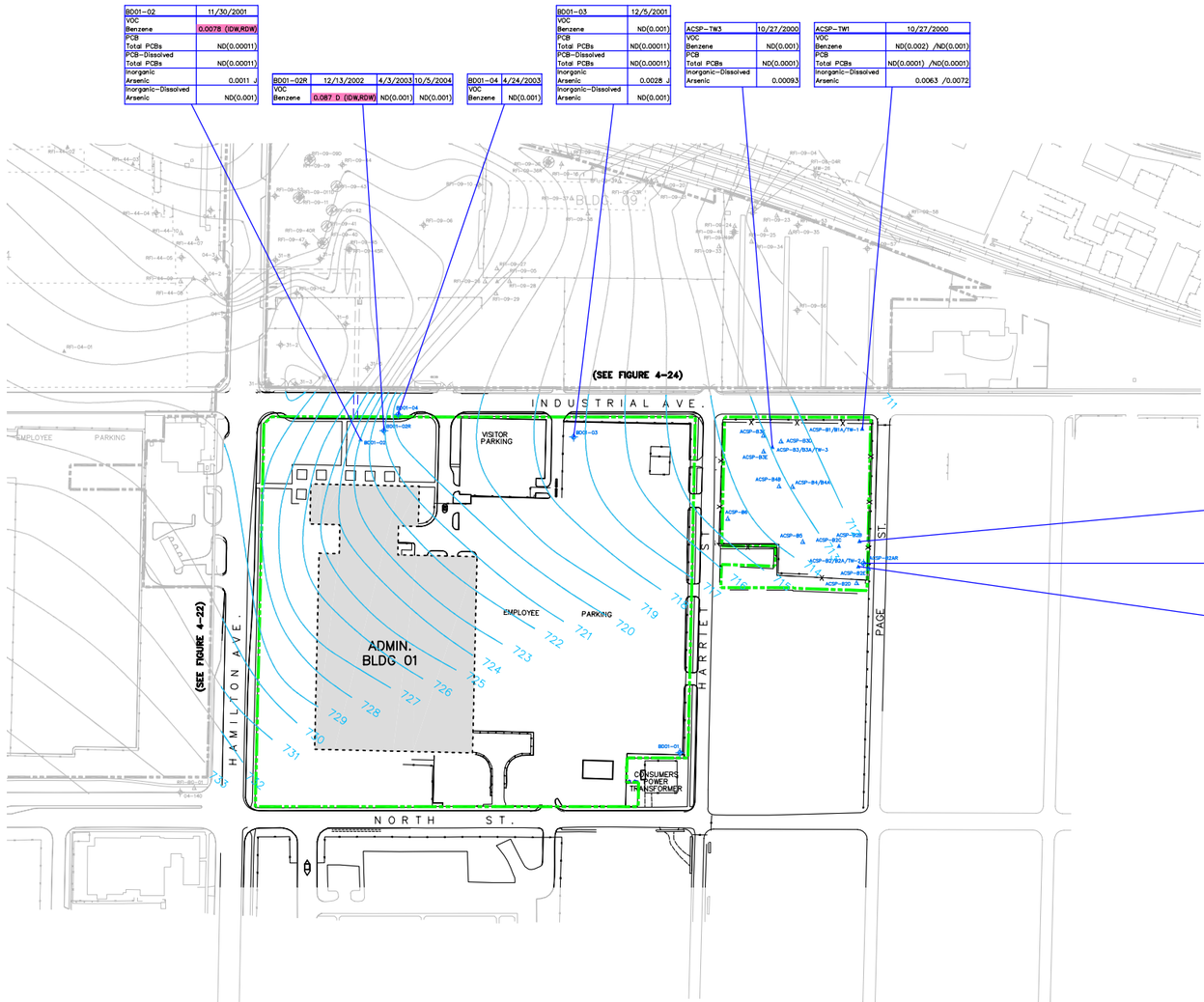
GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

