REM #9157
ENVIRONMENTAL INDICATOR CA750
FORMER NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
KAMAN AEROSPACE CORPORATION, BLOOMFIELD, CT

PREPARED FOR:
PREPARED FOR:
Kaman Aerospace Corporation
P.O. Box 1
Bloomfield, Connecticut

PREPARED BY:
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut

June 2011
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GZA
GeoEnvironmental, Inc.

Engineers and Scientists

June 14, 2011
File No. 05.0044286.08

Mr. Maurice Hamel
Bureau of Water Protection and Land Reuse
Connecticut Department of Environmental Protection
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Hartford, CT 06106-5127

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Re: REM #9157
Environmental Indicator CA750
Former Naval Weapons Industrial Reserve Plan
Kaman Aerospace Corporation, Bloomfield, CT

Dear Mr. Hamel:

GZA GeoEnvironmental, Inc. is pleased to submit the attached RCRA Corrective Action Environmental Indicator (EI) RCRIS Code CA750 Migration of Contaminated Groundwater Under Control for the above referenced property. The submission of this CA750 fulfills the RCRA Corrective Action Requirements outlined in the February 18, 2011 scheduling letter.

If you have any questions please do not hesitate to contact Richard Desrosiers (860-858-3130) or Gordon Brookman (860-858-3109).

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Richard J. Desrosiers, LEP, PG
Senior Project Manager

Gary J. Cluen, LEP
Consultant/Reviewer

Gordon T. Brookman, LEP
Principal

Cc: Mr. Gary Tong, Kaman Corporation
Mr. Raymond Brule, US Navy, Naval Air Systems Command
Mr. Thom Hooper, Town of Bloomfield

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DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA750)

Migration of Contaminated Groundwater Under Control

Facility Name:
Facility Address:
Facility EPA ID #:

1. Has **all** available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been **considered** in this EI determination?

   _X_ If yes - check here and continue with #2 below.

   _____ If no - re-evaluate existing data, or

   _____ if data are not available, skip to #8 and enter"IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

2. Is **groundwater** known or reasonably suspected to be **"contaminated"**[1] above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

   __X__ If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.

   _____ If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

   _____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

Data presented in the December 2010 *Final Site Investigation Report* identified the presence of six (6) unique groundwater contaminant plumes originating from three separate source areas. The migration of these plumes is dependent on the Site's geology and groundwater hydraulics which is discussed in the *Final Site Investigation Report*. Contaminants identified were above the applicable Connecticut Department of Environmental Protection Remediation Standard Regulations criteria for groundwater. The individual plumes and contaminants within each of these plumes have been identified based upon source area releases, as follows:

1. The Former Fire Training Area, located in the west-central portion of the facility, was used to burn solvents and petroleum hydrocarbons associated with fire fighting training. The location of these former burn pits was above a hydraulic divide and the activities resulted in three plumes migrating from the source area. The G-1N plume migrates to the north, the G-1S plume migrates to the south; whereas, the G-4 plume migrates to the northeast. Summaries of the analytical data (Tables A-1, B-1 and E-1) associated with these plumes are provided in Appendices A, B and E. Primary contaminants in these plumes include chlorinated volatile organics and petroleum.
2. Historically, there was a former degreaser and metal finishing process lines (currently in use) in Building 2B along with former cypress wood wastewater treatment tanks located outdoors adjacent to the northeast corner of Building 2B that resulted in releases of volatile organics and hexavalent chromium to the subsurface. The location of the source areas was above a hydraulic divide and the activities resulted in two plumes that have migrated to the north (G-2 plume) and to the southeast (G-3 plume). Summaries of the analytical data (Tables C-1 and D-1) associated with these plumes are provided in Appendices C and D. The primary contaminants in these plumes include chromium and VOCs.
3. A former leaching field located south of Building 11B resulted in a release of solvents to the subsurface. The location of this source area is south of the hydraulic divide resulting in one plume (G-5 plume) migrating to the south. A summary of the analytical data (Table F-1) associated with this plume is provided in Appendix F. The primary contaminants are the chlorinated volatile organics.

The findings within the *Final Site Investigation Report*, did not identify the presence of non-aqueous phase liquids in groundwater. The source area (soil above the groundwater table) of the former fire training area was remediated in 2005, the degreaser was removed in 2005, the metal finishing process lines were relined in 1991, the cypress tanks were removed in 1989 and the former leaching field ceased operation in 1988.

Footnotes:

[1] "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"[2] as defined by the monitoring locations designated at the time of this determination)?

   __X__ If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"[2]).

   _____ If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"[2]) - skip to #8 and enter "NO" status code, after providing an explanation.

   _____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

The six plumes have been extensively investigated and the results (including analytical data) have been reported in the December 2010 *Final Site Investigation Report*. The investigations were conducted both on and off the former NWIRP facility, at other properties owned by Kaman Aerospace Corporation or on private properties where access agreements were secured. The result of these investigations has delineated the nature and extent of these plumes. Figure 1 depicts a plan view of the plumes exceeding applicable criteria. Figures 2 through 7 depict the vertical extent (cross sections) of the plumes along the center line of the plumes and are further discussed in the various plume Appendices.

Figure 8 also depicts the locations where groundwater, surface water and sediment samples were collected. The sampling approach was based upon a Triad method of collecting both groundwater grab samples and through a monitoring well network. The data collected defined that these plumes are relatively thin in comparison to the overall aquifer. Groundwater samples have been collected both vertically and horizontally that bound the plumes.

The investigation techniques used included both conventional drilling and indirect observation using Membrane Interface Probes and Waterloo profiling to identify the distinct geologic layers where groundwater contamination was migrating in the subsurface. In addition, hydraulic conductivity data was collected (slug test, grain size and pumping tests) to define the seepage velocity of the groundwater. These data were used to evaluate the probable distance that the contamination could have migrated based upon the timing of the releases. Based upon these data, sufficient groundwater samples were collected to demonstrate that the extent of the plumes have been fully defined.

The deltaic geologic deposition along with the vertical hydraulic gradient controls the fate and transport of the various plumes.

- The release at the former fire training area: the groundwater divide bifurcates the groundwater contamination into a shallower northern (G-1N) and southern (G-1S) plumes and a deeper northeastern (G-4) plume. At the source, the contamination migrates hydraulically downward at the recharge zone. The plumes bifurcate into three directions. To the north, the G-1N plume migrates along an upper deltaic unit and discharges to the western reach of Mill Brook (as described in an April 15, 2011, *Scoping and Screening Level Ecological Risk Assessment*). To the south, the G-1S plume migrates along an upper deltaic unit and discharges to the confluence of Tributaries A and A2 of Beamans Brook (as described in *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment*). A deeper plume (G-4) migrates to the northeast within a deeper deltaic unit that flows beneath Mill Brook and discharges to

Tributary E of Mill Brook (as described in *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment*).

- The release from the former degreaser, cypress tanks and metal finishing process lines: the groundwater divide bifurcates groundwater contamination into northern (G-2) and southeastern (G-3) plumes. At the source, the contamination migrates hydraulically downward at the recharge zone. The northern G-2 plume migrates beneath Mill Brook and discharges to Tributary C of Mill Brook (as described in *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment*). The southern G-3 plume migrates southward and discharges to Tributary E1 of Mill Brook (as described in *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment*).
- The release from the former leaching field: the G-5 plume migrates to the south along an upper deltaic unit and discharges to the confluence of Tributaries A and A2 of Beamans Brook (as described in *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment*).

The shallow, intermediate and deep groundwater contour data presented in the *Final Site Investigation Report (see attached Figure 8)* further support that these plumes are well defined and migrate in the direction of groundwater flow. In addition, the monitoring well network and groundwater grab samples have provided a 3-dimensional understanding of these plumes as reported in the *Final Site Investigation Report* and the *Scoping and Screening Level Ecological Risk Assessment* which provide sufficient lines of evidence that the plumes have stabilized within the defined plume boundary limits shown on Figure 1. The *Final Site Investigation Report* data have demonstrated that the plumes are discharging to adjacent wetlands/surface water and are not expected to increase horizontally. The vertical extent of these plume are also not expected to increase in size since the contaminants are migrating within distinct geologic units with well defined boundary conditions.

Select wells within each of the plumes have been assessed to evaluate chemical trends over time. These data are presented in Appendices A through F. These data indicate that contaminants within the defined plumes have either been increasing or decreasing with time dependent on the plume migration within the aquifer. These data will be considered in the final groundwater remedial remedy.

[2] " existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

4. Does "contaminated" groundwater **discharge** into **surface water** bodies?

__X__ If yes - continue after identifying potentially affected surface water bodies.

_____ If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.

_____ If unknown - skip to #8 and enter "IN" status code. Rationale

and

Reference(s):

The data presented in the *Final Site Investigation* and the *Scoping and Screening Level Ecological Risk Assessment Reports* have determined that groundwater discharges to the adjacent wetlands and surface water bodies. Site data and groundwater data collected immediately upgradient of the wetland/surface water areas were used to evaluate the potential exceedance of regulatory criteria. Appendices A through F provide additional documentation and summary of the groundwater data for each of the plume discharges. In general the affected areas are depicted on Figure 1.

Releases from the former fire training area have migrated:

- North toward the confluence of Mill Brook and its Tributary A within the G-1N plume. Site data (Table A-2) have detected groundwater contaminants exceeding the surface water protection criteria immediately upgradient of the plume discharge to Mill Brook.
- South towards Tributary A and sub-Tributary A-2 of Beamans Brook within the G-1S plume. Site data (Table B-2) have detected groundwater contaminants exceeding the surface water protection criteria immediately upgradient of the plume discharge to Tributary A and sub-Tributary A-2 of Beamans Brook.
- Northeast beneath Mill Brook and discharges to Tributary C of Mill Brook within the G-4 plume. Site data (Table E-2) have not detected exceedance of the surface water protection criteria immediately upgradient of the plume discharge to Tributary C of Mill Brook.

Releases from the former degreaser, cypress tanks and metal finishing process lines have migrated:

- North beneath Mill Brook and discharges to Tributary C of Mill Brook within the G-2 plume. Site data (Table C-2) have not detected groundwater contaminants exceeding the surface water protection criteria immediately upgradient of the plume discharge to Tributary C of Mill Brook.
- Southeast within the G-3 plume and beneath sub-tributaries E-1 and E-2 of Mill Brook discharging to Tributary E of Mill Brook. Site data (Table D-2) have not detected exceedance of the surface water protection criteria immediately upgradient of the plum discharge.

Releases from the leaching field have migrated:

- Southerly within the G-5 plume and discharge to the confluence of sub-Tributary A-2 and Tributary A of Beamans Brook. This plume may co-mingle with the G-1S plume. Site data (F-2) likely indicates that there have not been exceedances of the surface water protection criteria immediately upgradient of this plume's discharge.

5. Is the **discharge** of "contaminated" groundwater into surface water likely to be **"insignificant"** (i.e., the maximum concentration[3] of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?

__X___ If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration[3] of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.

_____ If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration[3] of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations[3] greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

_____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

The discharge of the known groundwater contamination immediately upgradient of the surface water is less than 10 times the RSR surface water protection criteria. Data tables have been provided in Appendices A through F which show the concentrations in groundwater prior to its discharge to the wetlands/surface water.

Data collected (Tables A-3, B-3, C-3, D-3, E-3 and F-3) associated with the *Scoping and Screening Level Ecological Risk Assessment* (April 15, 2011), identified only two discharge areas where there was a potential environmental risk to the biologically active zone (a hazard quotient greater than one). These areas included one sample (1,1-dichloroethane) within the western reach of Mill Brook (G-1N plume); and, one sample (also 1,1-dichloroethane) within Tributary A and sub-Tributary A2 of Beamans Brook (G-1S plume). The one sample from the G-1S plume was the only one out of five collected with concentrations above the analytical methods reporting limit.

Although the ecological risk assessment data identified potential environmental risk within the discharge locations of the G-1N and G-1S plumes; no areas with probable risks were found. In addition, no surface water samples reported concentrations (Tables A-4, B-4, C-4, D-4, E-4 and F-4) greater that the applicable aquatic life criteria. The trend data presented below identifies that the groundwater trends within the G-1N and G-1S plumes were decreasing with time. Thus, while there have been potential impacts, the impacts are likely historic in nature.

[3] As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

The data supports that the other four remaining plume discharges have not impacted the surface water or sediments within the wetlands resulting in no adverse impact to the ecological system. Since the sources of the contamination has been mitigated and the contaminant mass within the various groundwater plumes will be significantly decreased through active groundwater remediation, the amount of contaminant mass reaching the ecological system will be significantly reduced over time resulting in a further decrease in impacts to the sediments and surface waters.

Site data has determined the horizontal and vertical extent of these plumes. In addition, the sources of the contaminant has been removed at each of the release areas. To evaluate the changes in the plumes, select wells have been evaluated to determine trends in concentrations. The trend graphs for each plume, are presented in Appendices A through F and summarized below by source area.

The Former Fire Training Area

- MW-2i is located in the vicinity of the former fire training area and the source area for the G-1N, G-1S and G-4 plumes. Samples were collected in 2001, 2002 and 2009. TCE and PCE data indicate a decrease in concentration over time. The breakdown products of cis-1,2-DCE and 1,1-DCE show a decreasing trend whereas, 1,1-DCA did not show a significant change with time. Methylene chloride has a slight increase with time.
- KM-01i is located approximately 1,300 feet downgradient of the source and 2,750 feet upgradient of the discharge within the G-1S plume. Samples were collected in 2006, 2007 and 2009. TCE and PCE data indicate a decrease in concentration over time. Cis-1,2-DCE, 1,1-DEC, 11-DCA and methylene also shows a consistent decreasing trend with time.
- PZ-11i is located approximately 1,000 feet downgradient of the source and 100 feet upgradient of the discharge location within the G-1N plume. Samples were collected in 2004, 2005 and 2009. The TCE and PCE data indicate decreasing trends. The breakdown products of cis-1,2-DCE and 1,1-DCA show a decreasing trend (insufficient data was collected for 1,1-DCE). Methylene chloride data also show a decreasing trend.
- MW-25d is located approximately 875 feet downgradient of the source and 750 feet upgradient of the G-1N discharge. Samples were collected in 2001, 2002, 2005 and 2009. This well is located between the G-1N and G-4 plumes. The TCE and PCE data indicate an increasing trend. This trend is consistent for breakdown products of cis-1,2-DCE, 1,1-DCE and 1,1-DCA along with methylene chloride.
- MW-27d is located approximately 500 feet downgradient of the source and 3,750 feet upgradient of the discharge within the G-4 plume. Samples were collected in 2001, 2002 and 2009. TCE and PCE data indicate a significant decrease in concentration over time. The chlorinated breakdown products of cis-1,2-DCE, 1,1-DCE and 1,1-DCA show a decreasing trend along with methylene chloride.
- MW-24d is located approximately 625 feet downgradient of the source and 3,750 feet upgradient of the discharge within the G-4 plume. Samples were collected in 2001, 2002 and 2009. The TCE and PCE data indicate a decreasing trend. The concentration trends of the breakdown products varied. Cis-1,2-DCE show a decreasing trend with an increase back to baseline conditions during the last sampling event in September 2009. This may be due to seasonal variations. 1,1-DCE and 1,1-DCA show either a slight decreasing trend or no change. Methylene chloride shows no significant change in concentration.
- MW-37d is located 1,750 feet downgradient from the source and 2,000 feet from the discharge within the G-4 plume. Samples were collected in 2006 and 2009. Concentrations of TCE and PCE along with the designation products cis 1,2-DCE, 1,1-DEC and 11-DCA have an increasing trend with time. Methylene chloride varied with time.

Former Degreaser, Cypress Tanks and metal finishing process line

- PZ-34 is located approximately 250 feet downgradient of the source and 2,350 feet upgradient of the discharge within the G-2 plume. Samples were collected in 2006 and 2009. Concentrations of hexavalent chromium, TCE, PCE, TCE, methylene chloride along with cis-1,2-DCE, 1,1-DEC and 1,1-DCA have a decreasing trend with time.

- MW-11dd is located approximately 1,000 feet downgradient of the source and 1,875 feet upgradient of the discharge within the G-2 plume. Samples were collected in 2006, 2007 and 2009. Concentrations of hexavalent chromium has shown an increased with time. TCE and PCE has a slight increasing trend, whereas concentrations of TCE, 1,1-DCE and methylene chloride has decreased with time.
- PZ-19d is located approximately 500 feet downgradient from the source and 1,750 feet upgradient from the discharge of the G-3 plume. Samples were collected in 2004, 2005, 2007 and 2009. The TCE and PCE data indicate a decreasing trend along with the breakdown products of cis-1,2 DCE, 1,1-DCE and 1,1-DCA. Concentrations of hexavalent chromium increased then decreased with time.
- PZ-25i is located approximately 625 feet downgradient from the source and 1,625 feet upgradient from the discharge of the G-3 plume. Samples were collected in 2004, 2005 and 2009. TCE data indicated a slight increase in 2007 and a return to the 2004 concentration in 2009. The PCE data had an increasing trend. The chlorinated solvent breakdown products show little change in concentrations at the analytical methods detection limits. Concentrations of hexavalent chromium initially increased then subsequently decreased with time. Methylene chloride decreased with time.
- PZ-26i is located approximately 800 feet downgradient from the source and 1,450 feet upgradient from the discharge of the G-3 plume. Samples were collected in 2004, 2005 and 2009. TCE and PCE data indicated an increasing trend along with methylene chloride. The PCE data had an increasing trend. The chlorinated solvent breakdown products show decreasing trend in concentrations. Concentrations of hexavalent chromium increased with time.

The Former Leaching Field

- PZ-31i is located approximately 250 feet downgradient from the source and 3,000 feet upgradient from the discharge of the G-5 plume. Samples were collected in 2006 and 2009. TCE and PCE data indicate a decreasing trend. The chlorinated solvent breakdown products show a decreasing trend along with methylene chloride.
- KM-02i is located approximately 1,000 feet downgradient from the source and 2,250 feet upgradient from the discharge of the G-5 plume. Samples were collected in 2006 and 2009. TCE and PCE data indicate a decreasing trend. The chlorinated solvent breakdown products show a decreasing trend along with methyl chloride.

6. Can the **discharge** of "contaminated" groundwater into surface water be shown to be "**currently acceptable**"
(i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented[4])?

_____ If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR
2) providing or referencing an interim-assessment,[5] appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.

_____ If no - (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable**") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

_____ If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

Not Applicable

[4] Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

[5] The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

7. Will groundwater **monitoring** / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

_X_ If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."

____ If no - enter "NO" status code in #8.

____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

Groundwater monitoring will be implemented under various scenarios. Initially, as part of the site characterization, groundwater samples were collected to define the nature and extent of the contamination. In the November 2007 *Conceptual Remedial Action Plan* (approved by the CTDEP), Section 9.0 discussed a groundwater monitoring program to evaluate the performance of the remedial remedy and provide for a long term monitoring program.

Currently, additional performance monitoring wells are being installed in those areas where groundwater grab samples were previously collected from boreholes. These wells will be incorporated into the future sampling program. The sampling program will include the collection of groundwater field parameters (pH, specific conductivity, temperature, dissolved oxygen and turbidity) using low flow sampling techniques. Once stabilized field parameters have been achieved, groundwater samples will be collected and analyzed for the constituents identified in the plumes. All plumes will be analyzed for the volatile organic compounds (EPA Method 8260), whereas, total and hexavalent chromium will be analyzed in the G-2 and G-3 plumes.

The placement of these wells will be designed to monitor the both the horizontal and vertical contamination within each plume. The final monitoring well locations will be outlined within specific plume work plans to be submitted to the CTDEP in September 2011. The monitoring well network is being designed to address alternative remedial approaches such as pump and treat, *in-situ* treatment (chemical oxidation and/or biochemical fixation) and monitored natural attenuation. The goal of the monitoring well network will be to ensure that the limits of the plume have not changes with time and to demonstrate that the implemented remedy is successful at reducing the concentration (mass) within each of the plumes.

8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

_X___ YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Kaman Aerospace - Bloomfield facility, EPA ID # Kaman Aerospace CTD001155225 and Kamatics Corporation CTD0622204573, located at Old Windsor Road, Bloomfield, Connecticut. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

_____ NO - Unacceptable migration of contaminated groundwater is observed or expected. _____

IN - More information is needed to make a determination.

Completed by (signature) _____ Date_____

Supervisor _____ (signature)

Locations where References may be found:

At the Connecticut Department of Environmental Protection – File Room
79 Elm Street, Hartford, CT

Contact telephone and e-mail numbers

(name) __
(phone #)
(e-mail) _

8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

   X YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Kaman Aerospace Corporation, Bloomfield facility, EPA ID # Kaman Aerospace Corporation CTD001155225 and Kamatics Corporation CTD0622204573, located at Old Windsor Road, Bloomfield, Connecticut. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

   _____ NO - Unacceptable migration of contaminated groundwater is observed or expected.

   _____ IN - More information is needed to make a determination.

Prepared by (signature) Richard J. Desrosiers Date 6/24/11
(print) Richard J. Desrosiers
(title) Licensed Environmental Professional (#317)

Prepared by (signature) Gordon T. Brookman Date 6/24/11
(print) Gordon T. Brookman
(title) Licensed Environmental Professional (#218)

DEP reviewed by (signature) Maurice B. Hamm Date 6/30/11
(print) Maurice B. Hamm
(title) EA 3 CTDEP

DEP Supervisor (signature) David Ringquist Date 7-14-11
(print) DAVID RINGQUIST
(title) SEA

(EPA Region or State) CTDEP

All References may be found at:
Connecticut Department of Environmental Protection located at 79 Elm Street, Hartford, Connecticut

DEP file room contact telephone and e-mail numbers

Name: Terry Parker
Phone: 860 424-3936
E-mail: terry.parker@ct.gov

Attachments:
Appendix A – G1N Plume
Appendix B – G-1S Plume
Appendix C – G-2 Plume
Appendix D – G-3 Plume
Appendix E – G-4 Plume
Appendix F – G-5 Plume

Figures

Figure 1	Plum Boundary Map
Figure 2	Cross Section of the G-1S Plume (TCE)
Figure 3	Cross Section of the G-2 Plume (TCE)
Figure 4	Cross Section of the G-2 Plume (CrVI)
Figure 5	Cross Section of the G-3 Plume (TCE)
Figure 6	Cross Section of the G-3 Plume (CrVI)
Figure 7	Cross Section of the G-4 Plume (TCE)
Figure 8	Groundwater, Surface Water and Sediment Sample Locations

References:

- Conceptual Remedial Action Plan, Kaman Aerospace Corporation, Bloomfield, Connecticut, November 2007, prepared by GZA GeoEnvironmental, Inc.

- Final Site Investigation Report, Kaman Aerospace Corporation, Bloomfield, Connecticut, December 2010, prepared by GZA GeoEnvironmental, Inc.

- Scoping and Screening Level Ecological Risk Assessment, Kaman Aerospace Corporation, April 2011, prepared by GZA GeoEnvironmental, Inc.

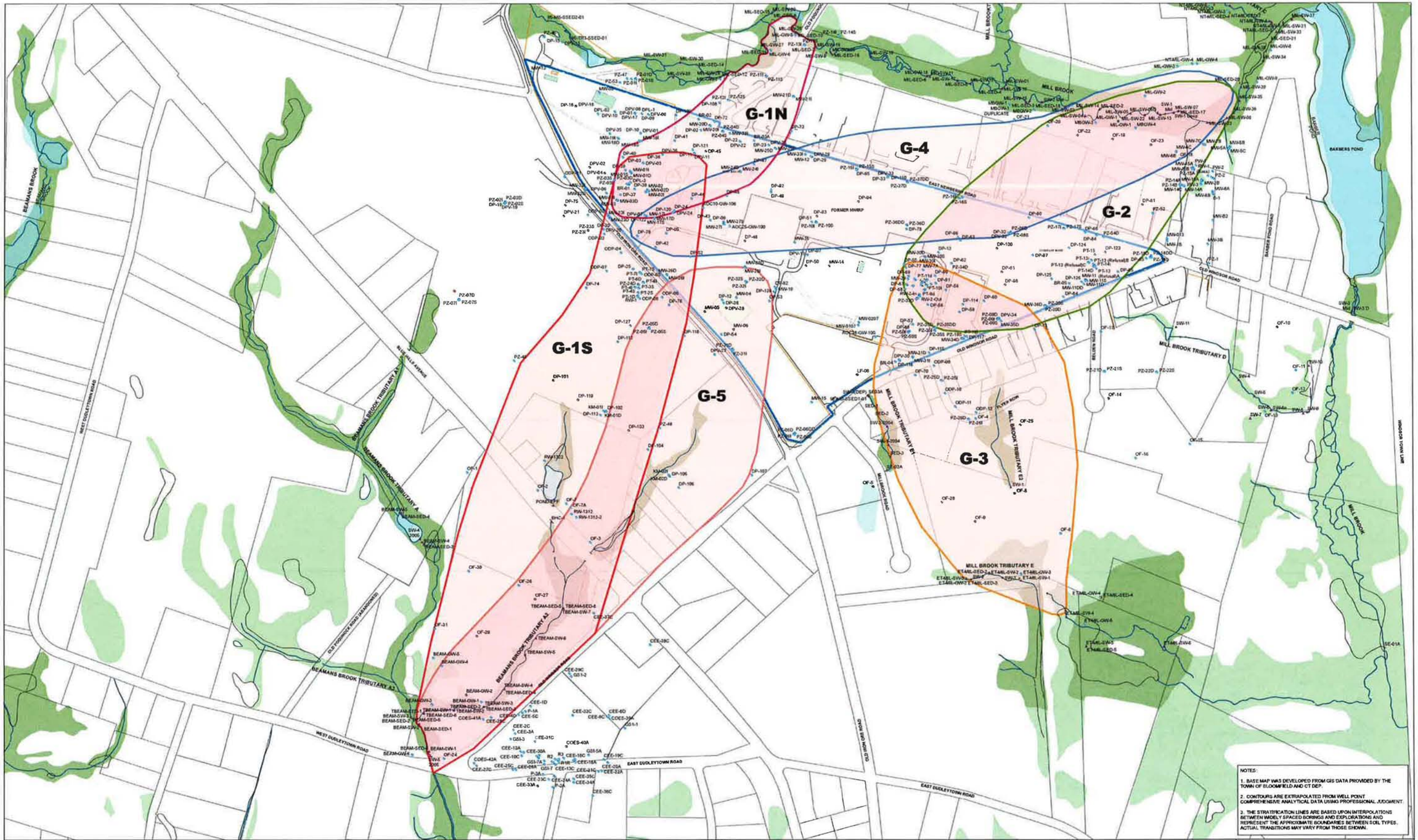


FIGURE 1
GROUNDWATER PLUME DELINEATIONS

KAMAN AEROSPACE CORPORATION
BLOOMFIELD, CONNECTICUT

Project Mgr: RJD
Designed By: RJD
Reviewed By: GTB

Drawn By: MJS
Date: 06-13-11
Job Number: 05.0044286.08

Legend

- Surface Water Sample
- Sediment Sample
- Groundwater Sample

Plume Boundaries: G-1N, G-1S, G-2, G-3, G-4, G-5

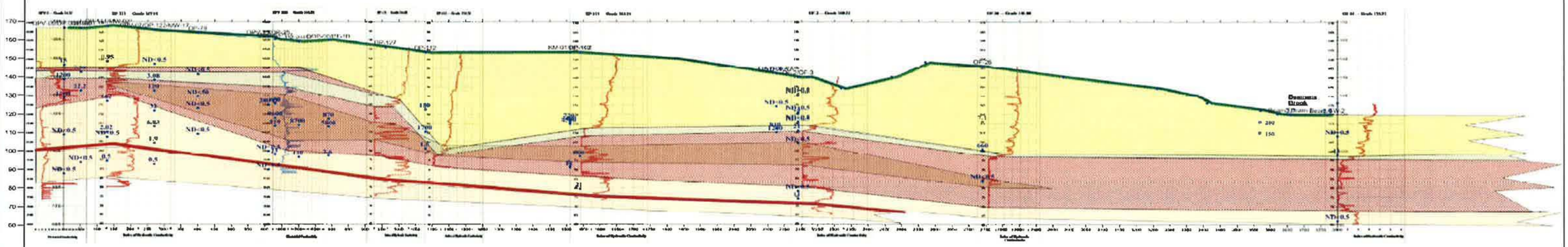
LIMITS OF PLUME BOUNDARIES ARE BASED ON TCE EXCEPT THE G-2 PLUME, WHICH IS BASED ON HEXAVALENT CHROME.

GZA GeoEnvironmental, Inc.

0 125 250 500 750
Feet
Scale 1" = 250'

N

G-1S Cross Section (TCE ug/L)



F - M Sand (Outwash Deposits) | VF Sand -Silt (Delatic Deposits) | F - VF Sand (Delatic Deposits) | Clay/Silt-Clay (Deltaic Deposits)

NOTES:

1. THE STRATIFICATION LINES ARE BASED UPON INTERPOLATIONS BETWEEN WIDELY SPACED __BORINGS, __TEST PITS, __EXPLORATIONS AND THUS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. ACTUAL TRANSITIONS MAY VARY FROM THOSE SHOWN.
2. WATER LEVEL READINGS WERE REVIEWED AND INTERPRETATIONS MADE IN THE TEXT OF THE REPORT. FLUCTUATIONS IN GROUNDWATER LEVEL OCCUR DUE TO VARIATIONS IN RAINFALL AND OTHER FACTORS
3. MAGNIFICATION OF VERICAL SCALE FOR PURPOSES OF PRESENTATION CAUSES TRENDS IN SOIL STRATA TO APPEAR MORE PRONOUNCED THAN THAT WHICH ACTUALLY EXISTS.
4. GROUND SURFACE ELEVATIONS ARE BASED ON SURVEY BY AND BASED ON DATUM.

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists

PREPARED FOR: KAMAN AEROSPACE CORPORATION BLOOMFIELD, CONNECTICUT

KAMAN AEROSPACE CORPORATION

BLOOMFIELD, CONNECTICUT

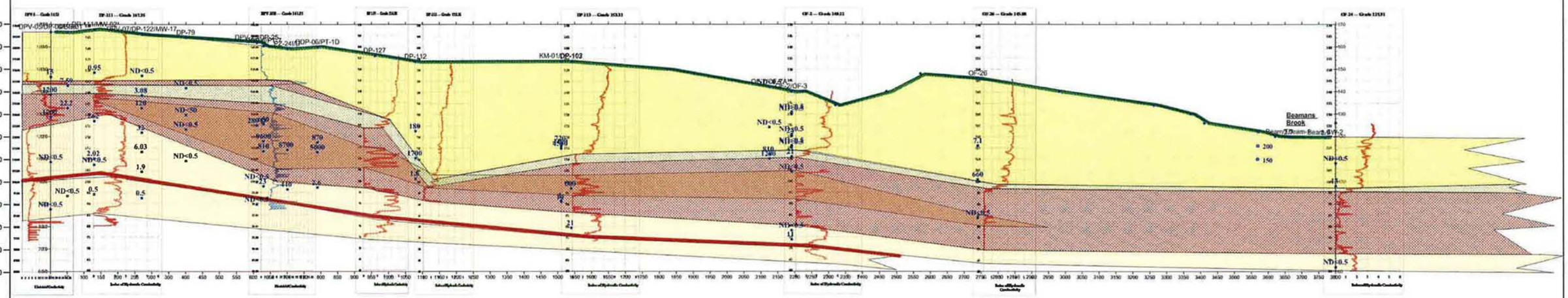
NO.	ISSUE/DESCRIPTION	BY	DATE

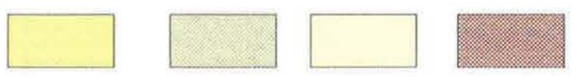
G-1S CROSS SECTION
TCE CONCENTRATIONS

PROJ. MGR.	RJD	DATE 2-20-10
DESIGNED BY	RJD	PROJECT NO. 06.0044.00.30
DRAWN BY	MJS	
CHECKED BY		REVISION NO.
SCALE	NOT TO SCALE	

Figure 2

G-1S Cross Section (TCE ug/L)





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4. GROUND SURFACE ELEVATIONS ARE BASED ON SURVEY BY AND BASED ON DATUM.

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G-1S CROSS SECTION
TCE CONCENTRATIONS

PROJ MGR:	RJD	DATE 06-13-11	FIGURE 3
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DRAWN BY:	MJS		
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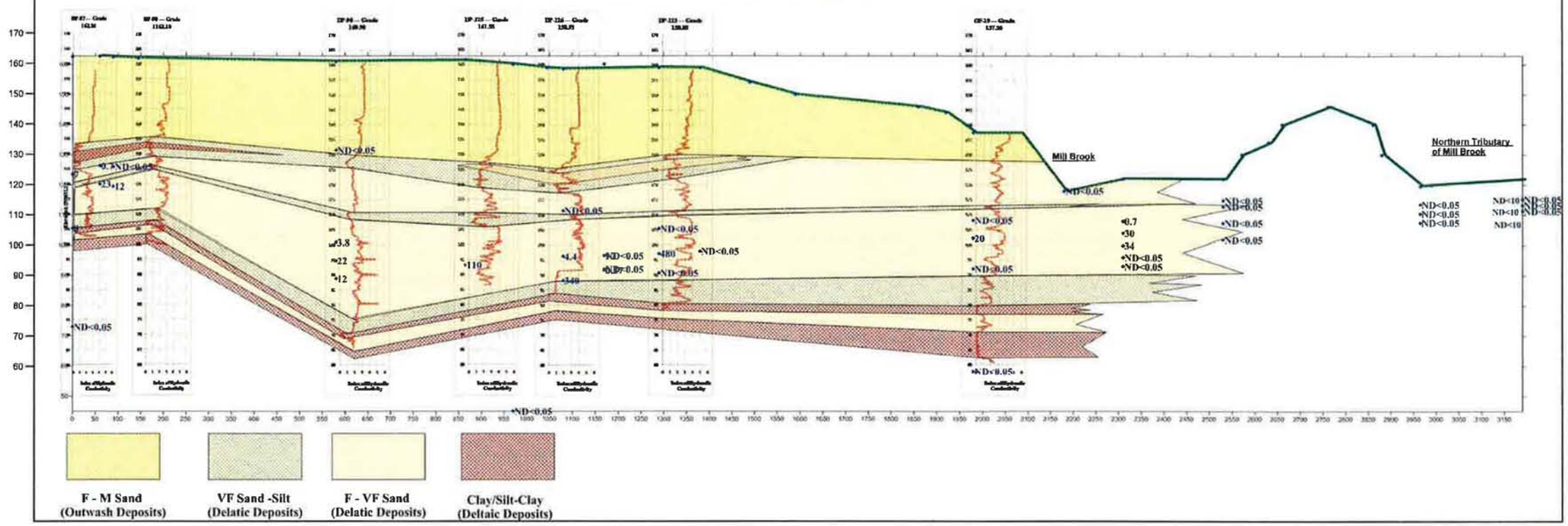
SCALE:	NOT TO SCALE		

G-2 Cross Section (TCE ug/L)



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G-2 CROSS SECTION
TCE CONCENTRATIONS

PROJ MGR:	RJD	DATE 06-13-11	FIGURE 4
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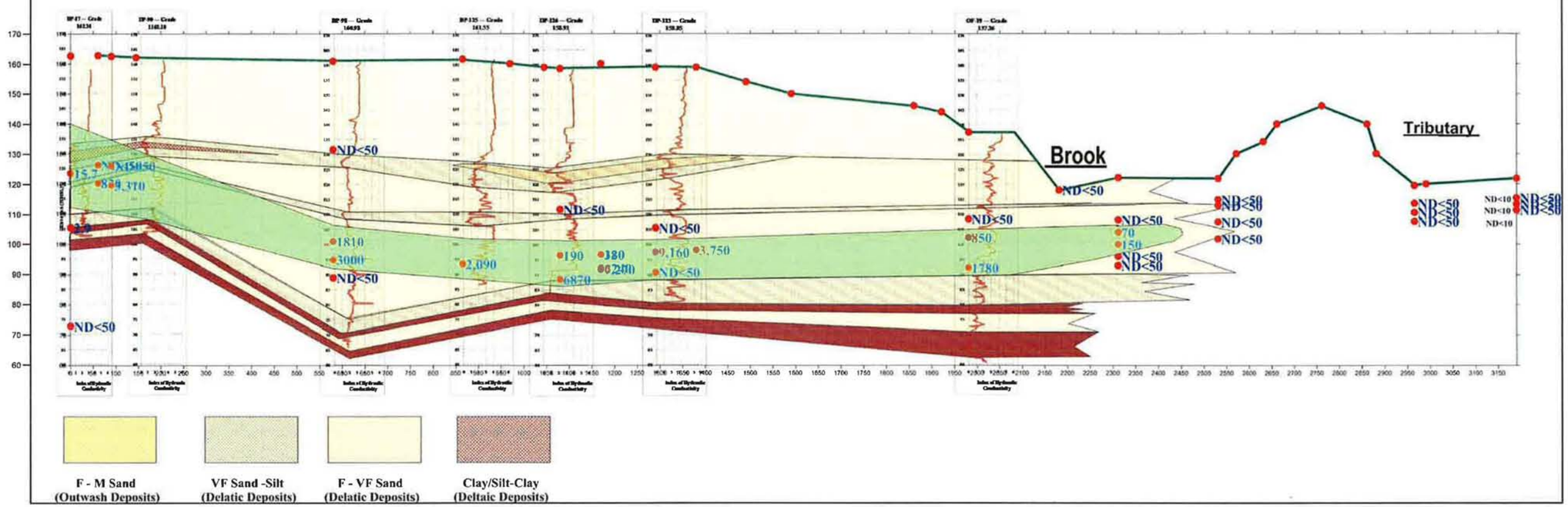
G-2 Cross Section (Cr VI ug/L)



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G-2 CROSS SECTION
Cr (VI) CONCENTRATIONS

PROJ MGR:	RJD	DATE 06-13-11	FIGURE 5
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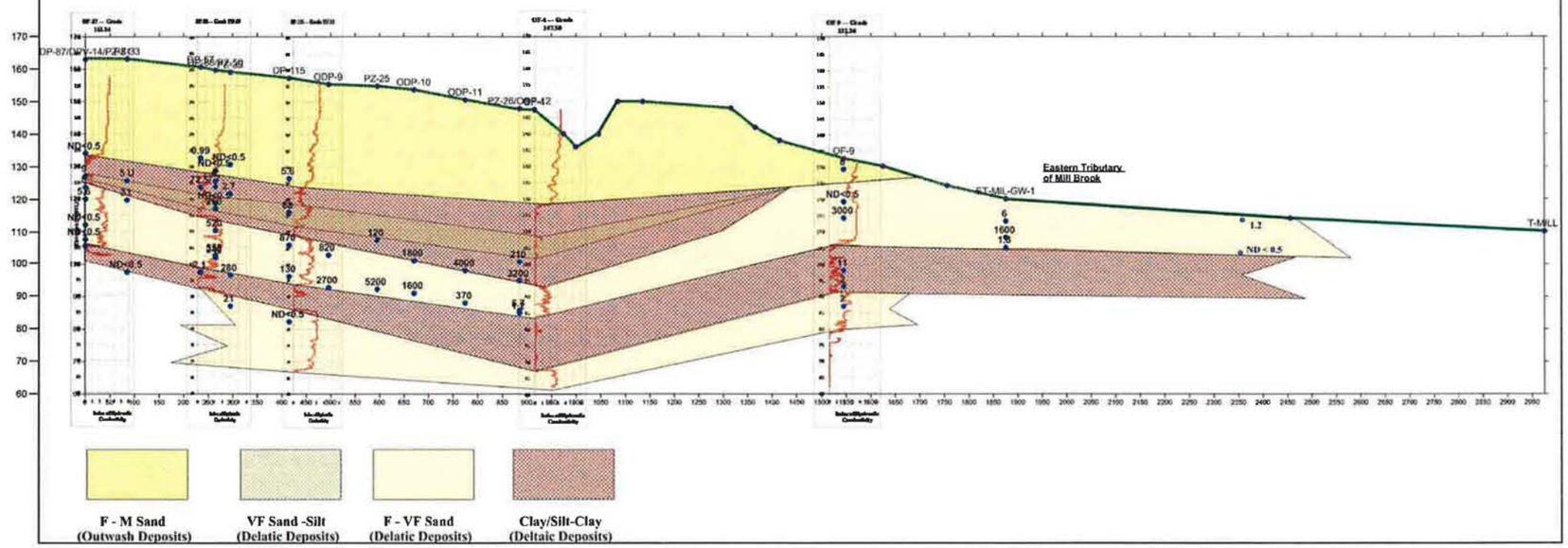
DRAWN BY:	MJS		
CHECKED BY:		REVISION NO.	
SCALE:	NOT TO SCALE		

G-3 Cross Section (TCE ug/L)



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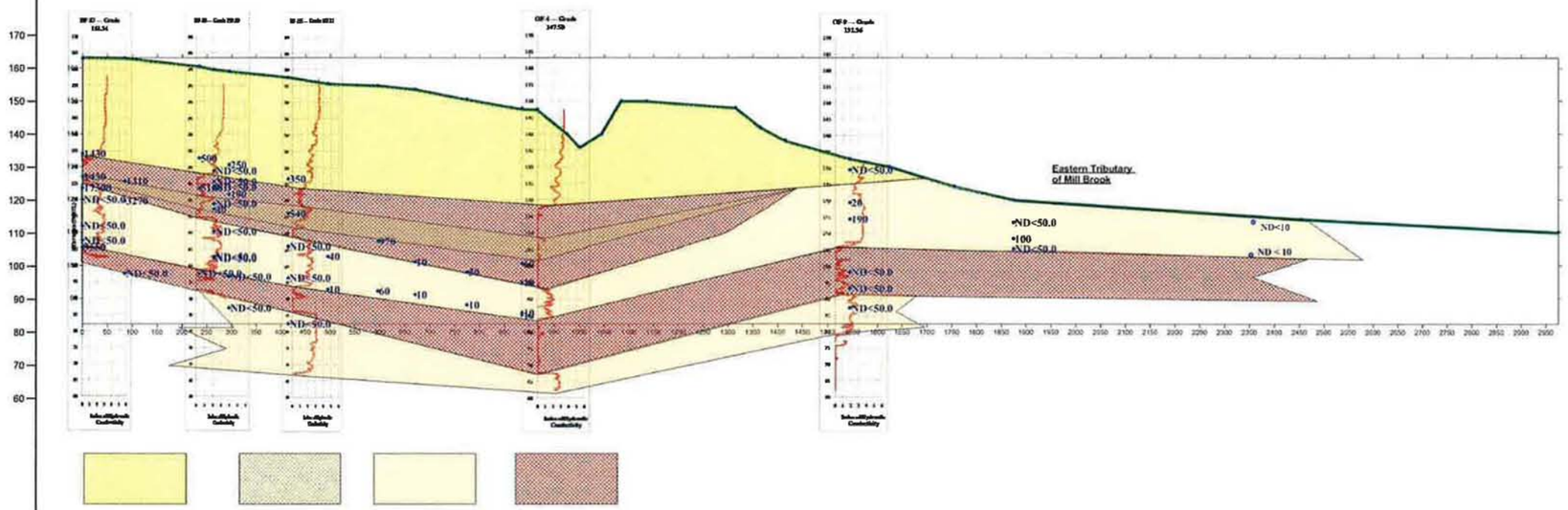
NO.	ISSUE/DESCRIPTION	BY	DATE

G-3 CROSS SECTION
TCE CONCENTRATIONS

PROJ MGR: RJD	DATE 06-13-11	FIGURE 6
DESIGNED BY: RJD	PROJECT NO. 05.0044286.08	
REVIEWED BY: DTB		
DRAWN BY: MJS	REVISION NO.	
CHECKED BY:		
SCALE: NOT TO SCALE		

© 2011 - GZA GeoEnvironmental, Inc. GZA-J:\Vienna_44-285-44.5371-44288 - Kaman Remediation\44288-001\CAD\Figures\FIG 6 FIGURE G-3 TCE CONCENTRATIONS.dwg [24x17] June 13, 2011 - 9:28am mschaef

G-3 Cross Section (Cr (VI) ug/L)



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PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists
PREPARED FOR: KAMAN AEROSPACE CORPORATION BLOOMFIELD, CONNECTICUT

KAMAN AEROSPACE CORPORATION

BLOOMFIELD, CONNECTICUT

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G-3 CROSS SECTION
Cr (VI) CONCENTRATIONS

PROJ MGR: RJD	DATE 06-13-11	FIGURE 7
DESIGNED BY: RJD		
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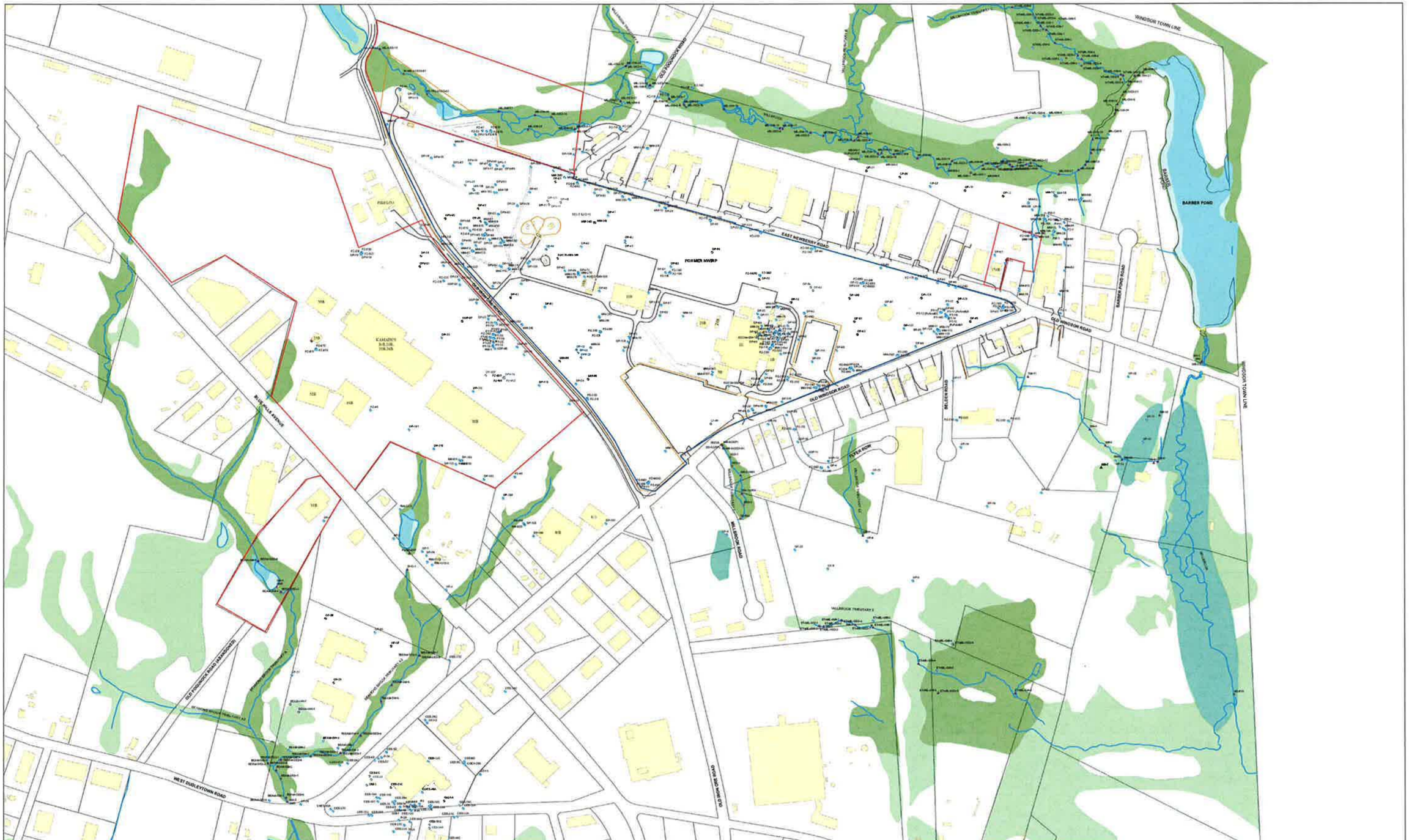


FIGURE 8
GROUNDWATER, SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

KAMAN AEROSPACE CORPORATION
BLOOMFIELD, CONNECTICUT

Project Mgr: RJD
Designed By: RJD
Reviewed By: GTB

Drawn By: MRH/MJS
Date: 06-13-11
Job Number: 05.0044286.08

Legend

- Surface Water Sample
- Sediment Sample
- Groundwater/Geology Sample

GZA GeoEnvironmental, Inc.

