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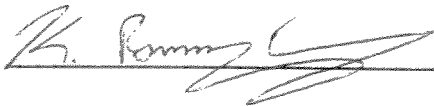
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SUMMARY OF SITE CONDITIONS TRACT 2

**FORMER GENERAL MOTORS FAIRFAX I PLANT
KANSAS CITY, KANSAS**

JULY 2006

REF. NO. 012559 (11)

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) was retained by General Motors Corporation (GM) to obtain a No Further Action (NFA) determination letter for the Tract 2 portion of the GM former Fairfax I Plant Site in Kansas City, Kansas (Tract 2). This report presents a summary of soil and groundwater sampling activities conducted within and in the vicinity of Tract 2. Tract 2 is approximately 16-acres in area and is located in the southwestern portion of the former Fairfax I Plant site. The entire former Fairfax I Plant site, including Tract 2, covers approximately 132 acres (Site). The Site was previously enrolled in the Kansas Department of Health and Environment (KDHE) Voluntary Cleanup and Property Redevelopment Program (VCPRP) in June 2000. The Tract 2 portion of the Site will be addressed independently from the remainder of the Site. A topographic map of the Site area is provided as Figure 1.1, Tract 2 outlined within the Site is shown on Figure 1.2, and a figure showing the rest of the site, excluding Tract 2 is provided on Figure 1.3. A map that clearly depicts the property boundaries of Tract 2 as well as a legal description of Tract 2 is provided with the VCPRP application included with this submittal.

A number of investigations have been completed on the Site. The results of these investigations have been provided to the KDHE in previous correspondence. A list of significant correspondence submitted to the KDHE since June 2000 are listed below.

<i>Title of Correspondence</i>	<i>Date</i>
Results of Soil and Groundwater Investigations Near Monitoring Well MW-103A	June 2000
Pre-Design Investigations Work Plan	September 2001
Results of Confirmatory Sampling Program	April 2005
Supplemental Confirmation Sampling Results	May 2006

This report will present select data collected as part of the Site-wide investigations that are specific to areas within and adjacent to Tract 2. Soil boring logs, monitoring well construction details, and laboratory reports associated with data discussed in this correspondence are located in the above correspondence.

1.1 SITE LOCATION AND DESCRIPTION

The Site is located at 100 Kindleberger Road in Kansas City, Kansas in an industrial area known as the Fairfax District. The Site is located south of a bend in the Missouri River, with the river located north, east, and southeast of the Site. A levee is located between the Site and the Missouri River. The Site location is shown on Figure 1.1.

The Fairfax I Plant was decommissioned in 1987. The facility consisted of several buildings totaling approximately 2.2 million square feet of covered work area. As is typical of large industrial facilities, several support buildings, such as a powerhouse, cooling towers, and maintenance areas were present along with above ground storage tanks (ASTs), underground storage tanks (USTs) and various waste storage areas. The Fairfax II Plant was constructed southeast of Site in 1988 and remains an active facility. The location of the Fairfax II Plant is shown on Figure 1.1.

1.2 ENVIRONMENTAL SETTING

The Site is located on the floodplain of the Missouri River. The geology of the underlying soils generally consists of an upper layer of silty clay ranging in thickness from approximately 7 to 15 feet. The silty clay is underlain by fine to medium sands to depths of 25 to 40 feet below ground surface (bgs) that grade into medium to coarse sands with some gravel and clay to depths of 60 to 80 feet bgs. This layer is underlain by medium to coarse sands and gravels to the top of the bedrock. The thick sequence of sands and gravels comprise alluvial deposits that are underlain by shale bedrock at approximately 102 to 117 feet below grade. This information was obtained during a 1985 subsurface investigation at the adjacent Fairfax II Plant.

The present Missouri River channel follows a deeper valley cut into the bedrock by the ancestral Missouri River.

1.3 SURROUNDING FACILITIES

The Site is surrounded to the west and south by industrial facilities, including industrial, chemical, refining, and pipeline facilities. In 1998, a review of potential off-site sources of groundwater contamination was performed. This included completion of an environmental database search (ERIIS) and Freedom of Information Act (FOIA) requests to the United States Environmental Protection Agency (USEPA) and KDHE. A copy of the ERIIS Database Search Report is provided in Appendix A. The information

provided indicated that a number of commercial and industrial properties located in the vicinity of the Site. These facilities are discussed in more detail in Section 1.4 of this report.

Sources of groundwater contamination on adjacent properties likely explain the low level of volatile organic compounds (VOCs) contamination detected at the upgradient margins of the Site.

1.4 ENVIRONMENTAL DATABASE SEARCHES/FOIA REVIEW

CRA contracted ERIIS to conduct a search of federal and state environmental databases based on the property addresses for the Site and Fairfax II. The findings were reviewed by CRA, and key sites within close proximity to the Site and Fairfax II were selected for further investigation. The locations of these properties are shown on Figure 1.4. These key sites are:

- | | | |
|----|-----------------------------|-------------------------|
| 1) | Phillips Petroleum | 2029 Fairfax Trafficway |
| 2) | Owens Corning | 300 Sunshine Road |
| 3) | Certainteed | 103 Funston Road |
| 4) | Williams Pipeline | 401 E. Donovan Road |
| 5) | Sealright Company | 2925 Fairfax Road |
| 6) | Reichold Chemicals | 3150 Fiberglass Road |
| 7) | Loctite Corporation | 3255 Harvester Road |
| 8) | Bennett Rogers Pipe Coating | 900 Kindleberger Road |

On November 3, 1998 CRA reviewed available KDHE files from the Northeast District Environmental Remediation Division in Lawrence, Kansas through a FOIA request. The following presents a brief summary of the information obtained from the KDHE file review.

Phillips Petroleum: The KDHE file related to Phillips Petroleum was incomplete; however, information in the file indicated that a free product recovery system has been operating. KDHE documented in a March 23, 1990 memorandum that a potential for free product migration onto GM property existed. The current status of environmental remediation at Phillips Petroleum was not reported within the information reviewed by CRA.

Owens Corning: Multiple releases from fuel oil ASTs were documented at Owens Corning. Soil sample analytical results indicated elevated levels of Total Petroleum Hydrocarbons (TPH) in soils and slightly elevated levels of TPH in groundwater. In 1996, Owens Corning was designated by KDHE with a "Hold" status, meaning that no further action is needed at this time.

Certainfeed: Multiple releases from two separate UST systems were reported for the Certainfeed site. Groundwater contamination (benzene, toluene, ethylbenzene, and xylenes (BTEX)) was reported near each release area. One UST release area was reported to have received a clean closure in 1996; however, a groundwater monitoring program for BTEX is still ongoing relative to the second UST release.

Williams Pipeline: The KDHE files for Williams Pipeline were incomplete and did not contain any information on the tank farm located to the south of the Fairfax II property. However, the KDHE files described a release area designated as Williams Pipeline Mile Marker No. 1 (MM 1). A release of unleaded gas was reported at MM 1 in March 1989. Groundwater conditions have been monitored and elevated levels of BTEX and hydrocarbons have been reported, as well as free product. The current status of MM 1 was not reported within the information reviewed by CRA.

Sealright Company: The KDHE files for Sealright Company indicated that elevated levels of VOCs have been detected at the site during past soil and groundwater investigations related to site decommissioning and UST closure activities. Past use of solvents at the Sealright Company was reported. The following were identified as specific contaminants of concern: tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (1,2-DCE), and methyl ethyl ketone (MEK). A Corrective Action Study/Corrective Action Plan (CAS/CAP) was prepared for this property. The current status of the CAS/CAP was not reported within the information reviewed by CRA.

Reichold Chemicals: The KDHE files reviewed for Reichold Chemicals were limited; however, gasoline, diesel, and oil USTs were present at the property. Routine losses from the USTs had been reported; however, no groundwater contamination was identified.

Loctite Corporation: At least 24 USTs, which were removed in 1989, were present on the Loctite Corporation property. The USTs contained primarily acetone, alcohol, and coastal oils. Limited soil and groundwater investigations indicated that no groundwater contamination was identified.

Bennett Rogers Pipe Coating: The KDHE files reviewed for Bennett Rogers Pipe Coating indicated that several historic USTs were reported on the property, including two gasoline USTs and two diesel USTs. Soil and groundwater investigations at the property indicated that the groundwater contains several VOCs, including BTEX, methyl tertiary butyl ether (MTBE), naphthalene, and 1,2-dichloroethane. A quarterly groundwater monitoring program was implemented.

1.5 OPERATIONAL HISTORY

The former Fairfax I main building was the location of the majority of Site operations. Tract 2 is located to the west of the former building. Based on aerial photographs, Tract 2 was generally used for parking and storage of vehicles. Historical aerial photographs of the Site will be submitted to the KDHE in future correspondence.

The Site consisted of several buildings, a tank farm, rail support, and drum storage areas. The U.S. Government constructed the Fairfax I Plant in 1940 for North American Aviation. North American Aviation assembled B-25 bombers at the facility through 1944 for use in World War II. In 1945, GM negotiated a lease for this facility from the U.S. Government and began assembling automobiles. During the Korean conflict GM assembled F84F jet aircraft in addition to automobiles. GM purchased the Site from the U.S. Government in 1960 and continued automobile assembly operations until 1986/1987. Prior to demolition, a number of environmental studies were performed by GM, including monitoring well installation and sampling. Some of these monitoring wells remain on the Site.

1.6 PLANT DECOMMISSIONING

In May 1987, automobile production at the Site was permanently terminated. In preparation of building demolition associated with this facility, HDR Engineering Inc. of Omaha, Nebraska (HDR) completed an Environmental Site Assessment (ESA) between August 1987 and January 1988. Asbestos abatement activities were completed between June and October 1988. All ASTs and USTs were cleaned and removed from the Site during this time period. The demolition of the Site buildings was conducted between July 1988 and May 1989.

1.7 HDR PREVIOUS INVESTIGATIONS

Investigative activities conducted by HDR in 1987 and 1988 focused on, but were not limited to, the following areas which represented the greatest potential for impacted media:

- ASTs and USTs;
- product conveyance lines;
- waste and paint storage areas;
- process sumps;
- refuse burning areas;
- fueling stations; and
- areas where historic spill incidents occurred.

Areas of concern (AOCs) within the Site, shown on Figure 1.5, were identified for potential investigation during the ESA. Given the nature of the facility, the majority of the areas identified for potential investigation focused on bulk product storage tanks and their associated conveyance lines. Product was historically stored at the Site using a combination of ASTs and USTs. The majority of the USTs were removed concurrent with the completion of the ESA in August 1987. ASTs associated with the Site were removed later in the decommissioning process.

In general, soil and groundwater samples collected by HDR in 1987 and 1988 were from the identified AOCs most likely to have been impacted by past Site activities. Sampling locations were selected by HDR based on the past use of the Site, and in conjunction with information previously submitted to KDHE concerning environmental impacts documented during the operation of the Site (i.e., areas where historic spill incidents occurred).

1.7.1 HOLLOW STEM AUGER SOIL SAMPLING

HDR collected soil samples from throughout the Site, including Tract 2. In total, HDR advanced 76 soil borings during the ESA. Although these soil borings were advanced in areas most likely to have been impacted by plant operations, they were also placed to ensure that a representative characterization of the Site was developed during the ESA. Figure 1.6 provides the locations of soil borings advanced by HDR during the ESA.

Soil borings S-1 through S-41 and S-101 through S-124 were advanced to approximately 30 feet bgs, with the exception of S-29, which was advanced to approximately 25 feet bgs. Soil borings F-11 through F-16, F-23 through F-26, and F-28 were advanced to approximately 5 feet bgs. Soil borings were advanced using power auger and/or hollow stem auger (HSA) drilling techniques. Soil borings S-101 through S-106, S-109, S-110, S-113, S-123, and S-124 were sampled for stratigraphic logging purposes only.

Soil samples were collected from the majority of these borings for chemical analyses using split-spoon sampling procedures at 5-foot intervals to the base of the boring. Soil was collected for analyses from the lower 1.5 feet of each 5-foot interval. Depending on the depth of the soil boring, soil samples collected from the upper 5 or 15 foot intervals of each soil boring were submitted for chemical analysis. During the 1987 preliminary investigation, the three remaining samples from the lower portion of the boring were archived pending the results from the upper 15 feet of the boring. Laboratory analysis from the lower 15 foot intervals was requested in soil borings S-8, S-29, and S-37 since analytes were detected in the upper three sample intervals. During the January 1988 expanded investigation, soil samples were collected from all six depth intervals at each soil boring location and were submitted for chemical analysis, including soil borings S-107 and S-108, located east of Tract 2.

1.7.2 HOLLOW STEM AUGER GROUNDWATER SAMPLING

In addition to soil sampling, HDR conducted groundwater sampling throughout the Site, including portions of Tract 2. Groundwater samples were collected by HDR in 1987 and 1988 from the 30-foot soil borings during both phases (August 1987 and January 1988) of the investigation. Groundwater samples were collected from soil borings S-101 through S-106 (located within or adjacent to the Tract 2 parcel), S-109, S-110, S-113, and S-124. Groundwater samples were collected directly from the borehole using the HSA as casing. Groundwater samples were collected using a Teflon bailer and without purging any volume of groundwater prior to sample collection.

1.7.3 MONITORING WELL INSTALLATION BY HDR

HDR installed four monitoring wells (MW-1 through MW-4) in September 1987 and 12 monitoring wells (MW-101, MW-102A, MW-102B, MW-102C, MW-103 through MW-108, S-103, and S-113) in January 1988 throughout the Site. These monitoring wells were installed to approximately 30 feet bgs, with the exception of MW-102B (62 feet) and

MW-102C (102.5 feet); both located in the northern part of the Site. Monitoring wells MW-2 through MW-4, MW-101, MW-106, MW-107, and S-103 no longer exist.

2.0 CRA PREVIOUS INVESTIGATIONS

2.1 1998/1999 INVESTIGATION

In October 1998 and May 1999, CRA conducted soil and groundwater investigations in the vicinity of monitoring well MW-103A, as well as collecting additional groundwater samples from throughout the Site. Select groundwater data generated during this investigation will be evaluated in subsequent sections of this report.

Please see CRA correspondence dated June 2000 for additional details regarding this scope of work.

2.2 CONFIRMATORY SAMPLING

In December 2004, CRA conducted soil and groundwater confirmatory sampling throughout the Site. Activities completed by CRA in December 2004 included the following:

- Located and marked 10 AOC prior to sampling;
- Collected soil samples from ten AOCs and submitted the samples for laboratory analysis of Target Compound List (TCL) VOCs, TCL semivolatile organic compounds (SVOCs), and Target Analyte List (TAL) metals;
- Collected water level measurements from 11 monitoring wells;
- Collected groundwater samples from eight monitoring wells¹ and submitted the samples for laboratory analysis of TCL VOCs, TCL SVOCs, and TAL total metals; and
- Surveyed the advanced soil borings for location and elevation.

Select soil and groundwater data generated during this investigation will be evaluated in subsequent sections of this report. Please see CRA correspondence dated April 2005 for additional details regarding this scope of work.

¹ Additional monitoring wells were planned to be sampled during this event. However, MW-106 has been damaged, MW-107 was not located, MW-103A contained free product, and low water table conditions prevented sampling at MW-102A, MW-104, MW-108, and MW-115A.

2.3 SUPPLEMENTAL CONFIRMATION SAMPLING

Between December 2005 and January 2006, CRA conducted soil and groundwater sampling throughout the Site. Activities completed by CRA during this investigation included the following:

- Collected soil samples from five locations and submitted the samples for laboratory analysis of PCE;
- Collected one or more water level measurements from 29 monitoring wells;
- Collected groundwater samples from 11 monitoring wells and submitted the samples for laboratory analysis of TAL VOCs. One sample was also analyzed for SVOCs and Metals.
- Surveyed the advanced soil borings for location and elevation.

Select soil and groundwater data generated during this investigation will be evaluated in subsequent sections of this report. Please see CRA correspondence dated May 2006 for additional details regarding this scope of work.