SOIL ANALYTICAL DATA - BUILDING 01 AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-25

X: 64410X01.DWG, X02.DWG, X03.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES SDL GMS
64410112/RFI-06/64410C25.DWG



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
  IDW – INDUSTRIAL DRINKING WATER

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN DECEMBER 2004.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
10. RDW – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - BUILDING 01 AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-26

X: 64410X01.DWG, X02.DWG, X03.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C13.DWG

WL-B3	10 – 12 (ft)
Inorganic	
Arsenic	4.4

WL-B6	10 – 12 (ft)
Inorganic	
Arsenic	21 (RDC)

WL-B4	2 – 4 (ft)
Inorganic	
Arsenic	17 (RDC)

WL-B2	2 – 4 (ft)
Inorganic	
Arsenic	12 (RDC)

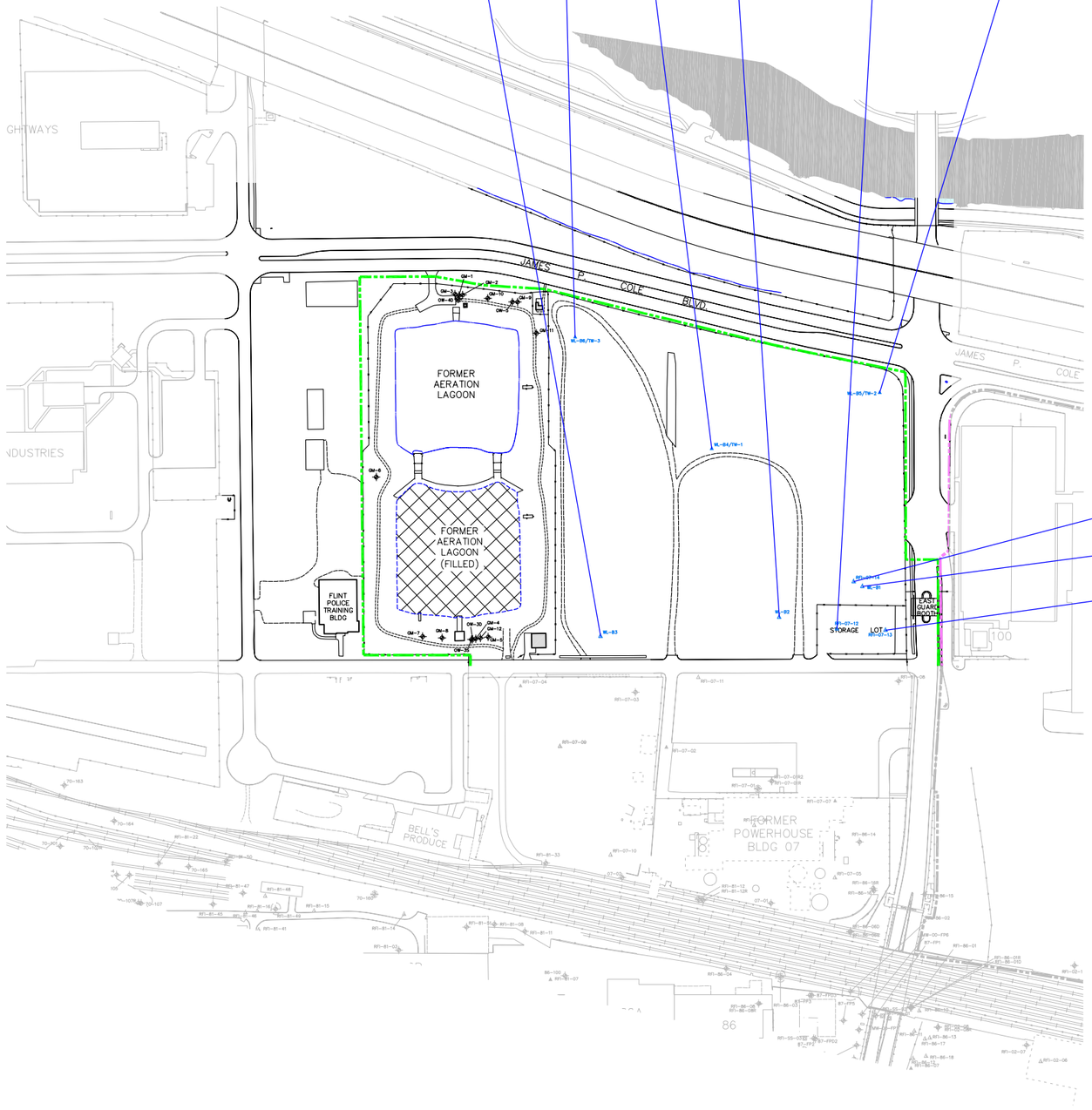
RFI-07-12	0.3 – 2.3 (ft)	8.3 – 10.3 (ft)	14.3 – 16.3 (ft)
Inorganic			
Arsenic	9.1 J (RDC)	5.3 /4.5	6.7