0 125 250 500 750 Feet
Scale 1" = 250'

N

Appendix A
G-1N Plume

The G-1N data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table A-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table A-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-1N plume discharge.

Question 5

Table A-3 provides the results of the sediment analytical analysis within the discharge of the G-1N plume. Table A-4 provides the results of the surface water analytical data within the discharge of the G-1N plume.

Question 6

This question was skipped per question 5 yes response

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions.

TABLE A-1
GROUNDWATER PLUME G-1N SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	120	9	50	1	0	0.5	1				1	12	0	12	0	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	257	9	920	8.9	1	0.5	1	62000	0	0	200	7	7	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	227	9	50	1	0	0.5	1	110	0	0	0.5	191	1	23	0	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	227	9	50	1	0	0.5	1	1260	0	0	5	5	0	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	4	4	0.5	0.5	0	0.5	0.5												
1,1-Dichloroethane	ug/L	256	9	500	2.2	1	0.5	1	2538	0	0	70	8	6	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	257	9	500	1	0	0.5	1	96	5	2	7	34	25	1	0	0	6	0	0
1,1-Dichloropropene	ug/L	123	9	50	1	0	0.5	1												
1,2,3-Trichlorobenzene	ug/L	123	9	50	2	0	0.5	2												
1,2,3-Trichloropropane	ug/L	123	9	50	1	0	0.5	1												
1,2,3-Trimethylbenzene	ug/L	28	4	50	1	0	0.5	1												
1,2,4-Trichlorobenzene	ug/L	123	9	50	2	0	0.5	2				70	0	0						
1,2,4-Trimethylbenzene	ug/L	123	9	350	5.9	2	0.5	1	710	0	0	350	0	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	123	9	50	1	0	0.5	1												
1,2-Dibromoethane (EDB)	ug/L	163	9	50	1	0	0.5	1				0.05	163	2	4	0	0	16	0	0
1,2-Dichlorobenzene	ug/L	123	9	50	1	0	0.5	1	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	255	9	540	1	0	0.5	1	2970	0	0	1	46	32	21	0	0	90	0	0
1,2-Dichloroethene (Total)	ug/L	209	1	17633	1	0	1	1												
1,2-Dichloropropane	ug/L	227	9	50	1	0	0.5	1				5	5	0	14	0	0	60	0	0
1,3,5-Trimethylbenzene	ug/L	123	9	300	1	1	0.5	1	710	0	0	350	0	0						
1,3-Dichlorobenzene	ug/L	123	9	50	1	0	0.5	1	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	123	9	50	1	0	0.5	1												
1,4-Dichlorobenzene	ug/L	123	9	50	1	0	0.5	1	26000	0	0	75	0	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	4	4	0.5	0.5	0	0.5	0.5				0.004	4	0						
1-Chlorohexane	ug/L	48	0	5		0														
2,2-Dichloropropane	ug/L	123	9	50	1	0	0.5	1												
2-Butanone (MEK)	ug/L	144	4	23	0.5	0	0.5	0.5	756000	0	0	400	0	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	123	9	50	1	0	0.5	1												
2-Hexanone	ug/L	182	4	14	0.5	0	0.5	0.5												
4-Chlorotoluene	ug/L	123	9	50	1	0	0.5	1												
4-Methyl-2-pentanone (MIBK)	ug/L	182	4	19	0.5	0	0.5	0.5				350	0	0	50000	0	0	50000	0	0
Acetone	ug/L	148	8	498	2	0	2	2				700	0	0	50000	0	0	50000	0	0
Acrylonitrile	ug/L	4	4	0.5	0.5	0	0.5	0.5	20	0	0	0.5	0	0						
Benzene	ug/L	227	9	50	1	0	0.5	1	710	0	0	1	31	19	215	0	0	530	0	0
Bromobenzene	ug/L	123	9	50	1	0	0.5	1												
Bromodichloromethane	ug/L	227	9	50	1	0	0.5	1				0.56	110	1						
Bromoform	ug/L	227	9	50	1	0	0.5	1	10800	0	0	4	11	0	920	0	0	3800	0	0
Bromomethane	ug/L	227	9	50	1	0	0.5	1				9.8	5	0						
Carbon disulfide	ug/L	182	4	5.4	0.5	0	0.5	0.5				700	0	0						
Carbon tetrachloride	ug/L	227	9	50	1	0	0.5	1	132	0	0	5	5	0	16	0	0	40	0	0
Chlorobenzene	ug/L	227	9	50	1	0	0.5	1	420000	0	0	100	0	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	163	9	50	1	0	0.5	1												
Chloroethane	ug/L	227	9	50	1	0	0.5	1				2538	0	0						
Chloroform	ug/L	227	9	50	1	0	0.5	1	14100	0	0	6	6	1	287	0	0	710	0	0
Chloromethane	ug/L	227	9	50	1	0	0.5	1				2.7	11	0						
cis-1,2-Dichloroethene	ug/L	248	9	17500	37	3	0.5	1	31860	0	0	70	55	54						
cis-1,3-Dichloropropene	ug/L	227	9	50	1	0	0.5	1												
Dibromochloromethane	ug/L	227	9	50	1	0	0.5	1	1020	0	0	0.5	111	0						
Dibromomethane	ug/L	123	9	50	1	0	0.5	1												
Dichlorodifluoromethane	ug/L	123	9	50	1	0	0.5	1												
Ethylbenzene	ug/L	227	9	190	1	0	0.5	1	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	123	9	50	1	0	0.5	1				0.45	123	0						

TABLE A-1
GROUNDWATER PLUME G-1N SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Isopropylbenzene	ug/L	123	9	50	2	1	0.5	1				30	4	1						
m+p-Xylenes	ug/L	223	5	921	1	0	0.5	1	702	1	1	530	2	2	21300	0	0	50000	0	0
Methyl methacrylate	ug/L	4	4	0.5	0.5	0	0.5	0.5												
Methylene chloride	ug/L	256	9	1400	2	0	0.5	2	48000	0	0	5	33	24	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	105	8	50	1	0	0.5	1	710	0	0	70	0	0	50000	0	0	50000	0	0
Naphthalene	ug/L	123	9	300	5.1	1	0.5	2	24	9	6	280	1	1						
n-Butylbenzene	ug/L	123	9	50	1	0	0.5	1	710	0	0	61	0	0						
n-Propylbenzene	ug/L	123	9	74	1	0	0.5	1				61	1	1						
o-Xylene	ug/L	227	9	683	1	0	0.5	1	702	0	0	530	1	1	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	123	9	64	16	2	0.5	1				30	4	1						
sec-Butylbenzene	ug/L	123	9	50	1	0	0.5	1	710	0	0	61	0	0						
Styrene	ug/L	227	9	50	1	0	0.5	1				100	0	0	580	0	0	2065	0	0
tert-Butylbenzene	ug/L	123	9	50	1	0	0.5	1	710	0	0	61	0	0						
Tetrachloroethene (PCE)	ug/L	256	9	2600	9.1	3	0.5	1	88	31	31	5	80	78	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	40	4	7.61	2	0	0.5	2				5	1	1						
Toluene	ug/L	227	9	2440	1	0	0.5	1	400000	0	0	1000	1	1	23500	0	0	50000	0	0
Total cVOC	ug/L	197	1	21460	1	0	1	1												
trans-1,2-Dichloroethene	ug/L	242	9	500	1	0	0.5	1				100	4	1						
trans-1,3-Dichloropropene	ug/L	227	9	50	1	0	0.5	1												
Trichloroethene (TCE)	ug/L	256	9	1800	1.6	1	0.5	1	2340	0	0	5	59	57	219	0	0	540	0	0
Trichlorofluoromethane	ug/L	123	9	50	1	0	0.5	1				1300	0	0						
Vinyl acetate	ug/L	70	0	4		0						410	0	0						
Vinyl chloride	ug/L	256	9	500	1	1	0.5	1	15750	0	0	2	20	1	2	0	0	2	0	0
Xylenes (Total)	ug/L	22	5	500	3	2	0.5	1	702	0	0	530	0	0	21300	0	0	50000	0	0
ETPH	mg/L	127	4	9.2	0.22	2	0.11	0.13				0.1	66	45						
TPH	mg/L	27	1	86	0.2	0	0.2	0.2				0.5	6	6						
TPH-DRO	mg/L	4	4	0.5	0.5	0	0.5	0.5												
Chromium, hexavalent (dissolved)	mg/L	2	2	0.01	0.01	0	0.01	0.01	0.11	0	0									
Chromium, trivalent (dissolved)	mg/L	2	2	0.01	0.01	0	0.01	0.01	1.2	0	0									
Calcium	mg/L	7	0	27.1		0														
Chromium, hexavalent	mg/L	2	2	0.01	0.01	0	0.01	0.01	0.11	0	0									
Chromium, trivalent	mg/L	2	2	0.011	0.011	1	0.01	0.01	1.2	0	0									
Iron	mg/L	7	0	0.031		0														
Magnesium	mg/L	7	0	9.05		0														
Manganese	mg/L	7	0	0.141		0														
Potassium	mg/L	7	0	1.76		0														
Sodium	mg/L	7	0	9.1		0														

GW Wells Immediately Upgradient of Surface Water
Table A-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill
Station	a	b	MIL-GW-5	MIL-GW-5	MIL-GW-6	MIL-GW-6	MIL-GW-7	MIL-GW-7	MIL-GW-7
Upper Depth (ftbg)			10	13	10	13	6	10	13
Lower Depth (ftbg)			12	15	12	15	8	12	15
Date Sampled			10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)									
Acetone	700		2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	0.5	20							
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
4-Bromofluorobenzene									
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000							
t-Butyl alcohol									
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Carbon disulfide	700								
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromofluoromethane									
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004								
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	2.2	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)									
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	37	2.4	0.6
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dichlorofluoromethane									
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)									
1,4-Dioxane	20								
Ethyl ether									
Ethyl tert-butyl ether									
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
2-Hexanone									
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Methane									
4-Methyl-2-pentanone (MIBK)	350								
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Tert-amyl methyl ether									

See Attached Notes. Blank results indicate chemical not analyzed.

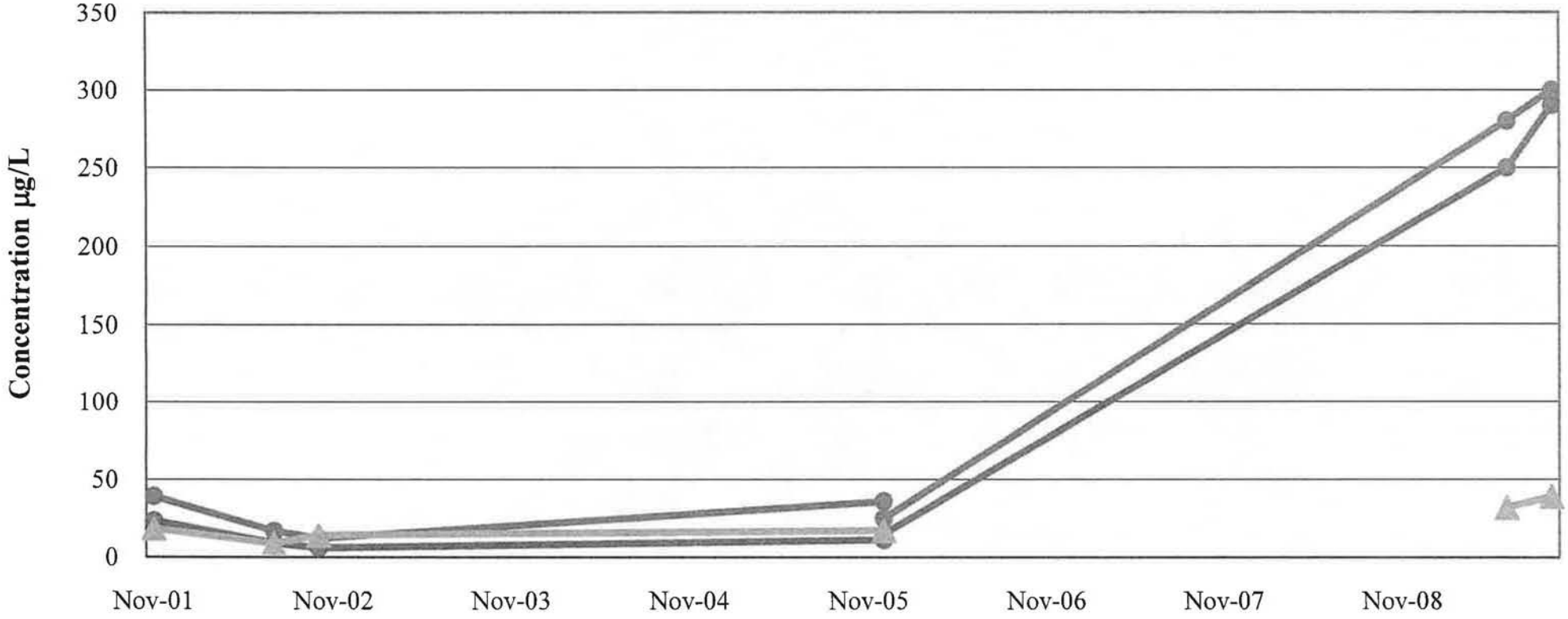
GW Wells Immediately Upgradient of Surface Water
Table A-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill	W Reach Mill
Station	a	b	MIL-GW-5	MIL-GW-5	MIL-GW-6	MIL-GW-6	MIL-GW-7	MIL-GW-7	MIL-GW-7
Upper Depth (ftbg)			10	13	10	13	6	10	13
Lower Depth (ftbg)			12	15	12	15	8	12	15
Date Sampled			10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009	10/15/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	9.1 a	1	0.5 U
Tetrahydrofuran	5								
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	8.9	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane									
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Xylenes (Total)	530	702							

Detection limit basis: RL

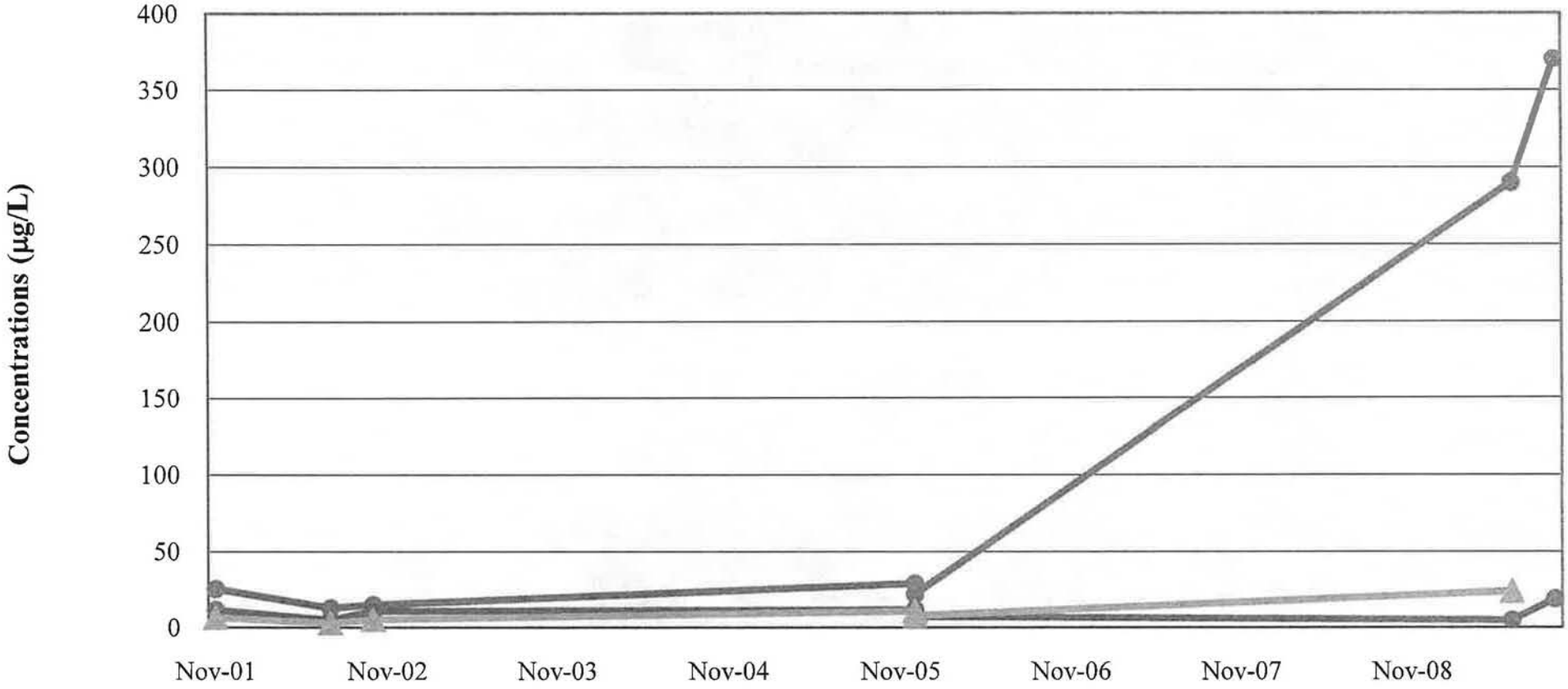
See Attached Notes. Blank results indicate chemical not analyzed.

Boundary G-1N and G-4 Plumes
TCE, PCE, and TCA Concentrations
MW-25d

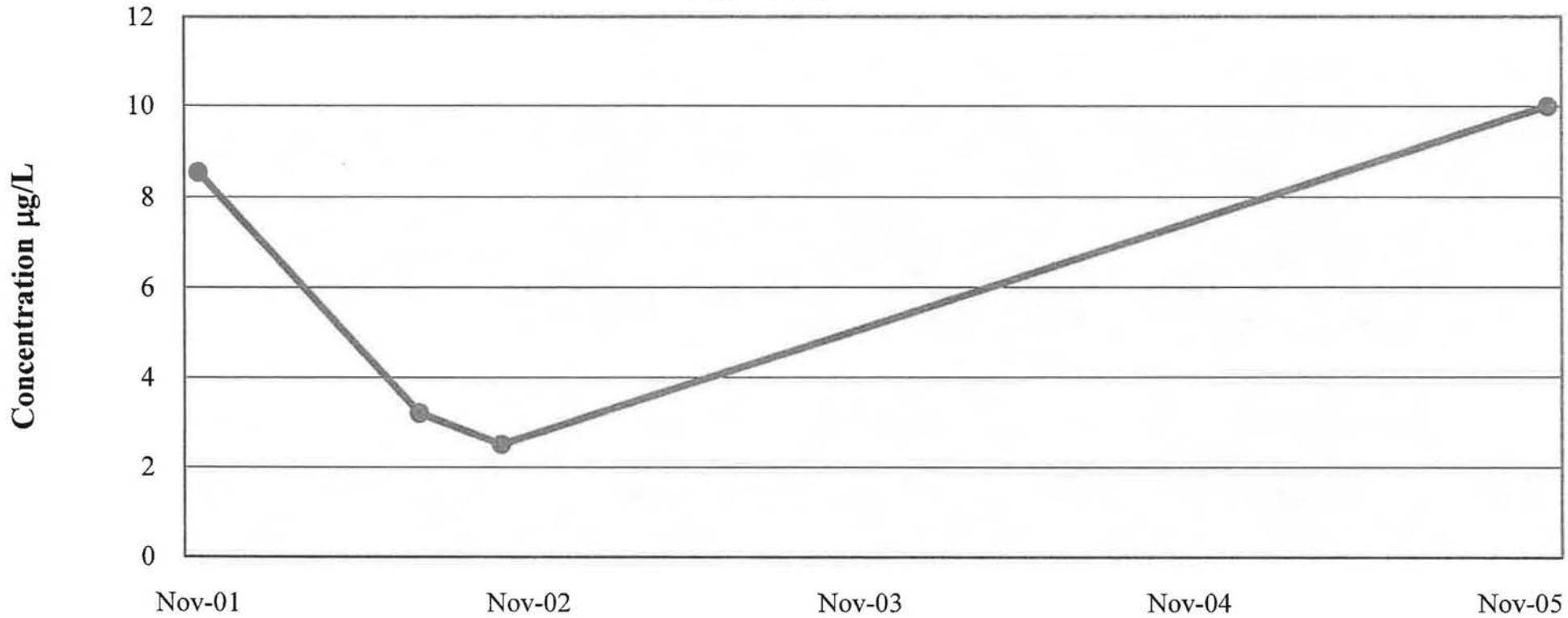


	11/13/01	07/19/02	10/24/02	12/06/05	12/06/05	06/25/09	09/25/09
TCE	39.3	17	12	36	25	280	300
PCE	23.7	8.9	5.9	11	15	250	290
TCA	18.3	8.6	14	17		32	39

Boundary G-1N and G-4 Plumes
Cis 1,2-DCE, 1,1-DCA, and 1,1-DCE Concentrations
MW-25d



	11/13/01	07/19/02	10/24/02	12/06/05	12/06/05	06/25/09	09/25/09
Cis 1,2-DCE	25.5	13	15	29	22	290	370
1,1-DCA	11.8	5.2	11	12	7.4	5	19
1,1-DCE	6.59	3.1	5.4	11	8.1	24	



	11/13/01	07/19/02	10/24/02	12/06/05	12/06/05
Methylene Chloride	8.54	3.2	2.5	10	10

Appendix B
G-1S Plume

The G-1S data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table B-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figures 2 provide a geologic cross section and geochemical information along the center line of the G-1S. The geologic cross section for the G-5 plume would be consistent with the G-1S plume. The compound of tetrachloroethene is provided on each cross section, whereas, hexavalent chromium data is provided on the G-2 and G-3 plumes sections. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table B-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-1S plume discharge.

Question 5

Table B-3 provides the results of the sediment analytical analysis within the discharge of the G-1S plume. Table B-4 provides the results of the surface water analytical data within the discharge of the G-1S plume.

Question 6

This question was skipped per question 5 yes response

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions.

TABLE B-1
GROUNDWATER PLUME G-1S SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	239	10	500	12	0	0.5	12				1	80	1	12	0	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	384	10	920	12	1	0.5	12	62000	0	0	200	15	11	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	361	10	500	12	0	0.5	12	110	9	0	0.5	287	2	23	0	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	361	10	1600	12	1	0.5	12	1260	1	1	5	49	13	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	53	5	500	12	0	0.5	12												
1,1-Dichloroethane	ug/L	384	10	500	12	1	0.5	12	2538	0	0	70	21	6	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	384	10	500	12	1	0.5	12	96	19	3	7	84	44	1	6	1	6	2	1
1,1-Dichloropropene	ug/L	228	8	500	12	0	0.5	12												
1,2,3-Trichlorobenzene	ug/L	228	8	500	12	0	0.5	12												
1,2,3-Trichloropropane	ug/L	240	10	500	12	0	0.5	12												
1,2,3-Trimethylbenzene	ug/L	65	3	250	5	0	0.5	5												
1,2,4-Trichlorobenzene	ug/L	228	8	500	12	0	0.5	12				70	14	0						
1,2,4-Trimethylbenzene	ug/L	228	8	500	12	1	0.5	12	710	0	0	350	1	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	228	8	500	12	0	0.5	12												
1,2-Dibromoethane (EDB)	ug/L	272	8	500	12	0	0.5	12				0.05	272	1	4	3	0	16	0	0
1,2-Dichlorobenzene	ug/L	240	10	500	12	0	0.5	12	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	384	10	1300	12	1	0.5	12	2970	0	0	1	152	89	21	0	0	90	0	0
1,2-Dichloroethane-d4	ug/L	9	0	9.63		0														
1,2-Dichloroethene (Total)	ug/L	280	5	17633	5	0	0.5	5												
1,2-Dichloropropane	ug/L	361	10	500	12	1	0.5	12				5	49	12	14	0	0	60	0	0
1,3,5-Trimethylbenzene	ug/L	228	8	500	12	0	0.5	12	710	0	0	350	1	0						
1,3-Dichlorobenzene	ug/L	240	10	500	12	0	0.5	12	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	228	8	500	12	0	0.5	12												
1,4-Dichlorobenzene	ug/L	240	10	500	12	0	0.5	12	26000	0	0	75	13	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	53	5	2000	12	0	0.5	12				0.004	53	0						
1,4-Dioxane	ug/L	9	0	500		0						20	9	0						
1-Chlorohexane	ug/L	61	1	130	5	0	5	5												
2,2-Dichloropropane	ug/L	228	8	500	12	0	0.5	12												
2-Butanone (MEK)	ug/L	226	5	2000	12	0	0.5	12	756000	0	0	400	6	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	240	10	500	12	0	0.5	12												
2-Hexanone	ug/L	265	5	2000	12	0	0.5	12												
4-Bromofluorobenzene	ug/L	9	0	10.1		0														
4-Chlorotoluene	ug/L	240	10	500	12	0	0.5	12												
4-Methyl-2-pentanone (MIBK)	ug/L	265	5	2000	12	0	0.5	12				350	6	0	50000	0	0	50000	0	0
Acetone	ug/L	229	5	6100	50	0	2	50				700	4	3	50000	0	0	50000	0	0
Acrylonitrile	ug/L	53	5	500	12	0	0.5	12	20	12	0	0.5	32	0						
Benzene	ug/L	349	8	500	12	0	0.5	12	710	0	0	1	88	23	215	0	0	530	0	0
Bromobenzene	ug/L	240	10	500	12	0	0.5	12												
Bromodichloromethane	ug/L	361	10	500	12	0	0.5	12				0.56	199	2						
Bromoform	ug/L	361	10	500	12	0	0.5	12	10800	0	0	4	73	0	920	0	0	3800	0	0
Bromomethane	ug/L	361	10	500	12	0	0.5	12				9.8	37	0						
Carbon disulfide	ug/L	265	5	500	50	0	0.5	50				700	0	0						
Carbon tetrachloride	ug/L	361	10	500	12	0	0.5	12	132	4	0	5	37	0	16	0	0	40	0	0
Chlorobenzene	ug/L	361	10	500	12	0	0.5	12	420000	0	0	100	9	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	266	8	250	12	0	0.5	12												
Chloroethane	ug/L	361	10	500	12	0	0.5	12				2538	0	0						
Chloroform	ug/L	361	10	500	12	0	0.5	12	14100	0	0	6	45	8	287	0	0	710	0	0
Chloromethane	ug/L	361	10	500	12	0	0.5	12				2.7	73	0						
cis-1,2-Dichloroethene	ug/L	319	5	17500	19	2	0.5	12	31860	0	0	70	64	57						
cis-1,3-Dichloropropene	ug/L	361	10	500	12	0	0.5	12												
Dibromochloromethane	ug/L	361	10	500	12	0	0.5	12	1020	0	0	0.5	199	0						
Dibromomethane	ug/L	240	10	500	12	0	0.5	12												

TABLE B-1
GROUNDWATER PLUME G-1S SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Dichlorodifluoromethane	ug/L	240	10	500	12	0	0.5	12												
Ethylbenzene	ug/L	349	8	500	12	0	0.5	12	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	228	8	500	12	0	0.5	12				0.45	228	0						
Isopropylbenzene	ug/L	228	8	500	12	0	0.5	12				30	23	3						
m+p-Xylenes	ug/L	321	3	921	5	0	0.5	5	702	1	1	530	2	2	21300	0	0	50000	0	0
Methyl methacrylate	ug/L	47	5	130	12	0	0.5	12												
Methylene chloride	ug/L	384	10	1400	110	1	0.5	50	48000	0	0	5	105	64	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	213	8	500	50	0	0.5	50	710	0	0	70	13	0	50000	0	0	50000	0	0
Naphthalene	ug/L	228	8	500	12	0	0.5	12	24	35	6	280	7	1						
n-Butylbenzene	ug/L	228	8	500	12	0	0.5	12	710	0	0	61	13	0						
n-Propylbenzene	ug/L	228	8	500	12	0	0.5	12				61	14	1						
o-Xylene	ug/L	349	8	683	12	0	0.5	12	702	0	0	530	1	1	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	228	8	500	12	0	0.5	12				30	22	2						
sec-Butylbenzene	ug/L	228	8	500	12	0	0.5	12	710	0	0	61	13	0						
Styrene	ug/L	349	8	500	12	0	0.5	12				100	9	0	580	0	0	2065	0	0
tert-Butylbenzene	ug/L	228	8	500	12	0	0.5	12	710	0	0	61	13	0						
Tetrachloroethene (PCE)	ug/L	384	10	9600	120	3	0.5	12	88	67	66	5	159	152	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	105	5	2000	12	0	0.5	12				5	22	3						
Toluene	ug/L	350	8	4700	12	0	0.5	12	400000	0	0	1000	2	2	23500	0	0	50000	0	0
Toluene-d8	ug/L	9	0	11.1		0														
Total cVOC	ug/L	211	0	21460		0														
trans-1,2-Dichloroethene	ug/L	305	5	500	12	0	0.5	12				100	11	1						
trans-1,3-Dichloropropene	ug/L	357	8	500	12	0	0.5	12												
Trichloroethene (TCE)	ug/L	384	10	79000	200	3	0.5	12	2340	21	21	5	158	154	219	0	0	540	0	0
Trichlorofluoromethane	ug/L	240	10	500	12	0	0.5	12				1300	0	0						
Vinyl acetate	ug/L	82	0	4		0						410	0	0						
Vinyl chloride	ug/L	384	10	500	12	0	0.5	12	15750	0	0	2	87	1	2	6	0	2	6	0
Xylenes (Total)	ug/L	43	5	500	12	1	0.5	12	702	0	0	530	0	0	21300	0	0	50000	0	0
ETPH	mg/L	108	0	9.2		0						0.1	70	35						
TPH	mg/L	21	0	86		0						0.5	5	5						
TPH-DRO	mg/L	1	0	0.5		0														
2-Methylnaphthalene	ug/L	5	0	0.059		0						49	0	0						
Acenaphthene	ug/L	5	0	0.059		0			6.1	0	0	420	0	0						
Acenaphthylene	ug/L	5	0	0.059		0			0.3	0	0	420	0	0						
Anthracene	ug/L	5	0	0.059		0			110000	0	0	2000	0	0						
Benzo(a)anthracene	ug/L	5	0	0.059		0			0.3	0	0	0.06	0	0						
Benzo(a)pyrene	ug/L	5	0	0.059		0			0.3	0	0	0.2	0	0						
Benzo(b)fluoranthene	ug/L	5	0	0.059		0			0.3	0	0	0.08	0	0						
Benzo(g,h,i)perylene	ug/L	5	0	0.059		0			4.92	0	0	210	0	0						
Benzo(k)fluoranthene	ug/L	5	0	0.059		0			0.3	0	0	0.5	0	0						
Chrysene	ug/L	5	0	0.059		0			4.92	0	0	4.8	0	0						
Dibenzo(a,h)anthracene	ug/L	5	0	0.059		0			0.01	5	0	0.2	0	0						
Fluoranthene	ug/L	5	0	0.06		0			3700	0	0	280	0	0						
Fluorene	ug/L	5	0	5.9		0			140000	0	0	280	0	0						
Indeno(1,2,3-cd)pyrene	ug/L	5	0	0.059		0			0.49	0	0	0.2	0	0						
Naphthalene	ug/L	5	0	5.9		0			24	0	0	280	0	0						
Phenanthrene	ug/L	5	0	0.059		0			0.3	0	0	200	0	0						
Pyrene	ug/L	5	0	0.059		0			110000	0	0	200	0	0						
Chromium, hexavalent (dissolved)	mg/L	19	2	0.01	0.01	0	0.01	0.01	0.11	0	0									
Chromium, total (dissolved)	mg/L	18	2	0.086	0.005	0	0.005	0.005				0.1	0	0						
Chromium, trivalent (dissolved)	mg/L	4	0	0.01		0			1.2	0	0									
Iron (dissolved)	mg/L	12	0	2.48		0														

TABLE B-1
GROUNDWATER PLUME G-1S SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Manganese (dissolved)	mg/L	12	0	0.058		0														
Sodium (dissolved)	mg/L	1	0	75		0														
Aluminum	mg/L	2	0	34		0			121.4	0	0									
Antimony	mg/L	6	0	0.006		0			86	0	0	0.006	0	0						
Arsenic	mg/L	8	2	0.0085	0.004	0	0.004	0.004	0.004	2	2	0.01	0	0						
Barium	mg/L	4	2	0.472	0.472	2	0.005	0.005	4.54	0	0	1	0	0						
Beryllium	mg/L	6	0	0.0015		0			0.004	0	0	0.004	0	0						
Cadmium	mg/L	8	2	0.0079	0.005	0	0.005	0.005	0.006	1	1	0.005	1	1						
Calcium	mg/L	13	0	90.4		0														
Chromium, hexavalent	mg/L	23	2	0.04	0.01	0	0.01	0.01	0.11	0	0									
Chromium, total	mg/L	17	4	0.28	0.005	0	0.005	0.005				0.1	2	2						
Chromium, trivalent	mg/L	4	0	0.396		0			1.2	0	0									
Cobalt	mg/L	2	0	0.0348		0						0.01	2	2						
Copper	mg/L	6	0	0.151		0			0.048	2	2	1.3	0	0						
Iron	mg/L	16	0	76.5		0														
Lead	mg/L	8	2	0.0472	0.003	0	0.003	0.003	0.013	2	2	0.015	2	2						
Magnesium	mg/L	13	0	40.3		0														
Manganese	mg/L	16	0	1.27		0														
Mercury	mg/L	8	2	0.00159	0.0004	0	0.0002	0.0004	0.0004	1	1	0.002	0	0						
Nickel	mg/L	6	0	0.104		0			0.88	0	0	0.1	1	1						
Potassium	mg/L	13	0	19.9		0														
Selenium	mg/L	8	2	0.0084	0.005	0	0.005	0.005	0.05	0	0	0.05	0	0						
Silver	mg/L	8	2	0.005	0.005	0	0.005	0.005	0.012	0	0	0.036	0	0						
Sodium	mg/L	23	0	574		0														
Thallium	mg/L	6	0	0.0131		0			0.063	0	0	0.005	1	1						
Vanadium	mg/L	2	0	0.0912		0						0.05	2	2						
Zinc	mg/L	6	0	2.61		0			0.123	2	2	5	0	0						

GW Wells Immediately Upgradient of Surface Water
Table B-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2
Station	a	b	BEAM-GW-1	BEAM-GW-1	BEAM-GW-1	BEAM-GW-2	BEAM-GW-2	BEAM-GW-3	BEAM-GW-3	BEAM-GW-4	BEAM-GW-4
Upper Depth (ftbg)			11	19	25	14	23	5	11	10	17
Lower Depth (ftbg)			12	20	26	15	24	6	12	11	18
Date Sampled			11/16/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)											
Acetone	700		2 U	4 U	2 U	50 U	67	20 U	10 U	50 U	50 U
Acrylonitrile	0.5	20	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Benzene	1	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Bromobenzene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Bromodichloromethane	0.56		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
4-Bromofluorobenzene											
Bromoform	4	10800	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Bromomethane	9.8		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
2-Butanone (MEK)	400	756000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
t-Butyl alcohol											
n-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
sec-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
tert-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Carbon disulfide	700		0.5 U	1 U	0.5 U	50 U	50 U	5 U	2.5 U	50 U	50 U
Carbon tetrachloride	5	132	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Chlorobenzene	100	420000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Chloroethane	2538		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Chloroform	6	14100	0.5 U	1 U	1	12 U	12 U	5 U	2.5 U	12 U	12 U
Chloromethane	2.7		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
2-Chlorotoluene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
4-Chlorotoluene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Dibromochloromethane	0.5	1020	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Dibromofluoromethane											
Dibromomethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2-Dichlorobenzene	600	170000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,3-Dichlorobenzene	600	26000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,4-Dichlorobenzene	75	26000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,4-Dichlorobutene	0.004		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Dichlorodifluoromethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,1-Dichloroethane	70	2538	0.5 U	3	4	12 U	12 U	5 U	4	12 U	12 U
1,2-Dichloroethane	1	2970	0.5 U	4 a	3 a	12 U	26 a	5 U	4 a	12 U	12 U
1,2-Dichloroethene (Total)											
cis-1,2-Dichloroethene	70	31860	0.5 U	5	2	15	12 U	19	14	12 U	20
trans-1,2-Dichloroethene	100		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,1-Dichloroethene	7	96	0.5 U	2	2	12 U	12 U	5 U	9 a	12 U	12 U
Dichlorofluoromethane											
1,3-Dichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
2,2-Dichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2-Dichloropropane	5		0.5 U	2	3	12 U	12 U	5 U	7 a	12 U	12 U
1,1-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
cis-1,3-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
trans-1,3-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Diisopropyl ether (DIPE)											
1,4-Dioxane	20										
Ethyl ether											
Ethyl tert-butyl ether											
Ethylbenzene	700	580000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Hexachlorobutadiene	0.45		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
2-Hexanone			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Isopropylbenzene	30		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Methane											
4-Methyl-2-pentanone (MIBK)	350		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Methylene chloride	5	48000	2 U	4 U	2 U	92 a	61 a	20 U	10 U	110 a	95 a
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	1	0.5 U	50 U	50 U	5 U	2.5 U	50 U	50 U
Naphthalene	280	24	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
n-Propylbenzene	61		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Styrene	100		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Tert-amyl methyl ether											

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table B-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2
Station	a	b	BEAM-GW-1	BEAM-GW-1	BEAM-GW-1	BEAM-GW-2	BEAM-GW-2	BEAM-GW-3	BEAM-GW-3	BEAM-GW-4	BEAM-GW-4
Upper Depth (ftbg)			11	19	25	14	23	5	11	10	17
Lower Depth (ftbg)			12	20	26	15	24	6	12	11	18
Date Sampled			11/16/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Tetrachloroethene (PCE)	5	88	0.5 U	22 a	5	31 a	12 U	120 a b	76 a	47 a	19 a
Tetrahydrofuran	5		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Toluene	1000	400000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
p-isopropyl toluene	30		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2,3-Trichlorobenzene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2,4-Trichlorobenzene	70		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	1 U	1	12 U	12 U	5 U	4	12 U	12 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	3	2	12 U	12 U	5 U	7 a	12 U	12 U
Trichloroethene (TCE)	5	2340	0.5 U	45 a	14 a	50 a	21 a	200 a	150 a	72 a	140 a
Trichlorofluoromethane	1300		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2,3-Trichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,1,2-Trichlorotrifluoroethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
1,2,4-Trimethylbenzene	350	710	0.5 U	1 U	0.5 U	12 U	14	5 U	3	12 U	12 U
1,3,5-Trimethylbenzene	350	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Vinyl chloride	2	15750	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
m+p-Xylenes	0.53	702									
o-Xylene	530	702	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U
Xylenes (Total)	530	702	0.5 U	1 U	0.5 U	12 U	13	5 U	3	12 U	12 U