3.0 CRA FIELD ACTIVITIES

Between October 1998 and January 2006, CRA conducted soil and groundwater sampling throughout the Site. The following section describes the field procedures and analytical protocols used to collect soil and groundwater samples, and install monitoring wells. Field procedures and protocols followed while collecting soil and groundwater samples in 1998 and 1999 was previously provided to the KDHE in CRA correspondence dated June 2000.

3.1 SOIL BORING ADVANCEMENT - DECEMBER 2004

Plains Environmental Services (Plains) of Salina, Kansas provided Geoprobe direct push technology (DPT) services. A total of 10 soil borings were advanced, one in each of the ten AOCs. Each soil boring was advanced to a predetermined depth ranging from 6 to 12 feet bgs. Soil samples were continuously collected for field screening and stratigraphic classification. The soil sample collected at the base of each borehole was submitted for laboratory analysis. CRA soil boring locations are shown on Figure 2.2.

Before initiating intrusive activities and between each borehole location, down hole equipment was decontaminated using an Alconox™ detergent and potable water wash and a potable water rinse to prevent cross-contamination from the previous location. Decontamination water was collected in a 55-gallon drum and staged on Site pending disposal.

At each location, drilling proceeded as described below:

- i) A decontaminated DPT sampler with acetate liner was driven 5 feet into the soil.
- ii) The sampler was retrieved and the acetate liner was removed and cut open.
- iii) A representative sample was obtained from the opened sampler and placed in a clean plastic bag for headspace analysis. The remaining sample was retained for visual examination, and the sample from the base of the borehole was retained for laboratory analysis. Soils were described according to the Uniform Soil Classification System (USCS).
- iv) The soil samples placed in a plastic bag for headspace analysis were monitored with a photoionization detector (PID) for total organic vapor content.
- v) Soil samples were placed in appropriate laboratory-supplied containers, labeled, and placed in a cooler that contained sealed plastic bags of ice.

- vi) Upon completion of each boring, each borehole was backfilled with cement-bentonite grout tremmied from the bottom up (when necessary). Soil cuttings were collected in a 55-gallon drum and staged on-Site pending disposal.

Soil samples were shipped under chain-of-custody protocol to Severn Trent Labs of North Canton, Ohio (STL) via overnight courier.

3.2 SOIL BORING ADVANCEMENT/ MONITORING WELL INSTALLATION - DECEMBER 2005

Harris Drilling Services Inc. (Harriss) of Freeburg, Illinois provided HSA drilling services. Soil borings SB-118 through SB-122, MW-116 A/B through MW-119 A/B, and MW-121 A/B were advanced using 4.25-inch inside diameter (ID) HSA drilling techniques. Before initiating intrusive activities and between each borehole location, down hole equipment was decontaminated using an Alconox™ detergent and potable water wash and a potable water rinse to prevent cross-contamination from the previous location. Decontamination water was collected in a 55-gallon drum and staged on Site pending disposal.

Soil borings were continuously drilled to the sample collection depth (except for soil boring MW-117B), which was described in accordance with the USCS.

Soil samples collected from SB-118 through SB-122 were placed in appropriate laboratory-supplied containers, labeled, and placed in a cooler that contained sealed plastic bags of ice. Upon completion of soil boring locations SB-118 through SB-122, the boreholes were backfilled with cement bentonite grout. Soil cuttings were collected in 55-gallon drums and staged on-Site pending disposal.

Monitoring wells MW-116 A/B through MW-119 A/B, and MW-121 A/B were constructed of 10-foot lengths of 2-inch diameter polyvinyl chloride (PVC) No. 10 slot screen set to straddle the water table interface, and a sufficient length of 2-inch diameter PVC riser to extend to the surface. The borehole annulus was backfilled with No. 5 filter sand to approximately 2 feet above the top of the well screen. A bentonite seal was installed on top of the filter pack and extended to the surface. The bentonite seal was then hydrated with potable water. Flush-mount protective covers were installed above the wellhead and cemented in place at MW-116 A/B and MW-117 A/B. Stick-up protective covers were installed above the wellhead and cemented into place at MW-118 A/B, MW-119 A/B, and MW-121 A/B.

Following installation and prior to sampling, all newly installed monitoring wells were purged to reduce the amount of suspended sediment in the well. Select soil boring locations are shown on Figure 2.2 and monitoring well locations are shown on Figure 3.1.

Soil samples were shipped under chain-of-custody protocol to STL via overnight courier.

3.3 MONITORING WELL SAMPLING

The procedures used for CRA collected groundwater samples are summarized below:

- i) Prior to sample collection, the depth to water was measured at each monitoring well using an electronic water level probe that was decontaminated with Alconox™ and distilled water.
- ii) A minimum of three well volumes was purged prior to sampling using an electronic submersible pump or a peristaltic pump. Sample collection occurred once three consistent field parameter readings of pH, conductivity, and temperature were obtained and had stabilized. A summary of monitoring well purging parameter data is provided in Table 1.1.
- iii) Upon stabilization, groundwater samples were collected for analyses of one or more of the following analyses: TAL VOCs, TAL SVOCs, and TAL Total Metals.
- iv) Quality assurance/quality control (QA/QC) samples including one duplicate sample and a matrix spike/matrix spike duplicate (MS/MSD) sample were collected during the monitoring well sampling activities.
- v) Groundwater samples were collected in laboratory-supplied containers, labeled, and placed in a cooler that contained sealed plastic bags of ice.

Groundwater samples were shipped under chain-of-custody protocol to STL via overnight courier.

3.4 HYDRAULIC MONITORING

Between October 1998 and January 2006, water level measurements were obtained from select monitoring wells. Water levels were measured to the nearest 0.01 feet using an electronic water level indicator that was decontaminated after each use. Water level measurements are provided in Tables 2.1 and 2.2.

3.5 DATA VALIDATION

All analytical data generated by CRA was validated and the precision and accuracy of the analyses were assessed based on surrogate spike recoveries, MS/MSD recoveries and relative percent differences, sample/sample duplicate relative percent differences, field duplicate sample results, and check sample results. The results of the data quality assessment and validation procedure indicated that the soil and groundwater data are suitable for the intended use with the qualifications presented in the validation memorandum. Laboratory data, validation memorandums, and chain-of-custody forms were provided to the KDHE in previous submittals.

3.6 SURVEYING

Anderson Survey Company (Anderson) of Lee's Summit, Missouri provided surveying services.

Based on historical facility drawings, historical surveys, and historical photos, Anderson staked the corners of the ten AOCs prior to fieldwork being conducted. After the soil borings were advanced, Anderson surveyed the borehole locations for location and elevation. The horizontal locations were referenced to the GM Plant Grid Coordinate System.

4.0 SOIL SAMPLE LOCATION SUMMARY

This section summarizes the soil analytical results that will be used to evaluate soil conditions within and in the vicinity of Tract 2. Detected analytes in soil are provided in Tables 3.1 through 3.3 and on Figures 4.1 and 4.2. Detected analytes in groundwater are provided in Tables 4.1 through 4.4 and on Figures 5.1 and 5.2.

4.1 HDR SOIL SAMPLING

Soil samples collected by HDR within Tract 2 and immediately adjacent to Tract 2 will be evaluated as part of the Tract 2 investigation. This will include soil samples collected from soil borings S-10, F-11, and F-14 (within Tract 2), S-14 (northeast of Tract 2), S-8, S-9, S-40, S-107 through S-110, F-12, and F-13 (east of Tract 2), and S-4 through S-7 (west of Tract 2). Laboratory analytical reports for these samples were previously submitted to the KDHE by CRA on June 8, 2006.

4.2 CRA 1998/1999 INVESTIGATION

Soil samples were not collected in the vicinity of Tract 2 during this investigation.

4.3 CRA DECEMBER 2004 SOIL SAMPLING

None of the December 2004 soil samples were collected from within Tract 2. However, soil samples collected by CRA adjacent to Tract 2 will be evaluated as part of the Tract 2 investigation. This will include soil samples collected from soil boring SB-110 (southern extent of former powerhouse area), SB-112 (former USTs B & C, located east of Tract 2), SB-113 (former UST and baler room located east of Tract 2), and SB-114 (truck maintenance facility located west of Tract 2).

4.4 CRA DECEMBER 2005 SOIL SAMPLING

None of the December 2005 soil samples were collected from within Tract 2. However, soil samples collected by CRA adjacent to Tract 2 will be evaluated as part of the Tract 2 investigation. This will include the soil sample collected from soil boring SB-120 and SB-121 (southern extent of former powerhouse area).

5.0 GROUNDWATER SAMPLE LOCATION SUMMARY

This section summarizes groundwater analytical results that will be used to evaluate groundwater conditions within and in the vicinity of Tract 2.

5.1 HDR GROUNDWATER SAMPLING

Groundwater samples collected by HDR within Tract 2 and immediately adjacent to Tract 2 will be evaluated as part of the Tract 2 investigation. This will include groundwater samples collected from soil borings S-101 through S-103, and S-10 (within Tract 2), S-14 (northeast of Tract 2), S-104 through S-110, S-8, S-9, and S-40 (east of Tract 2), and S-4 through S-7 (west of Tract 2). These samples were collected in either 1987 or 1988.

5.2 CRA GROUNDWATER SAMPLING

Groundwater samples collected by CRA adjacent to Tract 2 will be evaluated as part of the Tract 2 investigation. This will include groundwater samples collected from monitoring wells MW-1, MW-117 A/B, MW-109, MW-110 (east of Tract 2), and MW-116 A/B (west of Tract 2). Data collected in October 1998, December 2004, and January 2006 will be included in the evaluation.

6.0 SOIL AND GROUNDWATER SAMPLE RESULTS SUMMARY

Soil analytical results were compared to KDHE Tier 2 non-residential scenario soil pathway and soil to groundwater protection pathway standards (Tier 2 standards). Groundwater analytical results were compared to KDHE Tier 2 groundwater pathway standards (Tier 2 standards)².

6.1 UST 10 AND BALER ROOM

The UST associated with the former baler room was located approximately 200 feet east of Tract 2. The baler room was used to collect general plant refuse and contained a large trash compactor/baler. UST 10, which contained unleaded gasoline and was removed August 1987, was located adjacent to the northern exterior wall of the baler room.

Soil and groundwater samples collected in 1987 at S-8 were analyzed for VOCs, Resource Conservation and Recovery Act (RCRA) metals, pesticides, and polychlorinated biphenyls (PCBs). The soil sample collected from soil boring S-8 contained PCE above the Tier 2 standard at 10 feet bgs (2,500 micrograms per kilogram ($\mu\text{g}/\text{kg}$)) and 15 feet bgs (760 $\mu\text{g}/\text{kg}$). No VOCs were detected in the soil samples collected from other intervals (5, 20, 25, and 30 feet bgs). Groundwater collected from S-8 contained 1,2-DCE (110 micrograms per liter ($\mu\text{g}/\text{L}$)) sample/140 $\mu\text{g}/\text{L}$ duplicate sample), PCE (160/180 $\mu\text{g}/\text{L}$), TCE (93/100 $\mu\text{g}/\text{L}$), arsenic (0.054/0.12 milligrams per liter (mg/L)), cadmium (0.73/0.12 mg/L), lead (0.22/0.7 mg/L) above Tier 2 standards. Barium (3.6 mg/L) and chromium (1.26 mg/L) were detected above Tier 2 standards in only the duplicate sample collected from S-8. No pesticides or PCBs were detected at S-8.

Soil and groundwater samples collected in 1987 at soil boring S-9 were analyzed for VOCs. The soil sample collected from S-9 did not contain VOCs above Tier 2 standards however; groundwater collected from S-9 contained benzene (25 $\mu\text{g}/\text{L}$) above Tier 2 standards.

Soil and groundwater samples collected in 1988 from soil borings S-107 and S-108 were analyzed for VOCs. VOCs were not detected in the soil samples collected from these locations. 1,2-DCE was detected above the Tier 2 standard in groundwater from S-107 (197/202 $\mu\text{g}/\text{L}$).

² Estimated detection concentrations were not considered exceedances of the Tier 2 objectives.

6.2 UST B AND UST C

USTs B and C formerly contained gasoline and were located approximately 400 feet east of the southern portion of Tract 2.

Soil and groundwater samples collected in 1987 from S-40 and groundwater samples collected from S-109 and S-110 were analyzed for VOCs. Soil and groundwater collected from S-40 did not contain VOCs above Tier 2 standards. TCE was detected in groundwater at S-109 (7 µg/L) and S-110 (13 µg/L) above Tier 2 standards.

6.3 TRUCK MAINTENANCE FACILITY

The truck maintenance facility building is located approximately 100 feet west of Tract 2. Four USTs at the truck maintenance facility contained fuel oil and waste oil and were removed August 1987. Soil samples collected from the base of these USTs were not analyzed at that time due to exceeding the sample holding times.

Soil and groundwater samples collected in 1987 from soil borings S-4 through S-6 were analyzed for VOCs. VOCs were not detected in the soil or groundwater at S-4 through S-6, with the exception of groundwater collected from boring S-4, which contained benzene (82 µg/L) above Tier 2 standards.

Six additional borings (S-101 through S-106) were advanced in January 1988. S-101 and S-102 were advanced within Tract 2 to delineate the area to the east of the truck maintenance area. S-103 was advanced within Tract 2 and converted into a monitoring well. S-103 no longer exists. S-104 through S-106 were advanced to the east of Tract 2. Groundwater samples were collected from each of these borings for VOC analysis. No VOCs were detected in the groundwater samples collected from S-101 through S-106.

6.4 SOIL BORINGS F-11 THROUGH F-14, S-10, S-14, AND S-7

Soil borings F-11 through F-14, S-10, S-14, and S-7 were advanced in 1987. These soil borings were advanced within and adjacent to Tract 2 as part of the investigations for AOCs located adjacent to the parcel (Figure 2.1).

F-11 through F-14 were advanced to a depth of 5 feet bgs in the area of the scrap metal and salvage yard. F-11 and F-14 were advanced on Tract 2. Soil samples were collected

and analyzed for PCBs and/or RCRA metals. RCRA metals and PCBs were reported below Tier 2 standards.

S-10 was advanced to a depth of 30 feet bgs in the vicinity of the lead storage area and the salvage material yard. Soil samples from the upper three intervals (5, 10, and 15 feet bgs) were analyzed for VOCs and RCRA metals. No VOCs were detected in the soil samples collected from S-10. A groundwater sample was also collected from this location and analyzed for RCRA metals. Groundwater collected from S-10 contained arsenic (0.066 mg/L), barium (2.9 mg/L), cadmium (0.05 mg/L), chromium (0.2 mg/L), and lead (0.34 mg/L) above Tier 2 standards.

S-14 was advanced to a depth of 30 feet bgs in the vicinity of the powerhouse neutralization pit. Soil and groundwater samples were analyzed for VOCs. VOCs were reported below the Tier 2 standards.

S-7 was advanced to a depth of 30 feet bgs in the vicinity of a concrete process wastewater sump. Soil and groundwater samples were analyzed for VOCs. No VOCs were detected.

7.0 CRA INVESTIGATIVE RESULTS

7.1 UST 10 AND BALER ROOM

In December 2004, CRA advanced soil boring SB-113 in the vicinity of UST 10 and the baler room. A soil sample was collected from 10 to 12 feet bgs and analyzed for VOCs, SVOCs, and RCRA metals to verify that soil at the approximate depth of the base of the tank is not impacted at levels above Tier 2 standards. Laboratory results were below Tier 2 standards.

7.2 UST B AND UST C

In December 2004, CRA advanced soil boring SB-112 in the vicinity of USTs B and C. A soil sample was collected from 10 to 12 feet bgs and analyzed for VOCs, SVOCs, and RCRA metals to verify that soil at the approximate depth of the base of the tank is not impacted at levels above Tier 2 standards. Laboratory results were below Tier 2 standards.