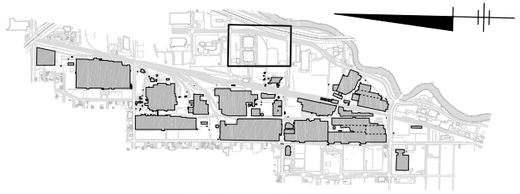
WL-B5	10 – 12 (ft)
Inorganic	
Arsenic	8.9 (RDC)

RFI-07-14	0 – 2 (ft)
Inorganic	
Arsenic	5.8

WL-B1	8 – 10 (ft)
Inorganic	
Arsenic	7.3

RFI-07-13	0.3 – 2.3 (ft)	8.3 – 10.3 (ft)	14.3 – 16.3 (ft)
Inorganic			
Arsenic	11 J (RDC)	5.9 J	6.8 J





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI B1-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI-36-01 — RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

NOTES:

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7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. RDC – EXCEEDS MICHIGAN PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA.

0 150' 300'
GRAPHIC SCALE

JULY 2006

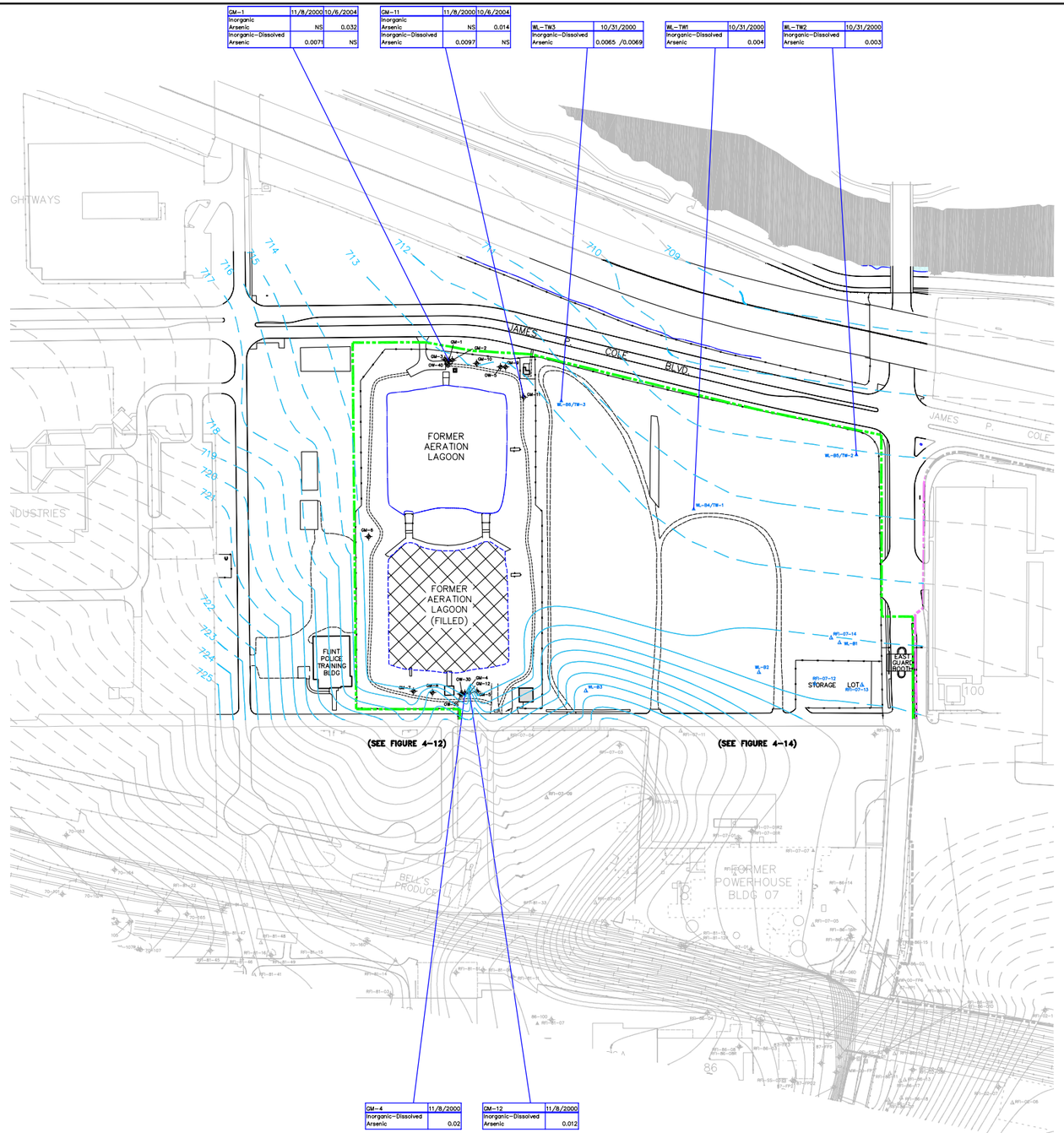
GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

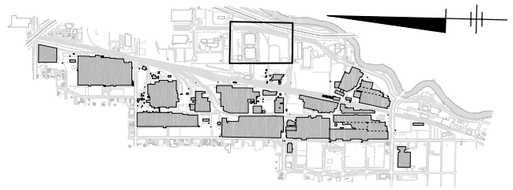
SOIL ANALYTICAL DATA - FORMER AERATION LAGOON AREA

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4-27

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES DJP GMS
64410112/RFI-06/64410C27.DWG





SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI 81-1 — AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- 736 — WATER TABLE ELEVATION CONTOUR (FT AMSL)
- 04-140 — HISTORICAL MONITORING WELL LOCATION
- RFI-83/84-03 — RFI SOIL BORING LOCATION
- RFI-09-02 — RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI-09-01 — RFI MONITORING WELL LOCATION
- RFI-12-13 — DECOMMISSIONED/DESTROYED MONITORING WELL
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- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:

NOTES:

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5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

0 150' 300'
GRAPHIC SCALE

JULY 2006

GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE – FLINT, MICHIGAN
RFI PHASE II REPORT

GROUNDWATER ANALYTICAL DATA - FORMER AERATION LAGOON AREA

BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
4-28

X: 64410X01.DWG, X02.DWG, X03.DWG, X06.DWG, X24.DWG
L: ON=* OFF=*REF*, GRAYX01|SHD-BUILDING, *|HIST_SB, *GRAYX03|NAPL_OBS, *|RFI_SS_PIEZ, *|LNAPL-SHD, GRAYX01|PROPERTY, GRAYX03|NAPL_EVID
P: PAGESET/SYR-DL
7/11/06 SYR-85-NES LAF GMS
64410112/RFI-06/64410C28.DWG