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table B-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2	BEAM TRIB A2
Station	a	b	BEAM-GW-5	BEAM-GW-5
Upper Depth (ftbg)			14	20
Lower Depth (ftbg)			15	21
Date Sampled			11/16/2009	11/16/2009
Aliquot			SA-YK	SA-YK
VOCs (µg/L)				
Acetone	700		20 U	2 U
Acrylonitrile	0.5	20	5 U	0.5 U
Benzene	1	710	5 U	0.5 U
Bromobenzene			5 U	0.5 U
Bromodichloromethane	0.56		5 U	0.5 U
4-Bromofluorobenzene				
Bromoform	4	10800	5 U	0.5 U
Bromomethane	9.8		5 U	0.5 U
2-Butanone (MEK)	400	756000	5 U	0.5 U
t-Butyl alcohol				
n-Butylbenzene	61	710	5 U	0.5 U
sec-Butylbenzene	61	710	5 U	0.5 U
tert-Butylbenzene	61	710	5 U	0.5 U
Carbon disulfide	700		5 U	0.5 U
Carbon tetrachloride	5	132	5 U	0.5 U
Chlorobenzene	100	420000	5 U	0.5 U
Chloroethane	2538		5 U	0.5 U
Chloroform	6	14100	5 U	0.5 U
Chloromethane	2.7		5 U	0.5 U
2-Chlorotoluene			5 U	0.5 U
4-Chlorotoluene			5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			5 U	0.5 U
Dibromochloromethane	0.5	1020	5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		5 U	0.5 U
Dibromofluoromethane				
Dibromomethane			5 U	0.5 U
1,2-Dichlorobenzene	600	170000	5 U	0.5 U
1,3-Dichlorobenzene	600	26000	5 U	0.5 U
1,4-Dichlorobenzene	75	26000	5 U	0.5 U
1,4-Dichlorobutene	0.004		5 U	0.5 U
Dichlorodifluoromethane			5 U	0.5 U
1,1-Dichloroethane	70	2538	5 U	0.5 U
1,2-Dichloroethane	1	2970	5 U	0.5 U
1,2-Dichloroethene (Total)				
cis-1,2-Dichloroethene	70	31860	12	2
trans-1,2-Dichloroethene	100		5 U	0.5 U
1,1-Dichloroethene	7	96	5 U	0.5 U
Dichlorofluoromethane				
1,3-Dichloropropane			5 U	0.5 U
2,2-Dichloropropane			5 U	0.5 U
1,2-Dichloropropane	5		5 U	0.5 U
1,1-Dichloropropene			5 U	0.5 U
cis-1,3-Dichloropropene			5 U	0.5 U
trans-1,3-Dichloropropene			5 U	0.5 U
Diisopropyl ether (DIPE)				
1,4-Dioxane	20			
Ethyl ether				
Ethyl tert-butyl ether				
Ethylbenzene	700	580000	5 U	0.5 U
Hexachlorobutadiene	0.45		5 U	0.5 U
2-Hexanone			5 U	0.5 U
Isopropylbenzene	30		5 U	0.5 U
Methane				
4-Methyl-2-pentanone (MIBK)	350		5 U	0.5 U
Methylene chloride	5	48000	20 U	2 U
Methyl-t-butyl ether (MTBE)	70	710	5 U	0.5 U
Naphthalene	280	24	5 U	0.5 U
n-Propylbenzene	61		5 U	0.5 U
Styrene	100		5 U	0.5 U
Tert-amyl methyl ether				

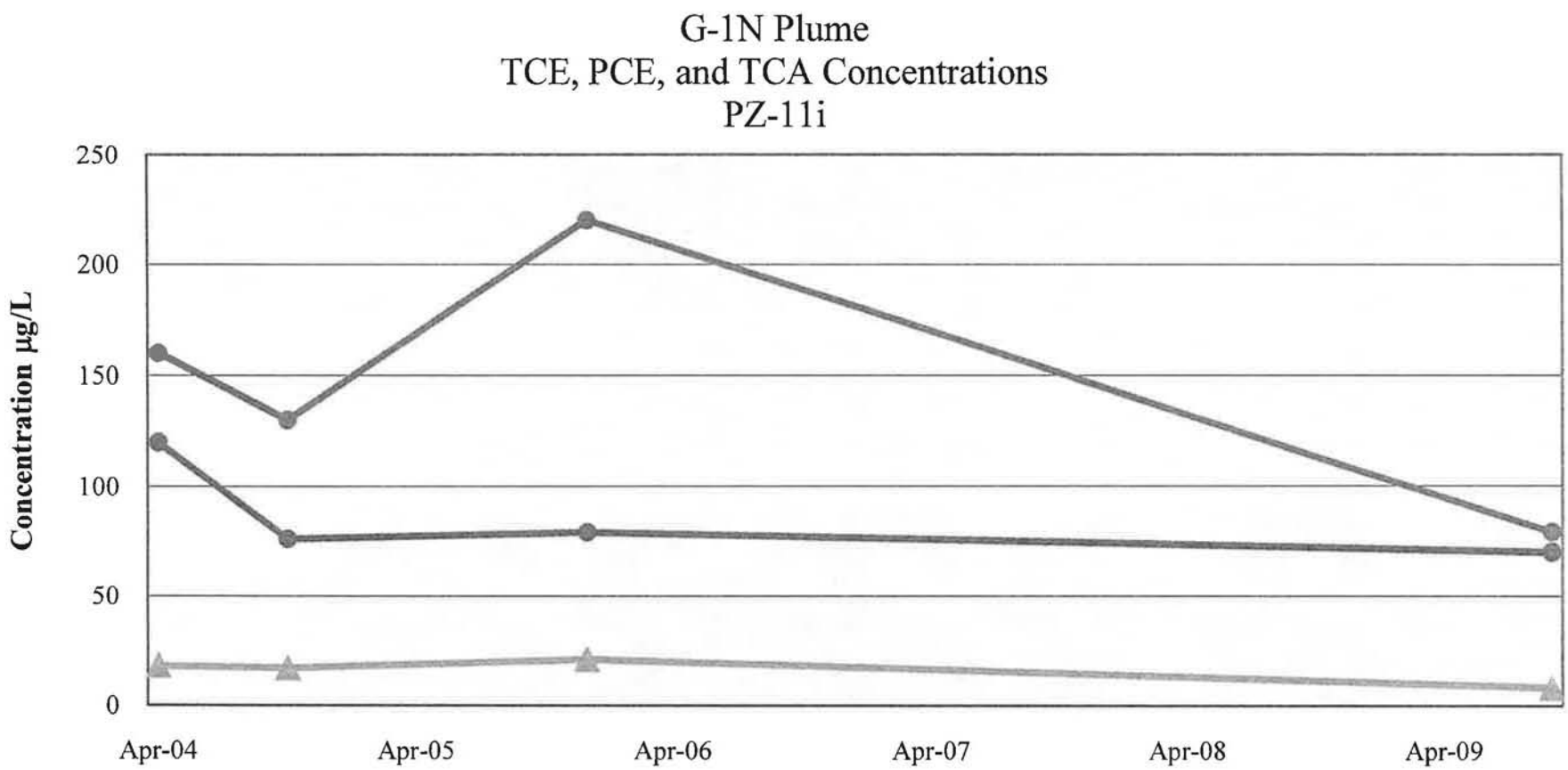
See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table B-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

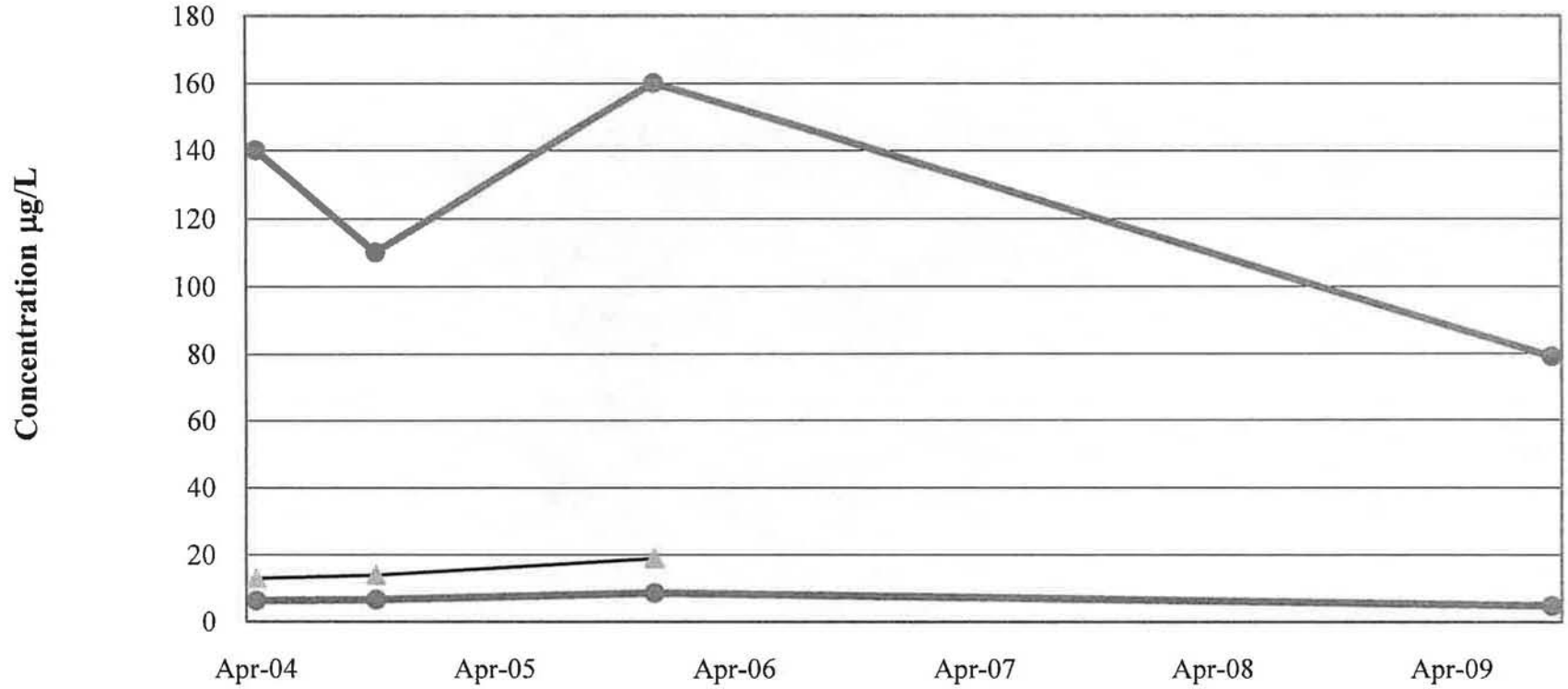
Survey Area	**GWPC**	**SWPC**	**BEAM TRIB A2**		**BEAM TRIB A2**	
Station	**a**	**b**	**BEAM-GW-5**		**BEAM-GW-5**	
Upper Depth (ftbg)			**14**		**20**	
Lower Depth (ftbg)			**15**		**21**	
Date Sampled			**11/16/2009**		**11/16/2009**	
Aliquot			**SA-YK**		**SA-YK**	
1,1,1,2-Tetrachloroethane	1		5 U		0.5 U	
1,1,2,2-Tetrachloroethane	0.5	110	5 U		0.5 U	
Tetrachloroethene (PCE)	5	88	90	a b	6	a
Tetrahydrofuran	5		5 U		0.5 U	
Toluene	1000	400000	5 U		1	
p-isopropyl toluene	30		5 U		0.5 U	
1,2,3-Trichlorobenzene			5 U		0.5 U	
1,2,4-Trichlorobenzene	70		5 U		0.5 U	
1,1,1-Trichloroethane (TCA)	200	62000	5 U		0.5 U	
1,1,2-Trichloroethane (TCA)	5	1260	5 U		0.5 U	
Trichloroethene (TCE)	5	2340	200	a	24	a
Trichlorofluoromethane	1300		5 U		0.5 U	
1,2,3-Trichloropropane			5 U		0.5 U	
1,1,2-Trichlorotrifluoroethane			5 U		0.5 U	
1,2,4-Trimethylbenzene	350	710	5 U		0.5 U	
1,3,5-Trimethylbenzene	350	710	5 U		0.5 U	
Vinyl chloride	2	15750	5 U		0.5 U	
m+p-Xylenes	0.53	702				
o-Xylene	530	702	5 U		0.5 U	
Xylenes (Total)	530	702	5 U		0.5 U	

Detection limit basis: RL.

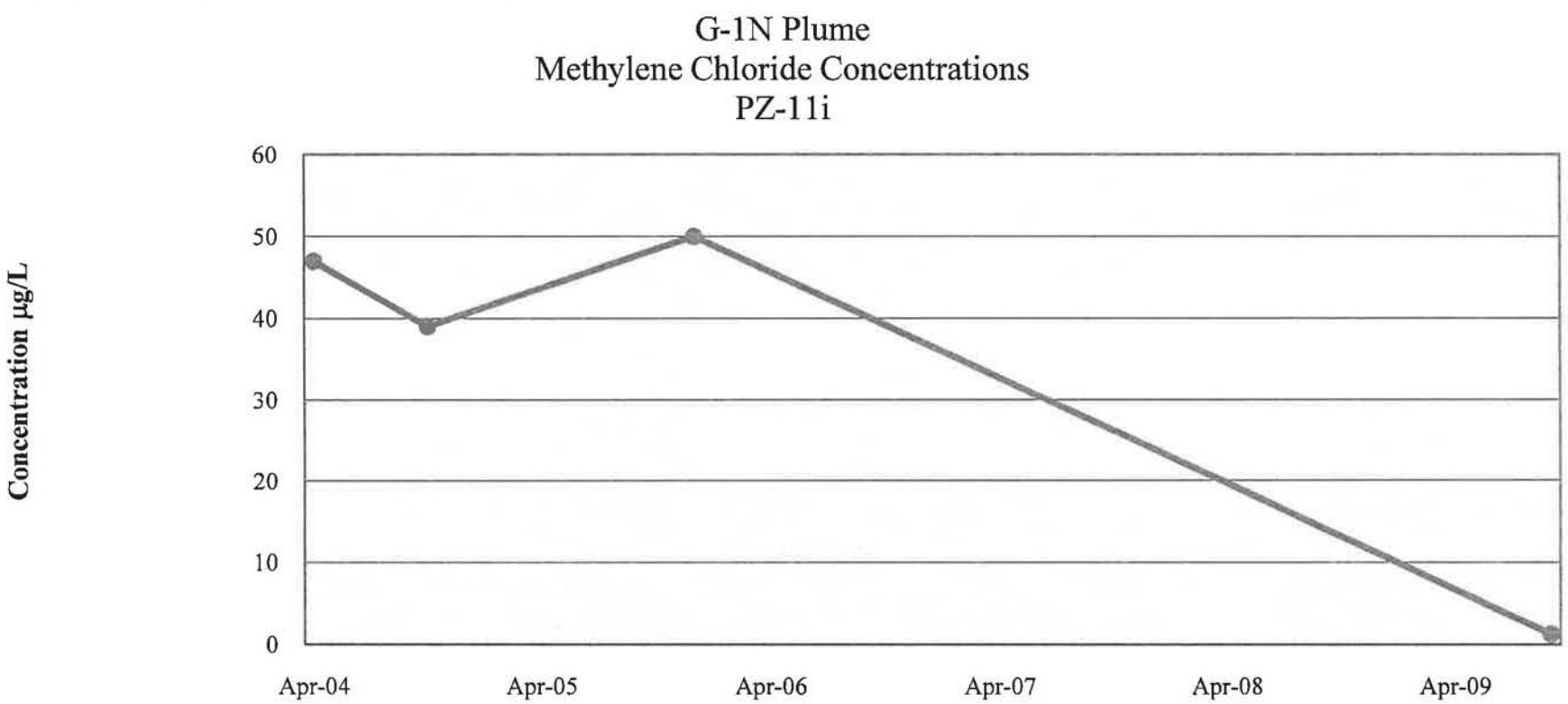
See Attached Notes. Blank results indicate chemical not analyzed.



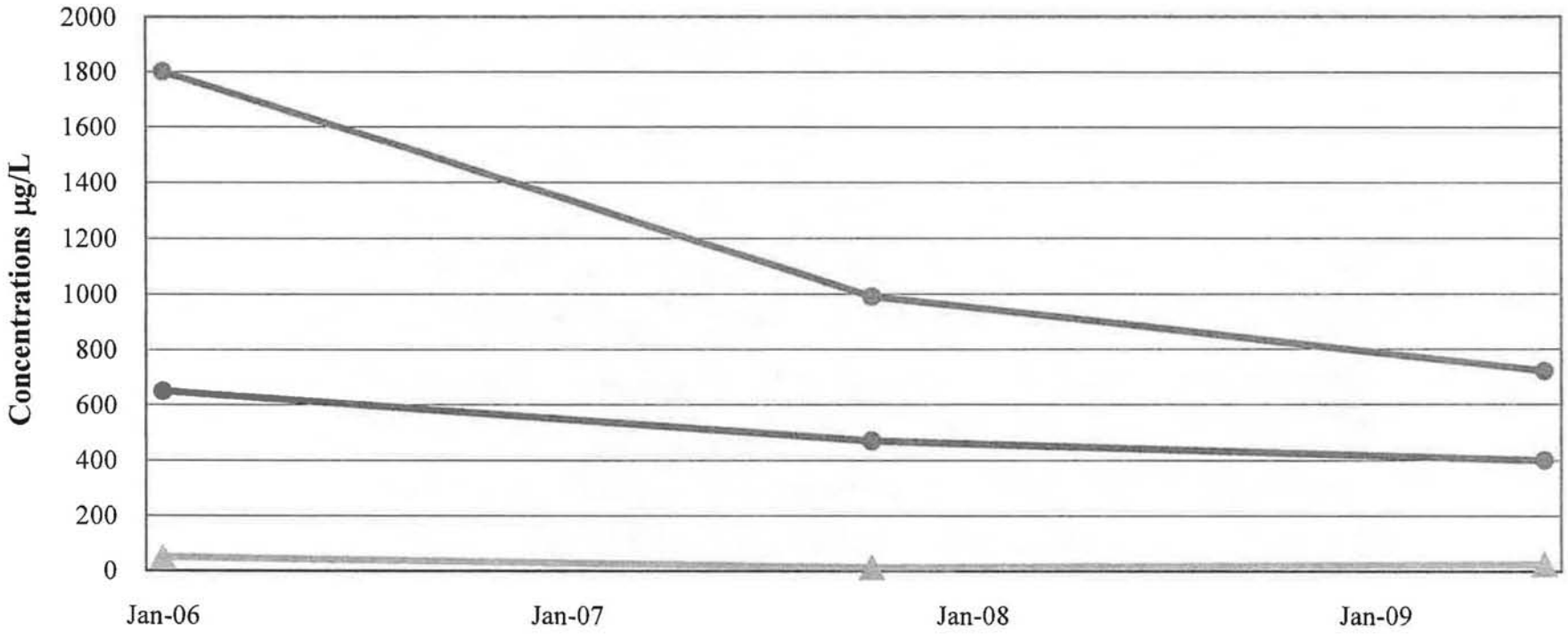
	04/14/04	10/21/04	12/06/05	09/25/09
TCE	160	130	220	79
PCE	120	76	79	70
TCA	18	17	21	8.1



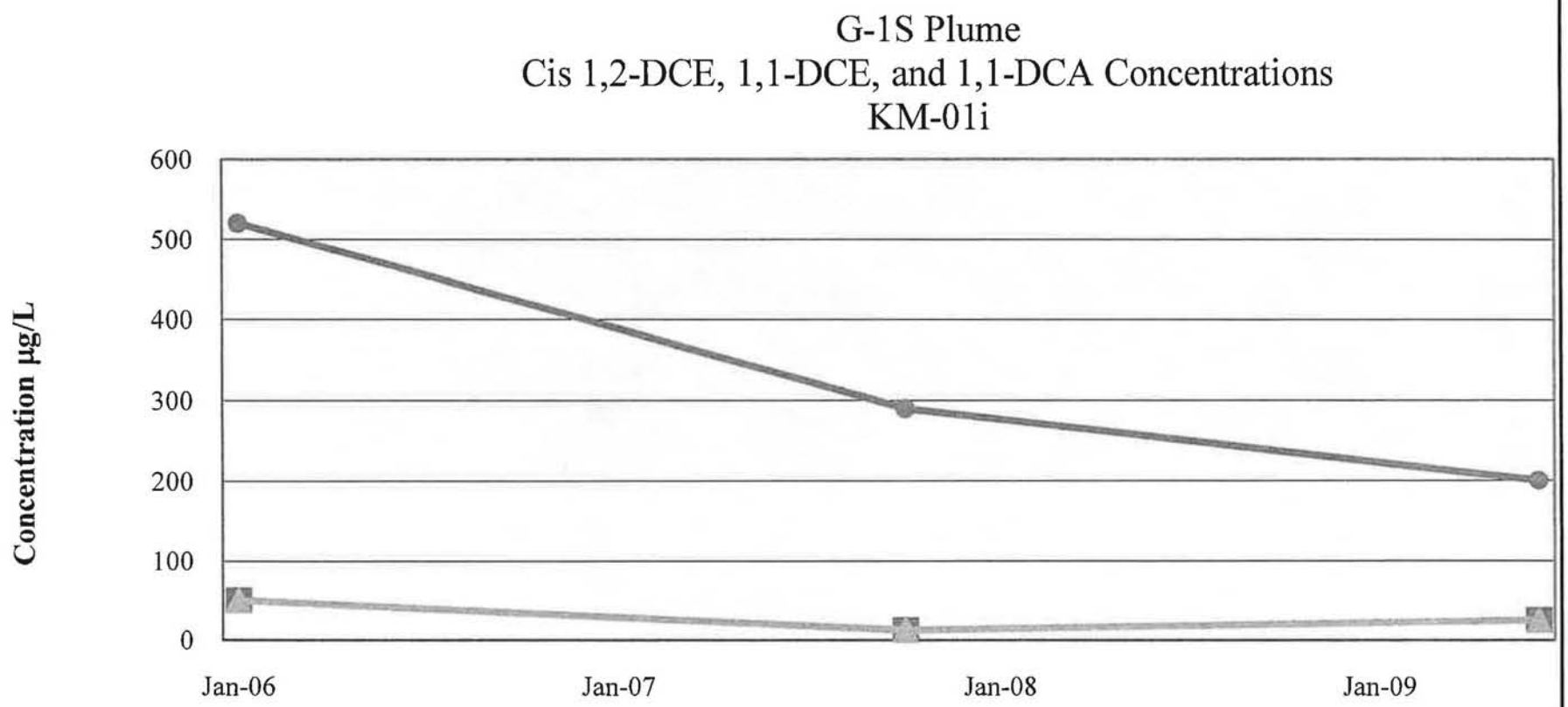
	04/14/04	10/21/04	12/06/05	09/25/09
Cis 1,2-DCE	140	110	160	79
1,1-DCA	6.3	6.6	8.6	4.8
1,1-DCE	13	14	19	



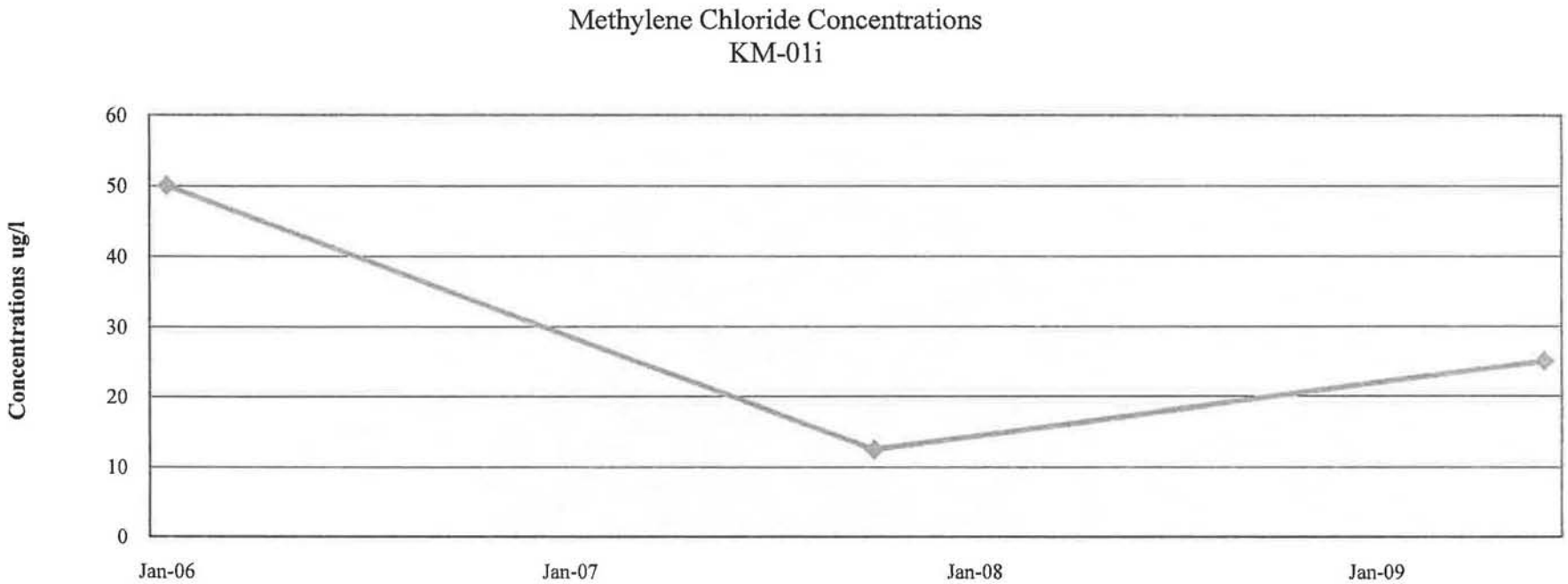
	04/14/04	10/21/04	12/06/05	09/25/09
Methylene Chloride	47	39	50	1.25



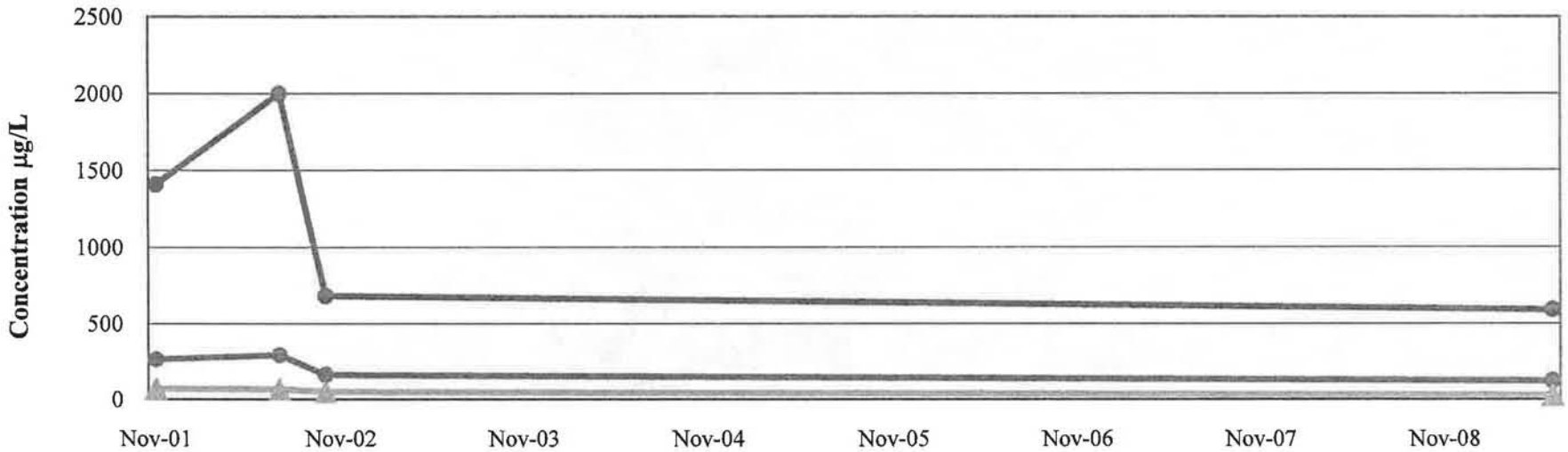
	01/25/06	10/25/07	06/26/09
TCE	1800	990	720
PCE	650	470	400
TCA	50	12.5	25



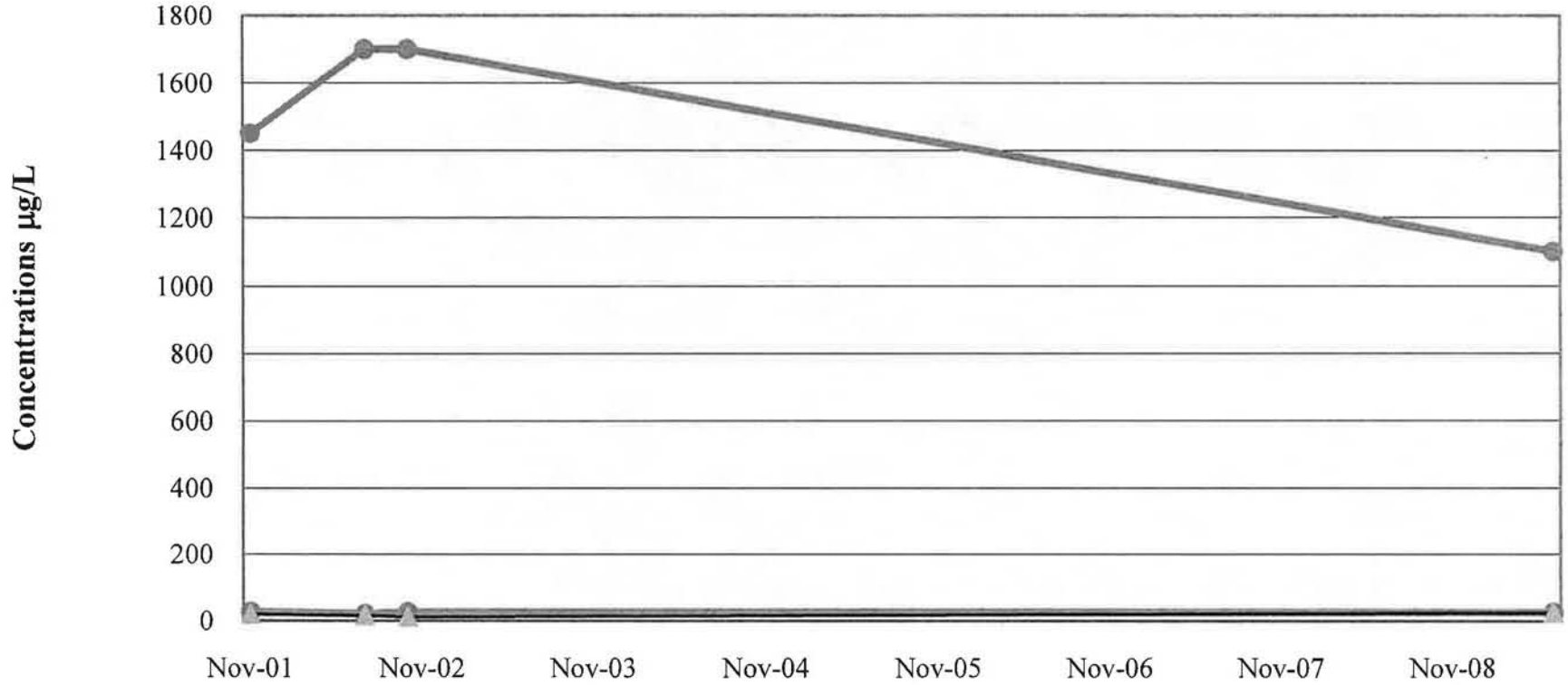
	01/25/06	10/25/07	06/26/09
Cis 1,2-DCE	520	290	200
1,1-DCE	50	12.5	25
1,1-DCA	50	12.5	25



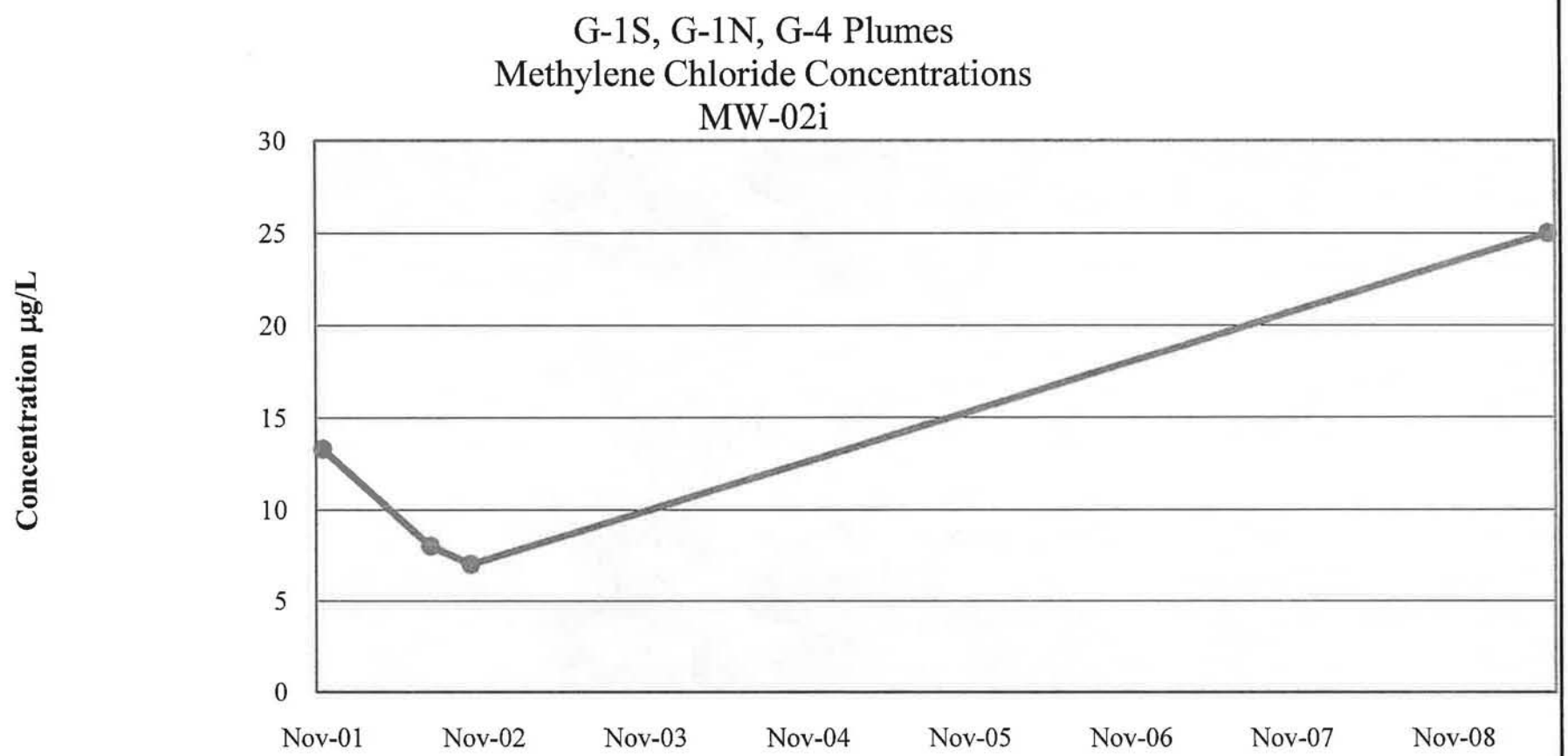
	01/25/06	10/25/07	06/26/09
Methylene Chloride	50	12.5	25



	11/14/01	07/22/02	10/29/02	06/25/09
TCE	262	290	160	120



	11/14/01	07/22/02	10/29/02	06/25/09
Cis 1,2-DCE	1450	1700	1700	1100
1,1-DCA	26.1	20	25	25
1,1-DCE	18.8	15	11	25



	11/14/01	07/22/02	10/29/02	06/25/09
Methylene Chloride	13.3	8	7	25

Appendix C
G-2 Plume

The G-2 data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table C-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figures 3 and 4 provide a geologic cross section and geochemical information along the center line of the G-2. The compound of tetrachloroethene and hexavalent chromium is provided on the G-2 cross sections. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table C-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-2 plume discharge.

Question 5

Table C-3 provides the results of the sediment analytical analysis within the discharge of the G-2 plume. Table C-4 provides the results of the surface water analytical data within the discharge of the G-2 plume.

Question 6

This question was skipped per question 5 yes response

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions.