7.3 TRUCK MAINTENANCE FACILITY

In December 2004, CRA advanced soil boring SB-114 in the vicinity of the truck maintenance facility. A soil sample was collected from 10 to 12 feet bgs and analyzed for VOCs, SVOCs, and RCRA metals to verify that soil at the approximate depth of the base of the tanks is not impacted at levels above Tier 2 standards. Arsenic was detected above the Tier 2 standard (5.84 milligrams per kilogram (mg/kg)) at a concentration of 6.7 mg/kg at SB-114.

7.4 SOIL BORING SB-110

Soil borings SB-120 and SB-121 were advanced to a depth of between 10 and 12 feet bgs to delineate PCE previously detected in soil boring SB-110. SB-120 and SB-121 were advanced between SB-110 and Tract 2. PCE concentrations were reported below Tier 2 standards at SB-120 and SB-121.

7.5 CRA GROUNDWATER ANALYTICAL DATA

Groundwater analytical results generated from monitoring wells in the vicinity of Tract 2 (MW-1, MW-109, MW-117 A/B, MW-110, and MW-116 A/B) were compared to Tier 2 standards.

In October 1998, groundwater samples were collected from MW-1, MW-109, and MW-110 and submitted for VOC analysis. VOCs were reported less than Tier 2 standards.

In December 2004, groundwater samples were collected from MW-1, MW-109, and MW-110 and submitted for VOCs, SVOCs, and RCRA metals analysis. Selenium (0.19 mg/L) and dissolved manganese (1.5 mg/L) were detected at monitoring well MW-1 above the Tier 2 standard (0.05 mg/L). Manganese (1.9 mg/L) and dissolved manganese (1.8 mg/L) were detected at monitoring well MW-109 above the Tier 2 standard (0.05 mg/L).

The most recent groundwater sampling event occurred in January 2006. Groundwater samples were collected from MW-110 and submitted for VOCs, SVOCs, and RCRA metals analysis and groundwater samples were collected from MW-116 A/B and MW-117 A/B and submitted for VOCs analysis. Manganese and dissolved manganese were detected at monitoring well MW-110 above the Tier 2 standard (0.05 mg/L) at concentrations of 1.43 and 1.52 mg/L respectively. No VOCs were detected at concentrations above Tier 2 standards at MW-116 A/B or MW-117 A/B.

7.6 HYDRAULIC MONITORING RESULTS

Based on groundwater elevation measurements obtained in December 2004, the general groundwater flow direction at the Site is to the north, northeast, and east, towards the Missouri River. Groundwater flow direction, however, is seasonal, and is influenced by the amount of precipitation that has occurred and the elevation of the water in the Missouri River.

Based on the December 2004 measurements, MW-1 and MW-117 A/B are located cross-gradient of Tract 2, MW-109 and MW-110 are located down gradient of Tract 2, and MW-116 A/B is located up gradient of Tract 2. Groundwater elevation data are summarized in Tables 2.1 and 2.2. Figure 5.3 shows the groundwater contour elevations based on measurements obtained in December 2004.

8.0 SUMMARY AND CONCLUSIONS

Soil and groundwater data generated from samples within and in the vicinity of Tract 2 were evaluated to identify any additional activities necessary to obtain a NFA determination letter from the KDHE VCPRP. The remainder of the Site (not including Tract 2) will be addressed in a separate submittal. A figure showing the updated area of the Site (not including Tract 2) is provided in Figure 1.3.

Soil Data

A total of 55 soil samples collected from 21 soil boring locations were submitted for laboratory analyses of one or more of the following: VOCs, SVOCS, RCRA metals, PCBs, and pesticides. None of the soil samples collected on Tract 2 (S-10, F-11, and F-14) exceeded Tier 2 standards. There were only two soil boring locations (S-8 and SB-114) in the vicinity of Tract 2 that exceeded Tier 2 standards. The soil samples collected from soil boring S-8, contained PCE above Tier 2 standards at 10 feet bgs (2,500 µg/kg) and 15 feet bgs (760 µg/kg). No VOCs were detected in the soil samples collected from other intervals (5, 20, 25, and 30 feet bgs). S-8 is located down gradient of Tract 2 (based on December 2004 groundwater elevation data).

Arsenic was detected above the Tier 2 standard (5.84 mg/kg) at a concentration of 6.7 mg/kg at SB-114. SB-114 was advanced in the vicinity of the Truck Maintenance Facility, upgradient of Tract 2 (based on December 2004 groundwater elevation data). The arsenic concentration at SB-114 is likely a reflection of Site wide conditions and are not related to any specific activity at the Truck Maintenance Facility.

The PCE concentration at S-8 and the arsenic concentration at SB-114 only exceed the soil to groundwater pathway. These Tier 2 exceedances can be addressed through the completion of an environmental use control to prohibit the use of groundwater beneath Tract 2 as a potable water supply. The environmental use control would be recorded to the deed of the property.

Groundwater Data

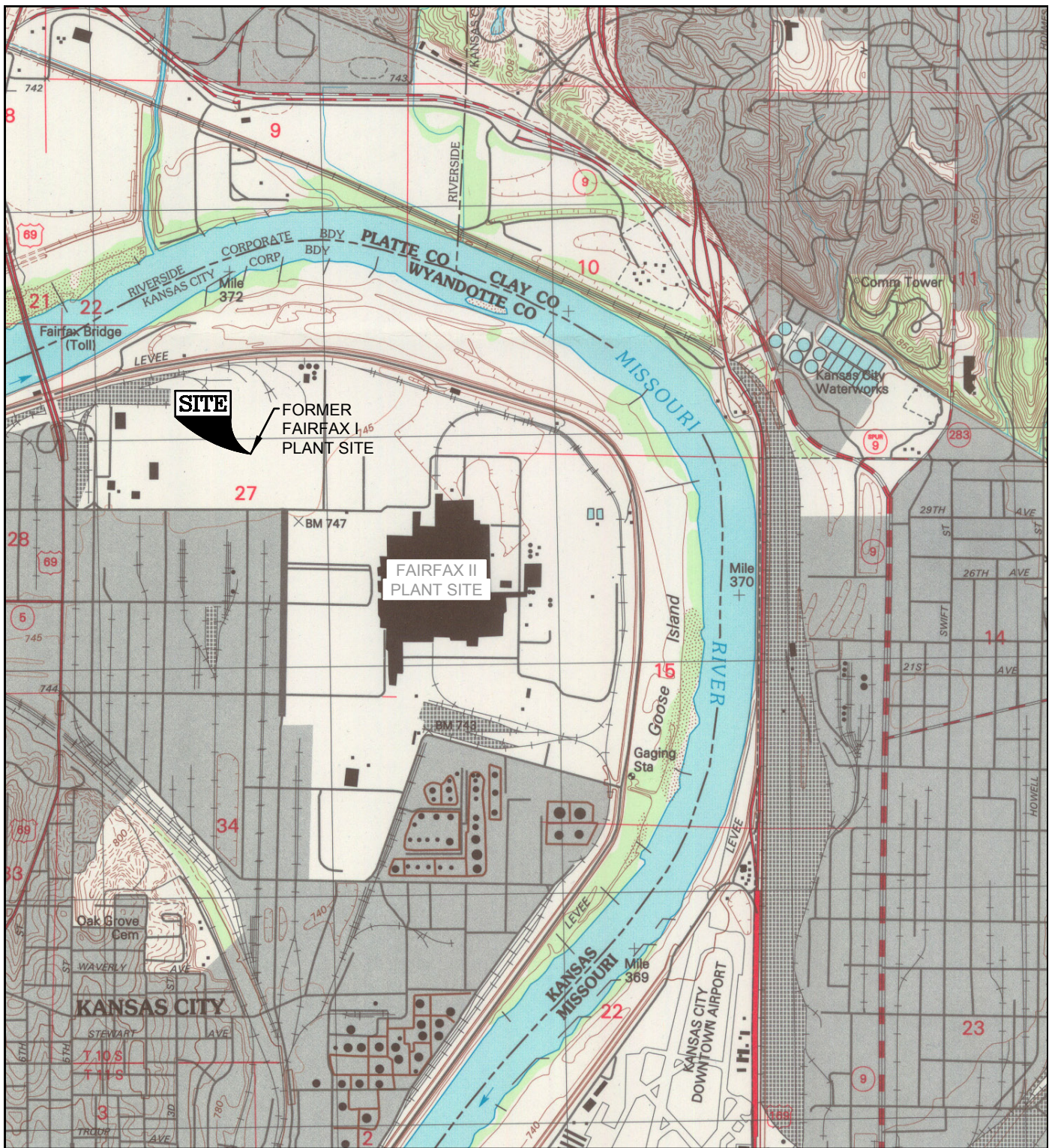
Groundwater analytical data from 26 sample locations were evaluated to determine groundwater quality within and in the vicinity of Tract 2. Groundwater samples were submitted for analysis of one or more of the following: VOCs, SVOCS, RCRA metals, PCBs, and pesticides. None of the groundwater samples collected by HDR within Tract 2 (S-101 through S-103) exceeded Tier 2 standards.

Seven locations sampled by HDR (S-4, S-8 through S-10, S-107, S-109, and S-110) exceeded Tier 2 standards with respect to various VOC and RCRA metals constituents. S-4 is located upgradient of Tract 2, S-8, S-9, S-107 are located down gradient of Tract 2, and S-10, S-109, and S-110 are located cross gradient to Tract 2 (based on December 2004 groundwater elevation data).

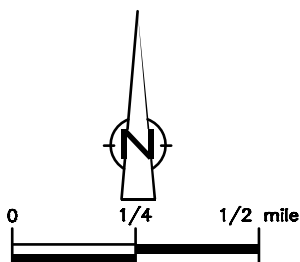
Three monitoring well locations sampled by CRA (MW-1, MW-109, and MW-110) exceeded Tier 2 standards in the vicinity of Tract 2. A groundwater sample collected from MW-1 in December 2004 exceeded the Tier 2 standard for selenium. The groundwater sample collected from MW-109 in December 2004 exceeded the Tier 2 standard for manganese and the groundwater sample collected from MW-110 in January 2006 exceeded the Tier 2 standard for dissolved manganese. MW-1 and MW-110 are located cross-gradient of Tract 2, and MW-109 is located down gradient of Tract 2 (based on December 2004 groundwater elevation data). These concentrations are considered to be either a result of natural background conditions (e.g., manganese) or due to the regional industrial area located upgradient of the Site.

The historical exceedances of Tier 2 groundwater criteria detected in past sampling events in groundwater near and around MW-103A (including the SB-110 area) will be addressed through the remedial actions currently being designed by GM.

The exceedances of Tier 2 standards in the vicinity of Tract 2, which are likely a result of either background or of off-Site and upgradient sources, will also likely be addressed through the completion of an environmental use control to prohibit the use of groundwater beneath Tract 2 as a potable water supply. The environmental use control would be recorded to the deed of the property.

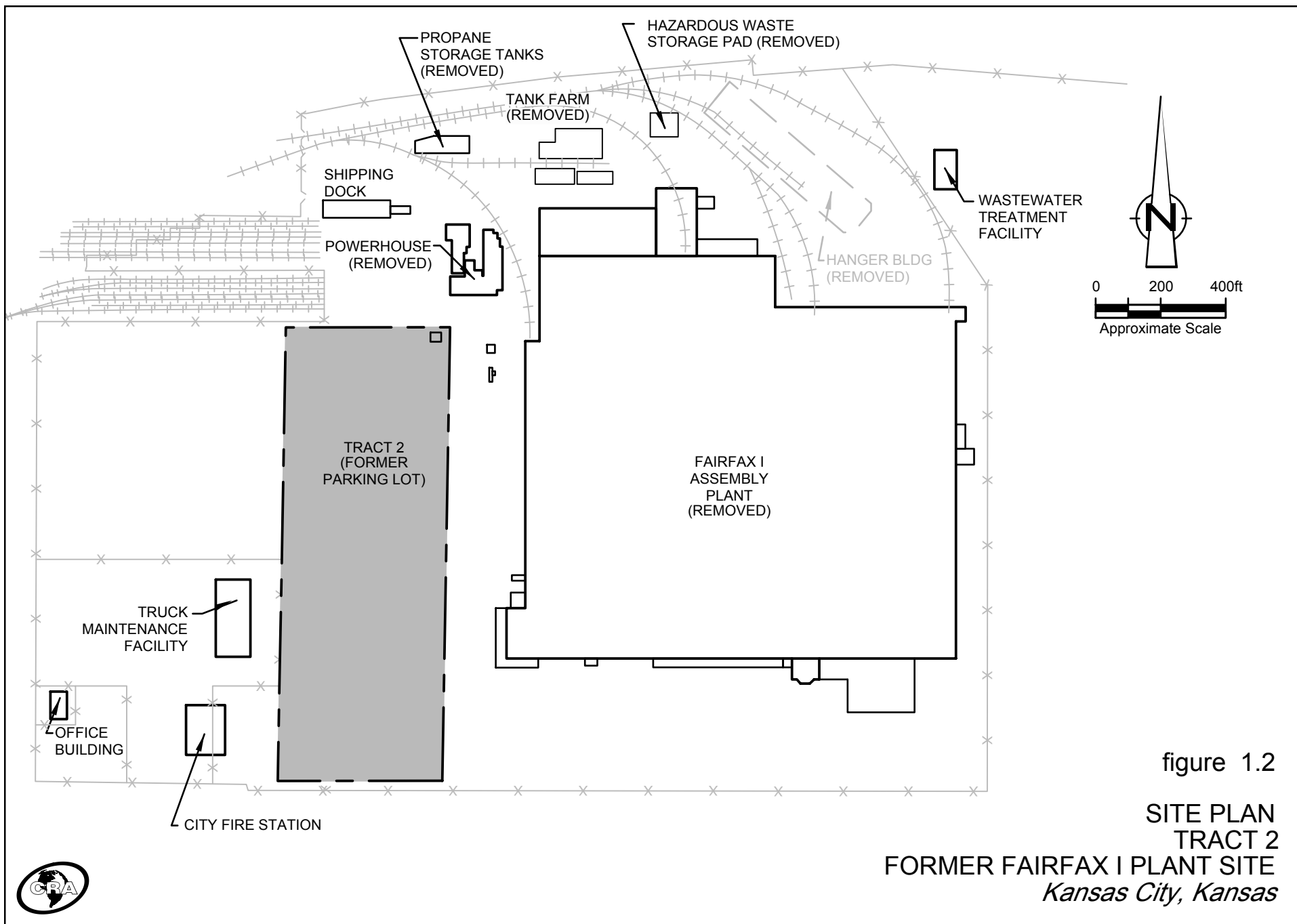


BASE SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE;
NORTH KANSAS CITY, MO-KS 1990
figure 1.1