TABLE C-1
GROUNDWATER PLUME G-2 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	290	34	130	5	0	0.5	5				1	57	0	12	0	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	363	34	130	73	2	0.5	50	62000	0	0	200	0	0	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	353	34	130	5	0	0.5	5	110	1	0	0.5	160	0	23	0	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	353	34	130	5	0	0.5	5	1260	0	0	5	14	0	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	71	6	50	0.5	0	0.5	0.5												
1,1-Dichloroethane	ug/L	364	34	130	5	0	0.5	5	2538	0	0	70	2	0	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	363	34	130	12	1	0.5	5	96	2	0	7	47	31	1	5	1	6	1	1
1,1-Dichloropropene	ug/L	291	34	130	5	0	0.5	5												
1,2,3-Trichlorobenzene	ug/L	291	34	200	5	0	0.5	5												
1,2,3-Trichloropropane	ug/L	291	34	130	5	2	0.5	5												
1,2,3-Trimethylbenzene	ug/L	152	28	130	5	0	0.5	5												
1,2,4-Trichlorobenzene	ug/L	291	34	200	5	0	0.5	5				70	3	0						
1,2,4-Trimethylbenzene	ug/L	291	34	130	5	0	0.5	5	710	0	0	350	0	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	291	34	200	5	0	0.5	5												
1,2-Dibromoethane (EDB)	ug/L	308	34	130	5	1	0.5	5				0.05	308	1	4	4	0	16	0	0
1,2-Dichlorobenzene	ug/L	291	34	210	5	0	0.5	5	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	363	34	130	5	1	0.5	5	2970	0	0	1	80	23	21	0	0	90	0	0
1,2-Dichloroethane-d4	ug/L	1	0	7.61		0														
1,2-Dichloroethene (Total)	ug/L	226	4	130	5	0	5	5												
1,2-Dichloropropane	ug/L	353	34	130	23	8	0.5	5				5	18	4	14	1	1	60	0	0
1,3,5-Trimethylbenzene	ug/L	291	34	130	5	0	0.5	5	710	0	0	350	0	0						
1,3-Dichlorobenzene	ug/L	291	34	130	5	0	0.5	5	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	291	34	130	5	0	0.5	5												
1,4-Dichlorobenzene	ug/L	291	34	130	5	0	0.5	5	26000	0	0	75	2	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	69	6	50	0.5	0	0.5	0.5				0.004	69	0						
1,4-Dioxane	ug/L	3	0	500		0						20	2	1						
1-Chlorohexane	ug/L	61	4	100	5	0	5	5												
2,2-Dichloropropane	ug/L	291	34	130	5	0	0.5	5												
2-Butanone (MEK)	ug/L	172	6	50	0.5	0	0.5	0.5	756000	0	0	400	0	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	291	34	130	5	0	0.5	5												
2-Hexanone	ug/L	189	6	50	0.5	0	0.5	0.5												
4-Bromofluorobenzene	ug/L	3	0	46.9		0														
4-Chlorotoluene	ug/L	291	34	130	5	0	0.5	5												
4-Methyl-2-pentanone (MIBK)	ug/L	189	6	50	0.5	0	0.5	0.5				350	0	0	50000	0	0	50000	0	0
Acetone	ug/L	171	9	250	4.6	3	2	2				700	0	0	50000	0	0	50000	0	0
Acrylonitrile	ug/L	71	6	50	0.5	0	0.5	0.5	20	1	0	0.5	14	0						
Benzene	ug/L	352	34	130	22	1	0.5	5	710	0	0	1	59	3	215	0	0	530	0	0
Bromobenzene	ug/L	291	34	130	5	0	0.5	5												
Bromodichloromethane	ug/L	353	34	130	5	0	0.5	5				0.56	127	1						
Bromoform	ug/L	353	34	130	5	0	0.5	5	10800	0	0	4	50	0	920	0	0	3800	0	0
Bromomethane	ug/L	353	34	130	5	0	0.5	5				9.8	14	0						
Carbon disulfide	ug/L	189	6	50	0.5	0	0.5	0.5				700	0	0						
Carbon tetrachloride	ug/L	353	34	130	5	0	0.5	5	132	0	0	5	14	0	16	0	0	40	0	0
Chlorobenzene	ug/L	353	34	130	5	0	0.5	5	420000	0	0	100	1	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	297	34	130	5	0	0.5	5												
Chloroethane	ug/L	353	34	130	5	0	0.5	5				2538	0	0						
Chloroform	ug/L	353	34	130	5	0	0.5	5	14100	0	0	6	17	2	287	0	0	710	0	0
Chloromethane	ug/L	353	34	130	5	0	0.5	5				2.7	52	2						
cis-1,2-Dichloroethene	ug/L	245	30	50	8.6	3	0.5	0.5	31860	0	0	70	0	0						
cis-1,3-Dichloropropene	ug/L	353	34	130	5	0	0.5	5												
Dibromochloromethane	ug/L	353	34	130	5	0	0.5	5	1020	0	0	0.5	125	0						
Dibromofluoromethane	ug/L	2	0	47.4		0														

TABLE C-1
GROUNDWATER PLUME G-2 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Dibromomethane	ug/L	291	34	130	5	0	0.5	5												
Dichlorodifluoromethane	ug/L	291	34	130	5	0	0.5	5												
Diisopropyl ether (DIPE)	ug/L	2	0	1		0														
Ethyl ether	ug/L	2	0	1		0														
Ethyl tert-butyl ether	ug/L	2	0	1		0														
Ethylbenzene	ug/L	353	34	240	5	1	0.5	5	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	291	34	200	5	0	0.5	5				0.45	291	0						
Isopropylbenzene	ug/L	291	34	130	5	1	0.5	5				30	4	0						
m+p-Xylenes	ug/L	345	30	130	5	1	0.5	5	702	0	0	530	0	0	21300	0	0	50000	0	0
Methane	ug/L	16	0	10		0														
Methyl methacrylate	ug/L	58	6	10	0.5	0	0.5	0.5												
Methylene chloride	ug/L	364	34	1300	5	3	0.5	5	48000	0	0	5	52	30	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	286	34	520	5	2	0.5	5	710	0	0	70	3	1	50000	0	0	50000	0	0
Naphthalene	ug/L	288	31	200	5	1	0.5	5	24	7	0	280	0	0						
n-Butylbenzene	ug/L	291	34	130	5	0	0.5	5	710	0	0	61	2	0						
n-Propylbenzene	ug/L	291	34	130	5	0	0.5	5				61	2	0						
o-Xylene	ug/L	13	4	5	5	0	5	5												
o-Xylene	ug/L	340	30	130	0.5	0	0.5	0.5	702	0	0	530	0	0	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	291	34	130	5	0	0.5	5				30	4	0						
sec-Butylbenzene	ug/L	291	34	130	5	0	0.5	5	710	0	0	61	2	0						
Styrene	ug/L	353	34	130	5	0	0.5	5				100	1	0	580	0	0	2065	0	0
t-Butyl alcohol	ug/L	2	0	10		0														
Tert-amyl methyl ether	ug/L	2	0	1		0														
tert-Butylbenzene	ug/L	291	34	130	5	0	0.5	5	710	0	0	61	2	0						
Tetrachloroethene (PCE)	ug/L	363	34	1000	5	2	0.5	5	88	30	28	5	97	89	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	114	6	50	2	0	0.5	2				5	12	0						
Toluene	ug/L	353	34	130	5	1	0.5	5	400000	0	0	1000	0	0	23500	0	0	50000	0	0
Toluene-d8	ug/L	1	0	9.87		0														
Total cVOC	ug/L	105	0	1510.7		0														
trans-1,2-Dichloroethene	ug/L	241	30	50	0.5	0	0.5	0.5				100	0	0						
trans-1,3-Dichloropropene	ug/L	353	34	130	5	0	0.5	5												
Trichloroethene (TCE)	ug/L	363	34	6700	5	1	0.5	5	2340	3	3	5	104	100	219	0	0	540	0	0
Trichlorofluoromethane	ug/L	291	34	130	5	0	0.5	5				1300	0	0						
Vinyl acetate	ug/L	49	0	4		0						410	0	0						
Vinyl chloride	ug/L	363	34	130	5	0	0.5	5	15750	0	0	2	60	0	2	4	0	2	4	0
Xylenes (Total)	ug/L	13	4	4	3.3	1	0.5	0.5	702	0	0	530	0	0	21300	0	0	50000	0	0
ETPH	mg/L	105	0	0.6		0						0.1	59	14						
TPH	mg/L	8	0	0.45		0						0.5	0	0						
2-Methylnaphthalene	ug/L	1	0	0.059		0						49	0	0						
Acenaphthene	ug/L	1	0	0.059		0			6.1	0	0	420	0	0						
Acenaphthylene	ug/L	1	0	0.059		0			0.3	0	0	420	0	0						
Anthracene	ug/L	1	0	0.059		0			110000	0	0	2000	0	0						
Benzo(a)anthracene	ug/L	1	0	0.059		0			0.3	0	0	0.06	0	0						
Benzo(a)pyrene	ug/L	1	0	0.059		0			0.3	0	0	0.2	0	0						
Benzo(b)fluoranthene	ug/L	1	0	0.059		0			0.3	0	0	0.08	0	0						
Benzo(g,h,i)perylene	ug/L	1	0	0.059		0			4.92	0	0	210	0	0						
Benzo(k)fluoranthene	ug/L	1	0	0.059		0			0.3	0	0	0.5	0	0						
Chrysene	ug/L	1	0	0.059		0			4.92	0	0	4.8	0	0						
Dibenzo(a,h)anthracene	ug/L	1	0	0.059		0			0.01	1	0	0.2	0	0						
Fluoranthene	ug/L	1	0	0.059		0			3700	0	0	280	0	0						
Fluorene	ug/L	1	0	5.9		0			140000	0	0	280	0	0						
Indeno(1,2,3-cd)pyrene	ug/L	1	0	0.059		0			0.49	0	0	0.2	0	0						

TABLE C-1
GROUNDWATER PLUME G-2 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Naphthalene	ug/L	3	3	1	1	1	0.5	0.5	24	0	0	280	0	0						
Phenanthrene	ug/L	1	0	0.059		0			0.3	0	0	200	0	0						
Pyrene	ug/L	1	0	0.059		0			110000	0	0	200	0	0						
Chromium, hexavalent (dissolved)	mg/L	251	35	37.9	0.01	0	0.01	0.01	0.11	83	80									
Chromium, total (dissolved)	mg/L	142	30	6.96	0.007	1	0.005	0.005				0.1	40	40						
Chromium, trivalent (dissolved)	mg/L	99	0	1.41		0			1.2	1	1									
Iron (dissolved)	mg/L	6	0	0.091		0														
Magnesium (dissolved)	mg/L	6	0	475		0														
Manganese (dissolved)	mg/L	4	0	15.1		0														
Aluminum	mg/L	126	0	228		0			121.4	2	2									
Antimony	mg/L	119	0	1.21		0			86	0	0	0.006	21	11						
Arsenic	mg/L	115	0	0.1		0			0.004	98	1	0.01	57	1						
Barium	mg/L	115	0	5.31		0			4.54	1	1	1	2	2						
Beryllium	mg/L	119	0	0.0074		0			0.004	2	2	0.004	2	2						
Cadmium	mg/L	114	0	0.0222		0			0.006	2	2	0.005	2	2						
Calcium	mg/L	128	0	291		0														
Chromium, hexavalent	mg/L	376	33	38.2	0.01	0	0.01	0.01	0.11	116	113									
Chromium, total	mg/L	295	34	15.4	0.027	22	0.005	0.005				0.1	128	128						
Chromium, trivalent	mg/L	97	0	1.98		0			1.2	1	1									
Cobalt	mg/L	116	0	0.121		0						0.01	60	4						
Copper	mg/L	115	0	0.725		0			0.048	4	4	1.3	0	0						
Iron	mg/L	171	4	228	22.4	4	0.005	0.005												
Lead	mg/L	121	0	0.144		0			0.013	6	6	0.015	6	6						
Magnesium	mg/L	146	0	482		0														
Manganese	mg/L	163	0	15		0														
Mercury	mg/L	115	0	0.0012		0			0.0004	57	1	0.002	0	0						
Nickel	mg/L	126	0	0.52		0			0.88	0	0	0.1	8	8						
Potassium	mg/L	126	0	394		0														
Selenium	mg/L	114	0	0.05		0			0.05	0	0	0.05	0	0						
Silver	mg/L	115	0	0.01		0			0.012	0	0	0.036	0	0						
Sodium	mg/L	126	0	161		0														
Thallium	mg/L	115	0	0.0062		0			0.063	0	0	0.005	45	2						
Vanadium	mg/L	121	0	0.207		0						0.05	3	3						
Zinc	mg/L	118	0	1.19		0			0.123	6	3	5	0	0						

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)													
Acetone	700		2.2 B	2 U	2 U	2 U	2.5 B	4.6 B	2 U				
Acrylonitrile	0.5	20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	22 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene													
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
t-Butyl alcohol													
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	2.8	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.8	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane													
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7 a	0.5 U	0.5 U	0.6	1	0.5 U
1,2-Dichloroethene (Total)													
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.1 a	7.5 a	0.5 U
Dichlorofluoromethane													
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 a	3.5	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)													
1,4-Dioxane	20												
Ethyl ether													
Ethyl tert-butyl ether													
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane													
4-Methyl-2-pentanone (MIBK)	350		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Methylene chloride	5	48000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.7	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	2 U	2 U	2 U	2 U	2 U	0.9 B	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether													

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	23 a	31 a	0.5 U
Tetrahydrofuran	5		2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U				
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	1.5	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	1.2	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	30 a	34 a	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.6 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			27	5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5
Lower Depth (ftbg)			29	7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5
Date Sampled			10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)													
Acetone	700												
Acrylonitrile	0.5	20											
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene													
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000											
t-Butyl alcohol													
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700												
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane													
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004												
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)													
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.6	2.8	0.8	0.5
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane													
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)													
1,4-Dioxane	20												
Ethyl ether													
Ethyl tert-butyl ether													
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
2-Hexanone													
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane													
4-Methyl-2-pentanone (MIBK)	350												
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.6	0.5 U	0.8
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether													

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			27	5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5
Lower Depth (ftbg)			29	7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5
Date Sampled			10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5												
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane													
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702								0.5 U	0.5 U	0.5 U	3.3

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7
Upper Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Lower Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Date Sampled			11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)												
Acetone	700											
Acrylonitrile	0.5	20										
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene												
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000										
t-Butyl alcohol												
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700											
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.8 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane												
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004											
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)												
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	12 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane												
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	1	10 a	0.5 U	0.5 U	3.7	0.5 U	1.8	2.3	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)												
1,4-Dioxane	20											
Ethyl ether												
Ethyl tert-butyl ether												
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone												
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane												
4-Methyl-2-pentanone (MIBK)	350											
Methylene chloride	5	48000	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether												

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7
Upper Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Lower Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Date Sampled			11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5											
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	73	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane												
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702	0.5 U									

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)							
Acetone	700				2 U	2 U	2 U
Acrylonitrile	0.5	20					
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene							
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000					
t-Butyl alcohol							
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700						
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane							
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004						
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)							
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane							
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		3.5	23 a	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)							
1,4-Dioxane	20						
Ethyl ether							
Ethyl tert-butyl ether							
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone							
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane							
4-Methyl-2-pentanone (MIBK)	350						
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether							

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5						
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	2	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.7	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane							
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702					

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water

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Summary of SVOCs

Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-9	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			4.5	7.5	13.5
Lower Depth (ftbg)			4.5	7.5	13.5
Date Sampled			11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK
SVOCs (µg/L)					
Acenaphthene	420	6.1			
Acenaphthylene	420	0.3			
Aniline	6				
Anthracene	2000	110000			
Benzo(a)anthracene	0.06	0.3			
Benzo(a)pyrene	0.2	0.3			
Benzo(b)fluoranthene	0.08	0.3			
Benzo(g,h,i)perylene	210	4.92			
Benzo(k)fluoranthene	0.5	0.3			
bis(2-Chloroethoxy)methane					
bis(2-Chloroethyl)ether	12	42			
bis(2-chloroisopropyl)ether	12	340000			
bis(2-Ethylhexyl)phthalate	2	59			
4-Bromophenyl phenyl ether	410				
Butyl benzyl phthalate	1000				
Carbazole	10				
4-Chloro-3-methylphenol					
4-Chloroaniline	28				
2-Chloronaphthalene	560				
2-Chlorophenol	36				
4-Chlorophenyl phenyl ether	410				
Chrysene	4.8	4.92			
Dibenzo(a,h)anthracene	0.2	0.01			
Dibenzofuran	28				
3,3'-Dichlorobenzidine	10				
2,4-Dichlorophenol	20	15800			
Diethyl phthalate	5600				
Dimethyl phthalate	5600				
2,4-Dimethylphenol	140				
Di-n-butyl phthalate	700	120000			
4,6-Dinitro-2-methylphenol					
2,4-Dinitrophenol	50				
2,4-Dinitrotoluene	14				
2,6-Dinitrotoluene	10				
Di-n-octyl phthalate	100				
Fluoranthene	280	3700			
Fluorene	280	140000			
Hexachlorobenzene	1	0.077			
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	49				
Hexachloroethane	3	89			

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
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Summa.. of SVOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-9	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			4.5	7.5	13.5
Lower Depth (ftbg)			4.5	7.5	13.5
Date Sampled			11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK
Indeno(1,2,3-cd)pyrene	0.2	0.49			
Isophorone	37				
2-Methylnaphthalene	49				
m,p-Methylphenol					
2-Methylphenol	350				
4-Methylphenol	35				
Naphthalene	280	24	0.5 U	1	0.5 U
2-Nitroaniline	50				
3-Nitroaniline	50				
4-Nitroaniline	21				
Nitrobenzene	10				
2-Nitrophenol	56				
4-Nitrophenol					
N-Nitroso-di-n-propylamine	10				
N-Nitrosodiphenylamine	10				
Pentachloronitrobenzene	0.13				
Pentachlorophenol	1				
Phenanthrene	200	0.3			
Phenol	4000	920000			
Pyrene	200	110000			
Pyridine	0.7				
1,2,4,5-Tetrachlorobenzene					
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	700				
2,4,6-Trichlorophenol	10				

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24	27
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26	29
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)														
Aluminum		121.4												
Antimony	0.006	86												
Arsenic	0.01	0.004												
Barium	1	4.54												
Beryllium	0.004	0.004												
Cadmium	0.005	0.006												
Chromium, total	0.1		0.014	0.011	0.005 U	0.005 U	0.007	0.005 U	0.005	0.016	0.068	0.159 a	0.011	0.034
Chromium, trivalent		1.2												
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.07	0.15 b	0.01 U	0.01 U
Cobalt	0.01													
Copper	1.3	0.048												
Iron														
Lead	0.015	0.013												
Magnesium														
Manganese														
Mercury	0.002	0.0004												
Nickel	0.1	0.88												
Selenium	0.05	0.05												
Silver	0.036	0.012												
Thallium	0.005	0.063												
Vanadium	0.05													
Zinc	5	0.123												

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C
Station	a	b	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9	MIL-GW-9	NT-MIL-GW-3
Upper Depth (ftbg)			5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5	13.5	5
Lower Depth (ftbg)			7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5	13.5	5
Date Sampled			10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)														
Aluminum		121.4												
Antimony	0.006	86												
Arsenic	0.01	0.004												
Barium	1	4.54												
Beryllium	0.004	0.004												
Cadmium	0.005	0.006												
Chromium, total	0.1		0.018	0.007	0.014	0.025	0.025	0.006	0.005 U	0.005 U	0.005 U	0.007	0.007	0.005 U
Chromium, trivalent		1.2												
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.01													
Copper	1.3	0.048												
Iron														
Lead	0.015	0.013												
Magnesium														
Manganese														
Mercury	0.002	0.0004												
Nickel	0.1	0.88												
Selenium	0.05	0.05												
Silver	0.036	0.012												
Thallium	0.005	0.063												
Vanadium	0.05													
Zinc	5	0.123												

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8
Upper Depth (ftbg)			10	6	9	12	6	9	11	6	9	11.5	7.5
Lower Depth (ftbg)			10	6	9	12	6	9	11	6	9	11.5	7.5
Date Sampled			10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)													
Aluminum		121.4											
Antimony	0.006	86											
Arsenic	0.01	0.004											
Barium	1	4.54											
Beryllium	0.004	0.004											
Cadmium	0.005	0.006											
Chromium, total	0.1		0.005 U	0.005 U	0.025	0.007	0.009	0.007	0.005 U	0.006	0.005 U	0.009	0.017
Chromium, trivalent		1.2											
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.01												
Copper	1.3	0.048											
Iron													
Lead	0.015	0.013											
Magnesium													
Manganese													
Mercury	0.002	0.0004											
Nickel	0.1	0.88											
Selenium	0.05	0.05											
Silver	0.036	0.012											
Thallium	0.005	0.063											
Vanadium	0.05												
Zinc	5	0.123											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9.5	11.5
Lower Depth (ftbg)			9.5	11.5
Date Sampled			10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK
Metals (mg/L)				
Aluminum		121.4		
Antimony	0.006	86		
Arsenic	0.01	0.004		
Barium	1	4.54		
Beryllium	0.004	0.004		
Cadmium	0.005	0.006		
Chromium, total	0.1		0.015	0.025
Chromium, trivalent		1.2		
Chromium, hexavalent		0.11	0.01 U	0.01 U
Cobalt	0.01			
Copper	1.3	0.048		
Iron				
Lead	0.015	0.013		
Magnesium				
Manganese				
Mercury	0.002	0.0004		
Nickel	0.1	0.88		
Selenium	0.05	0.05		
Silver	0.036	0.012		
Thallium	0.005	0.063		
Vanadium	0.05			
Zinc	5	0.123		

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3
Upper Depth (ftbg)			3.5	6.8	12	16	20	24	27	5	7	12.5	18
Lower Depth (ftbg)			5.5	8.4	14	18	22	26	29	7	9	14.5	20
Date Sampled			9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)													
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.044	0.107 a	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5
Upper Depth (ftbg)			9	12.5	5.5	15.5	4.5	7.5	13.5	5	10	6	9
Lower Depth (ftbg)			11	14.5	5.5	15.5	4.5	7.5	13.5	5	10	6	9
Date Sampled			10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)													
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2											

Detection limit basis: RL

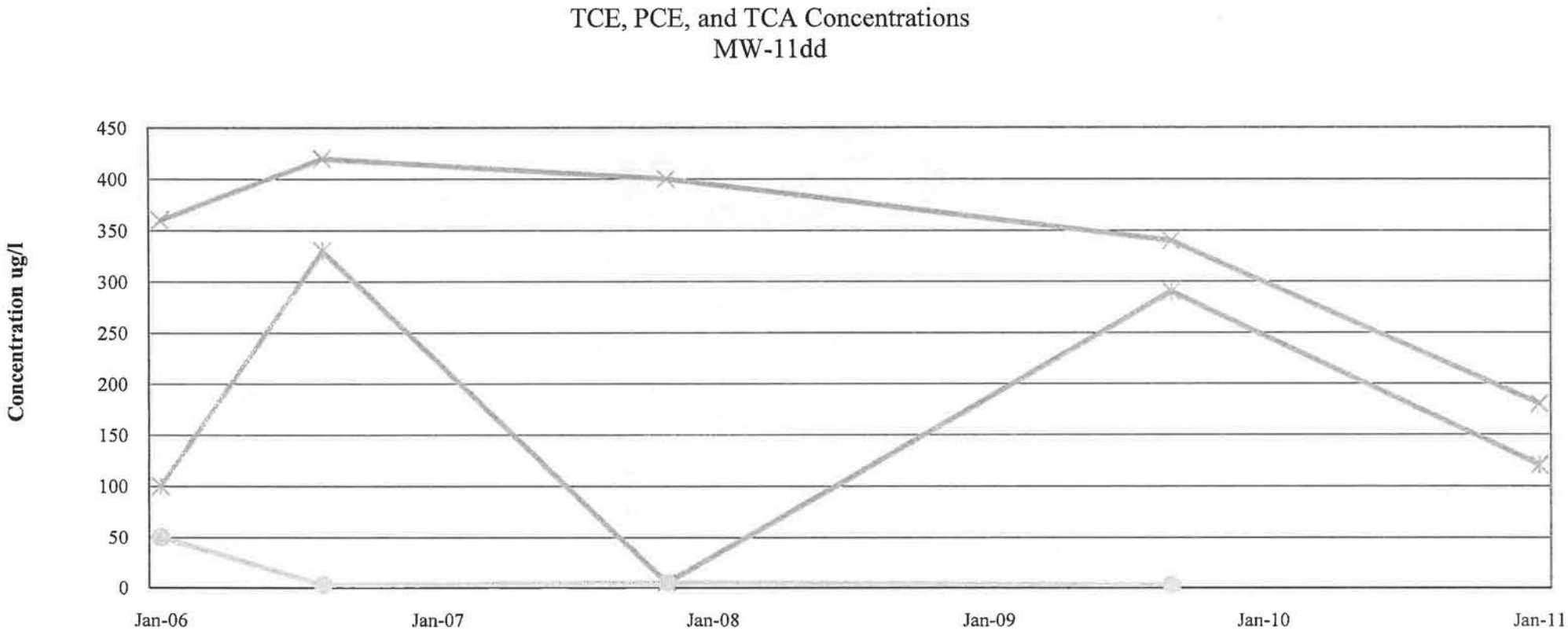
See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table C-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			12	6	9	11	6	9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			12	6	9	11	6	9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)												
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2										

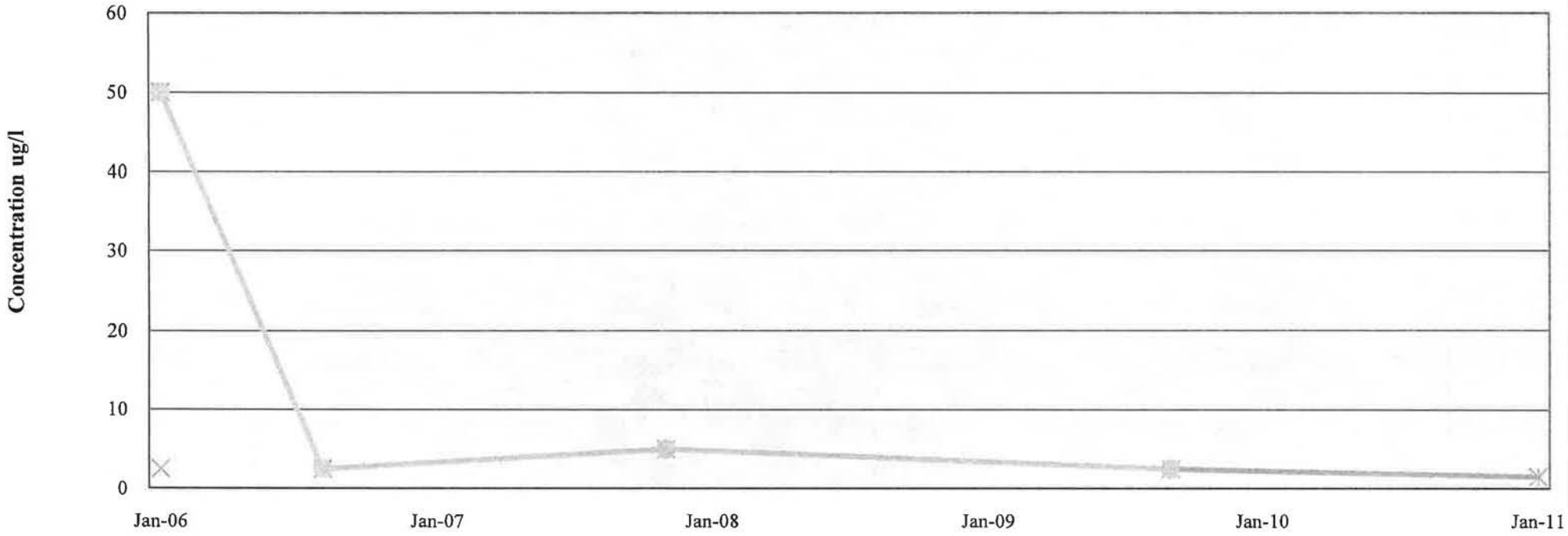
Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

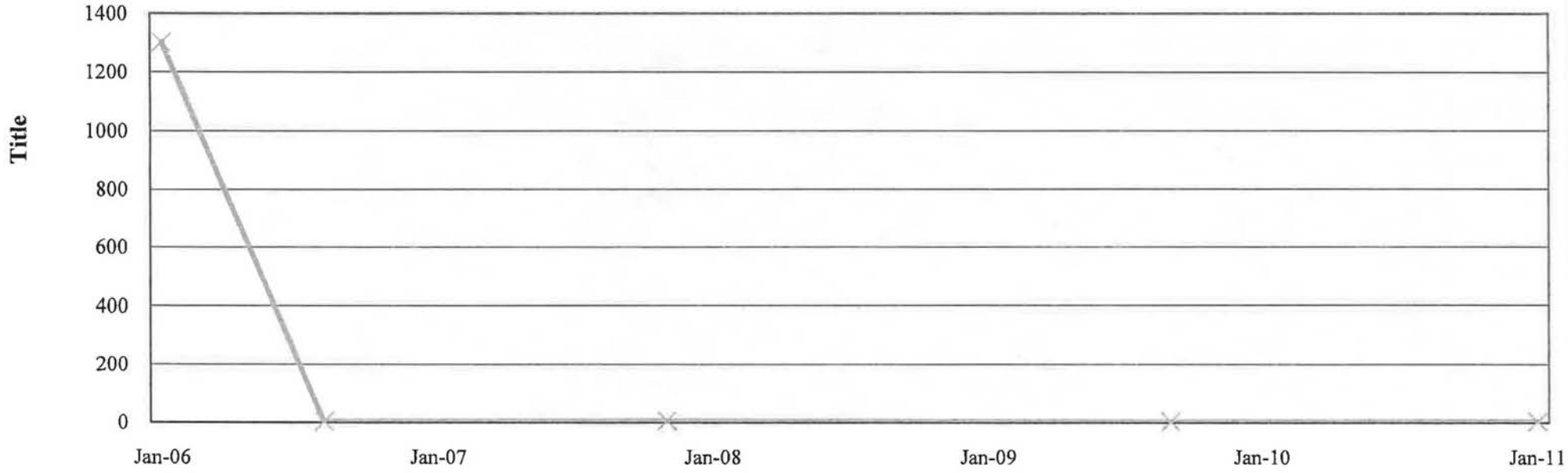


	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
TCE	360	420	400	180	340
PCE	100	330	5	120	290
TCA	50	2.5	5		2.5

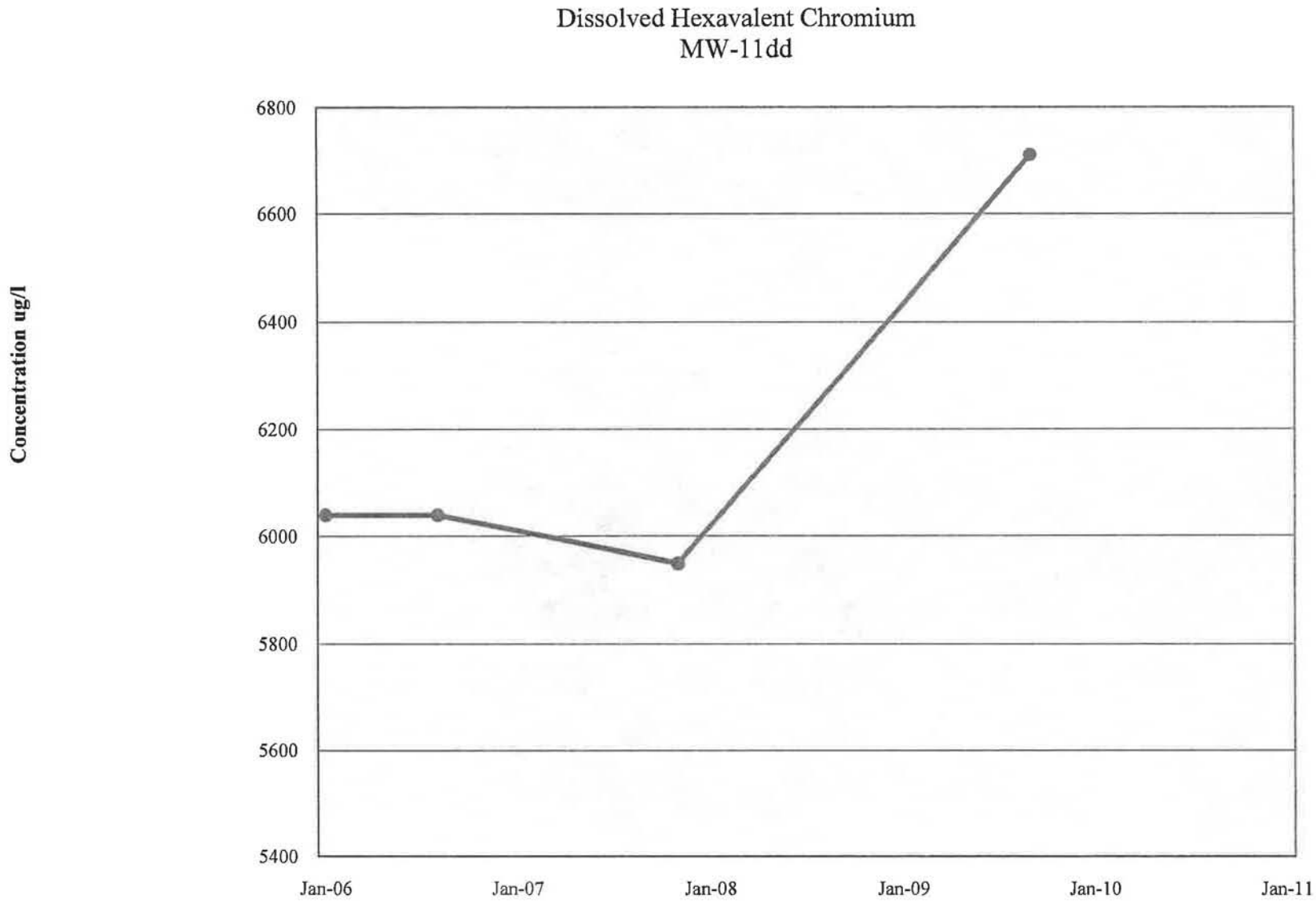
CIS 1,2-DCE, 1,1 DCE, and 1,1-DCA Concentrations
MW-11dd



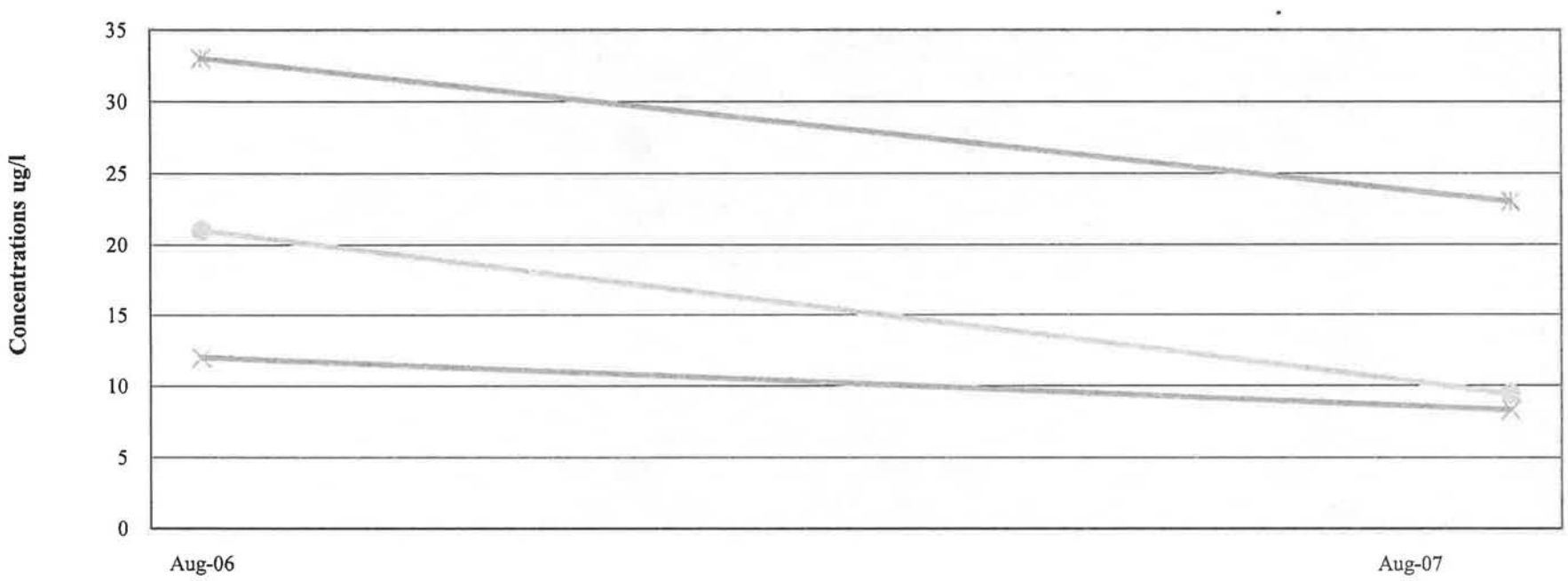
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
cis 1,2-DCE	2.5				
1,1-DCE	50	2.5	5	1.5	2.5
1,1-DCA	50	2.5	5		2.5



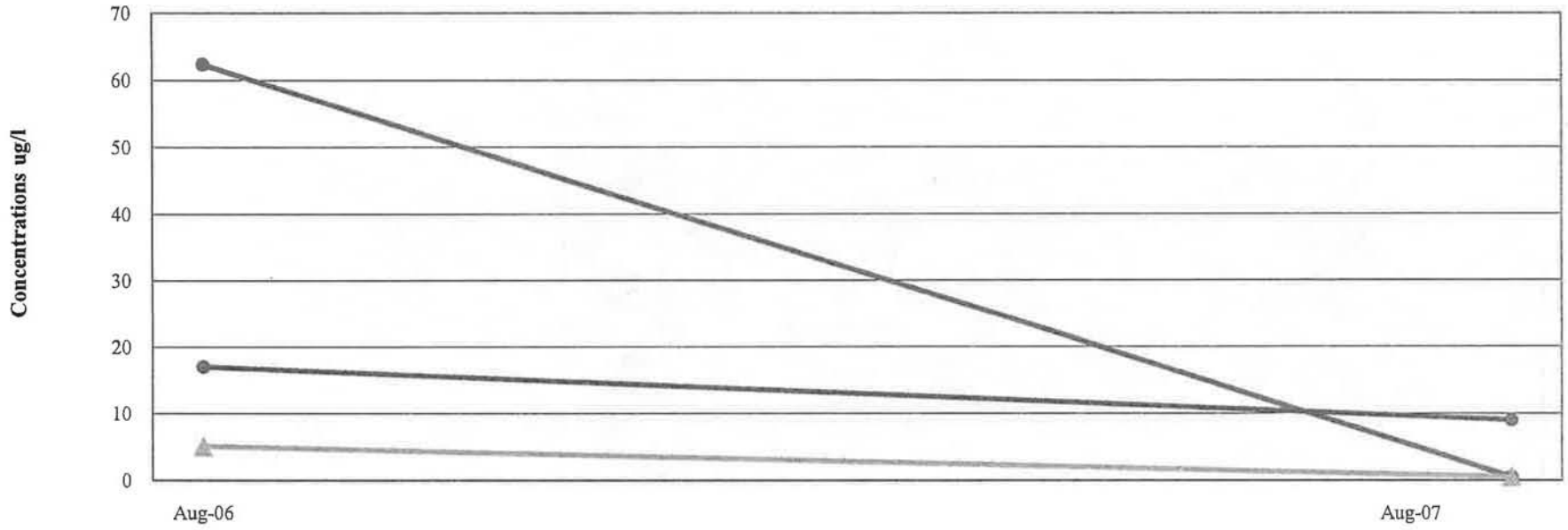
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
Methylene Chloride	1300	2.5	5	3.4	2.5



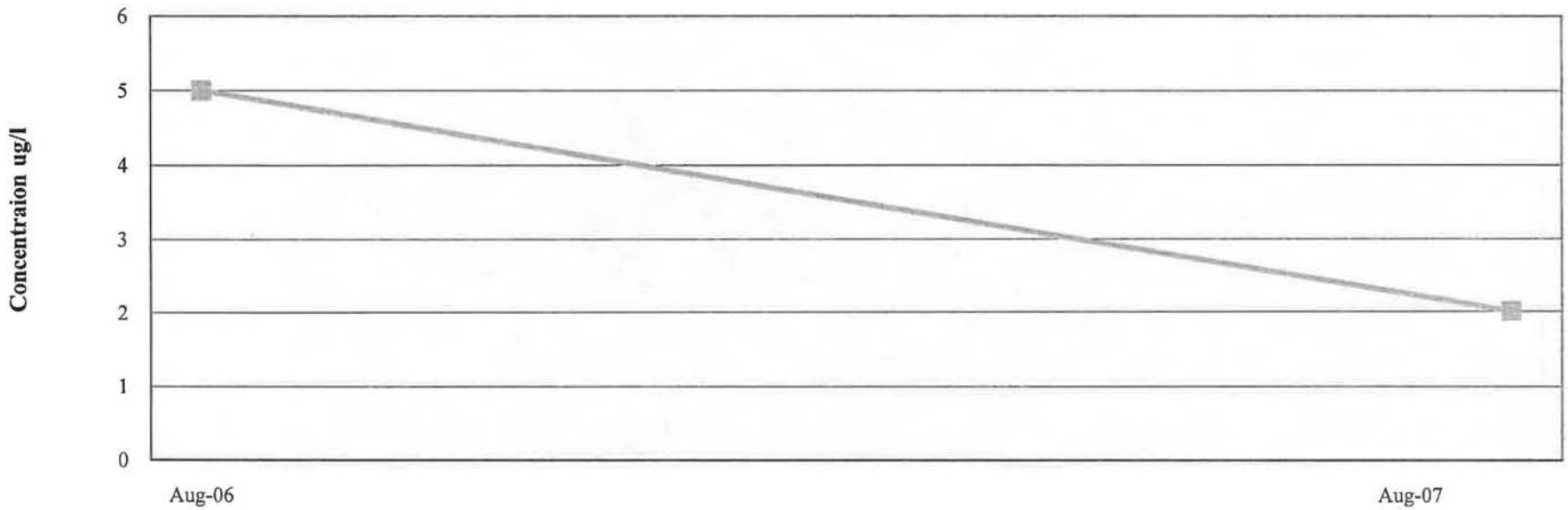
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
Dissolved Hexavalent Chromium	6040	6040	5950		6710



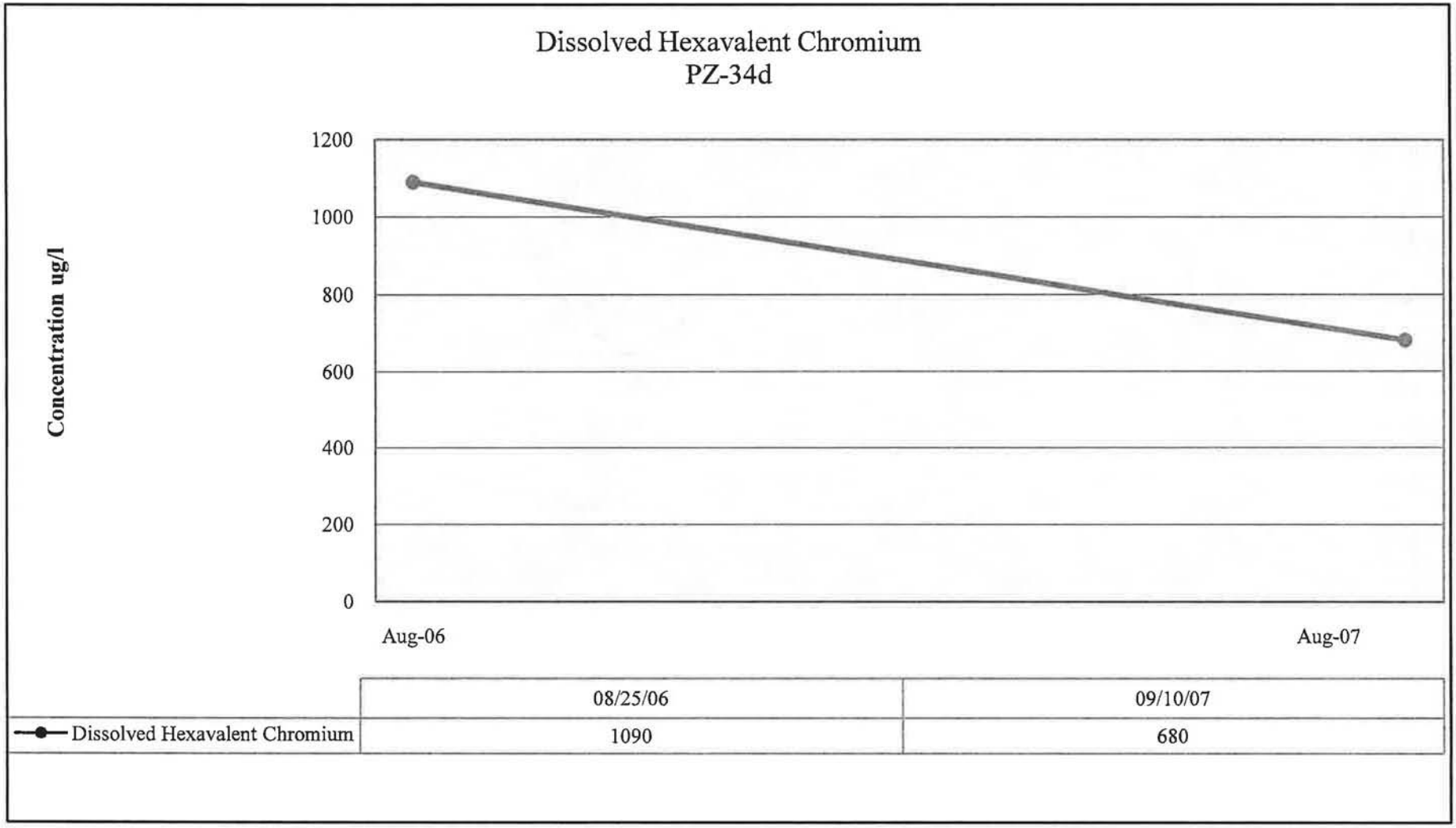
	08/25/06	09/10/07
TCE	12	8.3
PCE	33	23
TCA	21	9.4



	08/25/06	09/10/07
cis 1,2-DCE	62.3	0.5
1,1-DCE	17	9
1,1-DCA	5	0.5



	08/25/06	09/10/07
Methylene Chloride	5	2


Dissolved Hexavalent Chromium
PZ-34d
Concentration ug/l
1200
1000
800
600
400
200
0
Aug-06
Aug-07
08/25/06
09/10/07
Dissolved Hexavalent Chromium
1090
680

Appendix D
G-3 Plume

The G-3 data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table D-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figures 5 and 6 provide a geologic cross section and geochemical information along the center line of the G-3. The compounds of tetrachloroethene and hexavalent chromium are provided on the G-3 cross sections. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table D-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-3 plume discharge.

Question 5

Table D-3 provides the results of the sediment analytical analysis within the discharge of the G-3 plume. Table D-4 provides the results of the surface water analytical data within the discharge of the G-3 plume.

Question 6

This question was skipped per question 5 yes response

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions.

TABLE D-1
GROUNDWATER PLUME G-3 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	191	13	130	25	0	0.5	25				1	43	0	12	1	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	254	13	130	25	0	0.5	25	62000	0	0	200	0	0	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	247	13	130	25	0	0.5	25	110	1	0	0.5	142	1	23	1	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	247	13	4800	25	0	0.5	25	1260	1	1	5	16	4	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	12	3	10	0.5	0	0.5	0.5												
1,1-Dichloroethane	ug/L	255	13	130	25	0	0.5	25	2538	0	0	70	1	0	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	254	13	130	25	1	0.5	25	96	1	0	7	30	17	1	2	0	6	1	0
1,1-Dichloropropene	ug/L	191	13	130	25	0	0.5	25												
1,2,3-Trichlorobenzene	ug/L	191	13	130	25	0	0.5	25												
1,2,3-Trichloropropane	ug/L	191	13	130	25	0	0.5	25												
1,2,3-Trimethylbenzene	ug/L	132	9	130	25	0	0.5	25												
1,2,4-Trichlorobenzene	ug/L	191	13	130	25	0	0.5	25				70	1	0						
1,2,4-Trimethylbenzene	ug/L	191	13	130	59	1	0.5	25	710	0	0	350	0	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	191	13	130	25	0	0.5	25												
1,2-Dibromoethane (EDB)	ug/L	204	13	130	25	0	0.5	25				0.05	204	0	4	2	0	16	1	0
1,2-Dichlorobenzene	ug/L	191	13	130	25	0	0.5	25	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	254	13	130	25	0	0.5	25	2970	0	0	1	62	18	21	1	0	90	0	0
1,2-Dichloroethane-d4	ug/L	4	0	8.91		0														
1,2-Dichloroethene (Total)	ug/L	198	3	130	5	0	1	5												
1,2-Dichloropropane	ug/L	247	13	130	25	1	0.5	25				5	14	2	14	1	0	60	0	0
1,3,5-Trimethylbenzene	ug/L	191	13	130	25	0	0.5	25	710	0	0	350	0	0						
1,3-Dichlorobenzene	ug/L	191	13	130	25	0	0.5	25	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	191	13	130	25	0	0.5	25												
1,4-Dichlorobenzene	ug/L	191	13	130	25	0	0.5	25	26000	0	0	75	1	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	12	3	2.5	0.5	0	0.5	0.5				0.004	12	0						
1,4-Dioxane	ug/L	4	0	25		0						20	4	0						
1-Chlorohexane	ug/L	67	2	25	1	0	1	1												
2,2-Dichloropropane	ug/L	191	13	130	25	0	0.5	25												
2-Butanone (MEK)	ug/L	93	3	20	0.5	0	0.5	0.5	756000	0	0	400	0	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	191	13	130	25	0	0.5	25												
2-Hexanone	ug/L	106	3	10	0.5	0	0.5	0.5												
4-Bromofluorobenzene	ug/L	4	0	10.1		0														
4-Chlorotoluene	ug/L	191	13	130	25	0	0.5	25												
4-Methyl-2-pentanone (MIBK)	ug/L	106	3	10	0.5	0	0.5	0.5				350	0	0	50000	0	0	50000	0	0
Acetone	ug/L	100	10	22	22	6	2	2				700	0	0	50000	0	0	50000	0	0
Acrylonitrile	ug/L	12	3	2.5	0.5	0	0.5	0.5	20	0	0	0.5	2	0						
Benzene	ug/L	247	13	130	25	0	0.5	25	710	0	0	1	48	5	215	0	0	530	0	0
Bromobenzene	ug/L	191	13	130	25	0	0.5	25												
Bromodichloromethane	ug/L	247	13	130	25	0	0.5	25				0.56	118	4						
Bromoform	ug/L	247	13	130	25	0	0.5	25	10800	0	0	4	40	0	920	0	0	3800	0	0
Bromomethane	ug/L	247	13	130	25	0	0.5	25				9.8	12	0						
Carbon disulfide	ug/L	106	3	7.3	0.5	0	0.5	0.5				700	0	0						
Carbon tetrachloride	ug/L	247	13	130	25	0	0.5	25	132	0	0	5	12	0	16	1	0	40	0	0
Chlorobenzene	ug/L	247	13	130	25	0	0.5	25	420000	0	0	100	1	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	200	13	130	25	0	0.5	25												
Chloroethane	ug/L	247	13	130	25	0	0.5	25				2538	0	0						
Chloroform	ug/L	247	13	130	25	2	0.5	25	14100	0	0	6	19	6	287	0	0	710	0	0
Chloromethane	ug/L	247	13	130	25	1	0.5	25				2.7	42	2						
cis-1,2-Dichloroethene	ug/L	135	10	50	25	0	0.5	25	31860	0	0	70	0	0						
cis-1,3-Dichloropropene	ug/L	247	13	130	25	0	0.5	25												
Dibromochloromethane	ug/L	247	13	130	25	0	0.5	25	1020	0	0	0.5	116	1						
Dibromomethane	ug/L	191	13	130	25	0	0.5	25												

TABLE D-1
GROUNDWATER PLUME G-3 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Dichlorodifluoromethane	ug/L	191	13	130	25	0	0.5	25												
Ethylbenzene	ug/L	247	13	130	55	1	0.5	25	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	191	13	130	25	0	0.5	25				0.45	191	0						
Isopropylbenzene	ug/L	191	13	130	25	0	0.5	25				30	2	0						
m+p-Xylenes	ug/L	238	10	210	210	1	0.5	25	702	0	0	530	0	0	21300	0	0	50000	0	0
Methane	ug/L	16	0	10		0														
Methyl methacrylate	ug/L	8	3	0.5	0.5	0	0.5	0.5												
Methylene chloride	ug/L	255	13	497	25	0	0.5	25	48000	0	0	5	38	23	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	186	13	130	25	1	0.5	25	710	0	0	70	1	0	50000	0	0	50000	0	0
Naphthalene	ug/L	191	13	130	25	0	0.5	25	24	7	0	280	0	0						
n-Butylbenzene	ug/L	191	13	130	25	0	0.5	25	710	0	0	61	1	0						
n-Propylbenzene	ug/L	191	13	130	25	0	0.5	25				61	1	0						
o-Xylene	ug/L	247	13	130	77	1	0.5	25	702	0	0	530	0	0	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	191	13	130	25	0	0.5	25				30	2	0						
sec-Butylbenzene	ug/L	191	13	130	25	0	0.5	25	710	0	0	61	1	0						
Styrene	ug/L	247	13	130	25	0	0.5	25				100	1	0	580	0	0	2065	0	0
tert-Butylbenzene	ug/L	191	13	130	25	0	0.5	25	710	0	0	61	1	0						
Tetrachloroethene (PCE)	ug/L	254	13	1000	25	3	0.5	25	88	20	19	5	61	52	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	37	3	10	0.5	0	0.5	0.5				5	1	0						
Toluene	ug/L	247	13	270	270	1	0.5	25	400000	0	0	1000	0	0	23500	0	0	50000	0	0
Toluene-d8	ug/L	4	0	10.4		0														
Total cVOC	ug/L	76	0	3278.6		0														
trans-1,2-Dichloroethene	ug/L	131	10	50	25	0	0.5	25				100	0	0						
trans-1,3-Dichloropropene	ug/L	247	13	130	25	0	0.5	25												
Trichloroethene (TCE)	ug/L	254	13	6700	1600	7	0.5	25	2340	9	9	5	104	101	219	1	1	540	1	1
Trichlorofluoromethane	ug/L	191	13	130	25	0	0.5	25				1300	0	0						
Vinyl acetate	ug/L	35	0	1		0						410	0	0						
Vinyl chloride	ug/L	254	13	130	25	0	0.5	25	15750	0	0	2	46	0	2	2	0	2	2	0
Xylenes (Total)	ug/L	14	3	4	0.5	0	0.5	0.5	702	0	0	530	0	0	21300	0	0	50000	0	0
ETPH	mg/L	58	0	0.6		0						0.1	35	14						
TPH	mg/L	7	0	0.45		0						0.5	0	0						
Chromium, hexavalent (dissolved)	mg/L	156	13	37.9	0.1	3	0.01	0.01	0.11	57	54									
Chromium, total (dissolved)	mg/L	92	13	3.69	0.046	3	0.005	0.005				0.1	21	21						
Chromium, trivalent (dissolved)	mg/L	62	0	1.41		0			1.2	1	1									
Iron (dissolved)	mg/L	6	0	0.091		0														
Magnesium (dissolved)	mg/L	6	0	475		0														
Manganese (dissolved)	mg/L	4	0	15.1		0														
Aluminum	mg/L	84	0	423		0			121.4	5	5									
Antimony	mg/L	79	0	1.21		0			86	0	0	0.006	18	11						
Arsenic	mg/L	79	0	0.1		0			0.004	70	14	0.01	40	6						
Barium	mg/L	78	0	6.53		0			4.54	1	1	1	6	6						
Beryllium	mg/L	79	0	0.0191		0			0.004	4	4	0.004	4	4						
Cadmium	mg/L	77	0	0.0326		0			0.006	5	5	0.005	6	6						
Calcium	mg/L	90	0	1140		0														
Chromium, hexavalent	mg/L	247	13	38.2	0.2	3	0.01	0.2	0.11	86	81									
Chromium, total	mg/L	196	13	15.4	0.08	8	0.005	0.005				0.1	94	94						
Chromium, trivalent	mg/L	60	0	1.98		0			1.2	1	1									
Cobalt	mg/L	80	0	0.445		0						0.01	47	13						
Copper	mg/L	81	0	1.58		0			0.048	14	14	1.3	1	1						
Iron	mg/L	113	0	707		0														
Lead	mg/L	82	0	0.485		0			0.013	12	12	0.015	12	12						
Magnesium	mg/L	109	0	489		0														

TABLE D-1
GROUNDWATER PLUME G-3 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Manganese	mg/L	115	0	20		0														
Mercury	mg/L	77	0	0.00649		0			0.0004	37	3	0.002	1	1						
Nickel	mg/L	85	0	1.38		0			0.88	3	3	0.1	12	12						
Potassium	mg/L	88	0	331		0														
Selenium	mg/L	78	0	0.05		0			0.05	0	0	0.05	0	0						
Silver	mg/L	77	0	0.0285		0			0.012	2	2	0.036	0	0						
Sodium	mg/L	88	0	142		0														
Thallium	mg/L	78	0	0.0131		0			0.063	0	0	0.005	31	6						
Vanadium	mg/L	82	0	0.836		0						0.05	11	11						
Zinc	mg/L	81	0	2.61		0			0.123	15	13	5	0	0						

GW Wells Immediately Upgradient of Surface Water
Table D-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E
Station	a	b	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-4	ET-MIL-GW-4	ET-MIL-GW-5	ET-MIL-GW-5
Upper Depth (ftbg)			6	10	13	5	10	12	4.5	14	3.5	13.5
Lower Depth (ftbg)			8	12	15	7	12	14	4.5	15	3.5	13.5
Date Sampled			10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	11/23/2009	11/23/2009	11/23/2009	11/23/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)												
Acetone	700		3 B	9 B	2 U	2 U	2 U	3 B	2 U	2 U	2.2	2.1
Acrylonitrile	0.5	20							0.5 U	0.5 U	0.5 U	0.5 U
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene												
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000							0.5 U	0.5 U	0.5 U	0.5 U
t-Butyl alcohol												
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700								0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.6	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane												
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004								0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)												
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U
Dichlorofluoromethane												
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)												
1,4-Dioxane	20											
Ethyl ether												
Ethyl tert-butyl ether												
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone									0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane												
4-Methyl-2-pentanone (MIBK)	350								0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether												

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table D-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E
Station	a	b	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-4	ET-MIL-GW-4	ET-MIL-GW-5	ET-MIL-GW-5
Upper Depth (ftbg)			6	10	13	5	10	12	4.5	14	3.5	13.5
Lower Depth (ftbg)			8	12	15	7	12	14	4.5	15	3.5	13.5
Date Sampled			10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	11/23/2009	11/23/2009	11/23/2009	11/23/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	3.3	2.1	5.7 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5								0.5 U	0.5 U	0.5 U	0.5 U
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	1.6	59 a	41 a	11 a	0.5 U	0.5 U	0.5 U	0.5 U	1.2	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane									0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702							0.5 U	0.5 U	0.5 U	0.5 U

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table D-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E
Station	a	b	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-4	ET-MIL-GW-4	ET-MIL-GW-5	ET-MIL-GW-5
Upper Depth (ftbg)			6	10	13	5	10	12	4.5	14	3.5	13.5
Lower Depth (ftbg)			8	12	15	7	12	14	4.5	15	3.5	13.5
Date Sampled			10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	11/23/2009	11/23/2009	11/23/2009	11/23/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)												
Aluminum		121.4										
Antimony	0.006	86										
Arsenic	0.01	0.004										
Barium	1	4.54										
Beryllium	0.004	0.004										
Cadmium	0.005	0.006										
Chromium, total	0.1		0.014	0.027	0.041	0.059	0.034	0.019	0.007	0.042	0.005 U	0.037
Chromium, trivalent		1.2										
Chromium, hexavalent		0.11	0.01 U	0.04	0.01 U	0.07	0.01 U	0.01 U	0.01 U	0.2 U	0.01 U	0.2 U
Cobalt	0.01											
Copper	1.3	0.048										
Iron												
Lead	0.015	0.013										
Magnesium												
Manganese												
Mercury	0.002	0.0004										
Nickel	0.1	0.88										
Selenium	0.05	0.05										
Silver	0.036	0.012										
Thallium	0.005	0.063										
Vanadium	0.05											
Zinc	5	0.123										

Detection limit basis: RL

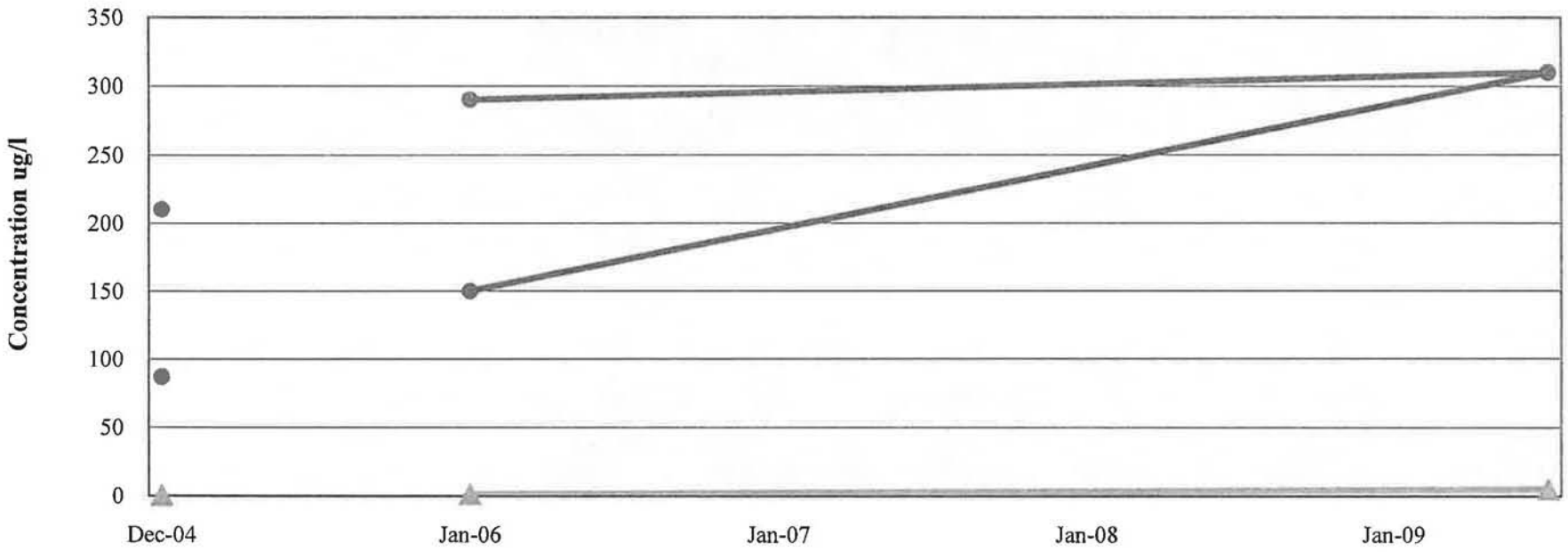
See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table D-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

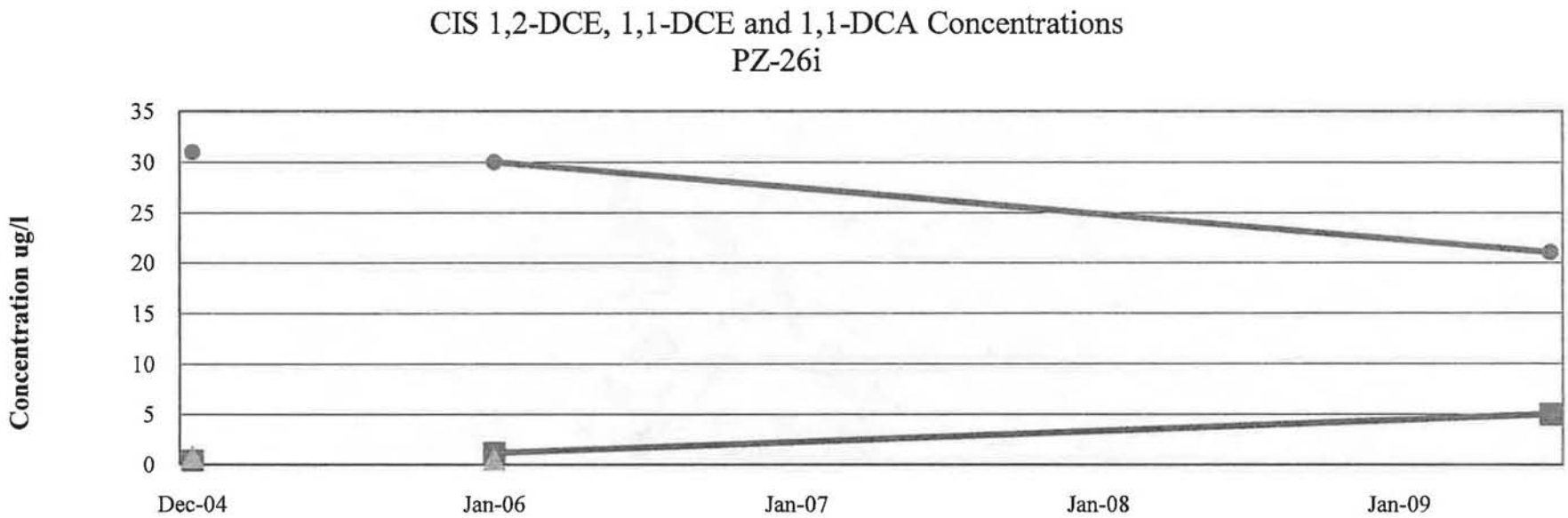
Survey Area	GWPC	SWPC	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E	MILL TRIB E
Station	a	b	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-2	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-3	ET-MIL-GW-4	ET-MIL-GW-4	ET-MIL-GW-5
Upper Depth (ftbg)			6	10	13	5	10	12	4.5	14	3.5
Lower Depth (ftbg)			8	12	15	7	12	14	4.5	15	3.5
Date Sampled			10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	10/14/2009	11/23/2009	11/23/2009	11/23/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)											
Chromium, total	0.1		0.005 U	0.014	0.005 U	0.016	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2									

Detection limit basis: RL

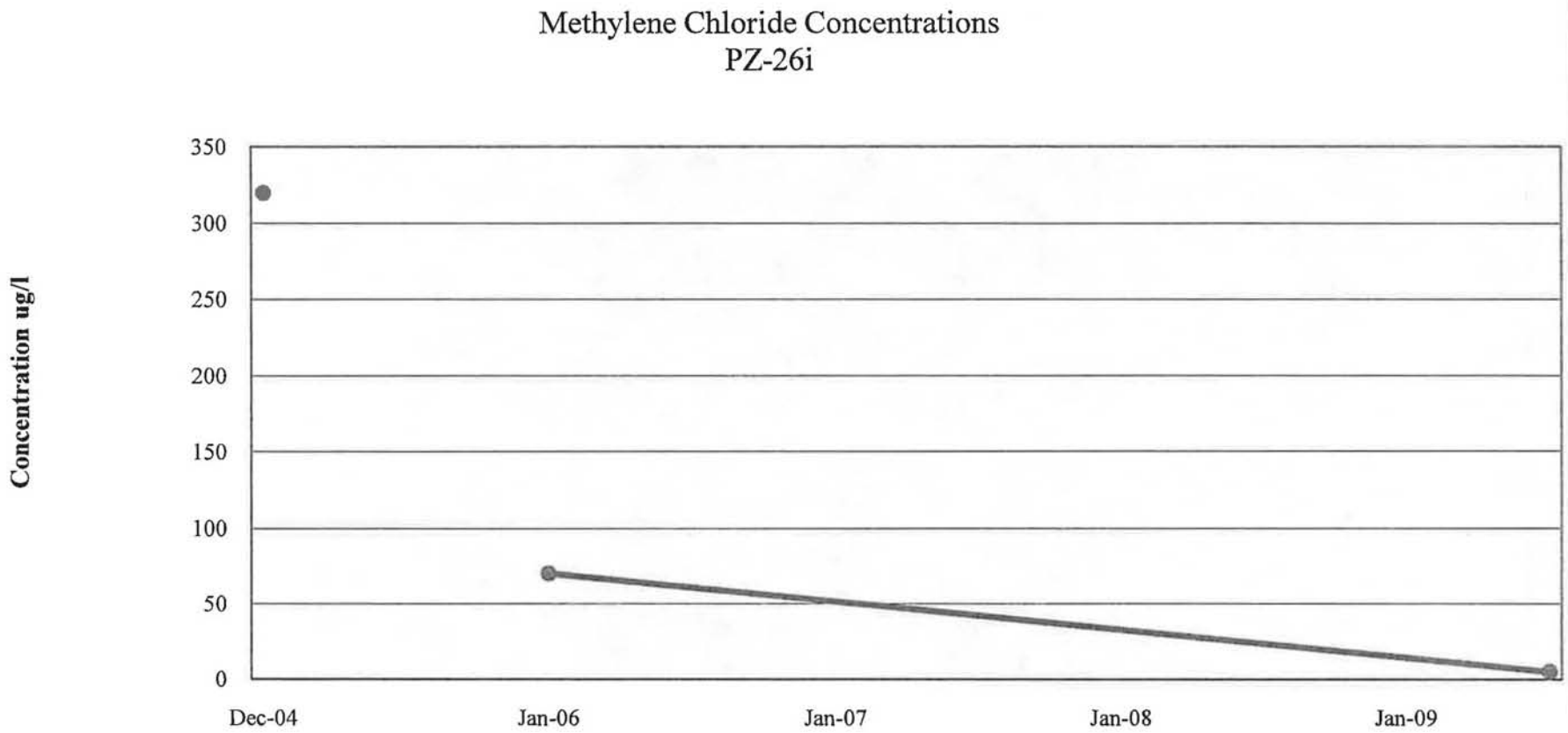
See Attached Notes. Blank results indicate chemical not analyzed.



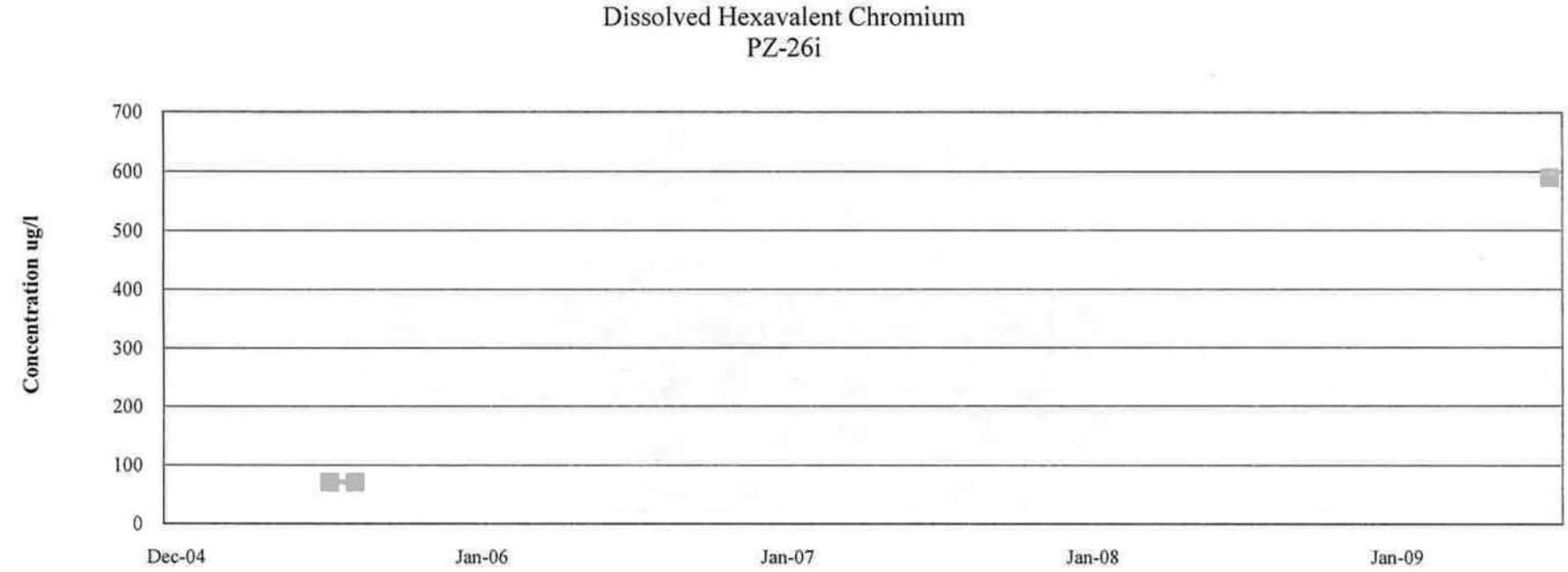
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
TCE	210			290	310
PCE	87			150	310
TCA	0.41			1.2	5



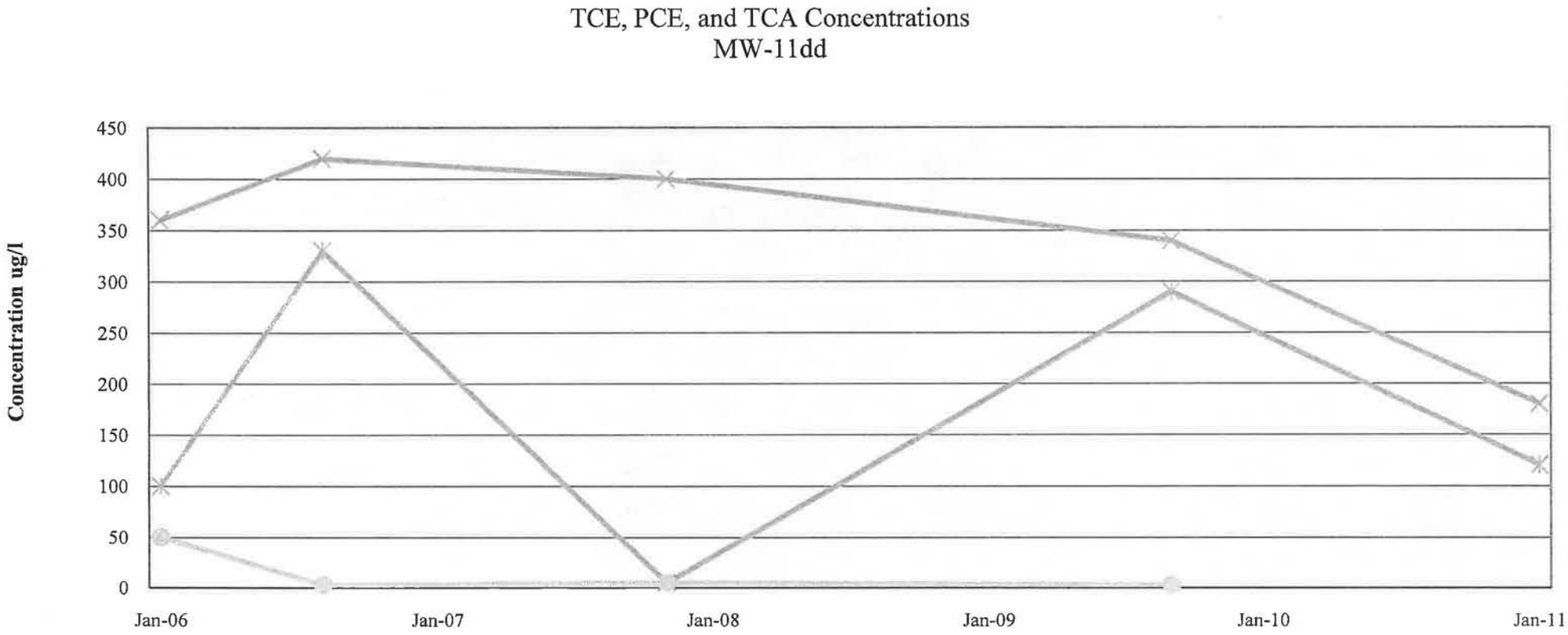
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
1,1-DCE	31			30	21
1,1-DCA	0.41			1.2	5
cis 1,2-DCE	0.77			0.5	



	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Methylene Chloride	320			70	5

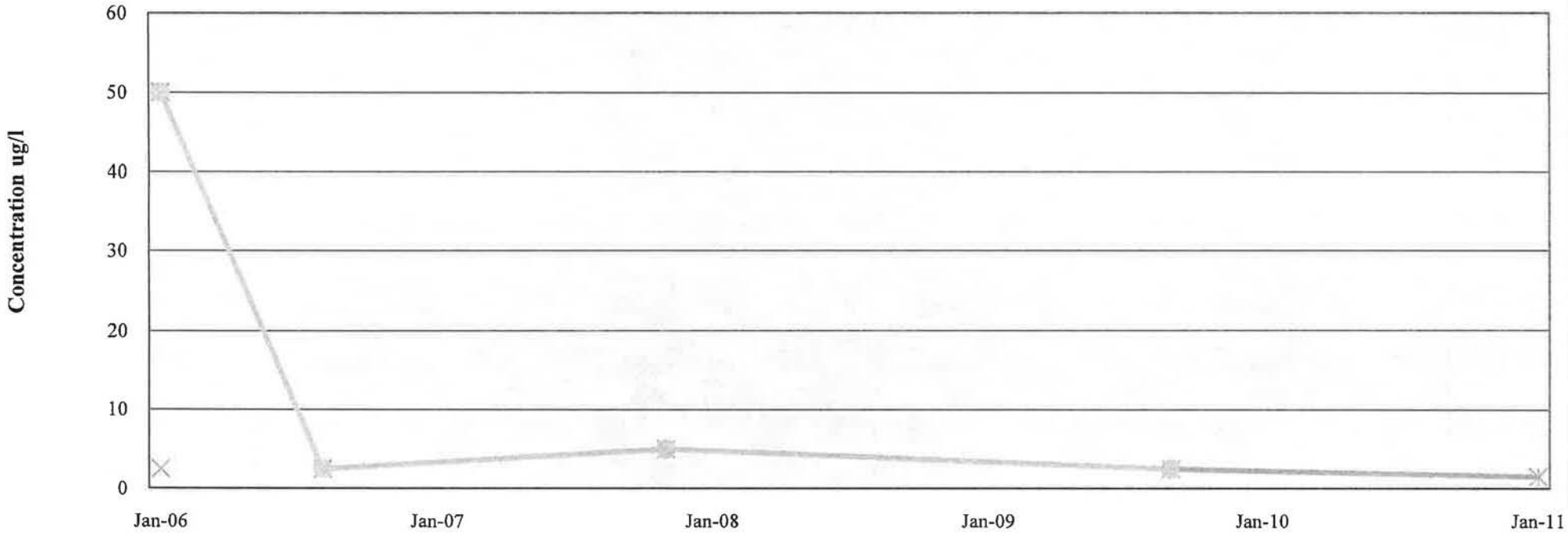


	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Dissolved Hexavalent Chromium		71	71		590

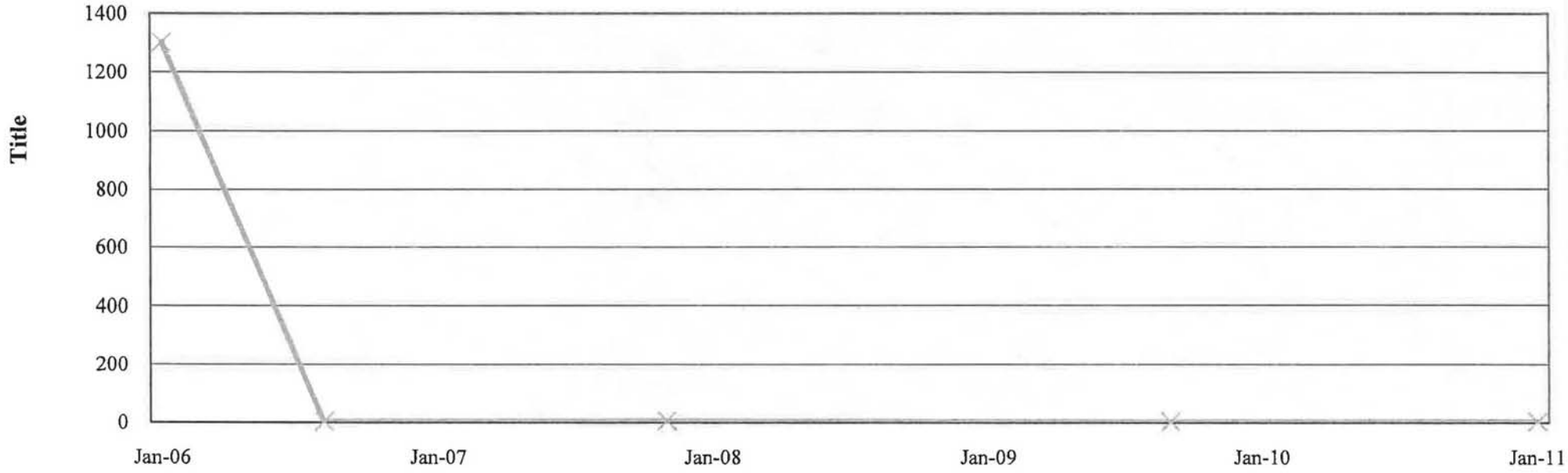


	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
TCE	360	420	400	180	340
PCE	100	330	5	120	290
TCA	50	2.5	5		2.5

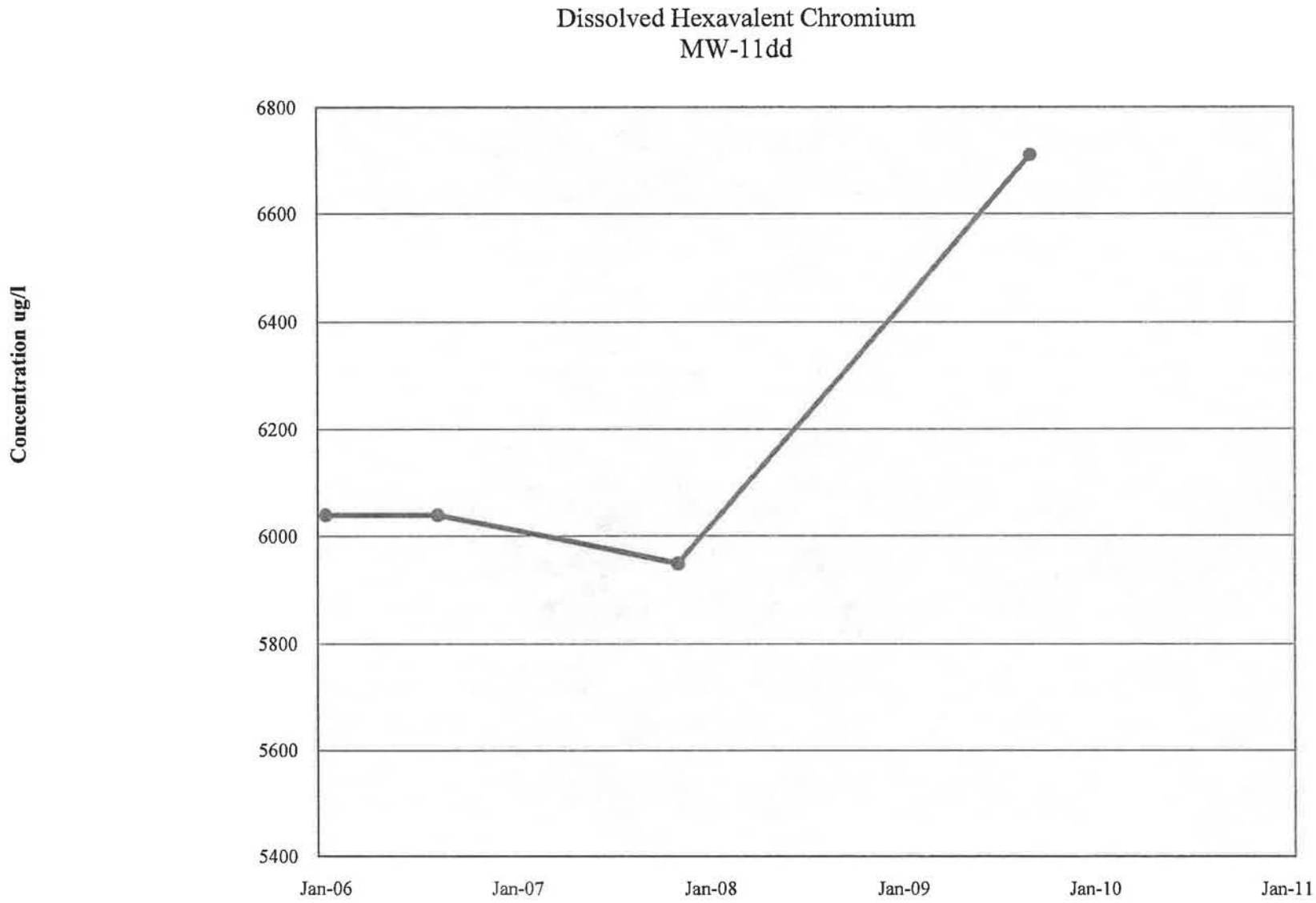
CIS 1,2-DCE, 1,1 DCE, and 1,1-DCA Concentrations
MW-11dd



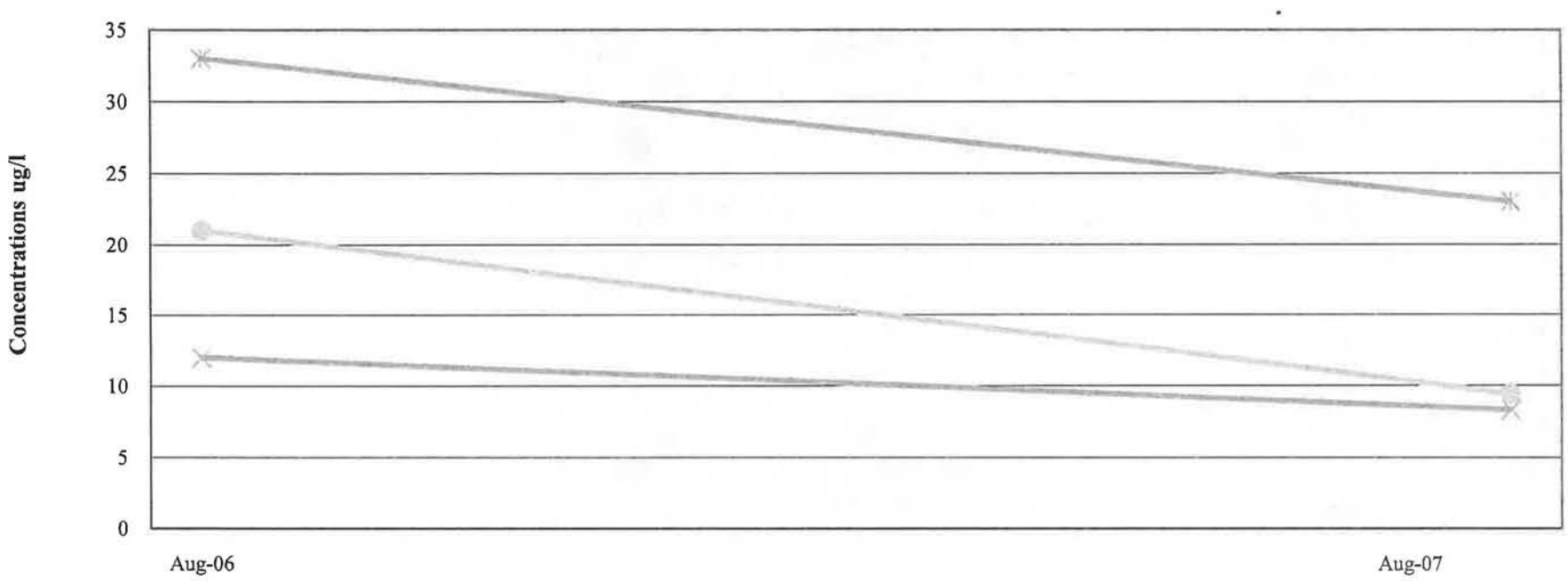
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
cis 1,2-DCE	2.5				
1,1-DCE	50	2.5	5	1.5	2.5
1,1-DCA	50	2.5	5		2.5



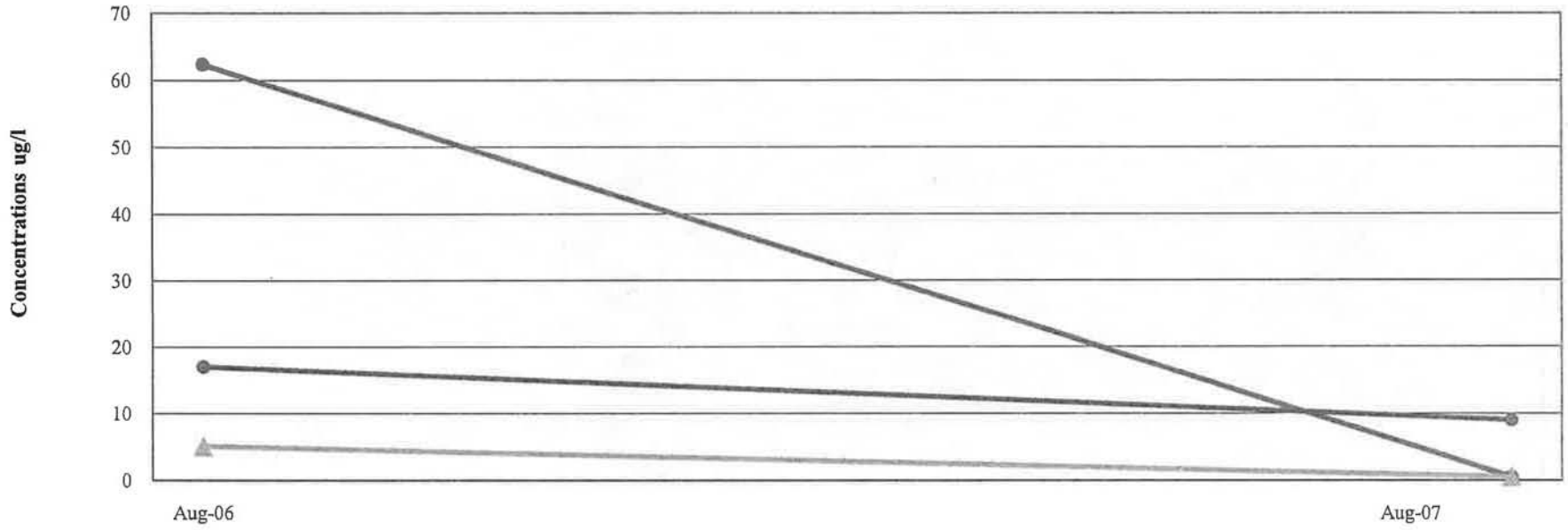
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
Methylene Chloride	1300	2.5	5	3.4	2.5



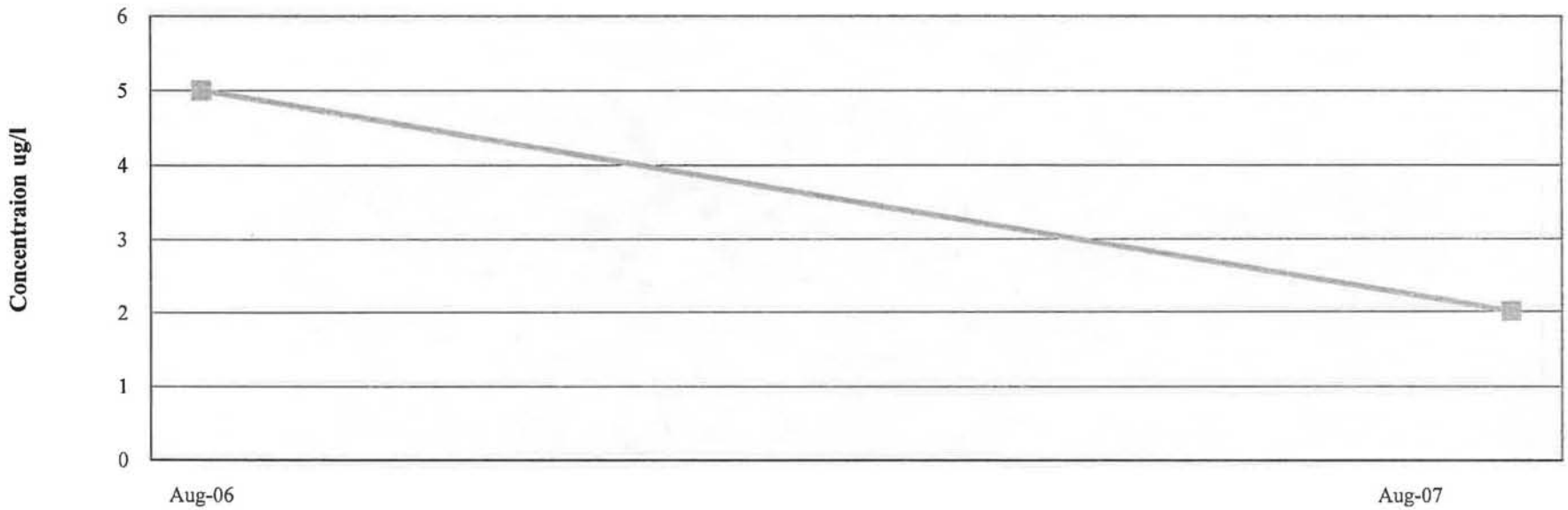
	01/25/06	08/28/06	11/07/07	09/10/09	01/05/11
Dissolved Hexavalent Chromium	6040	6040	5950		6710