SITE LOCATION MAP
TRACT 2
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

CRA



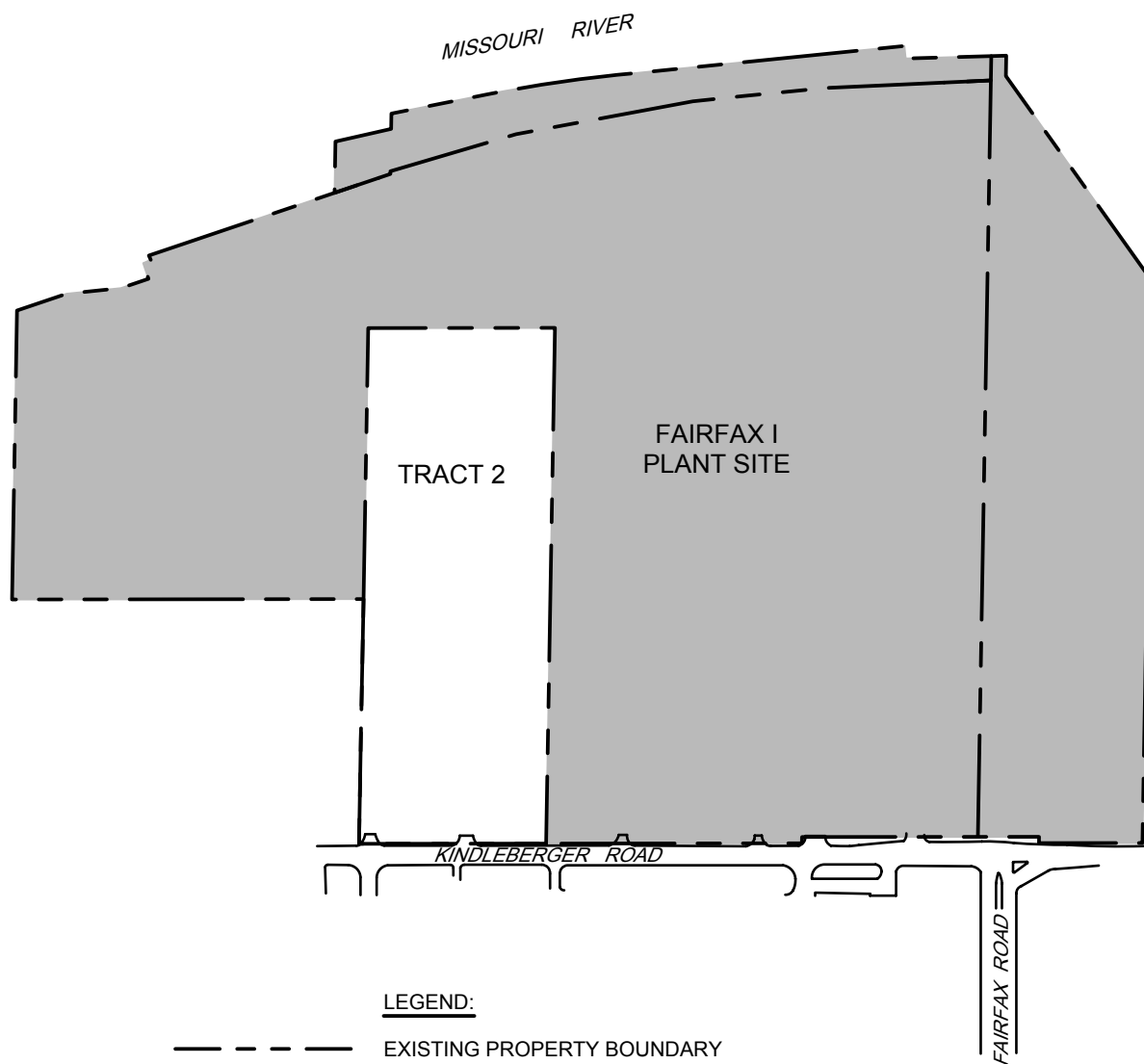
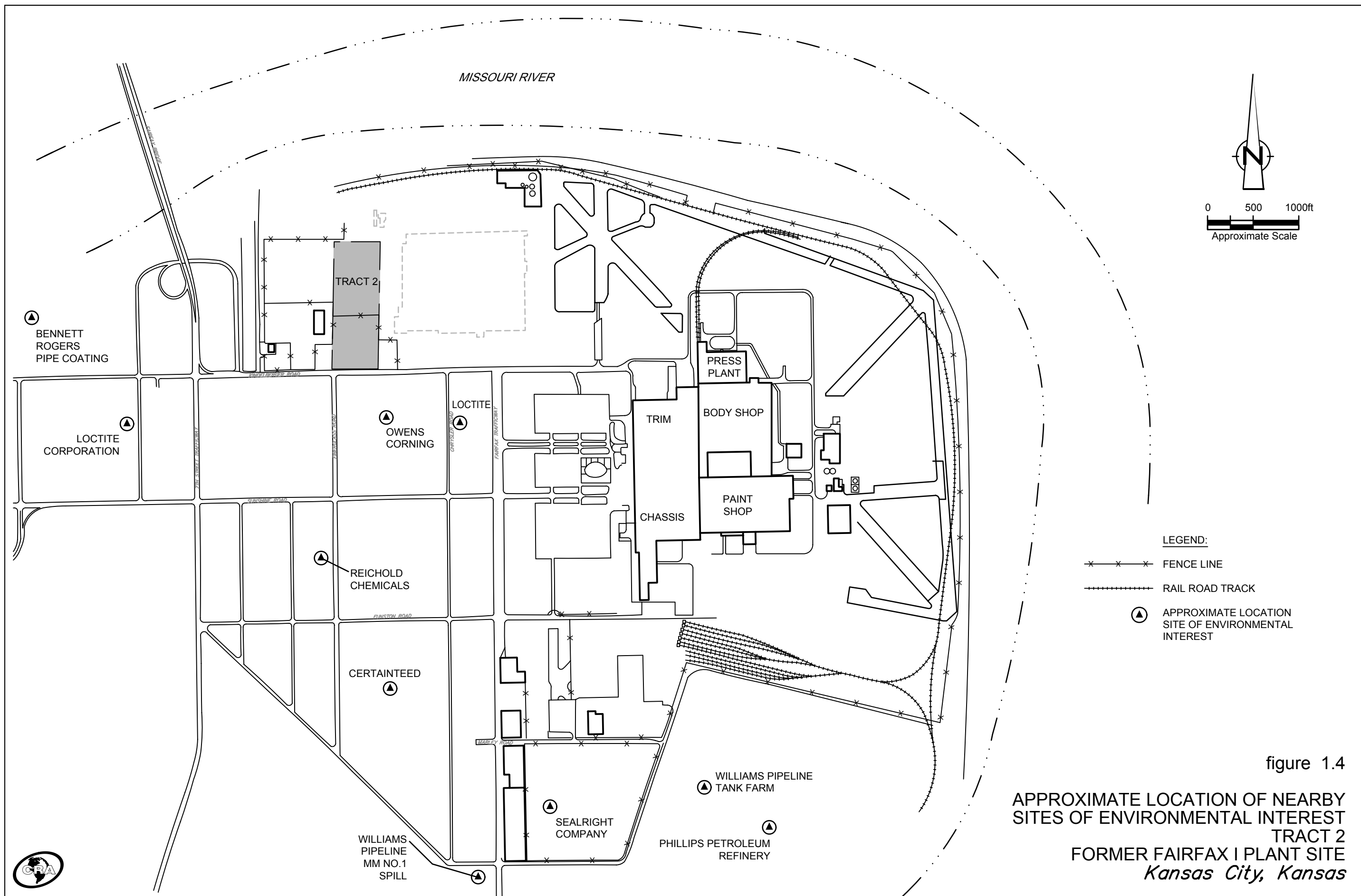
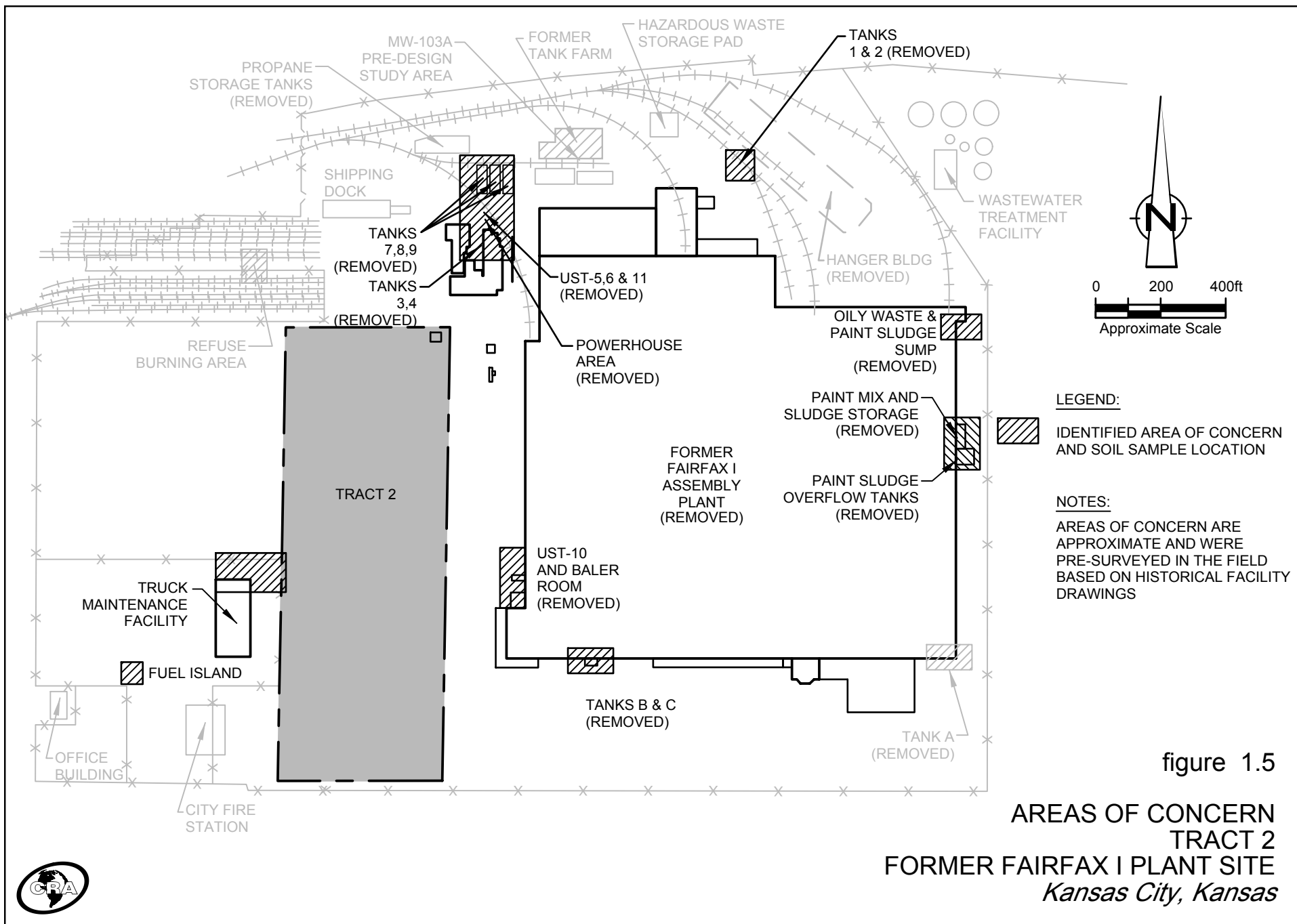


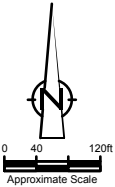
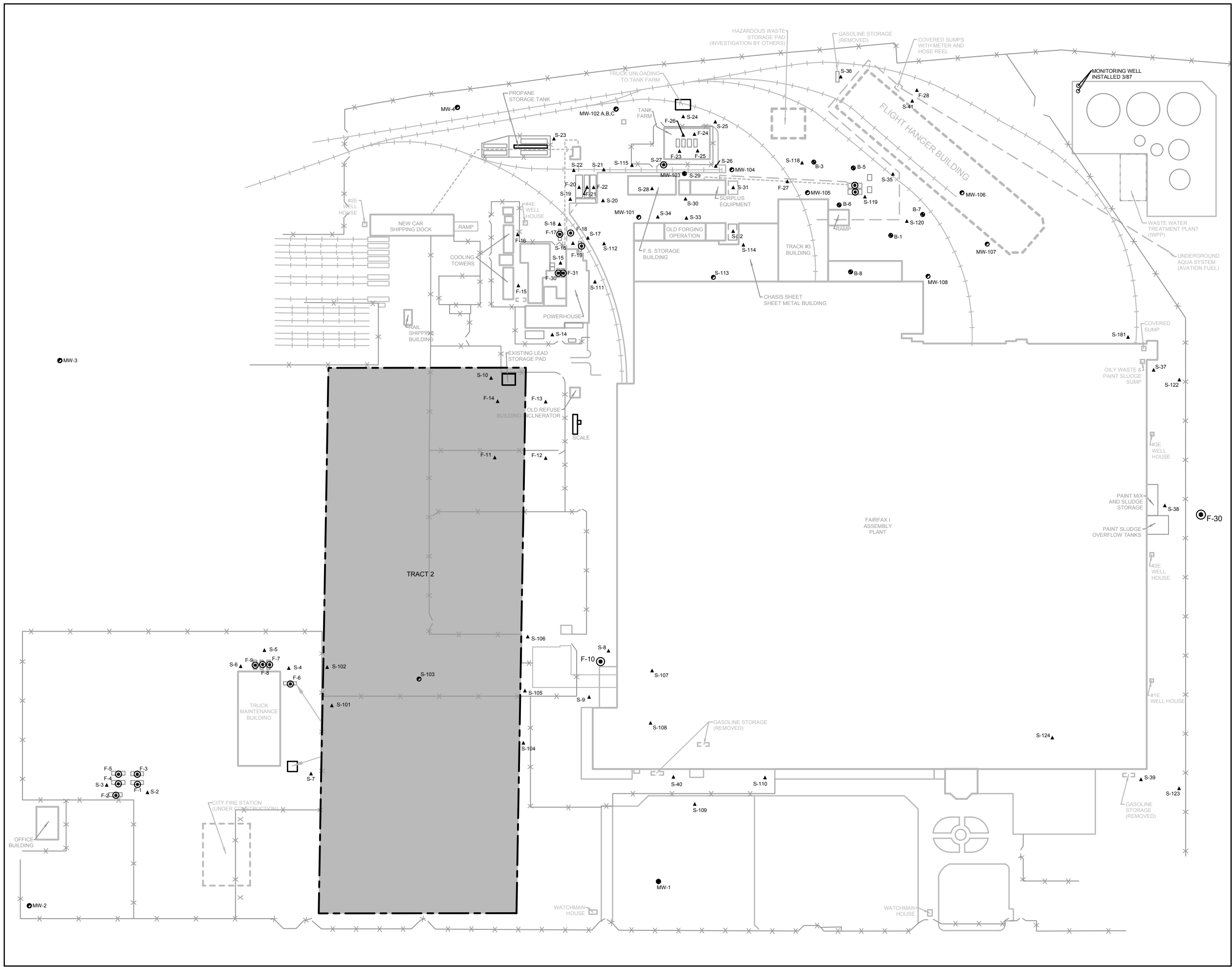
figure 1.3

REVISED SITE BASE MAP
FORMER FAIRFAX I PLANT
Kansas City, Kansas









LEGEND:

- PROPOSED MONITORING WELL LOCATION-INSTALLED BY HDR
- ▲ PROPOSED SOIL BORING LOCATION ADVANCED BY HDR
- EXISTING SOIL BORING LOCATION
- ⊙ SOIL OR GROUNDWATER SAMPLE NOT COLLECTED AT THIS LOCATION ACCORDING TO HDR ENVIRONMENTAL ASSESSMENT SITE INVESTIGATION REPORT DATED FEBRUARY 1988

NOTE:

REFERENCED FROM HDR ENGINEERING, INC.
ENVIRONMENTAL SITE INVESTIGATION
PERFORMED 1987-1988

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



**FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS**

FORMER FAIRFAX I PLANT SITE

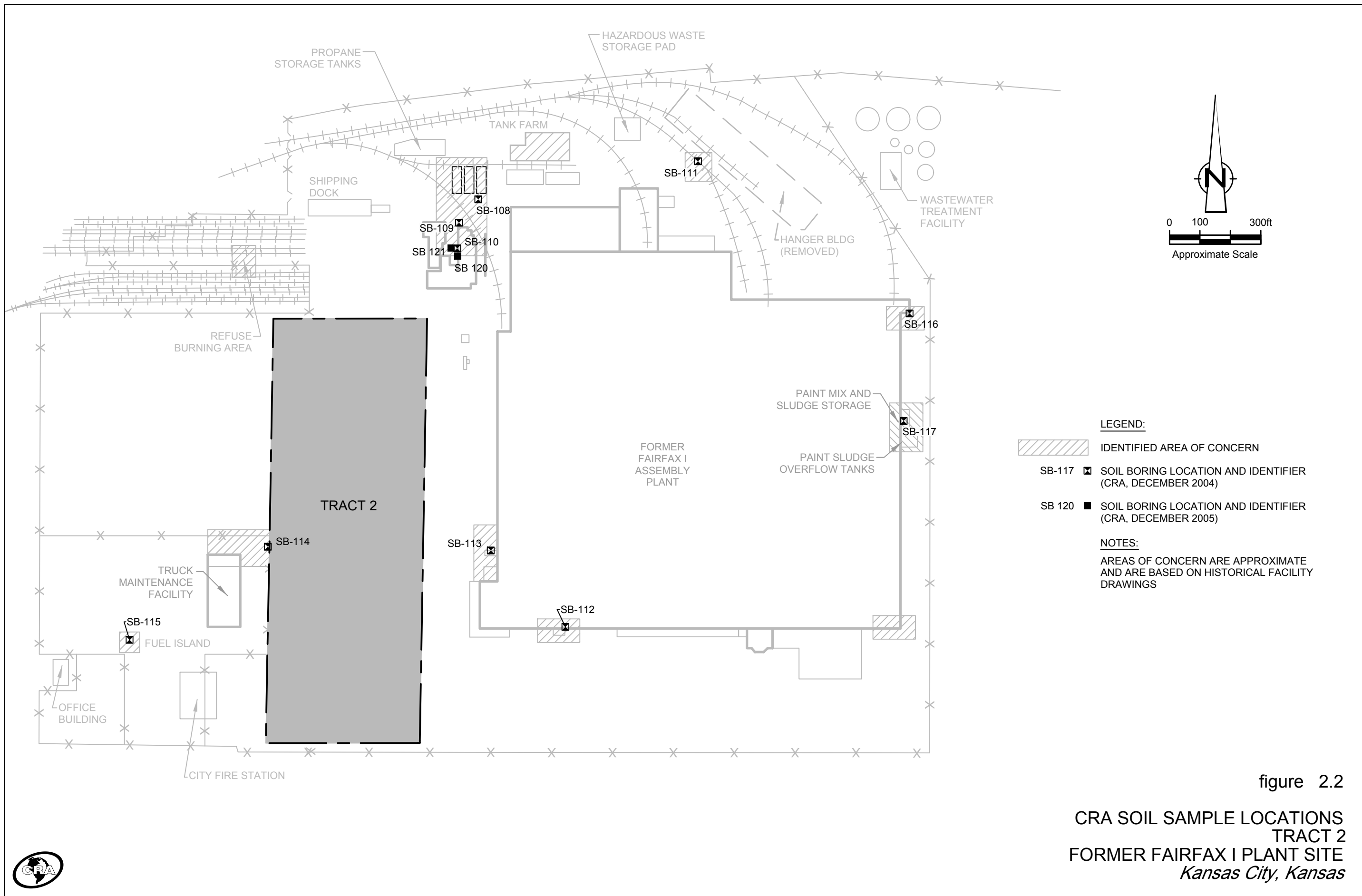
**HDR SAMPLING LOCATIONS
TRACT 2**



CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager: P. HARVEY	Reviewed By: K. RANNAOJA	Date: 6/19/06
Scale: as shown	Project No: 012559-56	Report No: 011
		Drawing No: figure 2.1



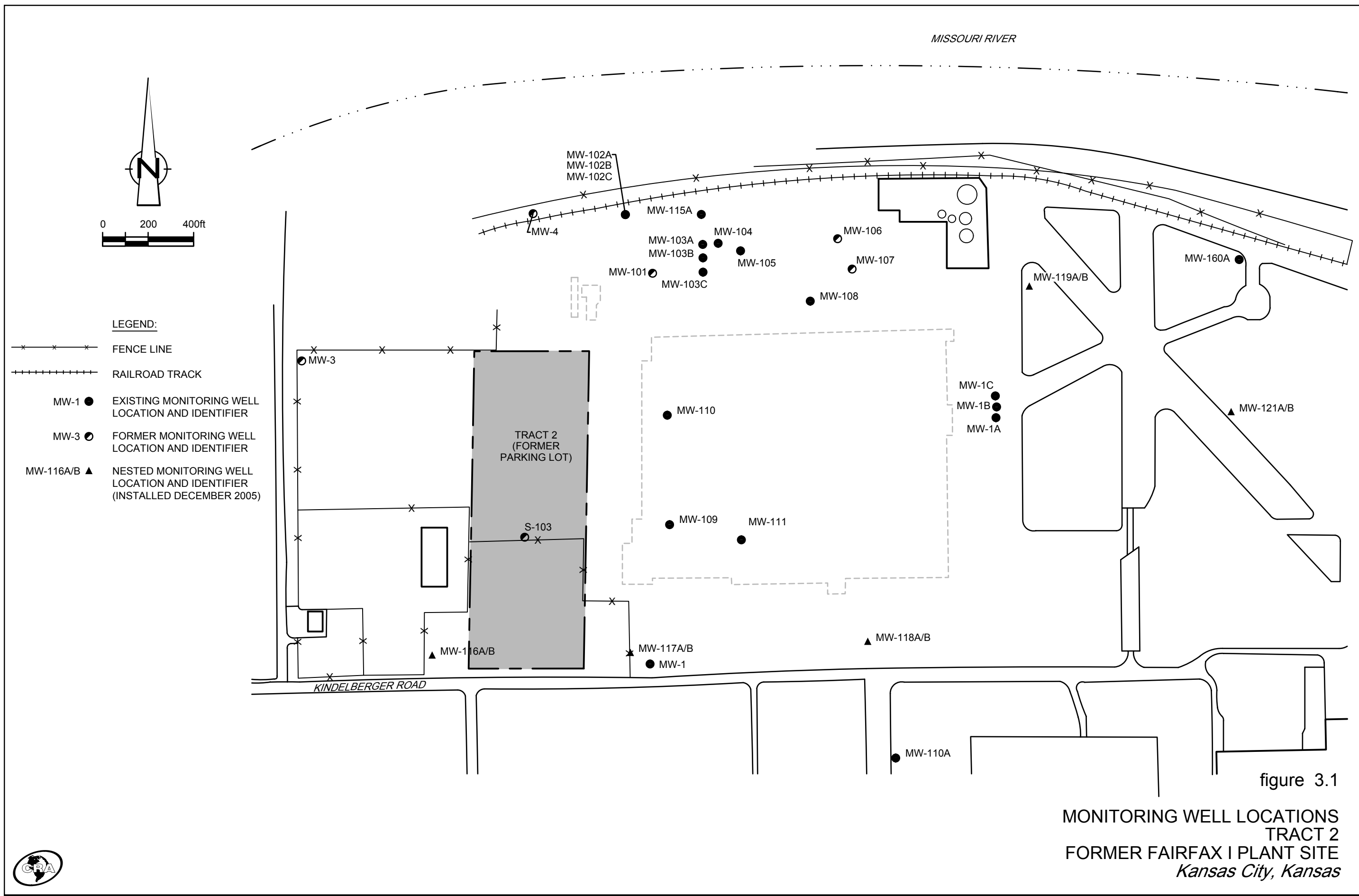


figure 3.1
 MONITORING WELL LOCATIONS
 TRACT 2
 FORMER FAIRFAX I PLANT SITE
 Kansas City, Kansas



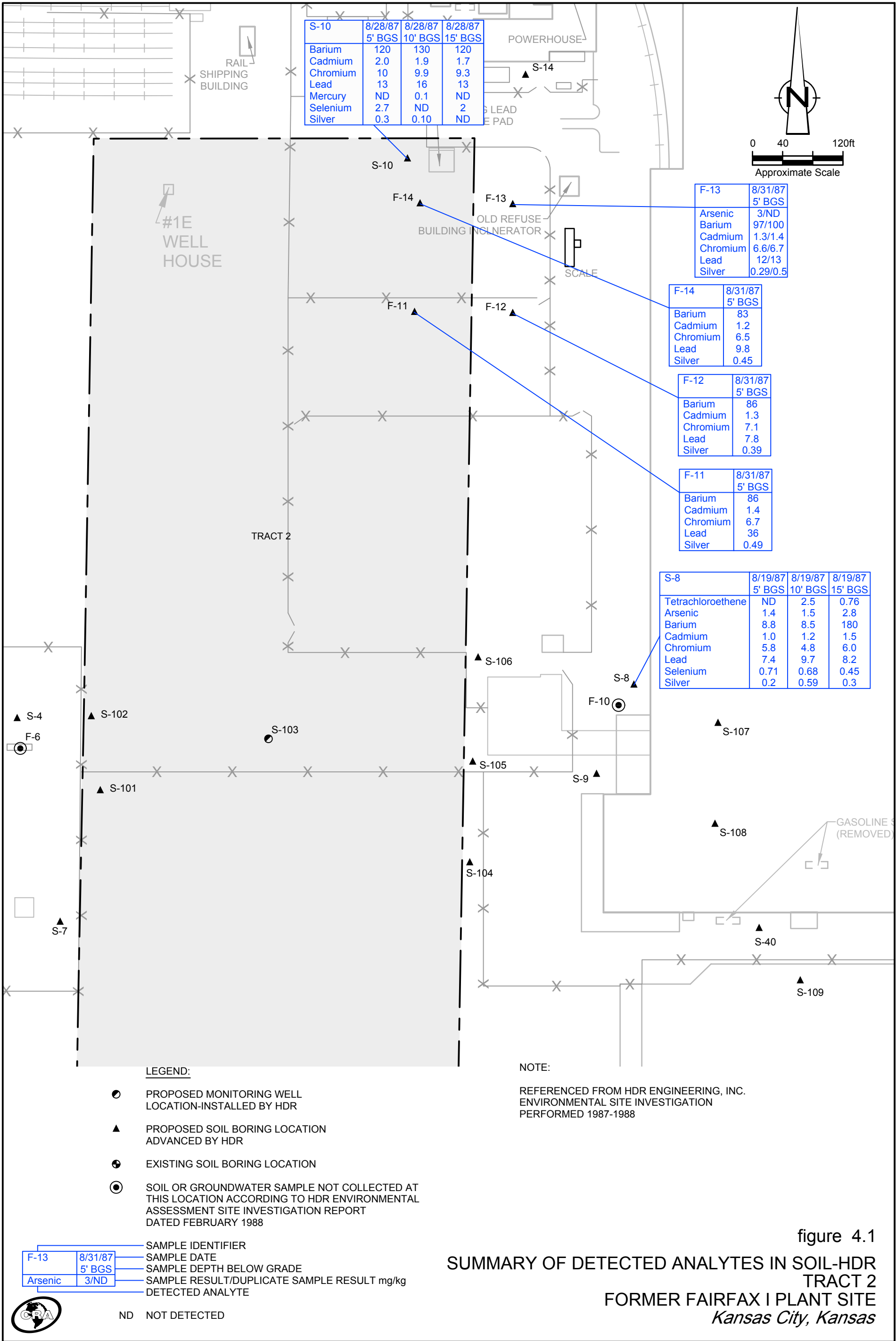
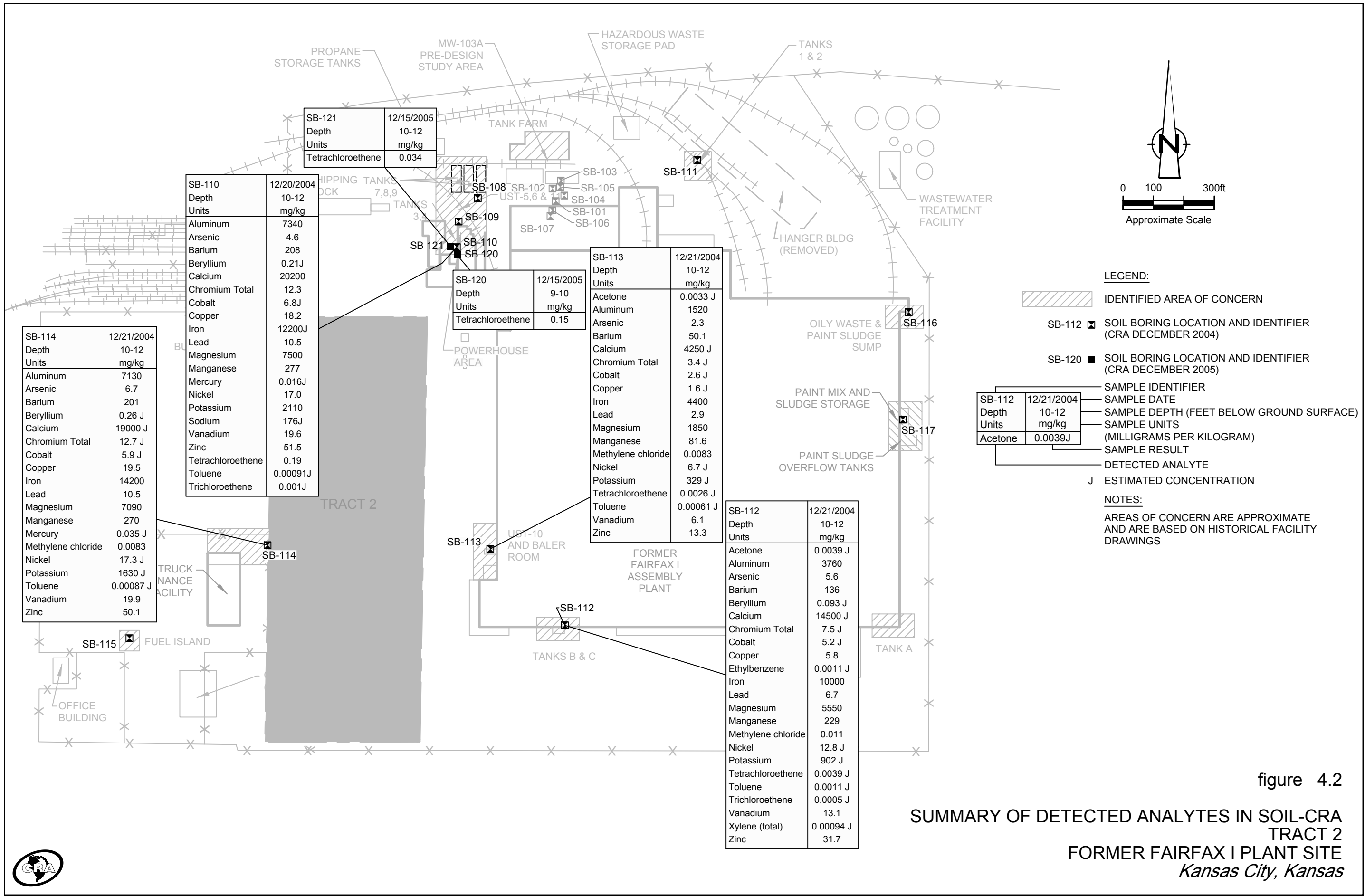


figure 4.1
SUMMARY OF DETECTED ANALYTES IN SOIL-HDR
TRACT 2
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas



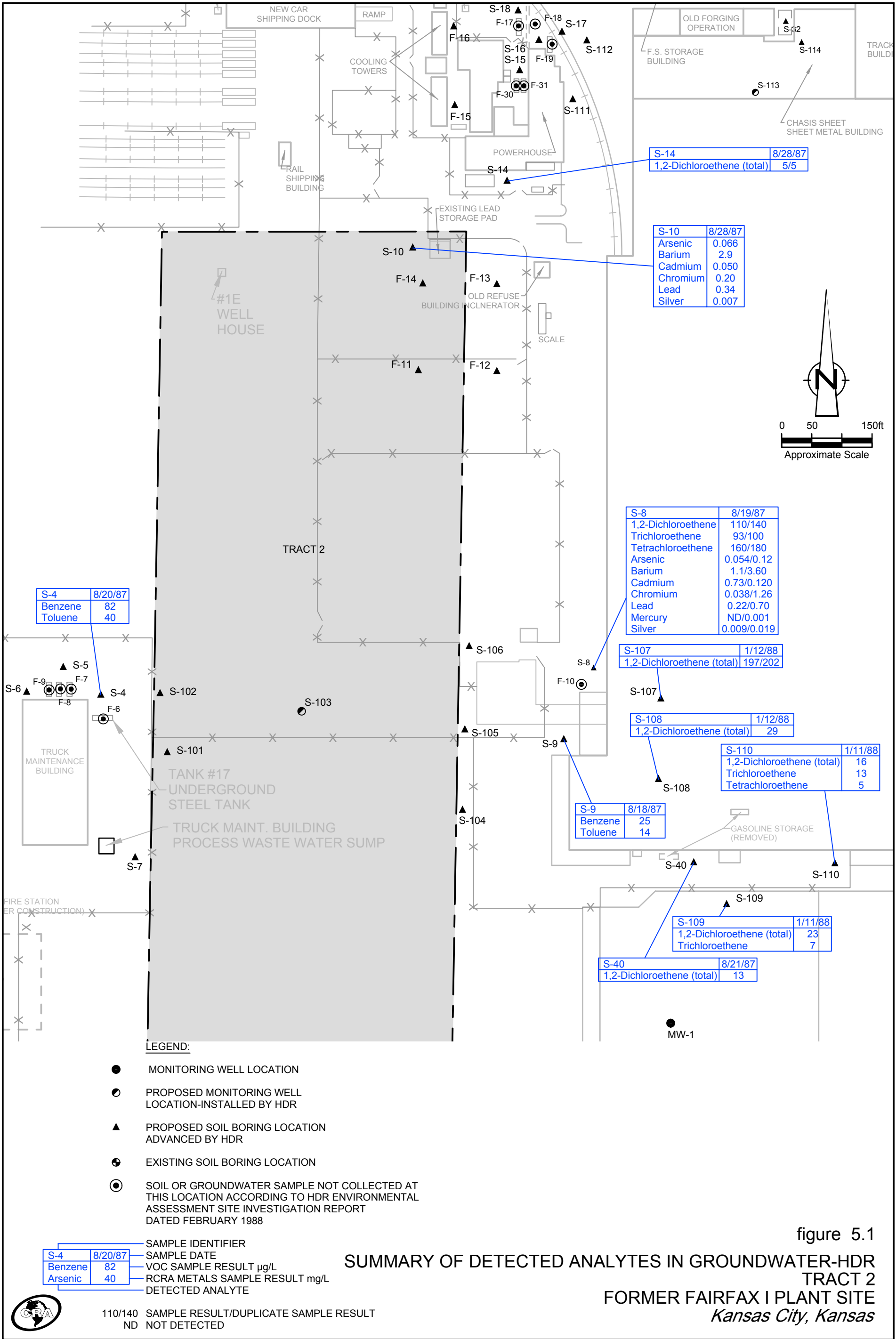
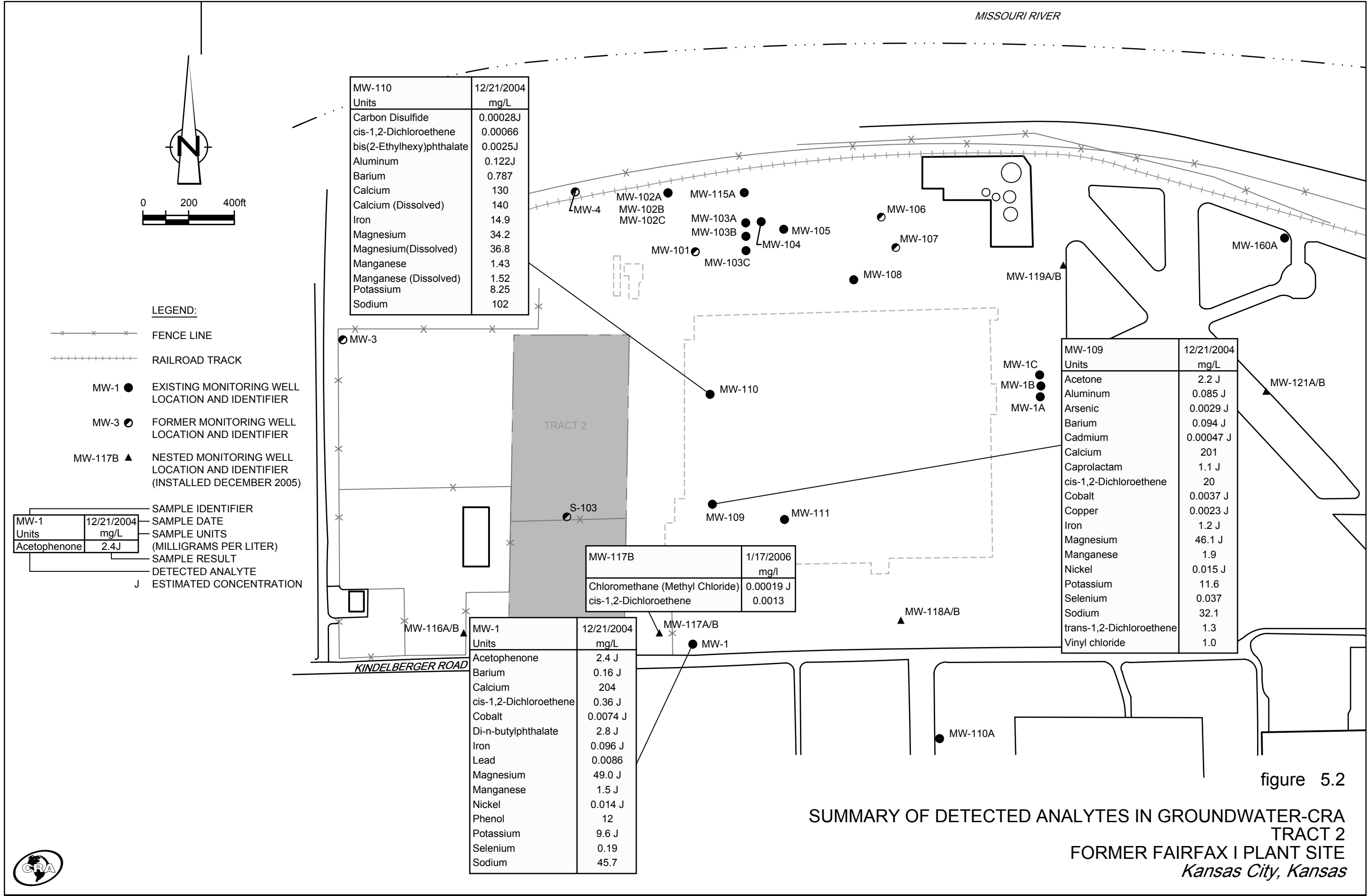


figure 5.1
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER-HDR
TRACT 2
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas



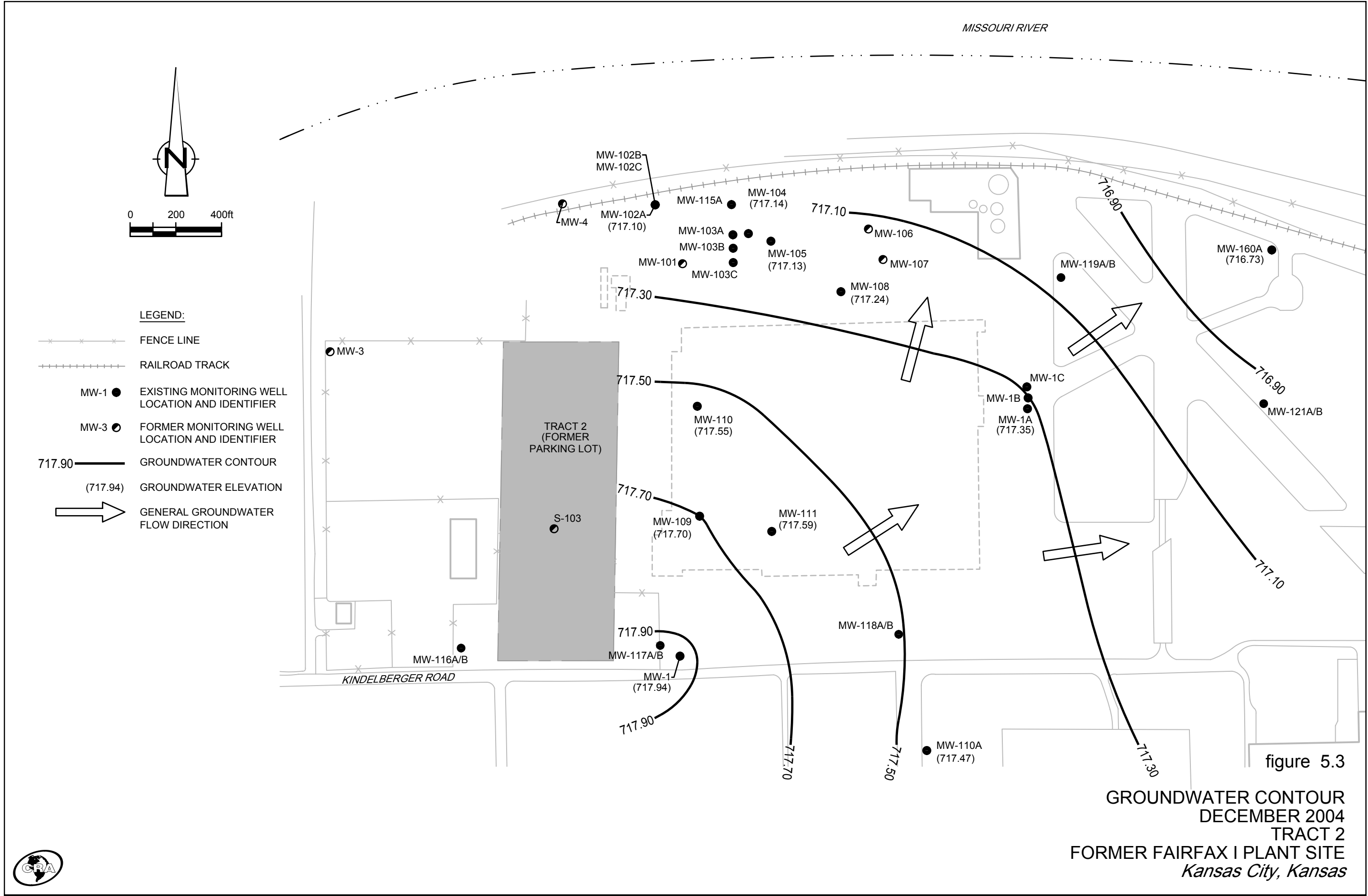


TABLE 1.1

SUMMARY OF MONITORING WELL PURGING PARAMETERS-JANUARY 2006
 AREAS ADJACENT TO TRACT 2
 GM FORMER FAIRFAX I PLANT SITE
 KANSAS CITY, KANSAS

<i>Well Number</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC) ¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm) ²</i>	<i>Temperature (°C) ³</i>	<i>Turbidity (NTU) ⁴</i>	<i>Dissolved Oxygen (mg/l) ⁵</i>	<i>ORP ⁶ (mV) ⁷</i>	<i>Pump</i>
MW-110	01/16 to 01/18/06	28.68	63.93	5.6	5.7	6.90	1,181	14.9	8.76	0.6	- 30.1	Peristaltic
					11.4	6.92	1,180	14.9	6.34	0.56	- 31.4	
					17.1	6.83	1,180	14.9	4.83	0.57	- 31.5	
MW-116A	01/16 to 01/18/06	26.60	34.92	1.3	1.3	6.34	1,462	17.4	6.74	NM ⁸	NM	Peristaltic
					2.6	6.30	1,463	17.5	3.95	NM	NM	
					3.9	6.30	1,463	17.5	3.9	NM	NM	
					5.2	6.27	1,467	17.5	3.82	NM	NM	
MW-116B	01/16 to 01/18/06	26.45	59.21	5.2	5.24	6.42	1,322	16.6	46.3	NM	NM	Peristaltic
					10.5	6.45	1,319	16.7	40.8	NM	NM	
					15.7	6.49	1,313	16.7	16.2	NM	NM	
					20.9	6.48	1,310	16.8	4.8	NM	NM	
MW-117A	01/16 to 01/18/06	26.89	28.95	0.3	0.33	6.47	1,170	18.2	108	NM	NM	Peristaltic
					0.7	6.47	1,174	18.2	20.1	NM	NM	
					1	6.45	1,178	18.4	3.9	NM	NM	

TABLE 1.1

SUMMARY OF MONITORING WELL PURGING PARAMETERS-JANUARY 2006
 AREAS ADJACENT TO TRACT 2
 GM FORMER FAIRFAX I PLANT SITE
 KANSAS CITY, KANSAS

<i>Well Number</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC) ¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm) ²</i>	<i>Temperature (°C) ³</i>	<i>Turbidity (NTU) ⁴</i>	<i>Dissolved Oxygen (mg/l) ⁵</i>	<i>ORP ⁶ (mV) ⁷</i>	<i>Pump</i>
MW-117B	01/16 to 01/18/06	26.90	60.01	5.3	5.3	6.62	1,254	16.6	104	NM	NM	Peristaltic
					10.6	6.64	1,251	16.8	44.2	NM	NM	
					15.9	6.60	1,252	16.8	11.9	NM	NM	
					21.2	6.58	1,247	16.6	4.77	NM	NM	
MW-118A	01/16 to 01/18/06	30.34	31.25	0.1	0.5	NM	NM	NM	NM	NM	NM	Bailer ⁹
MW-118B	01/16 to 01/18/06	30.18	61.26	5.0	5	6.67	1,022	14.9	36.6	NM	NM	Peristaltic
					10	6.69	1,019	14.9	24.7	NM	NM	
					15	6.68	1,011	15.0	10.7	NM	NM	
					20	6.73	1,008	15.0	4.94	NM	NM	
MW-119A	01/16 to 01/18/06	30.28	36.02	0.9	1	6.72	1,230	16.9	24.7	0.45	-89.1	Peristaltic
					2.0	6.72	1,226	17.0	9.48	0.41	-89.2	
					3	6.69	1,219	17.0	4.93	0.39	-78.7	
MW-119B	01/16 to 01/18/06	30.25	61.21	5.0	5	6.88	1,033	16.0	141	NM	NM	Peristaltic
					10.0	7.07	1,033	16.0	49.4	NM	NM	
					15	7.02	1,033	16.0	15.8	NM	NM	
					20	7.03	1,034	16.1	7.99	NM	NM	
					25	7.07	1,033	16.1	4.81	NM	NM	

TABLE 1.1

SUMMARY OF MONITORING WELL PURGING PARAMETERS-JANUARY 2006
 AREAS ADJACENT TO TRACT 2
 GM FORMER FAIRFAX I PLANT SITE
 KANSAS CITY, KANSAS

<i>Well Number</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC) ¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm) ²</i>	<i>Temperature (°C) ³</i>	<i>Turbidity (NTU) ⁴</i>	<i>Dissolved Oxygen (mg/l) ⁵</i>	<i>ORP ⁶ (mV) ⁷</i>	<i>Pump</i>
MW-121A	01/16 to 01/18/06	29.30	37.91	1.4	1.5	6.72	1,227	16.1	>1,000	NM	NM	Peristaltic
					3.0	6.56	1,231	16.3	>1,000	NM	NM	
					4.5	6.59	1,227	16.4	>1,000	NM	NM	
					6	6.55	1,223	16.3	26.3	NM	NM	
					7.5	6.54	1,223	16.4	10.9	NM	NM	
					9	6.53	1,222	16.3	6.36	NM	NM	
					10.5	6.51	1,220	16.3	4.7	NM	NM	
MW-121B	01/16 to 01/18/06	29.55	62.46	5.3	5.5	7.26	962	15.7	930	NM	NM	Peristaltic
					11.0	7.26	962	15.7	556	NM	NM	
					16.5	7.27	962	15.7	36.5	NM	NM	
					21	7.09	962	15.7	8.48	NM	NM	
					26.5	7.27	963	15.7	5.22	NM	NM	
					31	7.25	964	15.6	3.04	NM	NM	

¹ ft BTOC - feet below top of casing

² μS/cm - microsiemens per centimeter

³ °C - degrees celcius

⁴ NTU - nephelometric turbidity units

⁵ mg/L - milligrams per liter

⁶ ORP (mV) - oxidation-reduction potential (millivolts)