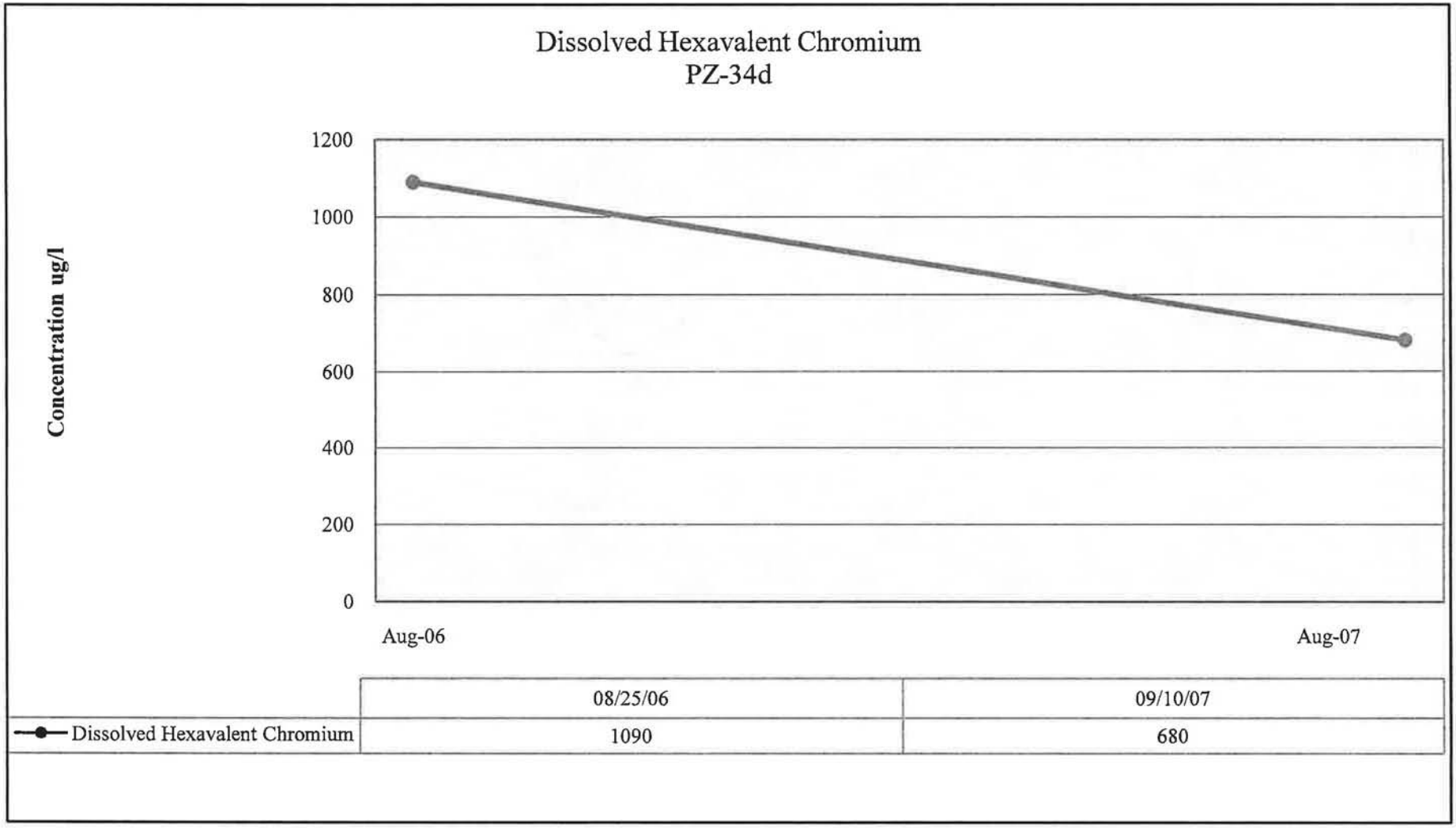
	08/25/06	09/10/07
TCE	12	8.3
PCE	33	23
TCA	21	9.4

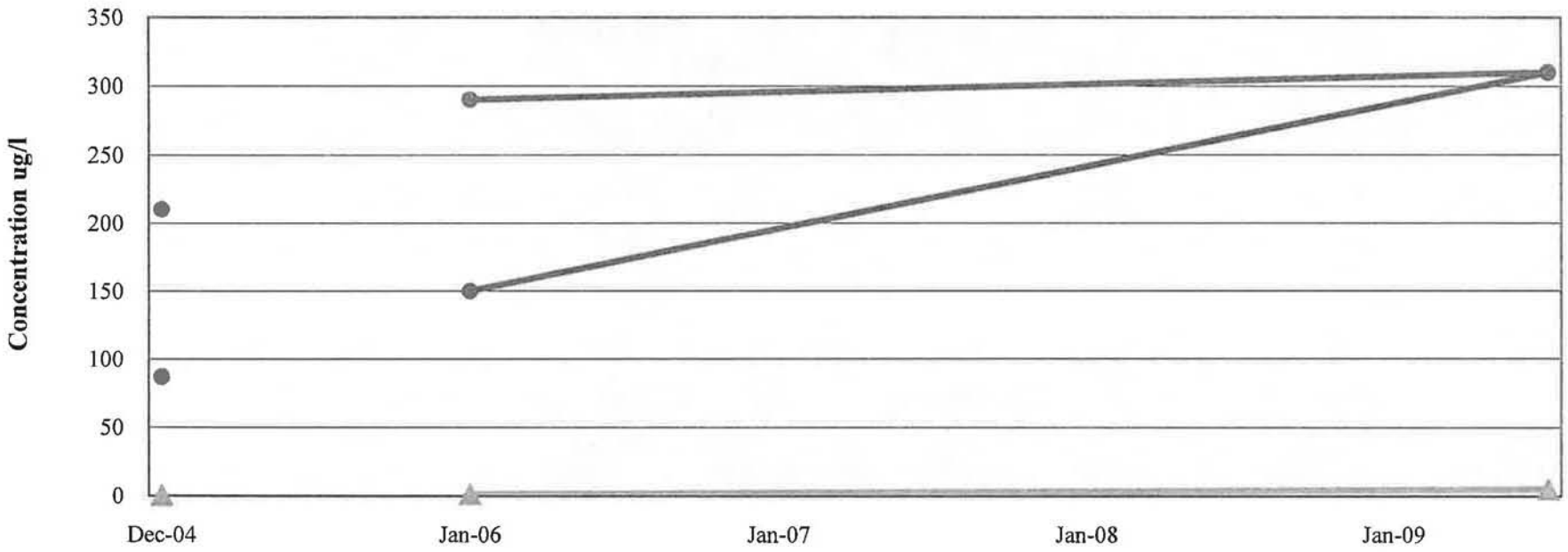


	08/25/06	09/10/07
cis 1,2-DCE	62.3	0.5
1,1-DCE	17	9
1,1-DCA	5	0.5

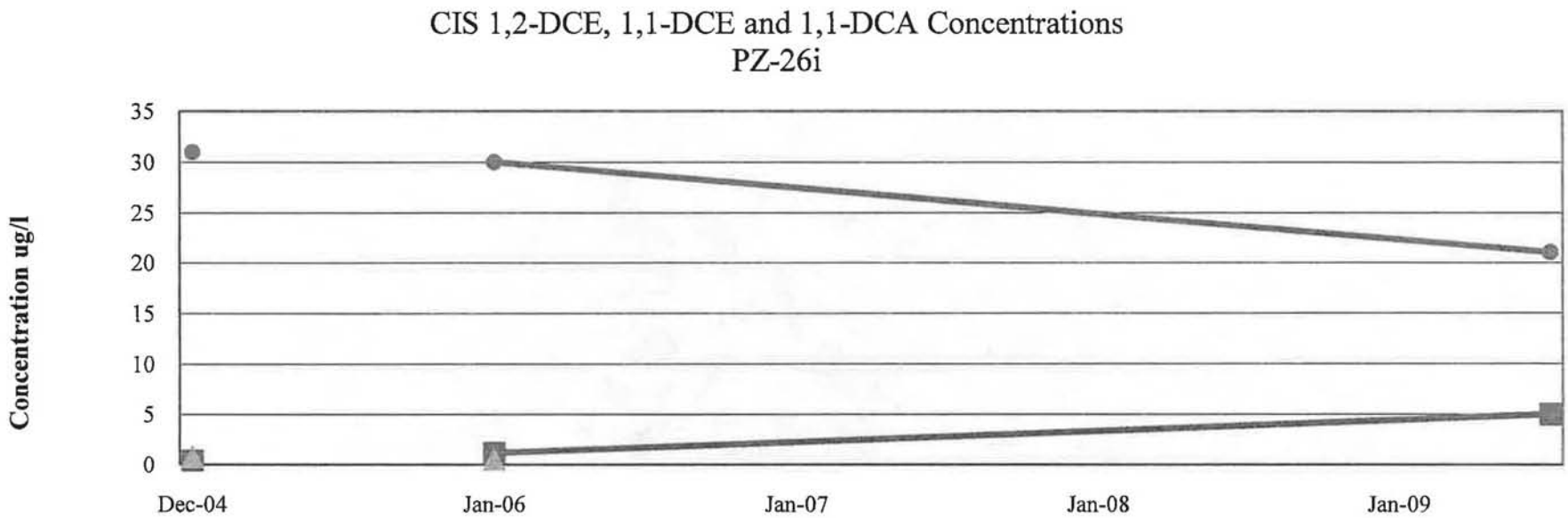


	08/25/06	09/10/07
Methylene Chloride	5	2

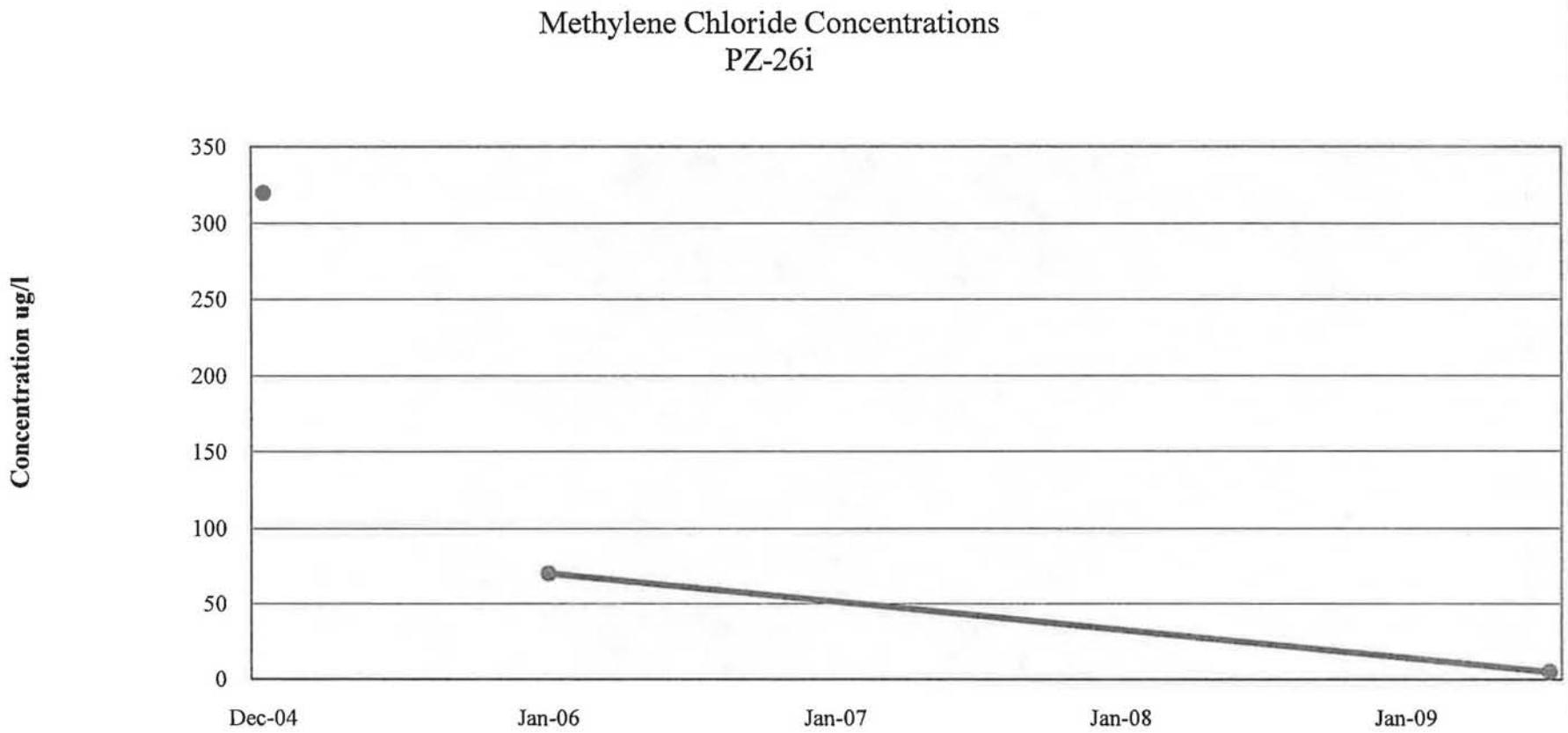

Dissolved Hexavalent Chromium
PZ-34d
Concentration ug/l
1200
1000
800
600
400
200
0
Aug-06
Aug-07
08/25/06
09/10/07
Dissolved Hexavalent Chromium
1090
680



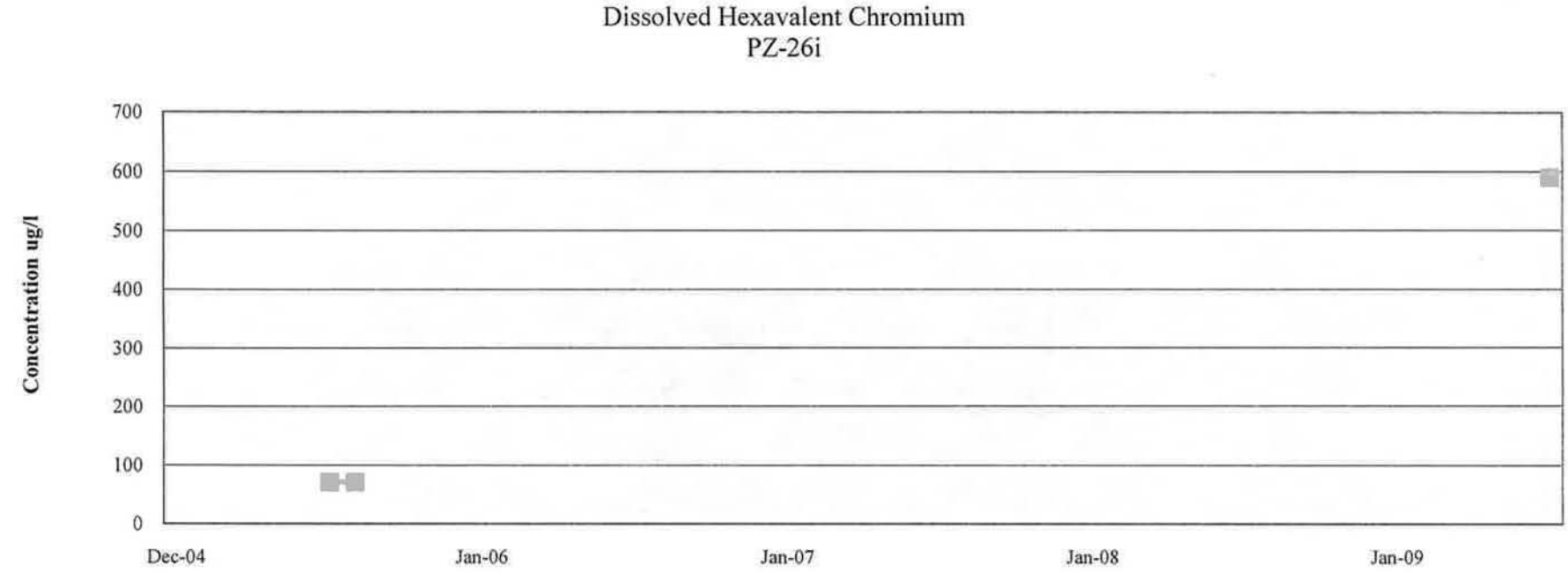
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
TCE	210			290	310
PCE	87			150	310
TCA	0.41			1.2	5



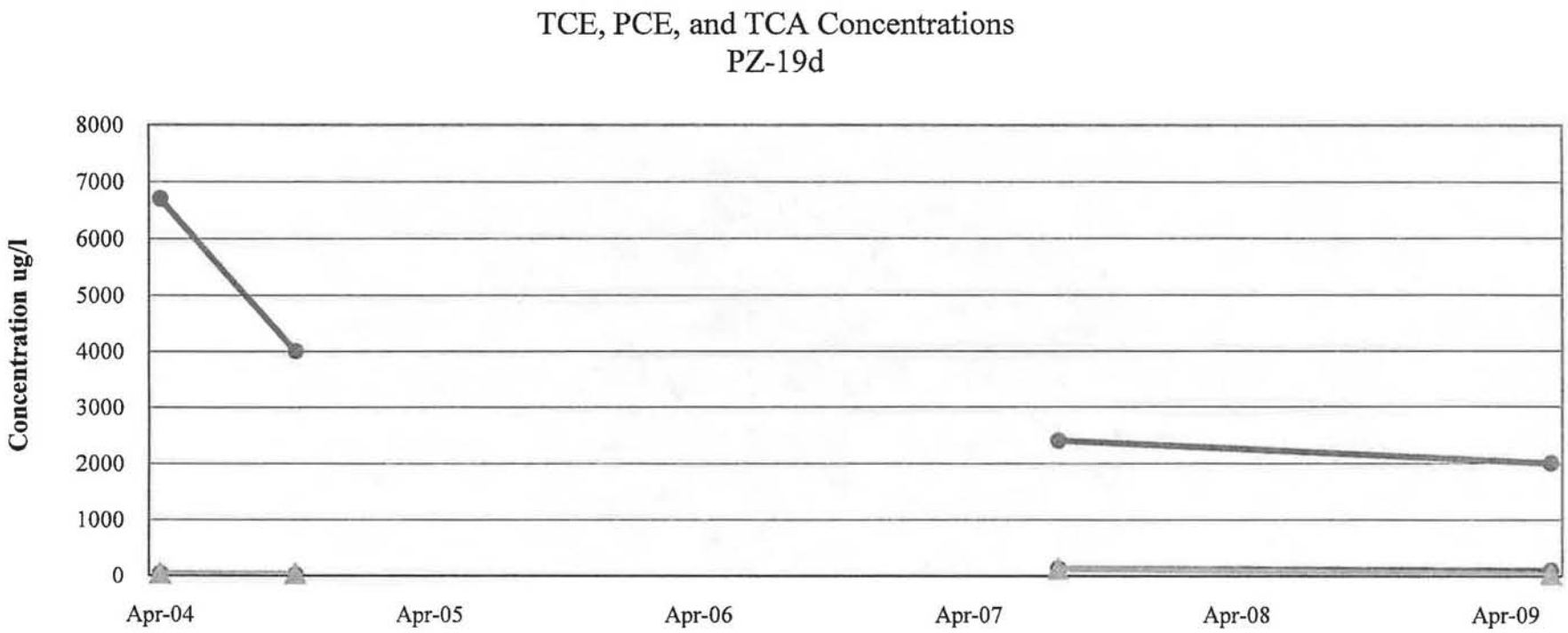
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
1,1-DCE	31			30	21
1,1-DCA	0.41			1.2	5
cis 1,2-DCE	0.77			0.5	



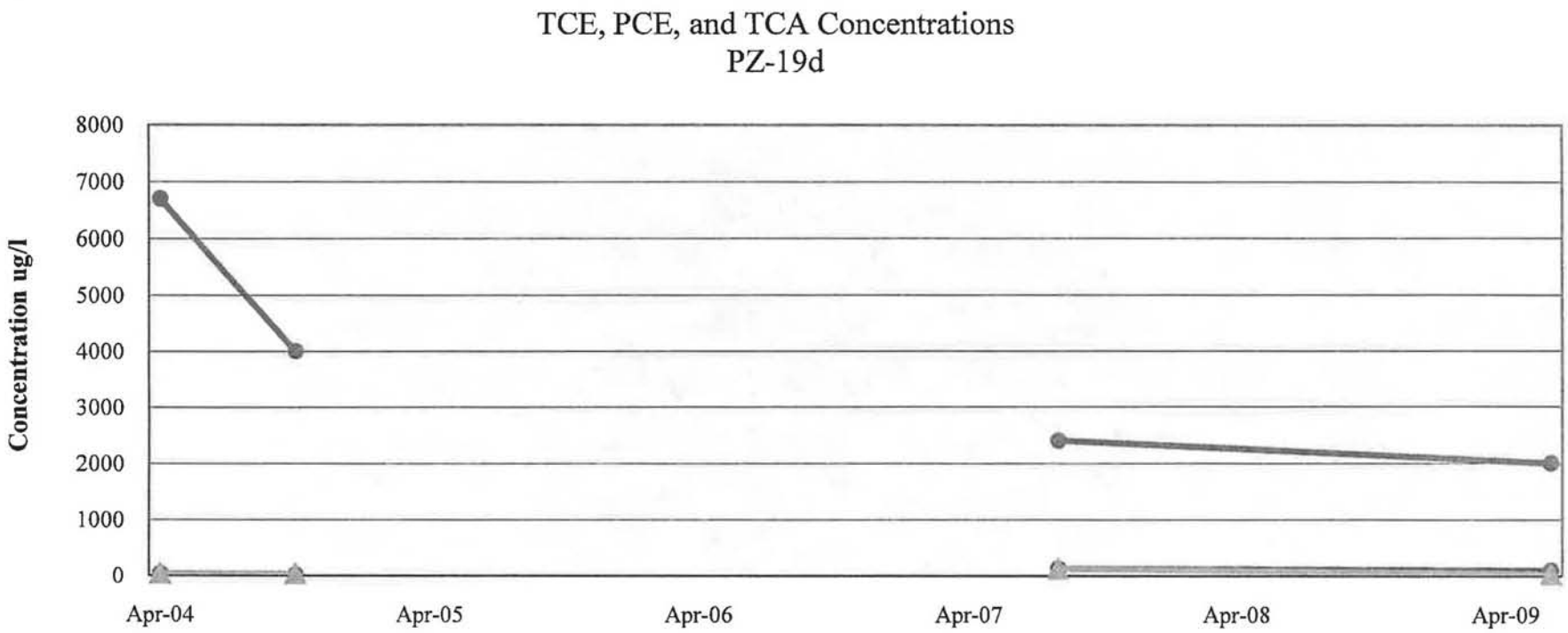
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Methylene Chloride	320			70	5



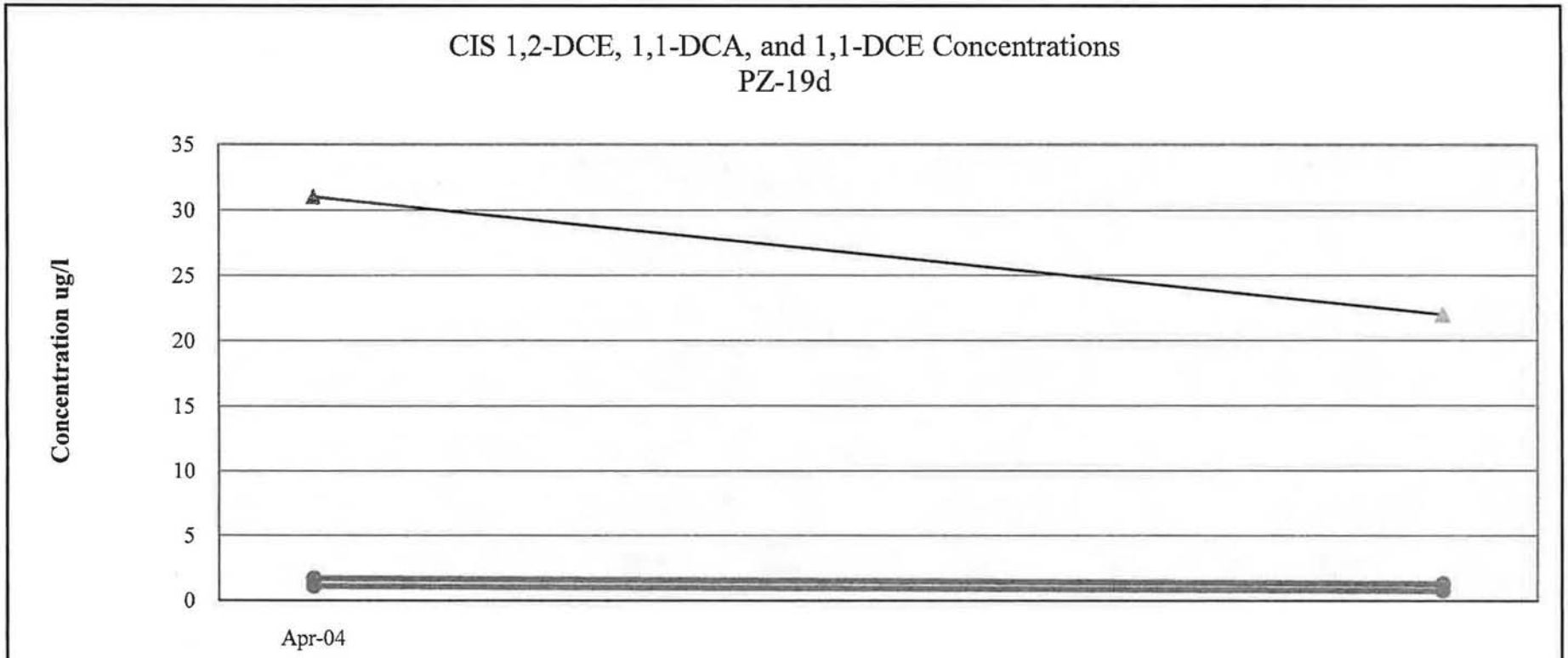
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Dissolved Hexavalent Chromium		71	71		590



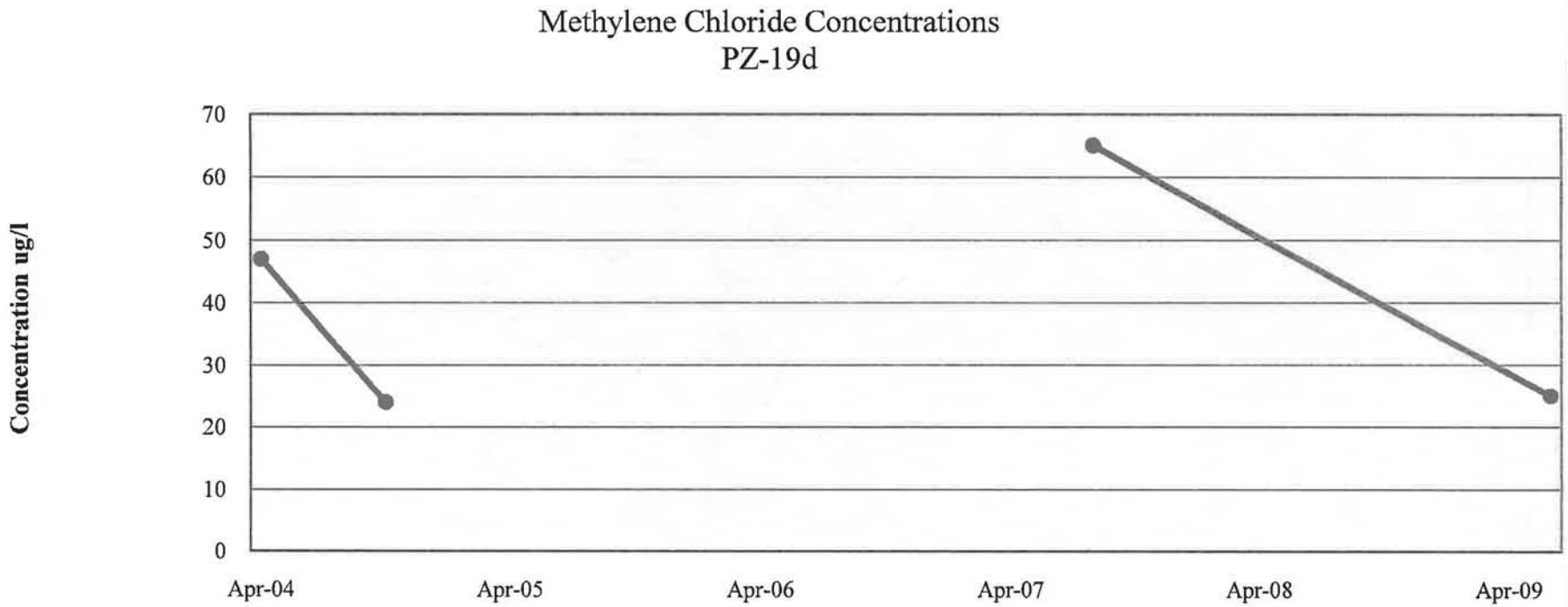
	04/13/04	10/20/04	06/20/05	07/20/05	08/27/07	06/25/09
TCE	6700	4000			2400	2000
PCE	38	25			130	97
TCA	37	32			130	25



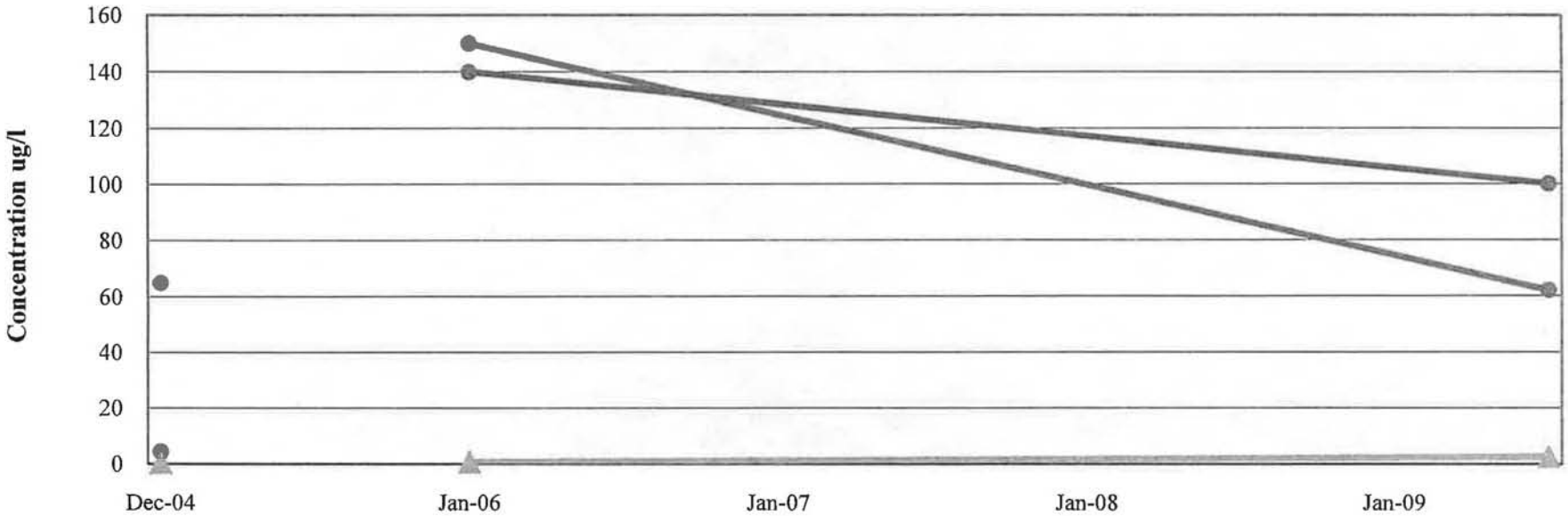
	04/13/04	10/20/04	06/20/05	07/20/05	08/27/07	06/25/09
TCE	6700	4000			2400	2000
PCE	38	25			130	97
TCA	37	32			130	25



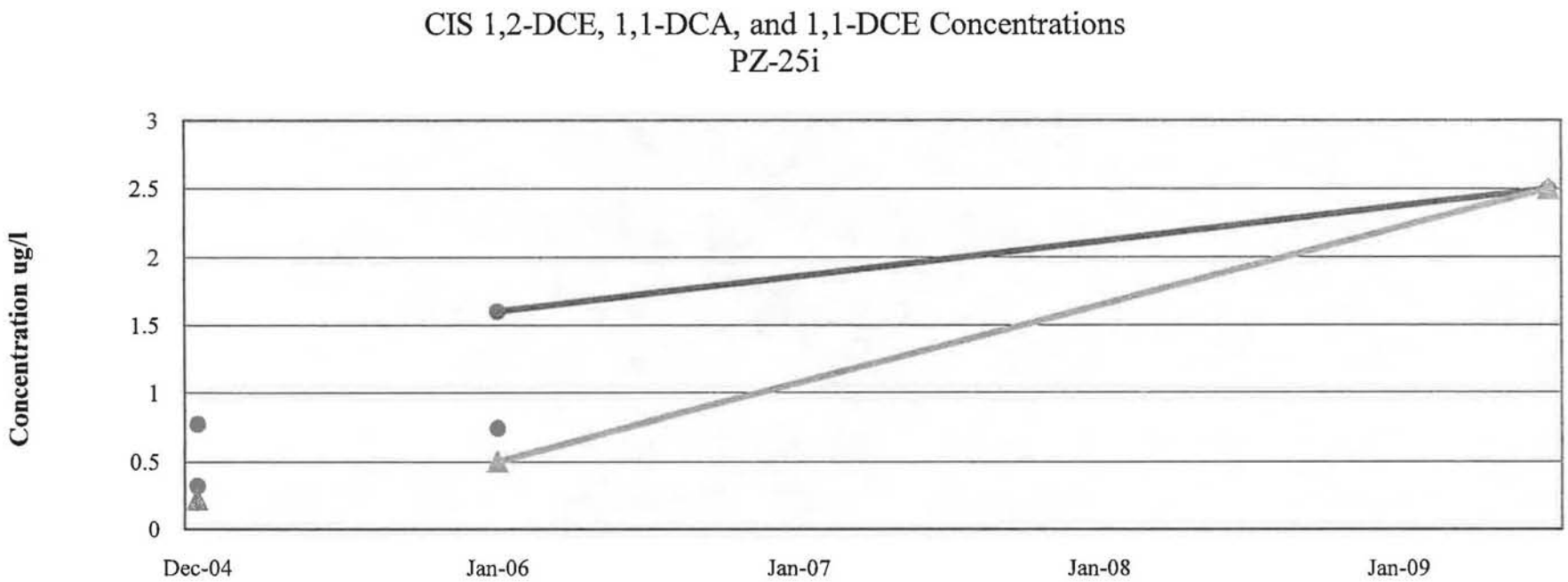
	04/13/04	10/20/04
Cis 1,2-DCE	1.1	0.78
1,1-DCA	1.7	1.3
1,1-DCE	31	22



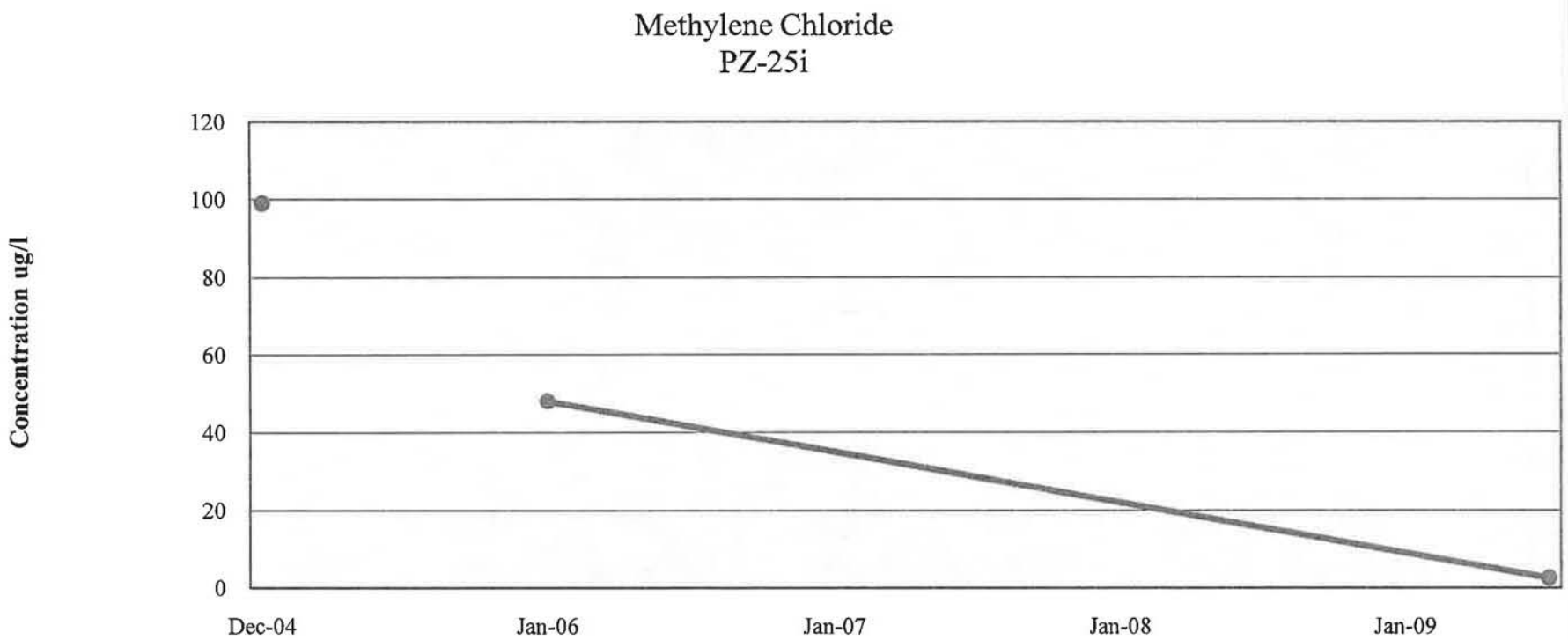
	04/13/04	10/20/04	06/20/05	07/20/05	08/27/07	06/25/09
Methylene Chloride	47	24			65	25



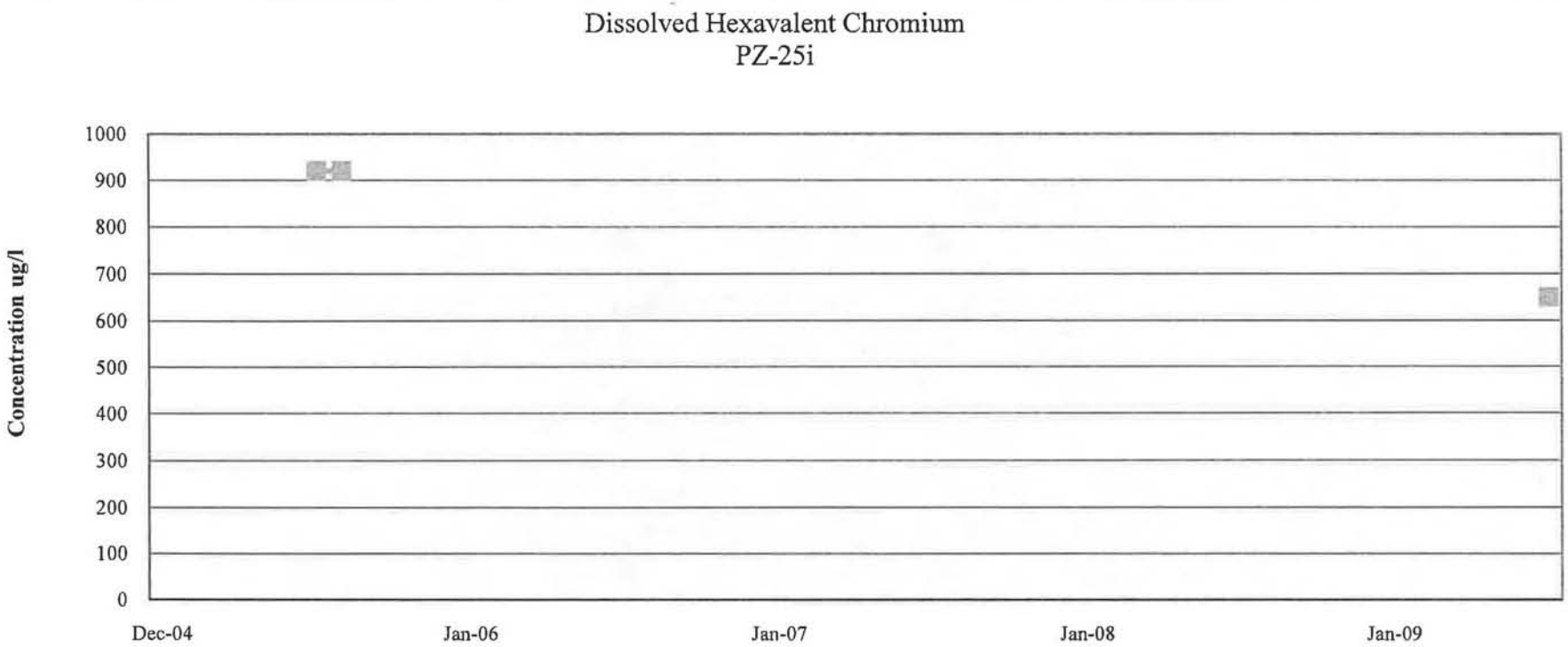
	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
TCE	65			150	62
PCE	4.4			140	100
TCA	0.41			0.73	2.5



	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Cis 1,2-DCE	0.77			0.74	
1,1-DCE	0.32			1.6	2.5
1,1-DCA	0.22			0.5	2.5



	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Methylene Chloride	99			48	2.5



	12/29/04	06/17/05	07/17/05	12/07/05	06/25/09
Dissolved Hexavalent Chromium		920	920		650

Appendix E
G-4 Plume

The G-4 data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table E-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figure 7 provides a geologic cross section and geochemical information along the center line of the G-4. The compound of tetrachloroethene is provided on the G-4 cross section. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table E-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-4 plume discharge.

Question 5

Table E-3 provides the results of the sediment analytical analysis within the discharge of the G-4 plume. Table E-4 provides the results of the surface water analytical data within the discharge of the G-4 plume.