⁷ mV - millivolts

⁸ NM - not measured

⁹ insufficient water column. Well purged dry with bailer

TABLE 2.1

SUMMARY OF GROUNDWATER ELEVATIONS (1998-2004)
 AREAS ADJACENT TO TRACT 2
 GM FORMER FAIRFAX I PLANT SITE
 KANSAS CITY, KANSAS

<i>Monitoring Well</i>	<i>Top of Casing Elevation (ft AMSL)¹</i>	<i>Total Depth (ft BTOC)²</i>	<i>October 1998</i>		<i>May 1999</i>		<i>December 2004</i>	
			<i>Water Level (ft BTOC)</i>	<i>Groundwater Elevation (ft AMSL)</i>	<i>Water Level (ft BTOC)</i>	<i>Groundwater Elevation (ft AMSL)</i>	<i>Water Level (ft BTOC)</i>	<i>Groundwater Elevation (ft AMSL)</i>
MW-1	746.43	32.25	19.23	727.20	16.84	729.59	28.49	717.94
MW-1A	745.93	37.19	18.95	726.98	15.54	726.98	28.58	717.35
MW-102A	748.82	31.02	NM ³	NM	17.24	731.58	31.72	717.10
MW-103A	747.71	32.30	20.99	726.72	16.27	731.44	NM	NM
MW-104	746.51	30.05	NM	NM	15.02	731.49	29.37	717.14
MW-105	746.70	32.75	NM	NM	15.29	731.41	29.57	717.13
MW-108	747.17	31.61	19.40	727.77	16.08	731.09	29.93	717.24
MW-109	746.11	32.50	19.03	727.08	16.07	730.04	28.41	717.70
MW-110	745.79	63.71	18.83	726.96	15.26	730.53	28.24	717.55
MW-110A	743.89	36.45	16.35	727.54	15.58	728.31	26.42	717.47
MW-111	745.96	61.10	NM	NM	NM	NM	28.37	717.59
MW-115A	748.07	29.35	NI ⁴	NI	16.52	731.55	Dry ⁵	NM
MW-160A	746.56	37.55	20.35	726.21	15.11	731.45	29.83	716.73

¹ ft AMSL - feet above mean sea level

² ft BTOC - feet below top of casing

³ NM - not measured during this event

⁴ NI - well not yet installed

⁵ Dry - no groundwater was located in this monitoring well location during this event

TABLE 2.2
SUMMARY OF GROUNDWATER ELEVATIONS (2006)
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Monitoring Well</i>	<i>Top of Casing Elevation (ft AMSL) ¹</i>	<i>January 2006</i>	
		<i>Water Level (ft BTOC) ²</i>	<i>Groundwater Elevation (ft AMSL)</i>
MW-1	746.43	NM ³	NM
MW-1A	745.93	29.02	716.91
MW-1B	745.40	NA	NA
MW-1C	746.13	29.15	716.98
MW-102A	748.82	DRY ⁴	DRY
MW-102B	746.13	NA ⁵	NA
MW-102C	749.20	32.18	717.02
MW-103A	747.71	31.82 ⁶	715.88
MW-103B	746.30	29.22	717.08
MW-103C	745.90	28.99	716.91
MW-104	746.51	29.52	716.99
MW-105	746.70	29.74	716.96
MW-108	747.17	30.22	716.95
MW-109	746.11	28.97	717.14
MW-110	745.79	28.68	717.11
MW-110A	743.89	26.91	716.98
MW-111	745.96	NM	NM
MW-115A	748.07	DRY	DRY
MW-116A	743.54	26.60	716.94
MW-116B	743.37	26.45	716.92
MW-117A	743.72	26.89	716.83
MW-117B	743.75	26.90	716.85
MW-118A	747.02	30.34	716.68
MW-118B	746.86	30.18	716.68
MW-119A	746.69	30.28	716.41
MW-119B	746.65	30.25	716.40
MW-121A	745.53	29.30	716.23
MW-121B	745.80	29.55	716.25
MW-160A	746.56	29.99	716.57

¹ ft AMSL - feet above mean sea level

² ft BTOC - feet below top of casing

³ NM - well location was not measured during this site visit

⁴ DRY - groundwater was not present within well during this site visit

⁵ NA - well location was not accessible during this site visit

⁶ approximately 1.34 feet of free product was observed in MW-103A during this site visit

TABLE 3.1

SUMMARY OF DETECTED ANALYTES IN SOIL - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>			<i>*F-11</i>	<i>F-12</i>	<i>F-13</i>	<i>F-13</i>	<i>*F-14</i>	<i>S-4</i>
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>Non-Residential Soil to GW</i>	<i>8/31/1987</i>	<i>9/1/1987</i>	<i>8/31/1987</i>	<i>8/31/1987</i>	<i>8/31/1987</i>	<i>8/20/1987</i>
<i>Sample Depth: (ft bgs) ¹:</i>	<i>Soil Pathway ²</i>	<i>Protection Pathway ³</i>	5	5	5	5	5	5/10/15
<i>QA/QC ⁴:</i>						<i>Duplicate</i>		
<i>Parameters:</i>								
<i>Volatile Organic Compounds (µg/kg) ⁵</i>								
Benzene	17,000	80	NA ⁶	NA	NA	NA	NA	<500 ⁷
Tetrachloroethene	140,000	180	NA	NA	NA	NA	NA	<500
Toluene	1,000,000	40,000	NA	NA	NA	NA	NA	<500
Ethylbenzene	650,000	55,000	NA	NA	NA	NA	NA	<500
Xylenes (total)	700,000	700,000	NA	NA	NA	NA	NA	<500
4-Methyl-2-pentanone	3,600,000	1,400	NA	NA	NA	NA	NA	<500
<i>RCRA Metals (mg/kg) ⁸</i>								
Arsenic	38	5.84	<2	<2	3	<2	<2	NA
Barium	140,000	NR ¹⁰	86	86	97	100	83	NA
Cadmium	1,000	NR	1.4	1.3	1.3	1.4	1.2	NA
Chromium	4,000	NR	6.7	7.1	6.6	6.7	6.5	NA
Lead	1,000	NR	36	7.8	12	13	9.8	NA
Mercury	20	NR	<0.1	<0.1	<0.1	<0.1	<0.1	NA
Selenium	10,000	NR	<1	<2	<1	<1	<1	NA
Silver	10,000	NR	0.49	0.39	0.29	0.5	0.45	NA
<i>Pesticides/PCBs (mg/kg)</i>	Various	Various	NA	NA	NA	NA	NA	NA
<i>PCBs (mg/kg)</i>	9.5	53	<1	NA	<1	<1	<1	NA

TABLE 3.1

SUMMARY OF DETECTED ANALYTES IN SOIL - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>			S-5	S-6	S-7	S-8	S-8	S-8
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>Non-Residential Soil to GW</i>	<i>8/20/1987</i>	<i>8/20/1987</i>	<i>8/19/1987</i>	<i>8/19/1987</i>	<i>8/19/1987</i>	<i>8/19/1987</i>
<i>Sample Depth: (ft bgs) ¹:</i>	<i>Soil Pathway ²</i>	<i>Protection Pathway ³</i>	<i>5/10/15</i>	<i>5/10/15</i>	<i>5/10/15</i>	<i>5</i>	<i>10</i>	<i>15</i>
<i>QA/QC ⁴:</i>								
<i>Parameters:</i>								
<i>Volatile Organic Compounds (µg/kg) ⁵</i>								
Benzene	17,000	80	<500	<500	<500	<500	<500	<500
Tetrachloroethene	140,000	180	<500	<500	<500	<500	2,500 ⁹	760
Toluene	1,000,000	40,000	<500	<500	<500	<500	<500	<500
Ethylbenzene	650,000	55,000	<500	<500	<500	<500	<500	<500
Xylenes (total)	700,000	700,000	<500	<500	<500	<500	<500	<500
4-Methyl-2-pentanone	3,600,000	1,400	<500	<500	<500	<500	<500	<500
<i>RCRA Metals (mg/kg) ⁸</i>								
Arsenic	38	5.84	NA	NA	NA	1.4	1.5	2.8
Barium	140,000	NR ¹⁰	NA	NA	NA	8.8	8.5	180
Cadmium	1,000	NR	NA	NA	NA	1.0	1.2	1.5
Chromium	4,000	NR	NA	NA	NA	5.8	4.8	6.0
Lead	1,000	NR	NA	NA	NA	7.4	9.7	8.2
Mercury	20	NR	NA	NA	NA	<0.1	<0.1	<0.1
Selenium	10,000	NR	NA	NA	NA	0.71	0.68	0.45
Silver	10,000	NR	NA	NA	NA	0.2	0.59	0.3
<i>Pesticides/PCBs (mg/kg)</i>	Various	Various	NA	NA	NA	<1	<1	<1
<i>PCBs (mg/kg)</i>	9.5	53	NA	NA	NA	NA	NA	NA

TABLE 3.1

SUMMARY OF DETECTED ANALYTES IN SOIL - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>			S-8	S-9	*S-10	*S-10	*S-10
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>Non-Residential Soil to GW</i>	<i>8/19/1987</i>	<i>8/18/1987</i>	<i>8/28/1987</i>	<i>8/28/1987</i>	<i>8/28/1987</i>
<i>Sample Depth: (ft bgs) ¹:</i>	<i>Soil Pathway ²</i>	<i>Protection Pathway ³</i>	<i>20/25/30</i>	<i>5/10/15</i>	<i>5</i>	<i>10</i>	<i>15</i>
<i>QA/QC ⁴:</i>							
<i>Parameters:</i>							
<i>Volatile Organic Compounds (µg/kg) ⁵</i>							
Benzene	17,000	80	<500	<500	<500	<500	<500
Tetrachloroethene	140,000	180	<500	<500	<500	<500	<500
Toluene	1,000,000	40,000	<500	<500	<500	<500	<500
Ethylbenzene	650,000	55,000	<500	<500	<500	<500	<500
Xylenes (total)	700,000	700,000	<500	<500	<500	<500	<500
4-Methyl-2-pentanone	3,600,000	1,400	<500	<500	<500	<500	<500
<i>RCRA Metals (mg/kg) ⁸</i>							
Arsenic	38	5.84	NA	NA	<2	<2	<2
Barium	140,000	NR ¹⁰	NA	NA	120	130	120
Cadmium	1,000	NR	NA	NA	2.0	1.9	1.7
Chromium	4,000	NR	NA	NA	10	9.9	9.3
Lead	1,000	NR	NA	NA	13	16	13
Mercury	20	NR	NA	NA	<0.1	0.1	<0.1
Selenium	10,000	NR	NA	NA	2.7	<1	2
Silver	10,000	NR	NA	NA	0.3	0.10	<0.1
<i>Pesticides/PCBs (mg/kg)</i>	Various	Various	<1	NA	NA	NA	NA
<i>PCBs (mg/kg)</i>	9.5	53	NA	NA	NA	NA	NA

TABLE 3.1

**SUMMARY OF DETECTED ANALYTES IN SOIL - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS**

<i>Sample Location:</i>			<i>S-14</i>	<i>S-14</i>	<i>S-40</i>	<i>S-40</i>	<i>S-107</i>	<i>S-107</i>	<i>S-108</i>	<i>S-108</i>
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>Non-Residential Soil to GW</i>	<i>8/28/1987</i>	<i>8/28/1987</i>	<i>8/21/1987</i>	<i>8/21/1987</i>	<i>1/12/1988</i>	<i>1/12/1988</i>	<i>1/12/1988</i>	<i>1/12/1988</i>
<i>Sample Depth: (ft bgs) ¹:</i>	<i>Soil Pathway ²</i>	<i>Protection Pathway ³</i>	<i>5/10/15</i>	<i>5</i>	<i>5/10/15</i>	<i>15</i>	<i>5/10/15</i>	<i>20/25/30</i>	<i>5/10/15</i>	<i>20/25/30</i>
<i>QA/QC ⁴:</i>				<i>Duplicate</i>		<i>Duplicate</i>				
<i>Parameters:</i>										
<i>Volatile Organic Compounds (µg/kg) ⁵</i>										
Benzene	17,000	80	<500	<500	<500	<500	<500	<500	<500	<500
Tetrachloroethene	140,000	180	<500	<500	<500	<500	<500	<500	<500	<500
Toluene	1,000,000	40,000	<500	<500	<500	<500	<500	<500	<500	<500
Ethylbenzene	650,000	55,000	<500	<500	<500	<500	<500	<500	<500	<500
Xylenes (total)	700,000	700,000	<500	<500	<500	<500	<500	<500	<500	<500
4-Methyl-2-pentanone	3,600,000	1,400	<500	<500	<500	<500	<500	<500	<500	<500
<i>RCRA Metals (mg/kg) ⁸</i>										
Arsenic	38	5.84	NA	NA	NA	NA	NA	NA	NA	NA
Barium	140,000	NR ¹⁰	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	1,000	NR	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	4,000	NR	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	NR	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	20	NR	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10,000	NR	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10,000	NR	NA	NA	NA	NA	NA	NA	NA	NA
<i>Pesticides/PCBs (mg/kg)</i>	Various	Various	NA	NA	NA	NA	NA	NA	NA	NA
<i>PCBs (mg/kg)</i>	9.5	53	NA	NA	NA	NA	NA	NA	NA	NA

* Sample location is within Tract 2

¹ ft bgs - feet below ground surface

² Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil Pathway Scenario, KDHE, March 1, 2003.

³ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil to Groundwater Protection Pathway Scenario, KDHE, March 1, 2003.

⁴ QA/QC - Quality Assurance/Quality Control

⁵ µg/kg - micrograms per kilogram

⁶ NA - Analysis not requested

⁷ < - not detected at the associated value

⁸ mg/kg - milligrams per kilogram

⁹ 2,500 - denotes exceedence of KDHE Tier 2 soil to groundwater pathway regulatory standard

¹⁰ NR - no regulatory standard

TABLE 3.2

SUMMARY OF DETECTED ANALYTES IN SOIL - DECEMBER 2004
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>		SB-110		SB-112	SB-113	SB-114
<i>Sample ID:</i>		S-122004-DS-117		S-122104-DS-119	S-122104-DS-120	S-122104-DS-121
<i>Sample Date:</i>		12/20/2004		12/21/2004	12/21/2004	12/21/2004
<i>Sample Depth (ft bgs) ¹:</i>		10 - 12 ft		10 - 12 ft	10 - 12 ft	10 - 12 ft
		Confirmatory		Confirmatory	Confirmatory	Confirmatory
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential Soil Pathway ²</i>	<i>Non-Residential Soil to GW Protection Pathway ³</i>			
<i>Volatile Organic Compounds</i>		<i>a</i>	<i>b</i>			
1,2-Dichloroethane	mg/kg ⁴	7.3	0.04	--	--	--
Acetone	mg/kg	6200	3.8	--	0.0039 J ⁵	--
Ethylbenzene	mg/kg	650	55	--	0.0011 J	--
Methylene chloride	mg/kg	230	0.03	--	0.011	0.0083
Tetrachloroethene	mg/kg	140	0.18	0.19 ⁶	0.0039 J	--
Toluene	mg/kg	1000	40	0.00091 J	0.0011 J	0.00061 J
Trichloroethene	mg/kg	98	0.20	0.001 J	0.0005 J	--
Xylene (total)	mg/kg	700	700	--	0.00094 J	--
<i>Semivolatile Organic Compounds</i>						
2,4-Dimethylphenol	mg/kg	14000	81	0.048 J	--	--
<i>Metals</i>						
Aluminum	mg/kg	NA ⁷	NA	7340	3760	1520
Arsenic	mg/kg	38	5.84	4.6	5.6	2.3
Barium	mg/kg	140000	NA	208	136	50.1
Beryllium	mg/kg	4100	NA	0.21 J	0.093 J	--
Calcium	mg/kg	NA	NA	20200	14500 J	4250 J
Chromium Total	mg/kg	4000	NA	12.3	7.5 J	3.4 J
Cobalt	mg/kg	NA	NA	6.8 J	5.2 J	2.6 J
Copper	mg/kg	76000	NA	18.2	5.8	1.6 J
Iron	mg/kg	NA	NA	12200 J	10000	4400
Lead	mg/kg	1000	NA	10.5	6.7	2.9
Magnesium	mg/kg	NA	NA	7500	5550	1850
Manganese	mg/kg	95000	NA	277	229	81.6
Mercury	mg/kg	20	NA	0.016 J	--	--
Nickel	mg/kg	41000	NA	17.0	12.8 J	6.7 J
Potassium	mg/kg	NA	NA	2110	902 J	329 J
Sodium	mg/kg	NA	NA	176 J	--	--
Vanadium	mg/kg	14000	NA	19.6	13.1	6.1
Zinc	mg/kg	610000	NA	51.5	31.7	13.3
Total Solids	%	--	--	72.6	81.5	95.6

¹ ft bgs - feet below ground surface² Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil Pathway Scenario, KDHE, March 1, 2003³ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil to Groundwater Protection Pathway Scenario, KDHE, March 1, 2003⁴ mg/kg - milligrams per kilogram⁵ J - estimated at the associated value⁶ Boxed results indicate exceedence of KDHE Tier 2 soil to groundwater pathway regulatory standard⁷ NA - no regulatory standard

TABLE 3.3

**SUMMARY OF DETECTED ANALYTES IN SOIL -
DECEMBER 2005
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS**

<i>Sample Location:</i>				<i>SB-120</i>	<i>SB-121</i>
<i>Sample ID:</i>				<i>S-012559-121505-SC-002</i>	<i>S-012559-122005-SC-003</i>
<i>Sample Date:</i>				<i>12/15/2005</i>	<i>12/20/2005</i>
<i>Sample Depth (ft bgs)¹:</i>				<i>10 - 12 ft</i>	<i>9 - 10 ft</i>
				<i>Confirmatory</i>	<i>Confirmatory</i>
<i>Parameters</i>	<i>Units</i>	<i>Non-Residential Soil Pathway²</i>	<i>Non-Residential Soil to GW Protection Pathway³</i>		
<i>Volatile Organic Compounds</i>		<i>a</i>	<i>b</i>		
Tetrachloroethene	mg/kg ⁴	140	0.18	0.034	0.15

¹ ft bgs - feet below ground surface

² Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil Pathway Scenario, KDHE, March 1, 2003

³ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Soil to Groundwater Protection Pathway Scenario, KDHE, March 1, 2003

⁴ mg/kg - milligrams per kilogram

TABLE 4.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>		<i>S-4</i>	<i>S-5</i>	<i>S-6</i>	<i>S-7</i>
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>8/20/1987</i>	<i>8/20/1987</i>	<i>8/20/1987</i>	<i>8/19/1987</i>
<i>QA/QC¹:</i>	<i>GW Pathway²</i>				
<i>Parameters:</i>					
<i>Volatile Organic Compounds (µg/L)³</i>					
Acetone	930	<5 ⁴	<5	<5	<5
1,2-Dichloroethene (total)	70	<5	<5	<5	<5
2-Butanone	2,800	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5
Benzene	5	82	<5	<5	<5
4-Methyl-2-pentanone	230	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5
Toluene	1000	40	<5	<5	<5
Ethylbenzene	700	63	<5	<5	<5
Xylenes (total)	10,000	31	<5	<5	<5
<i>Metals (mg/L)⁷</i>					
Arsenic	0.01	NA	NA	NA	NA
Barium	2.0	NA	NA	NA	NA
Cadmium	0.005	NA	NA	NA	NA
Chromium	0.1	NA	NA	NA	NA
Lead	0.015	NA	NA	NA	NA
Mercury	0.002	NA	NA	NA	NA
Selenium	0.05	NA	NA	NA	NA
Silver	0.1	NA	NA	NA	NA
<i>Pesticides/PCBs (µg/L)</i>	<i>Various</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>

TABLE 4.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>		S-8	S-8	S-9	*S-10	S-14	S-14
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>8/19/1987</i>	<i>8/19/1987</i>	<i>8/18/1987</i>	<i>8/28/1987</i>	<i>8/28/1987</i>	<i>8/28/1987</i>
<i>QA/QC¹:</i>	<i>GW Pathway²</i>		<i>Duplicate</i>				<i>Duplicate</i>
<i>Parameters:</i>							
<i>Volatile Organic Compounds (µg/L)³</i>							
Acetone	930	<5	<5	<5	NA ⁵	<5	<5
1,2-Dichloroethene (total)	70	110 ⁶	140	<5	NA	5	5
2-Butanone	2,800	<5	<5	<5	NA	<5	<5
Trichloroethene	5	93	100	<5	NA	<5	<5
Benzene	5	<5	<5	25	NA	<5	<5
4-Methyl-2-pentanone	230	<5	<5	<5	NA	<5	<5
Tetrachloroethene	5	160	180	<5	NA	<5	<5
Toluene	1000	<5	<5	14	NA	<5	<5
Ethylbenzene	700	<5	<5	<5	NA	<5	<5
Xylenes (total)	10,000	<5	<5	<5	NA	<5	<5
<i>Metals (mg/L)⁷</i>							
Arsenic	0.01	0.054	0.12	NA	0.066	NA	NA
Barium	2.0	1.1	3.60	NA	2.9	NA	NA
Cadmium	0.005	0.73	0.120	NA	0.050	NA	NA
Chromium	0.1	0.038	1.26	NA	0.20	NA	NA
Lead	0.015	0.22	0.70	NA	0.34	NA	NA
Mercury	0.002	<0.001	0.001	NA	<0.001	NA	NA
Selenium	0.05	<0.001	<0.001	NA	<0.001	NA	NA
Silver	0.1	0.009	0.019	NA	0.007	NA	NA
<i>Pesticides/PCBs (µg/L)</i>	<i>Various</i>	<1	<1	NA	NA	NA	NA

TABLE 4.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>		<i>S-40</i>	<i>*S-101</i>	<i>*S-102</i>	<i>*S-103</i>	<i>S-104</i>	<i>S-105</i>
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>8/21/1987</i>	<i>1/9/1988</i>	<i>1/11/1988</i>	<i>1/11/1988</i>	<i>1/8/1988</i>	<i>1/11/1988</i>
<i>QA/QC¹:</i>	<i>GW Pathway²</i>						
<i>Parameters:</i>							
<i>Volatile Organic Compounds (µg/L)³</i>							
Acetone	930	<5	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)	70	13	<5	<5	<5	<5	<5
2-Butanone	2,800	<5	<5	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	230	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5
Toluene	1000	<5	<5	<5	<5	<5	<5
Ethylbenzene	700	<5	<5	<5	<5	<5	<5
Xylenes (total)	10,000	<5	<5	<5	<5	<5	<5
<i>Metals (mg/L)⁷</i>							
Arsenic	0.01	NA	NA	NA	NA	NA	NA
Barium	2.0	NA	NA	NA	NA	NA	NA
Cadmium	0.005	NA	NA	NA	NA	NA	NA
Chromium	0.1	NA	NA	NA	NA	NA	NA
Lead	0.015	NA	NA	NA	NA	NA	NA
Mercury	0.002	NA	NA	NA	NA	NA	NA
Selenium	0.05	NA	NA	NA	NA	NA	NA
Silver	0.1	NA	NA	NA	NA	NA	NA
<i>Pesticides/PCBs (µg/L)</i>	<i>Various</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>

TABLE 4.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - 1987/1988
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>		<i>S-106</i>	<i>S-107</i>	<i>S-107</i>	<i>S-108</i>	<i>S-109</i>	<i>S-110</i>
<i>Sample Date:</i>	<i>Non-Residential</i>	<i>1/8/1988</i>	<i>1/12/1988</i>	<i>1/12/1988</i>	<i>1/12/1988</i>	<i>1/11/1988</i>	<i>1/11/1988</i>
<i>QA/QC¹:</i>	<i>GW Pathway²</i>			<i>Duplicate</i>			
<i>Parameters:</i>							
<i>Volatile Organic Compounds (µg/L)³</i>							
Acetone	930	<5	<5	<5	<5	<5	<5
1,2-Dichloroethene (total)	70	<5	197	202	29	23	16
2-Butanone	2,800	<5	<5	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5	7	13
Benzene	5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	230	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5	<5	5
Toluene	1000	<5	<5	<5	<5	<5	<5
Ethylbenzene	700	<5	<5	<5	<5	<5	<5
Xylenes (total)	10,000	<5	<5	<5	<5	<5	<5
<i>Metals (mg/L)⁷</i>							
Arsenic	0.01	NA	NA	NA	NA	NA	NA
Barium	2.0	NA	NA	NA	NA	NA	NA
Cadmium	0.005	NA	NA	NA	NA	NA	NA
Chromium	0.1	NA	NA	NA	NA	NA	NA
Lead	0.015	NA	NA	NA	NA	NA	NA
Mercury	0.002	NA	NA	NA	NA	NA	NA
Selenium	0.05	NA	NA	NA	NA	NA	NA
Silver	0.1	NA	NA	NA	NA	NA	NA
<i>Pesticides/PCBs (µg/L)</i>	Various	NA	NA	NA	NA	NA	NA

* Soil sample location is within Tract 2

¹ QA/QC - Quality Assurance/Quality Control

² Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Groundwater Pathway Scenario, KDHE, March 1, 2003.

³ µg/L - micrograms per liter

⁴ < - not detected at the associated value

⁵ NA - Analysis not requested

⁶ 110 - shading denotes exceedence of KDHE Tier 2 groundwater pathway regulatory standard

⁷ mg/L - milligrams per liter

TABLE 4.2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER -
OCTOBER 1998
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

<i>Sample Location:</i>			<i>MW-109</i>	<i>MW-110</i>
<i>Sample ID:</i>			<i>GW-100398-JM-023</i>	<i>GW-100398-JM-025</i>
<i>Sample Date:</i>			<i>10/3/1998</i>	<i>10/3/1998</i>
			<i>Pre-Design</i>	<i>Confirmatory</i>
<i>Parameters</i>	<i>Units</i>	<i>Non-Residential GW Pathway¹</i>		
<i>Volatile Organic Compounds</i>		<i>a</i>		
cis-1,2-Dichloroethene	mg/L ²	0.07	0.018	0.002
trans-1,2-Dichloroethene	mg/L	0.1	0.002	--

¹ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Groundwater Pathway Scenario, KDHE, March 1, 2003.

² mg/L - milligrams per liter

TABLE 4.3

**SUMMARY OF DETECTED ANALYTES IN GROUNDWATER -
DECEMBER 2004
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS**

<i>Sample Location:</i>			<i>MW-1</i>	<i>MW-109</i>	<i>MW-110</i>	<i>MW-110</i>
<i>Sample ID:</i>			<i>GW-122104-DS-006</i>	<i>GW-122104-DS-005</i>	<i>GW-122104-DS-012</i>	<i>GW-122104-DSDUP</i>
<i>Sample Date:</i>			<i>12/21/2004</i>	<i>12/21/2004</i>	<i>12/21/2004</i>	<i>12/21/2004</i>
			<i>Pre-Design</i>	<i>Pre-Design</i>	<i>Confirmatory</i>	<i>Confirmatory Duplicate</i>
<i>Parameters</i>	<i>Units</i>	<i>Non-Residential GW Pathway¹</i>				
<i>Volatile Organic Compounds</i>			<i>a</i>			
Acetone	mg/L ²	0.93	--	0.0022 J ³	--	--
Carbon disulfide	mg/L	0.03	--	--	--	0.00049 J
cis-1,2-Dichloroethene	mg/L	0.07	0.00036 J	0.02	0.00074 J	0.00067 J
trans-1,2-Dichloroethene	mg/L	0.1	--	0.0013	--	--
Vinyl chloride	mg/L	0.002	--	0.001	--	--
<i>Semivolatile Organic Compounds</i>						
Acetophenone	mg/L	0.00006	0.0024 J	--	0.0013 J	0.0027 J
Caprolactam	mg/L	--	--	0.0011 J	--	0.001 J
Di-n-butylphthalate	mg/L	--	0.0028 J	--	--	--
Phenol	mg/L	58	0.012	--	--	--
<i>Metals</i>			<i>a</i>			
Aluminum	mg/L	--	--	0.085 J	--	--
Arsenic	mg/L	0.01	--	0.0029 J	--	--
Barium	mg/L	2.0	0.16 J	0.094 J	0.69	0.80
Cadmium	mg/L	0.005	--	0.00047 J	--	--
Calcium	mg/L	--	204	201	124	141
Calcium (Dissolved)	mg/L	--	194	205	--	--
Cobalt	mg/L	--	0.0074 J	0.0037 J	--	--
Copper	mg/L	1.3	--	0.0023 J	--	--
Iron	mg/L	--	0.096 J	1.2 J	14.1	16.0
Lead	mg/L	0.015	0.0086	--	--	--
Magnesium	mg/L	--	49.0 J	46.1 J	33.3 J	38.0 J
Magnesium (Dissolved)	mg/L	--	46.9 J	48.2 J	--	--
Manganese	mg/L	0.05	1.5 J	1.9	1.4 J	1.5 J
Manganese (Dissolved)	mg/L	0.05	1.5	1.8	--	--
Nickel	mg/L	0.10	0.014 J	0.015 J	--	--
Potassium	mg/L	--	9.6 J	11.6	8.1 J	9.3 J
Selenium	mg/L	0.05	0.19	0.037	--	--
Sodium	mg/L	--	45.7	32.1	88.1	101

¹ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Groundwater Pathway Scenario, KDHE, March 1, 2003.

² mg/L - milligrams per kilogram

³ J - estimated at the associated value

⁴ Boxed results indicate exceedence of target remedial goal criteria

TABLE 4.4

**SUMMARY OF DETECTED ANALYTES IN GROUNDWATER -
JANUARY 2006
AREAS ADJACENT TO TRACT 2
GM FORMER FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS**

<i>Sample Location:</i>			MW-110	MW-110	MW-117B
<i>Sample ID:</i>			GW-011806-JH-008	GW-011806-JH-008	GW-011706-JH-004
<i>Sample Date:</i>			1/18/2006	1/18/2006	1/17/2006
			<i>Confirmatory</i>	<i>Confirmatory Duplicate</i>	<i>Confirmatory</i>
<i>Parameters</i>	<i>Units</i>	<i>Non-Residential GW Pathway¹</i>			
<i>Volatile Organic Compounds</i>			<i>a</i>		
Carbon disulfide	mg/L ²	0.03	0.00028 J ³	--	--
Chloromethane (Methyl Chloride)	mg/L	0.04	--	--	0.00019 J
cis-1,2-Dichloroethene	mg/L	0.07	0.00066	--	0.0013
trans-1,2-Dichloroethene	mg/L	0.1	--	--	--
Trichloroethene	mg/L	0.005	--	--	--
Vinyl chloride	mg/L	0.002	--	--	--
<i>Semivolatile Organic Compounds</i>					
bis(2-Ethylhexyl)phthalate	mg/L	0.006	0.0025 J	--	--
<i>Metals</i>			<i>a</i>		
Aluminum	mg/L	--	0.122 J	--	--
Arsenic	mg/L	0.01	--	--	--
Barium	mg/L	2.0	0.787	--	--
Calcium	mg/L	--	130	--	--
Calcium (Dissolved)	mg/L	--	140	--	--
Chromium Total	mg/L	0.1	--	--	--
Copper	mg/L	1.3	--	--	--
Iron	mg/L	--	14.9	--	--
Magnesium	mg/L	--	34.2	--	--
Magnesium (Dissolved)	mg/L	--	36.8	--	--
Manganese	mg/L	0.05	1.43 ⁴	--	--
Manganese (Dissolved)	mg/L	0.05	1.52	--	--
Nickel	mg/L	0.10	--	--	--
Potassium	mg/L	--	8.25	--	--
Sodium	mg/L	--	102	--	--

¹ Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Groundwater Pathway Scenario, KDHE, March 1, 2003.

² mg/L - milligrams per kilogram

³ J - estimated at the associated value

⁴ Boxed results indicate exceedence of target remedial goal criteria