Question 6

This question was skipped per question 5 yes response

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions

TABLE E-1
GROUNDWATER PLUME G-4 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	270	30	50	0.5	0	0.5	0.5				1	32	1	12	0	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	423	30	920	73	2	0.5	50	62000	0	0	200	12	12	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	385	30	77	0.5	0	0.5	0.5	110	0	0	0.5	272	2	23	0	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	385	30	1600	0.5	0	0.5	0.5	1260	1	1	5	14	1	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	63	6	25	0.5	0	0.5	0.5												
1,1-Dichloroethane	ug/L	423	30	500	0.5	0	0.5	0.5	2538	0	0	70	9	6	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	424	30	500	12	1	0.5	0.5	96	9	5	7	67	52	1	1	1	6	1	1
1,1-Dichloropropene	ug/L	270	30	50	0.5	0	0.5	0.5												
1,2,3-Trichlorobenzene	ug/L	270	30	100	2	0	0.5	2												
1,2,3-Trichloropropane	ug/L	270	30	50	2.1	2	0.5	0.5												
1,2,3-Trimethylbenzene	ug/L	67	24	50	0.5	0	0.5	0.5												
1,2,4-Trichlorobenzene	ug/L	270	30	100	2	0	0.5	2				70	2	0						
1,2,4-Trimethylbenzene	ug/L	270	30	350	0.5	0	0.5	0.5	710	0	0	350	0	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	270	30	100	0.5	0	0.5	0.5												
1,2-Dibromoethane (EDB)	ug/L	319	30	50	0.8	1	0.5	0.5				0.05	319	5	4	0	0	16	0	0
1,2-Dichlorobenzene	ug/L	270	30	210	0.5	0	0.5	0.5	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	422	30	1000	1.7	1	0.5	0.5	2970	0	0	1	106	82	21	0	0	90	0	0
1,2-Dichloroethene (Total)	ug/L	300	0	17633		0														
1,2-Dichloropropane	ug/L	385	30	50	23	8	0.5	0.5				5	16	3	14	1	1	60	0	0
1,3,5-Trimethylbenzene	ug/L	270	30	300	0.5	0	0.5	0.5	710	0	0	350	0	0						
1,3-Dichlorobenzene	ug/L	270	30	50	0.5	0	0.5	0.5	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	270	30	50	0.5	0	0.5	0.5												
1,4-Dichlorobenzene	ug/L	270	30	50	0.5	0	0.5	0.5	26000	0	0	75	0	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	59	6	25	0.5	0	0.5	0.5				0.004	59	0						
1,4-Dioxane	ug/L	7	0	2500		0						20	6	3						
1-Chlorohexane	ug/L	68	0	5		0														
2,2-Dichloropropane	ug/L	270	30	50	0.5	0	0.5	0.5												
2-Butanone (MEK)	ug/L	240	6	100	0.5	0	0.5	0.5	756000	0	0	400	0	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	270	30	50	0.5	0	0.5	0.5												
2-Hexanone	ug/L	287	6	100	0.5	0	0.5	0.5												
4-Bromofluorobenzene	ug/L	4	0	46.9		0														
4-Chlorotoluene	ug/L	270	30	50	0.5	0	0.5	0.5												
4-Methyl-2-pentanone (MIBK)	ug/L	287	6	100	0.5	0	0.5	0.5				350	0	0	50000	0	0	50000	0	0
Acetone	ug/L	243	9	498	4.6	3	2	2				700	0	0	50000	0	0	50000	0	0
Acrylonitrile	ug/L	63	6	25	0.5	0	0.5	0.5	20	4	0	0.5	16	0						
Benzene	ug/L	384	30	349	22	1	0.5	0.5	710	0	0	1	63	31	215	0	0	530	0	0
Bromobenzene	ug/L	270	30	50	0.5	0	0.5	0.5												
Bromodichloromethane	ug/L	385	30	50	0.5	0	0.5	0.5				0.56	173	2						
Bromoform	ug/L	385	30	50	0.5	0	0.5	0.5	10800	0	0	4	28	0	920	0	0	3800	0	0
Bromomethane	ug/L	385	30	50	0.5	0	0.5	0.5				9.8	14	0						
Carbon disulfide	ug/L	287	6	25	0.5	0	0.5	0.5				700	0	0						
Carbon tetrachloride	ug/L	385	30	50	0.5	0	0.5	0.5	132	0	0	5	14	0	16	0	0	40	0	0
Chlorobenzene	ug/L	385	30	50	0.5	0	0.5	0.5	420000	0	0	100	0	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	310	30	50	0.5	0	0.5	0.5												
Chloroethane	ug/L	385	30	50	0.5	0	0.5	0.5				2538	0	0						
Chloroform	ug/L	385	30	50	0.5	0	0.5	0.5	14100	0	0	6	19	5	287	0	0	710	0	0
Chloromethane	ug/L	385	30	50	0.5	0	0.5	0.5				2.7	28	0						
cis-1,2-Dichloroethene	ug/L	394	30	17500	8.6	3	0.5	0.5	31860	0	0	70	69	68						
cis-1,3-Dichloropropene	ug/L	385	30	50	0.5	0	0.5	0.5												
Dibromochloromethane	ug/L	385	30	50	0.5	0	0.5	0.5	1020	0	0	0.5	173	0						
Dibromofluoromethane	ug/L	4	0	48.1		0														
Dibromomethane	ug/L	270	30	50	0.5	0	0.5	0.5												

TABLE E-1
GROUNDWATER PLUME G-4 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Dichlorodifluoromethane	ug/L	270	30	50	0.5	0	0.5	0.5												
Diisopropyl ether (DIPE)	ug/L	4	0	3		0														
Ethyl ether	ug/L	4	0	3.7		0														
Ethyl tert-butyl ether	ug/L	4	0	2.7		0														
Ethylbenzene	ug/L	385	30	190	1	1	0.5	0.5	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	270	30	100	0.5	0	0.5	0.5				0.45	270	0						
Isopropylbenzene	ug/L	270	30	50	2.1	1	0.5	0.5				30	8	3						
m+p-Xylenes	ug/L	380	26	921	0.6	1	0.5	0.5	702	1	1	530	2	2	21300	0	0	50000	0	0
Methyl methacrylate	ug/L	50	6	25	0.5	0	0.5	0.5												
Methylene chloride	ug/L	423	30	1400	2	3	0.5	2	48000	0	0	5	71	46	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	243	30	50	1	2	0.5	0.5	710	0	0	70	0	0	50000	0	0	50000	0	0
Naphthalene	ug/L	267	27	300	2	1	0.5	2	24	16	6	280	1	1						
n-Butylbenzene	ug/L	270	30	50	0.5	0	0.5	0.5	710	0	0	61	0	0						
n-Propylbenzene	ug/L	270	30	74	0.5	0	0.5	0.5				61	1	1						
o-Xylene	ug/L	385	30	683	0.5	0	0.5	0.5	702	0	0	530	1	1	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	270	30	130	0.5	0	0.5	0.5				30	7	2						
sec-Butylbenzene	ug/L	270	30	50	0.5	0	0.5	0.5	710	0	0	61	0	0						
Styrene	ug/L	385	30	50	0.5	0	0.5	0.5				100	0	0	580	0	0	2065	0	0
t-Butyl alcohol	ug/L	4	0	74.1		0														
Tert-amyl methyl ether	ug/L	4	0	3.8		0														
tert-Butylbenzene	ug/L	270	30	50	0.5	0	0.5	0.5	710	0	0	61	0	0						
Tetrachloroethene (PCE)	ug/L	423	30	3960	1	2	0.5	0.5	88	51	51	5	132	128	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	134	6	100	2	0	0.5	2				5	18	5						
Toluene	ug/L	386	30	2440	1.3	1	0.5	0.5	400000	0	0	1000	1	1	23500	0	0	50000	0	0
Total cVOC	ug/L	271	0	21460		0														
trans-1,2-Dichloroethene	ug/L	387	30	500	0.5	0	0.5	0.5				100	5	1						
trans-1,3-Dichloropropene	ug/L	385	30	50	0.5	0	0.5	0.5												
Trichloroethene (TCE)	ug/L	423	30	5200	0.7	1	0.5	0.5	2340	4	4	5	118	114	219	0	0	540	0	0
Trichlorofluoromethane	ug/L	270	30	50	0.5	0	0.5	0.5				1300	0	0						
Vinyl acetate	ug/L	105	0	4		0						410	0	0						
Vinyl chloride	ug/L	423	30	500	0.5	0	0.5	0.5	15750	0	0	2	43	1	2	0	0	2	0	0
Xylenes (Total)	ug/L	31	4	500	3.3	1	0.5	0.5	702	0	0	530	0	0	21300	0	0	50000	0	0
1-Chlorooctadecane	mg/L	1	0	0.0564		0														
ETPH	mg/L	162	0	9.2		0						0.1	97	51						
TPH	mg/L	37	0	86		0						0.5	7	7						
Naphthalene	ug/L	3	3	1	1	1	0.5	0.5	24	0	0	280	0	0						
Aroclor-1016	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1221	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1232	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1242	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1248	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1254	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1260	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1262	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Aroclor-1268	mg/L	1	0	0.000526		0			0.0005	1	0	0.0005	1	0						
Decachlorobiphenyl	mg/L	1	0	0.00108		0														
Tetrachloro-m-xylene	mg/L	1	0	0.00129		0														
Chromium, hexavalent (dissolved)	mg/L	101	31	1.35	0.01	0	0.01	0.01	0.11	12	12									
Chromium, total (dissolved)	mg/L	67	26	1.79	0.005	0	0.005	0.005				0.1	9	9						
Chromium, trivalent (dissolved)	mg/L	27	0	0.42		0			1.2	0	0									
Aluminum	mg/L	34	0	31.1		0			121.4	0	0									
Antimony	mg/L	32	0	0.0129		0			86	0	0	0.006	4	4						

TABLE E-1
GROUNDWATER PLUME G-4 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Arsenic	mg/L	31	0	0.05		0			0.004	25	0	0.01	15	0						
Barium	mg/L	31	0	0.37		0			4.54	0	0	1	0	0						
Beryllium	mg/L	31	0	0.002		0			0.004	0	0	0.004	0	0						
Cadmium	mg/L	31	0	0.005		0			0.006	0	0	0.005	0	0						
Calcium	mg/L	43	0	291		0														
Chromium, hexavalent	mg/L	138	30	3.2	0.01	0	0.01	0.01	0.11	23	23									
Chromium, total	mg/L	112	30	11.4	0.025	20	0.005	0.005				0.1	35	35						
Chromium, trivalent	mg/L	27	0	0.998		0			1.2	0	0									
Cobalt	mg/L	32	0	0.05		0						0.01	15	0						
Copper	mg/L	32	0	0.02		0			0.048	0	0	1.3	0	0						
Iron	mg/L	43	0	57.7		0														
Lead	mg/L	32	0	0.01		0			0.013	0	0	0.015	0	0						
Magnesium	mg/L	43	0	123		0														
Manganese	mg/L	47	0	1.2		0														
Mercury	mg/L	31	0	0.001		0			0.0004	15	0	0.002	0	0						
Nickel	mg/L	34	0	0.52		0			0.88	0	0	0.1	2	2						
Potassium	mg/L	43	0	14		0														
Selenium	mg/L	31	0	0.05		0			0.05	0	0	0.05	0	0						
Silver	mg/L	31	0	0.01		0			0.012	0	0	0.036	0	0						
Sodium	mg/L	43	0	105		0														
Thallium	mg/L	31	0	0.0054		0			0.063	0	0	0.005	12	0						
Vanadium	mg/L	32	0	0.05		0						0.05	0	0						
Zinc	mg/L	32	0	0.17		0			0.123	1	0	5	0	0						

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)													
Acetone	700		2.2 B	2 U	2 U	2 U	2.5 B	4.6 B	2 U				
Acrylonitrile	0.5	20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	22 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene													
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
t-Butyl alcohol													
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	2.8	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.8	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane													
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7 a	0.5 U	0.5 U	0.6	1	0.5 U
1,2-Dichloroethene (Total)													
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.1 a	7.5 a	0.5 U
Dichlorofluoromethane													
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12 a	3.5	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)													
1,4-Dioxane	20												
Ethyl ether													
Ethyl tert-butyl ether													
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane													
4-Methyl-2-pentanone (MIBK)	350		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
Methylene chloride	5	48000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.7	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	2 U	2 U	2 U	2 U	2 U	0.9 B	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether													

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	23 a	31 a	0.5 U
Tetrahydrofuran	5		2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U				
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		2 U	2 U	2 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	1.5	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	1.2	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	30 a	34 a	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.6 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			27	5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5
Lower Depth (ftbg)			29	7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5
Date Sampled			10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)													
Acetone	700												
Acrylonitrile	0.5	20											
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene													
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000											
t-Butyl alcohol													
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700												
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane													
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004												
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)													
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.6	2.8	0.8	0.5
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane													
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)													
1,4-Dioxane	20												
Ethyl ether													
Ethyl tert-butyl ether													
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
2-Hexanone													
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane													
4-Methyl-2-pentanone (MIBK)	350												
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.6	0.5 U	0.8
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether													

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			27	5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5
Lower Depth (ftbg)			29	7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5
Date Sampled			10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5												
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane													
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702								0.5 U	0.5 U	0.5 U	3.3

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7
Upper Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Lower Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Date Sampled			11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)												
Acetone	700											
Acrylonitrile	0.5	20										
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene												
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000										
t-Butyl alcohol												
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700											
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.8 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane												
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004											
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)												
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	12 a	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane												
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		0.5 U	1	10 a	0.5 U	0.5 U	3.7	0.5 U	1.8	2.3	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)												
1,4-Dioxane	20											
Ethyl ether												
Ethyl tert-butyl ether												
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone												
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane												
4-Methyl-2-pentanone (MIBK)	350											
Methylene chloride	5	48000	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether												

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7
Upper Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Lower Depth (ftbg)			13.5	5	10	6	9	12	6	9	11	6
Date Sampled			11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5											
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	0.5 U	73	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane												
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702	0.5 U									

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)							
Acetone	700				2 U	2 U	2 U
Acrylonitrile	0.5	20					
Benzene	1	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.56		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Bromofluorobenzene							
Bromoform	4	10800	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	9.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone (MEK)	400	756000					
t-Butyl alcohol							
n-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	61	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	700						
Carbon tetrachloride	5	132	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	100	420000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2538		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	6	14100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	2.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5	1020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromofluoromethane							
Dibromomethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobutene	0.004						
Dichlorodifluoromethane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	70	2538	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1	2970	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (Total)							
cis-1,2-Dichloroethene	70	31860	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	96	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorofluoromethane							
1,3-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5		3.5	23 a	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Diisopropyl ether (DIPE)							
1,4-Dioxane	20						
Ethyl ether							
Ethyl tert-butyl ether							
Ethylbenzene	700	580000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone							
Isopropylbenzene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methane							
4-Methyl-2-pentanone (MIBK)	350						
Methylene chloride	5	48000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	280	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	61		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-amyl methyl ether							

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (PCE)	5	88	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	5						
Toluene	1000	400000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-isopropyl toluene	30		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	200	62000	2	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (TCE)	5	2340	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	1300		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane			0.5 U	0.7	0.5 U	0.5 U	0.5 U
1,1,2-Trichlorotrifluoroethane							
1,2,4-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	15750	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m+p-Xylenes	0.53	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	530	702	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	530	702					

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
T E-2
Summa. , of SVOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-9	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			4.5	7.5	13.5
Lower Depth (ftbg)			4.5	7.5	13.5
Date Sampled			11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK
SVOCs (µg/L)					
Acenaphthene	420	6.1			
Acenaphthylene	420	0.3			
Aniline	6				
Anthracene	2000	110000			
Benzo(a)anthracene	0.06	0.3			
Benzo(a)pyrene	0.2	0.3			
Benzo(b)fluoranthene	0.08	0.3			
Benzo(g,h,i)perylene	210	4.92			
Benzo(k)fluoranthene	0.5	0.3			
bis(2-Chloroethoxy)methane					
bis(2-Chloroethyl)ether	12	42			
bis(2-chloroisopropyl)ether	12	340000			
bis(2-Ethylhexyl)phthalate	2	59			
4-Bromophenyl phenyl ether	410				
Butyl benzyl phthalate	1000				
Carbazole	10				
4-Chloro-3-methylphenol					
4-Chloroaniline	28				
2-Chloronaphthalene	560				
2-Chlorophenol	36				
4-Chlorophenyl phenyl ether	410				
Chrysene	4.8	4.92			
Dibenzo(a,h)anthracene	0.2	0.01			
Dibenzofuran	28				
3,3'-Dichlorobenzidine	10				
2,4-Dichlorophenol	20	15800			
Diethyl phthalate	5600				
Dimethyl phthalate	5600				
2,4-Dimethylphenol	140				
Di-n-butyl phthalate	700	120000			
4,6-Dinitro-2-methylphenol					
2,4-Dinitrophenol	50				
2,4-Dinitrotoluene	14				
2,6-Dinitrotoluene	10				
Di-n-octyl phthalate	100				
Fluoranthene	280	3700			
Fluorene	280	140000			
Hexachlorobenzene	1	0.077			
Hexachlorobutadiene	0.45		0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	49				
Hexachloroethane	3	89			

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
T E-2
Summary of SVOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MIL-GW-9	MIL-GW-9	MIL-GW-9
Upper Depth (ftbg)			4.5	7.5	13.5
Lower Depth (ftbg)			4.5	7.5	13.5
Date Sampled			11/17/2009	11/17/2009	11/17/2009
Aliquot			SA-YK	SA-YK	SA-YK
Indeno(1,2,3-cd)pyrene	0.2	0.49			
Isophorone	37				
2-Methylnaphthalene	49				
m,p-Methylphenol					
2-Methylphenol	350				
4-Methylphenol	35				
Naphthalene	280	24	0.5 U	1	0.5 U
2-Nitroaniline	50				
3-Nitroaniline	50				
4-Nitroaniline	21				
Nitrobenzene	10				
2-Nitrophenol	56				
4-Nitrophenol					
N-Nitroso-di-n-propylamine	10				
N-Nitrosodiphenylamine	10				
Pentachloronitrobenzene	0.13				
Pentachlorophenol	1				
Phenanthrene	200	0.3			
Phenol	4000	920000			
Pyrene	200	110000			
Pyridine	0.7				
1,2,4,5-Tetrachlorobenzene					
1,2,4-Trichlorobenzene	70		0.5 U	0.5 U	0.5 U
2,4,5-Trichlorophenol	700				
2,4,6-Trichlorophenol	10				

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill
Station	a	b	MBGW-1	MBGW-1	MBGW-2	MBGW-3	MBGW-4	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2
Upper Depth (ftbg)			0	0	0	0	0	3.5	6.8	12	16	20	24	27
Lower Depth (ftbg)			1.5	1.5	1.5	1.5	1.5	5.5	8.4	14	18	22	26	29
Date Sampled			11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)														
Aluminum		121.4												
Antimony	0.006	86												
Arsenic	0.01	0.004												
Barium	1	4.54												
Beryllium	0.004	0.004												
Cadmium	0.005	0.006												
Chromium, total	0.1		0.014	0.011	0.005 U	0.005 U	0.007	0.005 U	0.005	0.016	0.068	0.159 a	0.011	0.034
Chromium, trivalent		1.2												
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.07	0.15 b	0.01 U	0.01 U
Cobalt	0.01													
Copper	1.3	0.048												
Iron														
Lead	0.015	0.013												
Magnesium														
Manganese														
Mercury	0.002	0.0004												
Nickel	0.1	0.88												
Selenium	0.05	0.05												
Silver	0.036	0.012												
Thallium	0.005	0.063												
Vanadium	0.05													
Zinc	5	0.123												

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C
Station	a	b	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9	MIL-GW-9	NT-MIL-GW-3
Upper Depth (ftbg)			5	7	12.5	18	9	12.5	5.5	15.5	4.5	7.5	13.5	5
Lower Depth (ftbg)			7	9	14.5	20	11	14.5	5.5	15.5	4.5	7.5	13.5	5
Date Sampled			10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)														
Aluminum		121.4												
Antimony	0.006	86												
Arsenic	0.01	0.004												
Barium	1	4.54												
Beryllium	0.004	0.004												
Cadmium	0.005	0.006												
Chromium, total	0.1		0.018	0.007	0.014	0.025	0.025	0.006	0.005 U	0.005 U	0.005 U	0.007	0.007	0.005 U
Chromium, trivalent		1.2												
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.01													
Copper	1.3	0.048												
Iron														
Lead	0.015	0.013												
Magnesium														
Manganese														
Mercury	0.002	0.0004												
Nickel	0.1	0.88												
Selenium	0.05	0.05												
Silver	0.036	0.012												
Thallium	0.005	0.063												
Vanadium	0.05													
Zinc	5	0.123												

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8
Upper Depth (ftbg)			10	6	9	12	6	9	11	6	9	11.5	7.5
Lower Depth (ftbg)			10	6	9	12	6	9	11	6	9	11.5	7.5
Date Sampled			10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals (mg/L)													
Aluminum		121.4											
Antimony	0.006	86											
Arsenic	0.01	0.004											
Barium	1	4.54											
Beryllium	0.004	0.004											
Cadmium	0.005	0.006											
Chromium, total	0.1		0.005 U	0.005 U	0.025	0.007	0.009	0.007	0.005 U	0.006	0.005 U	0.009	0.017
Chromium, trivalent		1.2											
Chromium, hexavalent		0.11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	0.01												
Copper	1.3	0.048											
Iron													
Lead	0.015	0.013											
Magnesium													
Manganese													
Mercury	0.002	0.0004											
Nickel	0.1	0.88											
Selenium	0.05	0.05											
Silver	0.036	0.012											
Thallium	0.005	0.063											
Vanadium	0.05												
Zinc	5	0.123											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			9.5	11.5
Lower Depth (ftbg)			9.5	11.5
Date Sampled			10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK
Metals (mg/L)				
Aluminum		121.4		
Antimony	0.006	86		
Arsenic	0.01	0.004		
Barium	1	4.54		
Beryllium	0.004	0.004		
Cadmium	0.005	0.006		
Chromium, total	0.1		0.015	0.025
Chromium, trivalent		1.2		
Chromium, hexavalent		0.11	0.01 U	0.01 U
Cobalt	0.01			
Copper	1.3	0.048		
Iron				
Lead	0.015	0.013		
Magnesium				
Manganese				
Mercury	0.002	0.0004		
Nickel	0.1	0.88		
Selenium	0.05	0.05		
Silver	0.036	0.012		
Thallium	0.005	0.063		
Vanadium	0.05			
Zinc	5	0.123		

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-1	MIL-GW-1	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-2	MIL-GW-3	MIL-GW-3	MIL-GW-3	MIL-GW-3
Upper Depth (ftbg)			3.5	6.8	12	16	20	24	27	5	7	12.5	18
Lower Depth (ftbg)			5.5	8.4	14	18	22	26	29	7	9	14.5	20
Date Sampled			9/9/2009	9/9/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)													
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.044	0.107 a	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2											

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	E Reach Mill	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	MIL-GW-4	MIL-GW-4	MIL-GW-8	MIL-GW-8	MIL-GW-9	MIL-GW-9	MIL-GW-9	NT-MIL-GW-3	NT-MIL-GW-3	NT-MIL-GW-5	NT-MIL-GW-5
Upper Depth (ftbg)			9	12.5	5.5	15.5	4.5	7.5	13.5	5	10	6	9
Lower Depth (ftbg)			11	14.5	5.5	15.5	4.5	7.5	13.5	5	10	6	9
Date Sampled			10/7/2009	10/7/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)													
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2											

Detection limit basis: RL

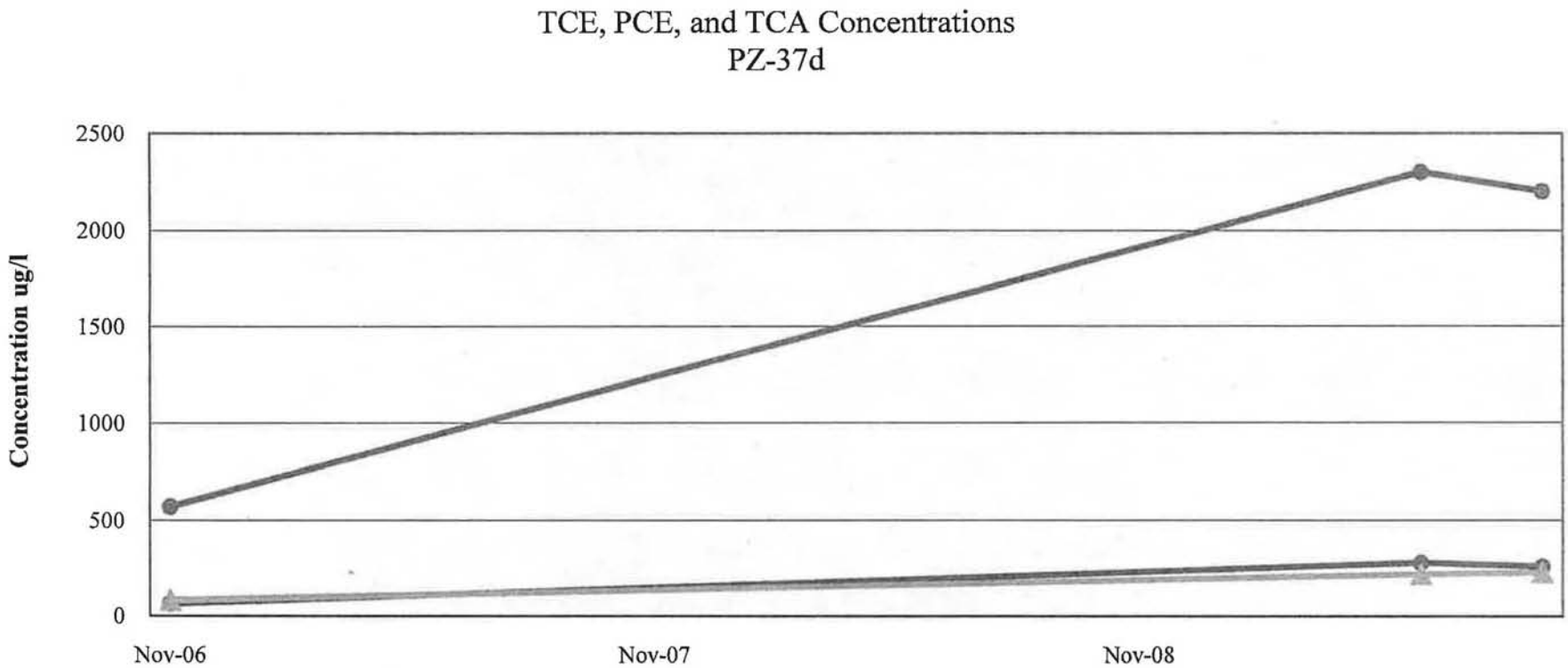
See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table E-2
Summary of Metals - Dissolved
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

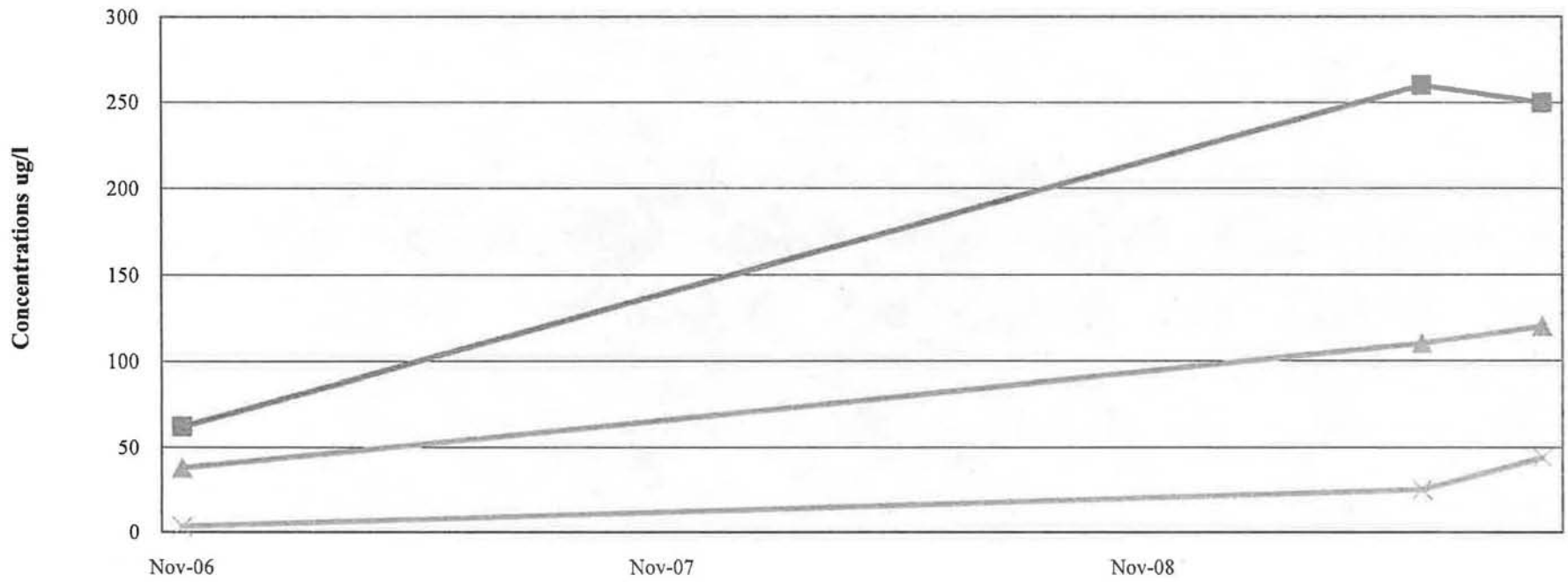
Survey Area	GWPC	SWPC	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C	MILL TRIB C
Station	a	b	NT-MIL-GW-5	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-6	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-7	NT-MIL-GW-8	NT-MIL-GW-8	NT-MIL-GW-8
Upper Depth (ftbg)			12	6	9	11	6	9	11.5	7.5	9.5	11.5
Lower Depth (ftbg)			12	6	9	11	6	9	11.5	7.5	9.5	11.5
Date Sampled			10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/13/2009	10/13/2009	10/13/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
Metals - Dissolved (mg/L)												
Chromium, total	0.1		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, trivalent		1.2										

Detection limit basis: RL

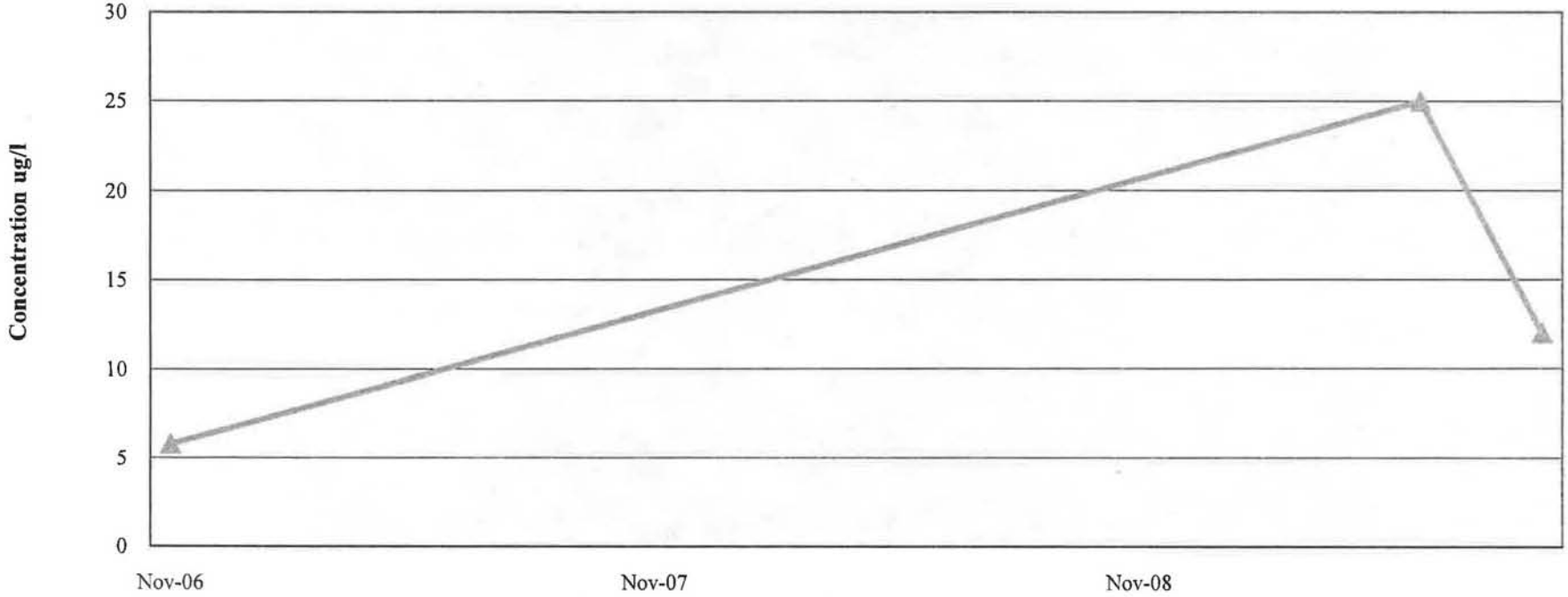
See Attached Notes. Blank results indicate chemical not analyzed.



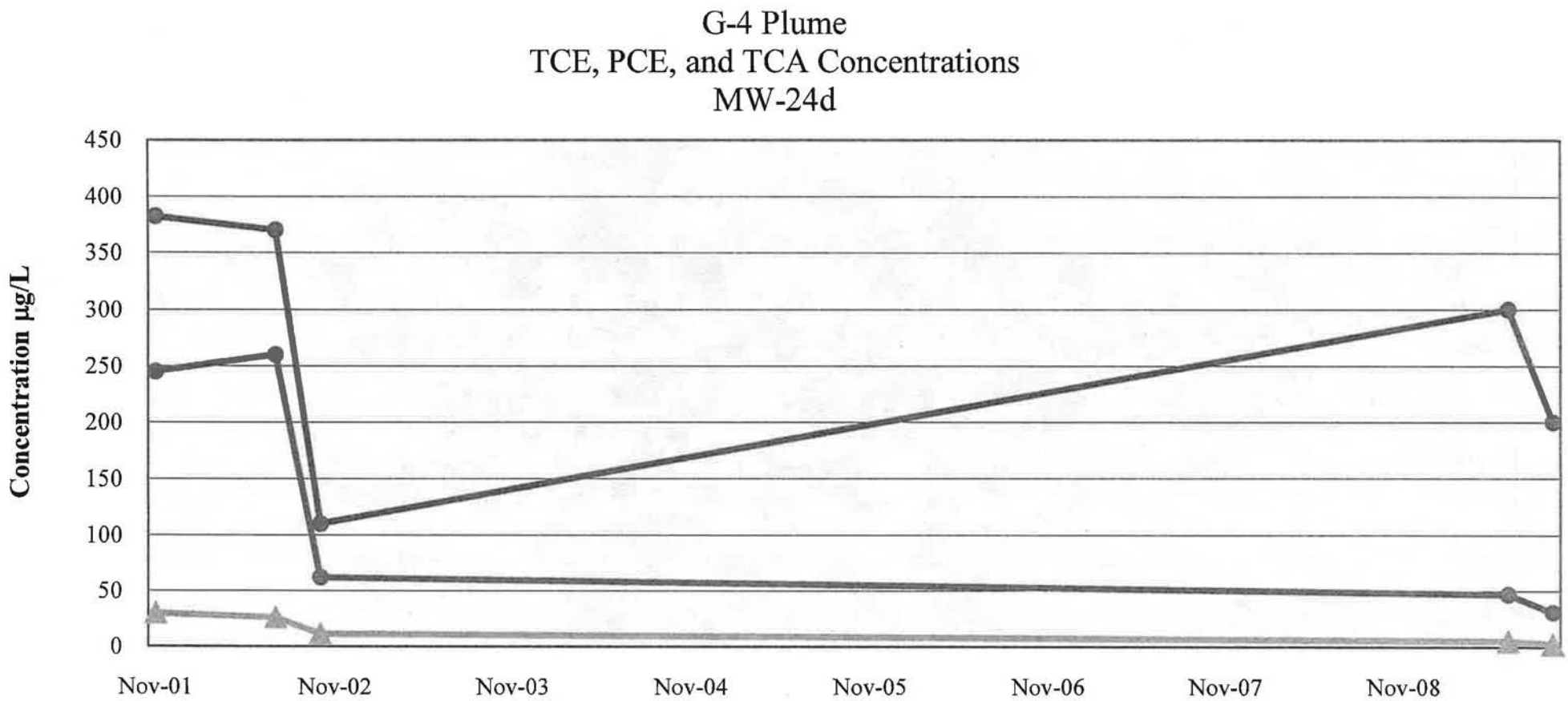
	11/15/06	06/25/09	09/25/09
TCE	570	2300	2200
PCE	64.3	280	260
TCA	82.2	220	230



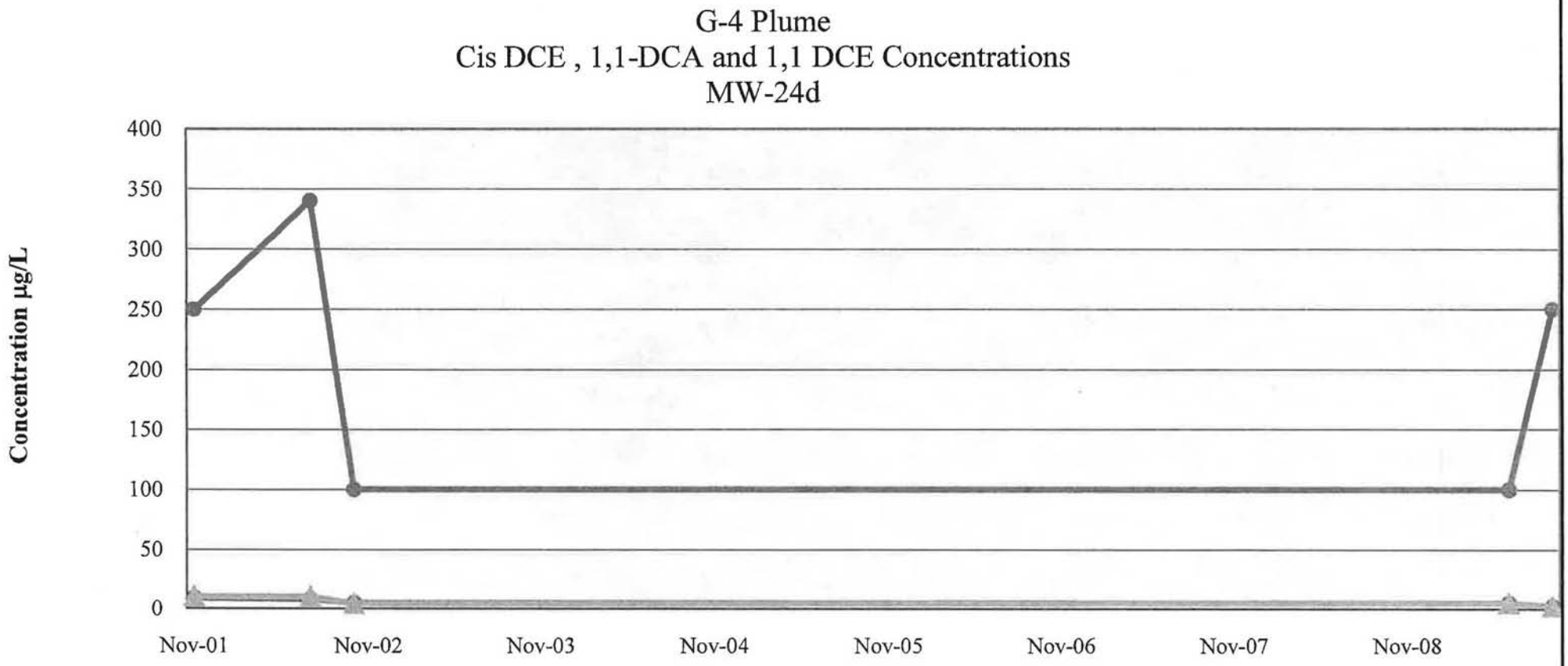
	11/15/06	06/25/09	09/25/09
cis 1,2-DCE	62.3	260	250
1,1-DCE	37.9	110	120
1,1-DCA	3.3	25	44



	11/15/06	06/25/09	09/25/09
Methylene Chloride	5.8	25	12

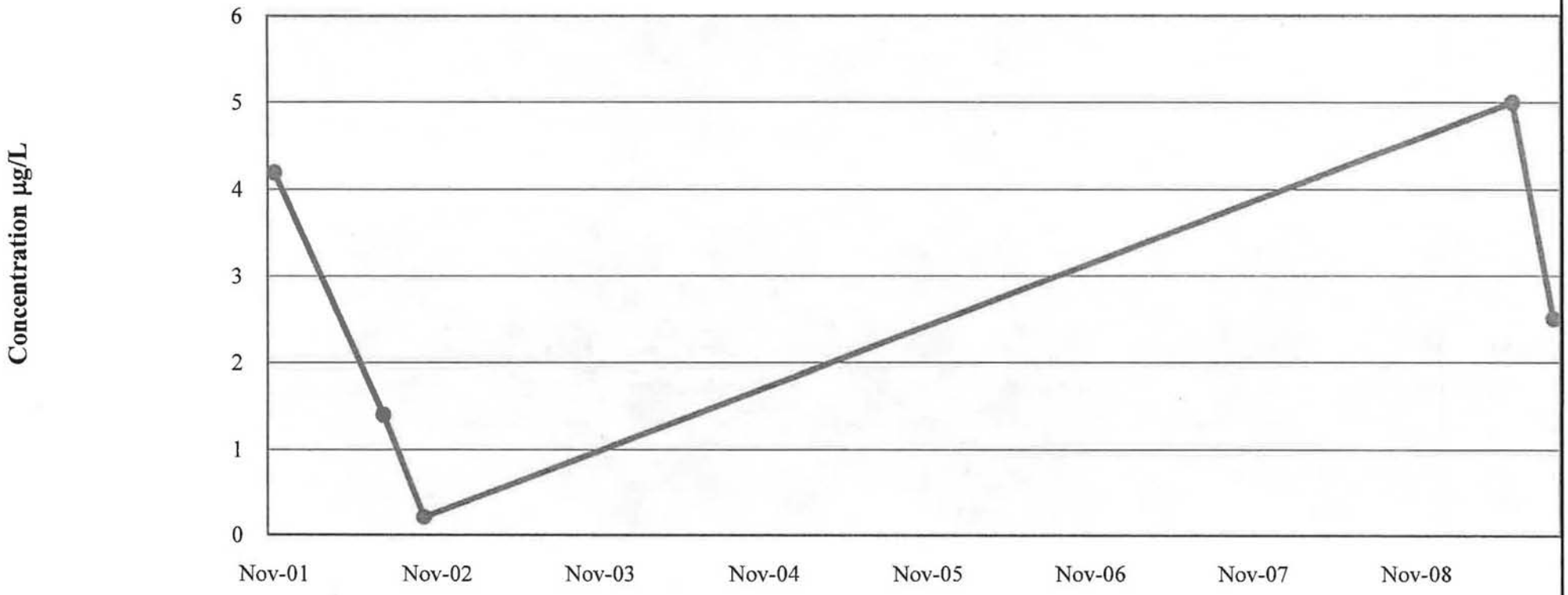


	11/13/01	07/23/02	10/24/02	06/26/09	09/25/09
TCE	245	260	62	47	31
PCE	382	370	110	300	200
TCA	30	26	11	5	2.5

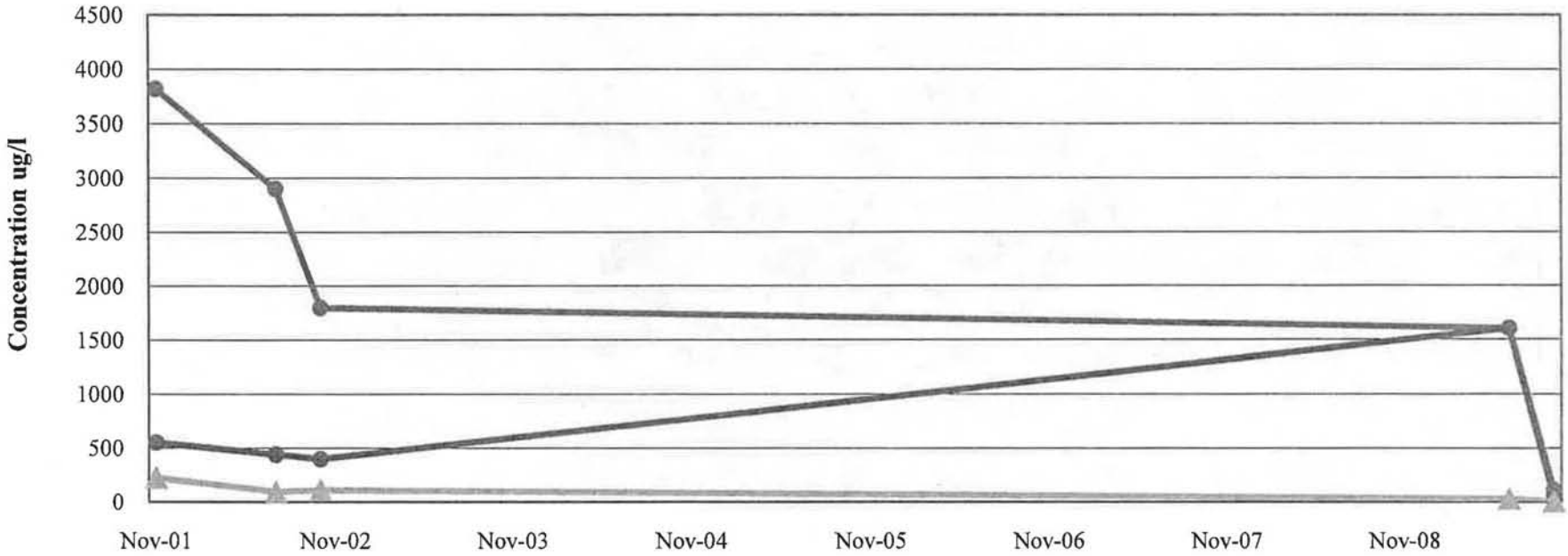


	11/13/01	07/23/02	10/24/02	06/26/09	09/25/09
Cis 1,2-DCE	250	340	100	100	250
1,1-DCA	8.94	7.8	4.8	5	2.5
1,1-DCE	10.1	10	4.1	5	2.5

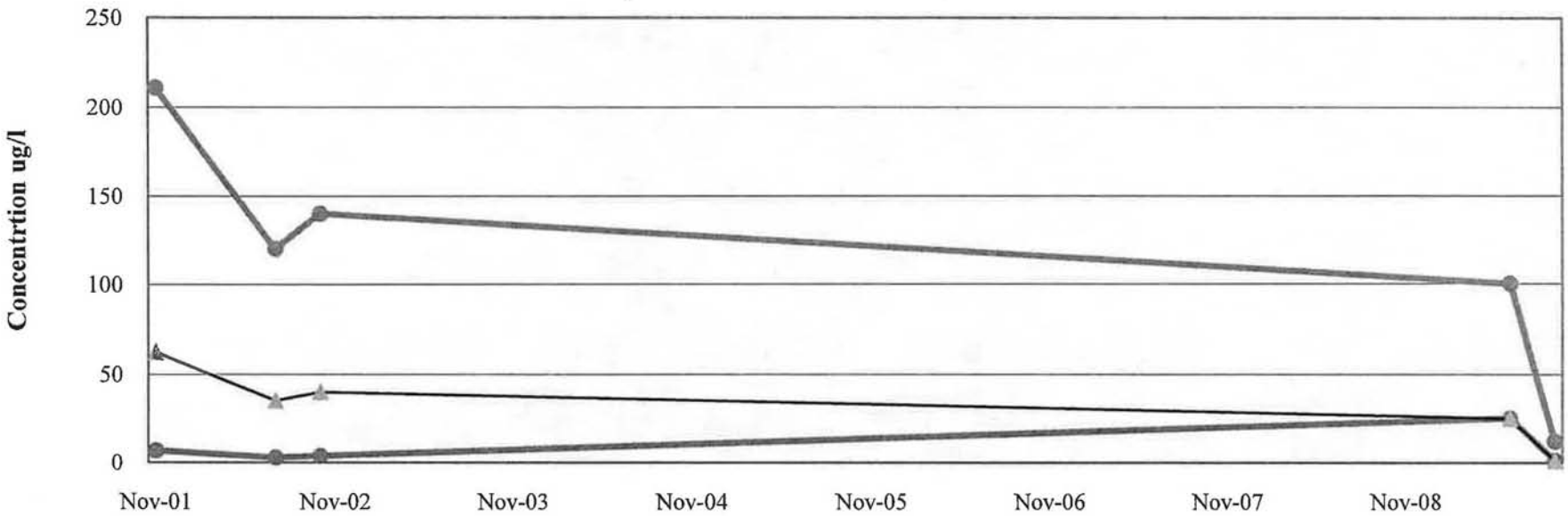
Methylene Chloride Concentrations
MW-24d



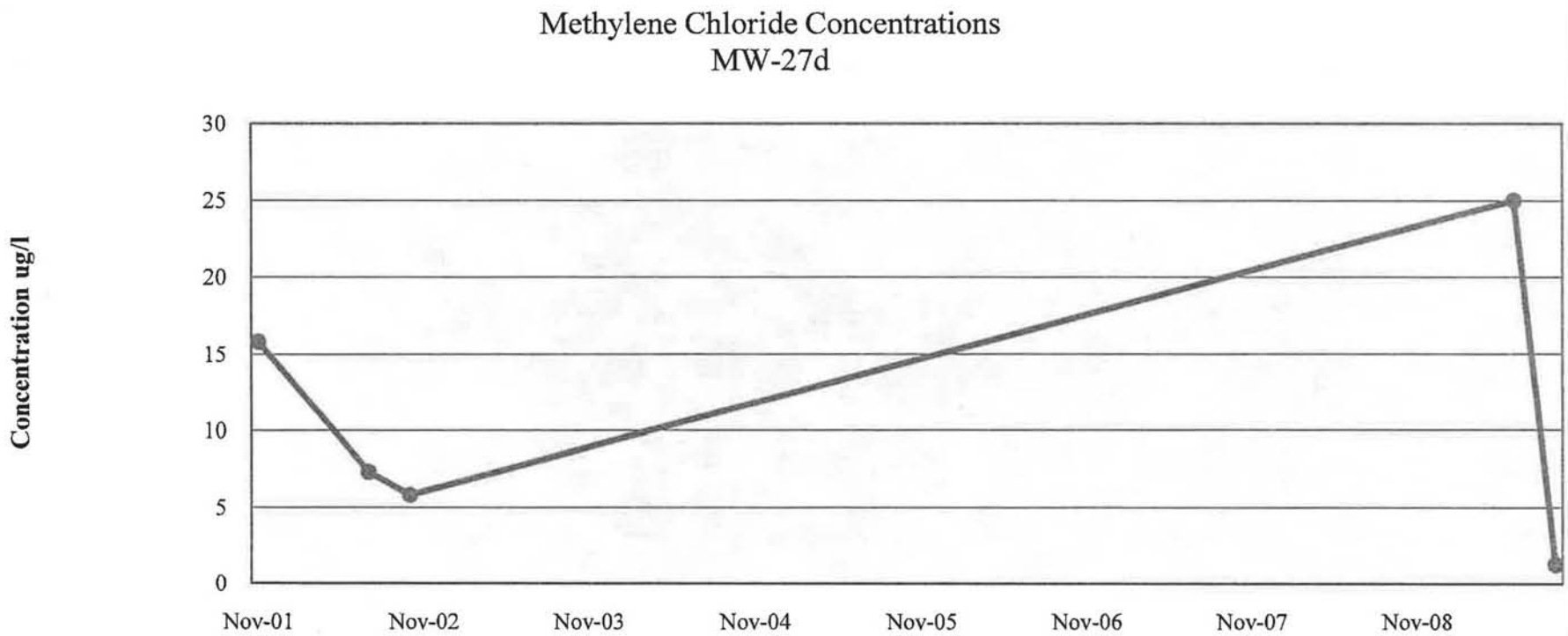
	11/13/01	07/23/02	10/24/02	06/26/09	09/25/09
Methylene Chloride	4.19	1.4	0.21	5	2.5



	11/15/01	07/18/02	10/25/02	06/25/09	09/25/09
TCE	3820	2900	1800	1600	110
PCE	551	440	400	1600	50
TCA	226	95	110	25	1.25



	11/15/01	07/18/02	10/25/02	06/25/09	09/25/09
Cis 1,2-DCE	211	120	140	100	12
1,1-DCA	6.72	2.8	3.8	25	1.25



	11/15/01	07/18/02	10/25/02	06/25/09	09/25/09
Methylene Chloride	15.8	7.3	5.8	25	1.25

Appendix F
G-5 Plume

The G-5 data reference within the CA-750 is included within this appendix. This appendix is organized by the question number presented in the CA750 document.

Question 1

All data associated within the plume characterization is presented in the December 2010 *Final Site Investigation Report.*

Question 2

Table F-1 includes a statistical summary of the compounds detected in the groundwater as part of the Site investigation. Information includes total number of samples collected for each compound, maximum concentration detected, number of samples exceeding an applicable criterion and the minimum detection limited report for these compounds.

Question 3

Information related to question 3 has been provided in plan and cross sectional views (see Figure tab). Figure 1 depicts the boundaries of the six plumes. Figure 8 depicts the groundwater (including immediately upgradient of the discharge), surface water and sediment sample locations.

Question 4

Table F-2 provides the results of the analytical analyses for the groundwater samples collected immediately upgradient of the G-5 plume discharge.

Question 5

Table F-3 provides the results of the sediment analytical analysis within the discharge of the G-5 plume. Table F-4 provides the results of the surface water analytical data within the discharge of the G-5 plume.

Question 6

This question was skipped per question 5 yes response.

Question 7

Figure 8 includes all the groundwater sampling locations. Those sample locations labeled with a MW, PZ or KM are monitoring wells whereas the other sample locations (i.e., DP) are discrete sample locations where groundwater grab samples were collected. Many of the MW, PZ and KM wells will be utilized as part of the remedial groundwater monitoring program. In addition, new wells will be installed at several discrete sampling locations where concentrations were reported above applicable criteria to evaluate the performance of the remedial actions

TABLE F-1
GROUNDWATER PLUME G-5 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
1,1,1,2-Tetrachloroethane	ug/L	166	7	250	12	0	0.5	12				1	59	2	12	0	0	50	0	0
1,1,1-Trichloroethane (TCA)	ug/L	231	7	280	12	1	0.5	12	62000	0	0	200	5	2	20400	0	0	50000	0	0
1,1,2,2-Tetrachloroethane	ug/L	225	7	250	12	0	0.5	12	110	5	0	0.5	160	1	23	0	0	100	0	0
1,1,2-Trichloroethane (TCA)	ug/L	225	7	1600	12	1	0.5	12	1260	1	1	5	32	16	8000	0	0	19600	0	0
1,1,2-Trichlorotrifluoroethane	ug/L	48	5	130	12	0	0.5	12												
1,1-Dichloroethane	ug/L	231	7	250	12	1	0.5	12	2538	0	0	70	8	0	34600	0	0	50000	0	0
1,1-Dichloroethene	ug/L	231	7	250	12	1	0.5	12	96	9	1	7	53	34	1	5	1	6	2	1
1,1-Dichloropropene	ug/L	157	5	250	12	0	0.5	12												
1,2,3-Trichlorobenzene	ug/L	157	5	250	12	0	0.5	12												
1,2,3-Trichloropropane	ug/L	166	7	250	12	0	0.5	12												
1,2,3-Trimethylbenzene	ug/L	48	0	250		0														
1,2,4-Trichlorobenzene	ug/L	157	5	250	12	0	0.5	12				70	9	0						
1,2,4-Trimethylbenzene	ug/L	145	5	250	12	1	0.5	12	710	0	0	350	0	0						
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	157	5	250	12	0	0.5	12												
1,2-Dibromoethane (EDB)	ug/L	175	5	250	12	0	0.5	12				0.05	175	0	4	2	0	16	0	0
1,2-Dichlorobenzene	ug/L	166	7	250	12	0	0.5	12	170000	0	0	600	0	0	30500	0	0	50000	0	0
1,2-Dichloroethane	ug/L	232	7	1300	12	1	0.5	12	2970	0	0	1	120	79	21	0	0	90	0	0
1,2-Dichloroethane-d4	ug/L	14	0	9.63		0														
1,2-Dichloroethene (Total)	ug/L	140	2	259.68	5	0	5	5												
1,2-Dichloropropane	ug/L	225	7	250	12	1	0.5	12				5	33	16	14	0	0	60	0	0
1,3,5-Trimethylbenzene	ug/L	145	5	250	12	0	0.5	12	710	0	0	350	0	0						
1,3-Dichlorobenzene	ug/L	166	7	250	12	0	0.5	12	26000	0	0	600	0	0	24200	0	0	50000	0	0
1,3-Dichloropropane	ug/L	157	5	250	12	0	0.5	12												
1,4-Dichlorobenzene	ug/L	166	7	250	12	0	0.5	12	26000	0	0	75	8	0	50000	0	0	50000	0	0
1,4-Dichlorobutene	ug/L	48	5	130	12	0	0.5	12				0.004	48	0						
1,4-Dioxane	ug/L	11	0	25		0						20	11	0						
1-Chlorohexane	ug/L	50	0	130		0														
2,2-Dichloropropane	ug/L	157	5	250	12	0	0.5	12												
2-Butanone (MEK)	ug/L	136	5	500	12	0	0.5	12	756000	0	0	400	2	0	50000	0	0	50000	0	0
2-Chlorotoluene	ug/L	166	7	250	12	0	0.5	12												
2-Hexanone	ug/L	154	5	500	12	0	0.5	12												
4-Bromofluorobenzene	ug/L	14	0	10.2		0														
4-Chlorotoluene	ug/L	166	7	250	12	0	0.5	12												
4-Methyl-2-pentanone (MIBK)	ug/L	154	5	500	12	0	0.5	12				350	2	0	50000	0	0	50000	0	0
Acetone	ug/L	137	5	6100	50	0	2	50				700	3	3	50000	0	0	50000	0	0
Acrylonitrile	ug/L	48	5	130	12	0	0.5	12	20	4	0	0.5	29	0						
Benzene	ug/L	204	5	250	12	0	0.5	12	710	0	0	1	52	8	215	0	0	530	0	0
Bromobenzene	ug/L	166	7	250	12	0	0.5	12												
Bromodichloromethane	ug/L	225	7	250	12	0	0.5	12				0.56	124	0						
Bromoform	ug/L	225	7	250	12	0	0.5	12	10800	0	0	4	51	0	920	0	0	3800	0	0
Bromomethane	ug/L	225	7	250	12	0	0.5	12				9.8	17	0						
Carbon disulfide	ug/L	154	5	130	50	0	0.5	50				700	0	0						
Carbon tetrachloride	ug/L	225	7	250	12	0	0.5	12	132	3	0	5	17	0	16	0	0	40	0	0
Chlorobenzene	ug/L	225	7	250	12	0	0.5	12	420000	0	0	100	5	0	1800	0	0	6150	0	0
Chlorobromomethane	ug/L	167	5	250	12	0	0.5	12												
Chloroethane	ug/L	225	7	250	12	0	0.5	12				2538	0	0						
Chloroform	ug/L	225	7	250	12	0	0.5	12	14100	0	0	6	22	5	287	0	0	710	0	0
Chloromethane	ug/L	225	7	250	12	0	0.5	12				2.7	51	0						
cis-1,2-Dichloroethene	ug/L	187	5	1100	19	2	0.5	12	31860	0	0	70	15	12						
cis-1,3-Dichloropropene	ug/L	225	7	250	12	0	0.5	12												
Dibromochloromethane	ug/L	225	7	250	12	0	0.5	12	1020	0	0	0.5	124	0						
Dibromomethane	ug/L	166	7	250	12	0	0.5	12												

TABLE F-1
GROUNDWATER PLUME G-5 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Dichlorodifluoromethane	ug/L	166	7	250	12	0	0.5	12												
Ethylbenzene	ug/L	204	5	250	12	0	0.5	12	580000	0	0	700	0	0	50000	0	0	50000	0	0
Hexachlorobutadiene	ug/L	157	5	250	12	0	0.5	12				0.45	145	0						
Isopropylbenzene	ug/L	145	5	250	12	0	0.5	12				30	8	0						
m+p-Xylenes	ug/L	175	0	250		0			702	0	0	530	0	0	21300	0	0	50000	0	0
Methyl methacrylate	ug/L	40	5	130	12	0	0.5	12												
Methylene chloride	ug/L	231	7	1210	110	1	2	50	48000	0	0	5	71	53	50000	0	0	50000	0	0
Methyl-t-butyl ether (MTBE)	ug/L	134	5	250	50	0	0.5	50	710	0	0	70	8	0	50000	0	0	50000	0	0
Naphthalene	ug/L	145	5	500	12	0	0.5	12	24	12	0	280	2	0						
n-Butylbenzene	ug/L	145	5	250	12	0	0.5	12	710	0	0	61	8	0						
n-Propylbenzene	ug/L	145	5	250	12	0	0.5	12				61	8	0						
o-Xylene	ug/L	204	5	250	12	0	0.5	12	702	0	0	530	0	0	21300	0	0	50000	0	0
p-isopropyl toluene	ug/L	145	5	250	12	0	0.5	12				30	9	1						
sec-Butylbenzene	ug/L	145	5	250	12	0	0.5	12	710	0	0	61	8	0						
Styrene	ug/L	204	5	250	12	0	0.5	12				100	5	0	580	0	0	2065	0	0
tert-Butylbenzene	ug/L	145	5	250	12	0	0.5	12	710	0	0	61	8	0						
Tetrachloroethene (PCE)	ug/L	231	7	9600	120	3	0.5	12	88	28	28	5	81	77	1500	0	0	3820	0	0
Tetrahydrofuran	ug/L	68	5	500	12	0	0.5	12				5	10	0						
Toluene	ug/L	205	5	4700	12	0	0.5	12	400000	0	0	1000	1	1	23500	0	0	50000	0	0
Toluene-d8	ug/L	14	0	11.1		0														
Total cVOC	ug/L	89	0	9242.16		0														
trans-1,2-Dichloroethene	ug/L	183	5	200	12	0	0.5	12				100	3	0						
trans-1,3-Dichloropropene	ug/L	225	7	250	12	0	0.5	12												
Trichloroethene (TCE)	ug/L	231	7	79000	200	3	0.5	12	2340	13	13	5	102	99	219	0	0	540	0	0
Trichlorofluoromethane	ug/L	166	7	250	12	0	0.5	12				1300	0	0						
Vinyl acetate	ug/L	36	0	4		0						410	0	0						
Vinyl chloride	ug/L	231	7	250	12	0	0.5	12	15750	0	0	2	57	0	2	5	0	2	5	0
Xylenes (Total)	ug/L	40	5	13	12	1	0.5	12	702	0	0	530	0	0	21300	0	0	50000	0	0
ETPH	mg/L	32	0	0.5		0						0.1	21	4						
TPH	mg/L	12	0	0.47		0						0.5	0	0						
2-Methylnaphthalene	ug/L	1	0	0.059		0						49	0	0						
Acenaphthene	ug/L	1	0	0.059		0			6.1	0	0	420	0	0						
Acenaphthylene	ug/L	1	0	0.059		0			0.3	0	0	420	0	0						
Anthracene	ug/L	1	0	0.059		0			110000	0	0	2000	0	0						
Benzo(a)anthracene	ug/L	1	0	0.059		0			0.3	0	0	0.06	0	0						
Benzo(a)pyrene	ug/L	1	0	0.059		0			0.3	0	0	0.2	0	0						
Benzo(b)fluoranthene	ug/L	1	0	0.059		0			0.3	0	0	0.08	0	0						
Benzo(g,h,i)perylene	ug/L	1	0	0.059		0			4.92	0	0	210	0	0						
Benzo(k)fluoranthene	ug/L	1	0	0.059		0			0.3	0	0	0.5	0	0						
Chrysene	ug/L	1	0	0.059		0			4.92	0	0	4.8	0	0						
Dibenzo(a,h)anthracene	ug/L	1	0	0.059		0			0.01	1	0	0.2	0	0						
Fluoranthene	ug/L	1	0	0.059		0			3700	0	0	280	0	0						
Fluorene	ug/L	1	0	5.9		0			140000	0	0	280	0	0						
Indeno(1,2,3-cd)pyrene	ug/L	1	0	0.059		0			0.49	0	0	0.2	0	0						
Naphthalene	ug/L	1	0	5.9		0			24	0	0	280	0	0						
Phenanthrene	ug/L	1	0	0.059		0			0.3	0	0	200	0	0						
Pyrene	ug/L	1	0	0.059		0			110000	0	0	200	0	0						
Chromium, hexavalent (dissolved)	mg/L	26	2	0.12	0.01	0	0.01	0.01	0.11	1	1									
Chromium, total (dissolved)	mg/L	20	2	0.095	0.005	0	0.005	0.005				0.1	0	0						
Chromium, trivalent (dissolved)	mg/L	8	0	0.01		0			1.2	0	0									
Iron (dissolved)	mg/L	6	0	2.48		0														
Manganese (dissolved)	mg/L	6	0	0.058		0														

TABLE F-1
GROUNDWATER PLUME G-5 SUMMARY STATISTICS
Kaman Aerospace Corporation; Bloomfield, Connecticut

Parameter	Units	Total No Samples	Total No Shallow Samples (less then 15 ft)	Max Concentration (All Samples)	Max Concentration (less then 15 ft)	No Detects greater then Detection Limit (less then 15 ft)	Min Detection Limit (less then 15 ft)	Max Detection Limit (less then 15 ft)	SWPC Criteria	Total No Samples > SWPC	Detected Samples > SWPC	GWPC Criteria	Total No Samples > GWPC	Detected Samples > GWPC	R-GWVC Criteria	Total No Samples > R-GWVC (less then 15 ft)	Detected Samples > R-GWVC (less then 15 ft)	I/C GWVC Criteria	Total No Samples > I/C GWVC (less then 15 ft)	Detected Samples > I/C GWVC (less then 15 ft)
Aluminum	mg/L	3	0	183		0			121.4	1	1									
Antimony	mg/L	4	0	0.0096		0			86	0	0	0.006	2	2						
Arsenic	mg/L	6	0	0.05		0			0.004	4	2	0.01	3	2						
Barium	mg/L	4	0	2.85		0			4.54	0	0	1	3	3						
Beryllium	mg/L	5	0	0.008		0			0.004	1	1	0.004	1	1						
Cadmium	mg/L	4	0	0.005		0			0.006	0	0	0.005	0	0						
Calcium	mg/L	6	0	306		0														
Chromium, hexavalent	mg/L	33	2	0.3	0.01	0	0.01	0.01	0.11	2	2									
Chromium, total	mg/L	21	2	2.96	0.005	0	0.005	0.005				0.1	5	5						
Chromium, trivalent	mg/L	8	0	0.396		0			1.2	0	0									
Cobalt	mg/L	6	0	0.12		0						0.01	4	3						
Copper	mg/L	8	0	0.27		0			0.048	3	3	1.3	0	0						
Iron	mg/L	9	0	318		0														
Lead	mg/L	7	0	0.11		0			0.013	3	3	0.015	3	3						
Magnesium	mg/L	9	0	108		0														
Manganese	mg/L	11	0	6.4		0														
Mercury	mg/L	4	0	0.001		0			0.0004	1	0	0.002	0	0						
Nickel	mg/L	7	0	1.38		0			0.88	2	2	0.1	3	3						
Potassium	mg/L	6	0	331		0														
Selenium	mg/L	5	0	0.05		0			0.05	0	0	0.05	0	0						
Silver	mg/L	4	0	0.01		0			0.012	0	0	0.036	0	0						
Sodium	mg/L	11	0	574		0														
Thallium	mg/L	4	0	0.0054		0			0.063	0	0	0.005	2	0						
Vanadium	mg/L	6	0	0.39		0						0.05	3	3						
Zinc	mg/L	7	0	0.66		0			0.123	3	3	5	0	0						

GW Wells Immediately Upgradient of Surface Water
Table F-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2
Station	a	b	BEAM-GW-1	BEAM-GW-1	BEAM-GW-1	BEAM-GW-2	BEAM-GW-2	BEAM-GW-3	BEAM-GW-3	BEAM-GW-4	BEAM-GW-4	BEAM-GW-5
Upper Depth (ftbg)			11	19	25	14	23	5	11	10	17	14
Lower Depth (ftbg)			12	20	26	15	24	6	12	11	18	15
Date Sampled			11/16/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
VOCs (µg/L)												
Acetone	700		2 U	4 U	2 U	50 U	67	20 U	10 U	50 U	50 U	20 U
Acrylonitrile	0.5	20	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Benzene	1	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Bromobenzene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Bromodichloromethane	0.56		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
4-Bromofluorobenzene												
Bromoform	4	10800	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Bromomethane	9.8		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
2-Butanone (MEK)	400	756000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
t-Butyl alcohol												
n-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
sec-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
tert-Butylbenzene	61	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Carbon disulfide	700		0.5 U	1 U	0.5 U	50 U	50 U	5 U	2.5 U	50 U	50 U	5 U
Carbon tetrachloride	5	132	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Chlorobenzene	100	420000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Chloroethane	2538		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Chloroform	6	14100	0.5 U	1 U	1	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Chloromethane	2.7		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
2-Chlorotoluene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
4-Chlorotoluene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Dibromochloromethane	0.5	1020	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Dibromofluoromethane												
Dibromomethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2-Dichlorobenzene	600	170000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,3-Dichlorobenzene	600	26000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,4-Dichlorobenzene	75	26000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,4-Dichlorobutene	0.004		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Dichlorodifluoromethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,1-Dichloroethane	70	2538	0.5 U	3	4	12 U	12 U	5 U	4	12 U	12 U	5 U
1,2-Dichloroethane	1	2970	0.5 U	4 a	3 a	12 U	26 a	5 U	4 a	12 U	12 U	5 U
1,2-Dichloroethene (Total)												
cis-1,2-Dichloroethene	70	31860	0.5 U	5	2	15	12 U	19	14	12 U	20	12
trans-1,2-Dichloroethene	100		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,1-Dichloroethene	7	96	0.5 U	2	2	12 U	12 U	5 U	9 a	12 U	12 U	5 U
Dichlorofluoromethane												
1,3-Dichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
2,2-Dichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2-Dichloropropane	5		0.5 U	2	3	12 U	12 U	5 U	7 a	12 U	12 U	5 U
1,1-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
cis-1,3-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
trans-1,3-Dichloropropene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Diisopropyl ether (DIPE)												
1,4-Dioxane	20											
Ethyl ether												
Ethyl tert-butyl ether												
Ethylbenzene	700	580000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Hexachlorobutadiene	0.45		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
2-Hexanone			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Isopropylbenzene	30		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Methane												
4-Methyl-2-pentanone (MIBK)	350		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Methylene chloride	5	48000	2 U	4 U	2 U	92 a	61 a	20 U	10 U	110 a	95 a	20 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U	1	0.5 U	50 U	50 U	5 U	2.5 U	50 U	50 U	5 U
Naphthalene	280	24	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
n-Propylbenzene	61		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Styrene	100		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Tert-amyl methyl ether												

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table F-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2	BEAM TRIB A2
Station	a	b	BEAM-GW-1	BEAM-GW-1	BEAM-GW-1	BEAM-GW-2	BEAM-GW-2	BEAM-GW-3	BEAM-GW-3	BEAM-GW-4	BEAM-GW-4	BEAM-GW-5
Upper Depth (ftbg)			11	19	25	14	23	5	11	10	17	14
Lower Depth (ftbg)			12	20	26	15	24	6	12	11	18	15
Date Sampled			11/16/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009	11/16/2009	11/13/2009	11/13/2009	11/16/2009
Aliquot			SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK	SA-YK
1,1,1,2-Tetrachloroethane	1		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Tetrachloroethene (PCE)	5	88	0.5 U	22 a	5	31 a	12 U	120 a b	76 a	47 a	19 a	90 a b
Tetrahydrofuran	5		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Toluene	1000	400000	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
p-isopropyl toluene	30		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2,3-Trichlorobenzene			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2,4-Trichlorobenzene	70		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	1 U	1	12 U	12 U	5 U	4	12 U	12 U	5 U
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	3	2	12 U	12 U	5 U	7 a	12 U	12 U	5 U
Trichloroethene (TCE)	5	2340	0.5 U	45 a	14 a	50 a	21 a	200 a	150 a	72 a	140 a	200 a
Trichlorofluoromethane	1300		0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2,3-Trichloropropane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,1,2-Trichlorotrifluoroethane			0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
1,2,4-Trimethylbenzene	350	710	0.5 U	1 U	0.5 U	12 U	14	5 U	3	12 U	12 U	5 U
1,3,5-Trimethylbenzene	350	710	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Vinyl chloride	2	15750	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
m+p-Xylenes	0.53	702										
o-Xylene	530	702	0.5 U	1 U	0.5 U	12 U	12 U	5 U	2.5 U	12 U	12 U	5 U
Xylenes (Total)	530	702	0.5 U	1 U	0.5 U	12 U	13	5 U	3	12 U	12 U	5 U

Detection limit basis: RL

See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table F-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

Survey Area	GWPC	SWPC	BEAM TRIB A2
Station	a	b	BEAM-GW-5
Upper Depth (ftbg)			20
Lower Depth (ftbg)			21
Date Sampled			11/16/2009
Aliquot			SA-YK
VOCs (µg/L)			
Acetone	700		2 U
Acrylonitrile	0.5	20	0.5 U
Benzene	1	710	0.5 U
Bromobenzene			0.5 U
Bromodichloromethane	0.56		0.5 U
4-Bromofluorobenzene			
Bromoform	4	10800	0.5 U
Bromomethane	9.8		0.5 U
2-Butanone (MEK)	400	756000	0.5 U
t-Butyl alcohol			
n-Butylbenzene	61	710	0.5 U
sec-Butylbenzene	61	710	0.5 U
tert-Butylbenzene	61	710	0.5 U
Carbon disulfide	700		0.5 U
Carbon tetrachloride	5	132	0.5 U
Chlorobenzene	100	420000	0.5 U
Chloroethane	2538		0.5 U
Chloroform	6	14100	0.5 U
Chloromethane	2.7		0.5 U
2-Chlorotoluene			0.5 U
4-Chlorotoluene			0.5 U
1,2-Dibromo-3-chloropropane (DBCP)			0.5 U
Dibromochloromethane	0.5	1020	0.5 U
1,2-Dibromoethane (EDB)	0.05		0.5 U
Dibromofluoromethane			
Dibromomethane			0.5 U
1,2-Dichlorobenzene	600	170000	0.5 U
1,3-Dichlorobenzene	600	26000	0.5 U
1,4-Dichlorobenzene	75	26000	0.5 U
1,4-Dichlorobutene	0.004		0.5 U
Dichlorodifluoromethane			0.5 U
1,1-Dichloroethane	70	2538	0.5 U
1,2-Dichloroethane	1	2970	0.5 U
1,2-Dichloroethene (Total)			
cis-1,2-Dichloroethene	70	31860	2
trans-1,2-Dichloroethene	100		0.5 U
1,1-Dichloroethene	7	96	0.5 U
Dichlorofluoromethane			
1,3-Dichloropropane			0.5 U
2,2-Dichloropropane			0.5 U
1,2-Dichloropropane	5		0.5 U
1,1-Dichloropropene			0.5 U
cis-1,3-Dichloropropene			0.5 U
trans-1,3-Dichloropropene			0.5 U
Diisopropyl ether (DIPE)			
1,4-Dioxane	20		
Ethyl ether			
Ethyl tert-butyl ether			
Ethylbenzene	700	580000	0.5 U
Hexachlorobutadiene	0.45		0.5 U
2-Hexanone			0.5 U
Isopropylbenzene	30		0.5 U
Methane			
4-Methyl-2-pentanone (MIBK)	350		0.5 U
Methylene chloride	5	48000	2 U
Methyl-t-butyl ether (MTBE)	70	710	0.5 U
Naphthalene	280	24	0.5 U
n-Propylbenzene	61		0.5 U
Styrene	100		0.5 U
Tert-amyl methyl ether			

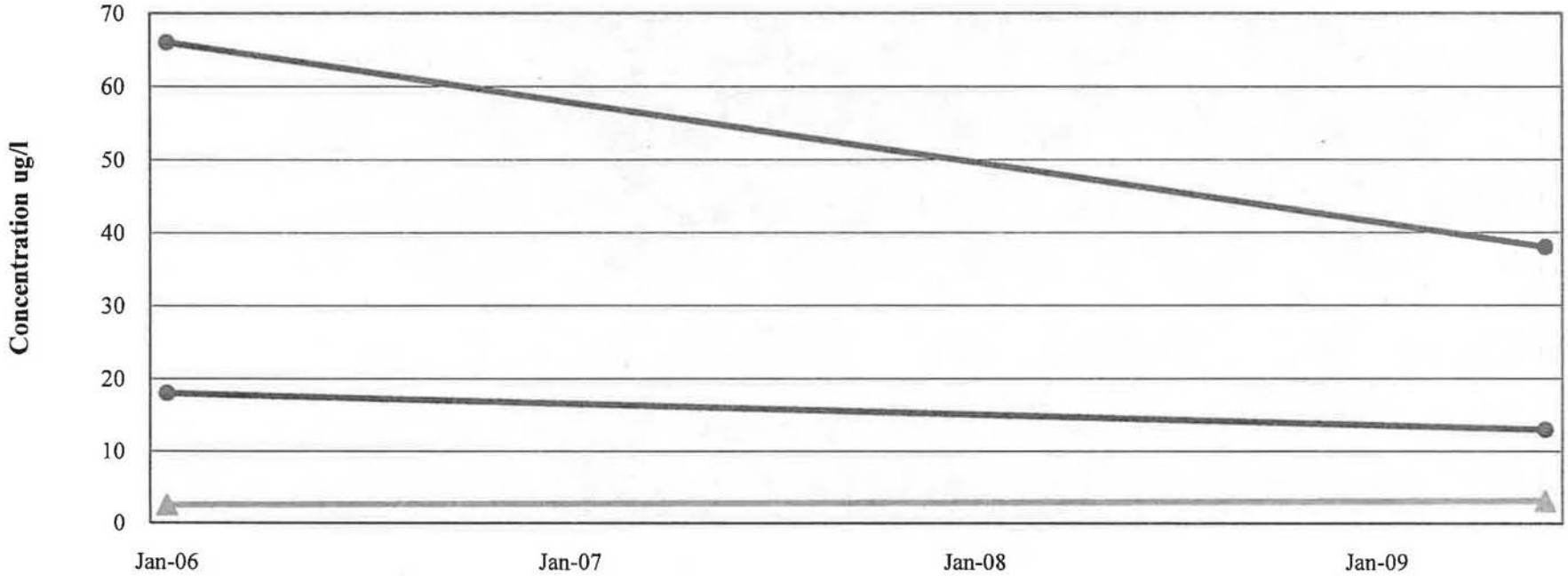
See Attached Notes. Blank results indicate chemical not analyzed.

GW Wells Immediately Upgradient of Surface Water
Table F-2
Summary of VOCs
Kaman Aerospace (Former NWIRP); Bloomfield, Connecticut

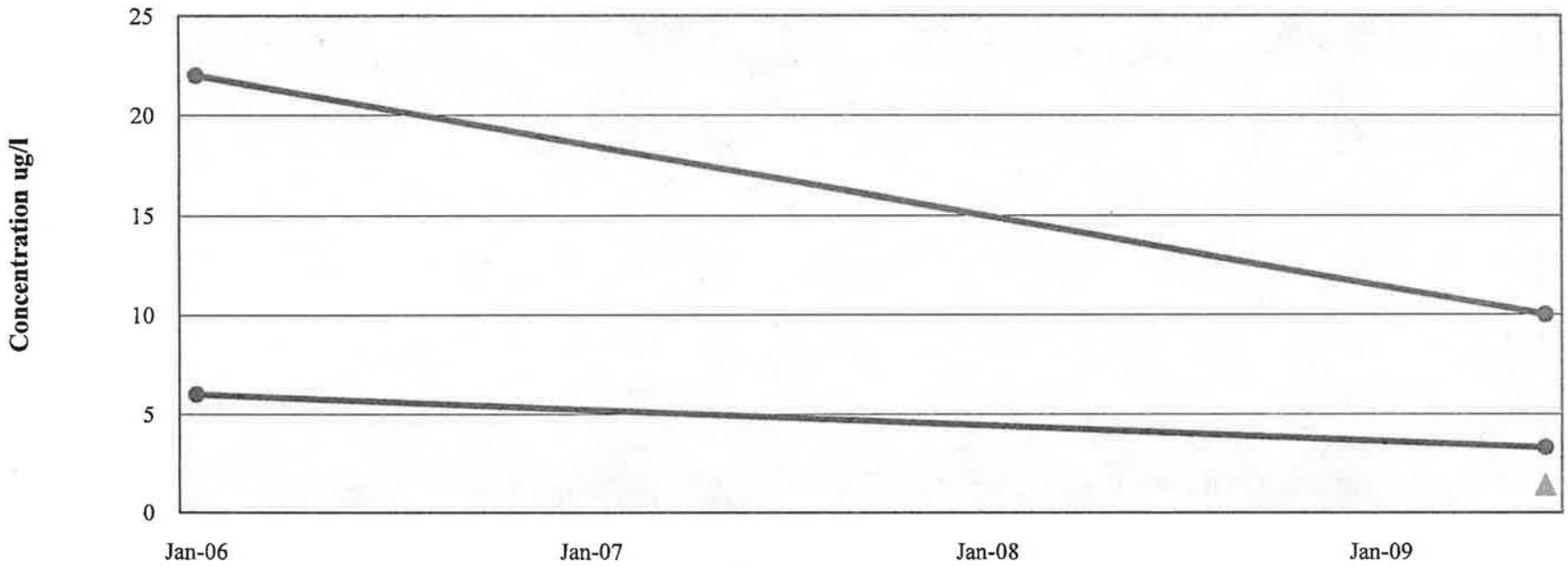
Survey Area	GWPC	SWPC	BEAM TRIB A2	
Station	a	b	BEAM-GW-5	
Upper Depth (ftbg)			20	
Lower Depth (ftbg)			21	
Date Sampled			11/16/2009	
Aliquot			SA-YK	
1,1,1,2-Tetrachloroethane	1		0.5 U	
1,1,2,2-Tetrachloroethane	0.5	110	0.5 U	
Tetrachloroethene (PCE)	5	88	6	a
Tetrahydrofuran	5		0.5 U	
Toluene	1000	400000	1	
p-isopropyl toluene	30		0.5 U	
1,2,3-Trichlorobenzene			0.5 U	
1,2,4-Trichlorobenzene	70		0.5 U	
1,1,1-Trichloroethane (TCA)	200	62000	0.5 U	
1,1,2-Trichloroethane (TCA)	5	1260	0.5 U	
Trichloroethene (TCE)	5	2340	24	a
Trichlorofluoromethane	1300		0.5 U	
1,2,3-Trichloropropane			0.5 U	
1,1,2-Trichlorotrifluoroethane			0.5 U	
1,2,4-Trimethylbenzene	350	710	0.5 U	
1,3,5-Trimethylbenzene	350	710	0.5 U	
Vinyl chloride	2	15750	0.5 U	
m+p-Xylenes	0.53	702		
o-Xylene	530	702	0.5 U	
Xylenes (Total)	530	702	0.5 U	

Detection limit basis: RL

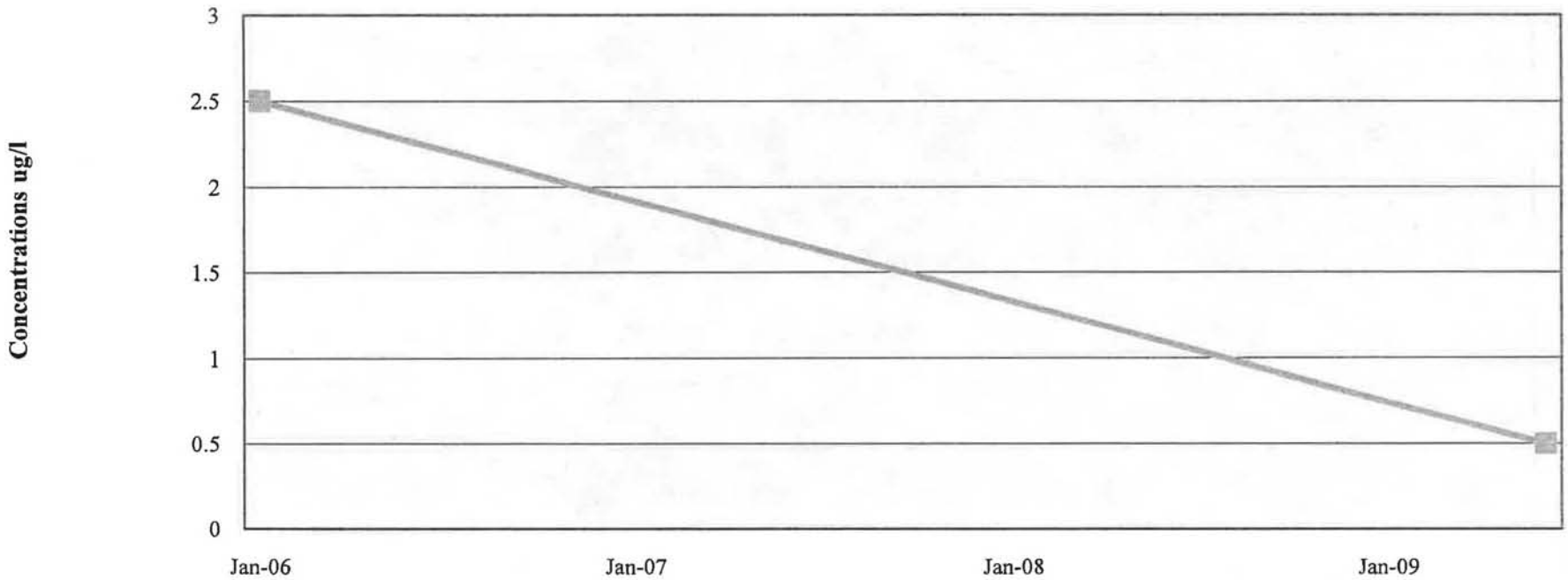
See Attached Notes. Blank results indicate chemical not analyzed.



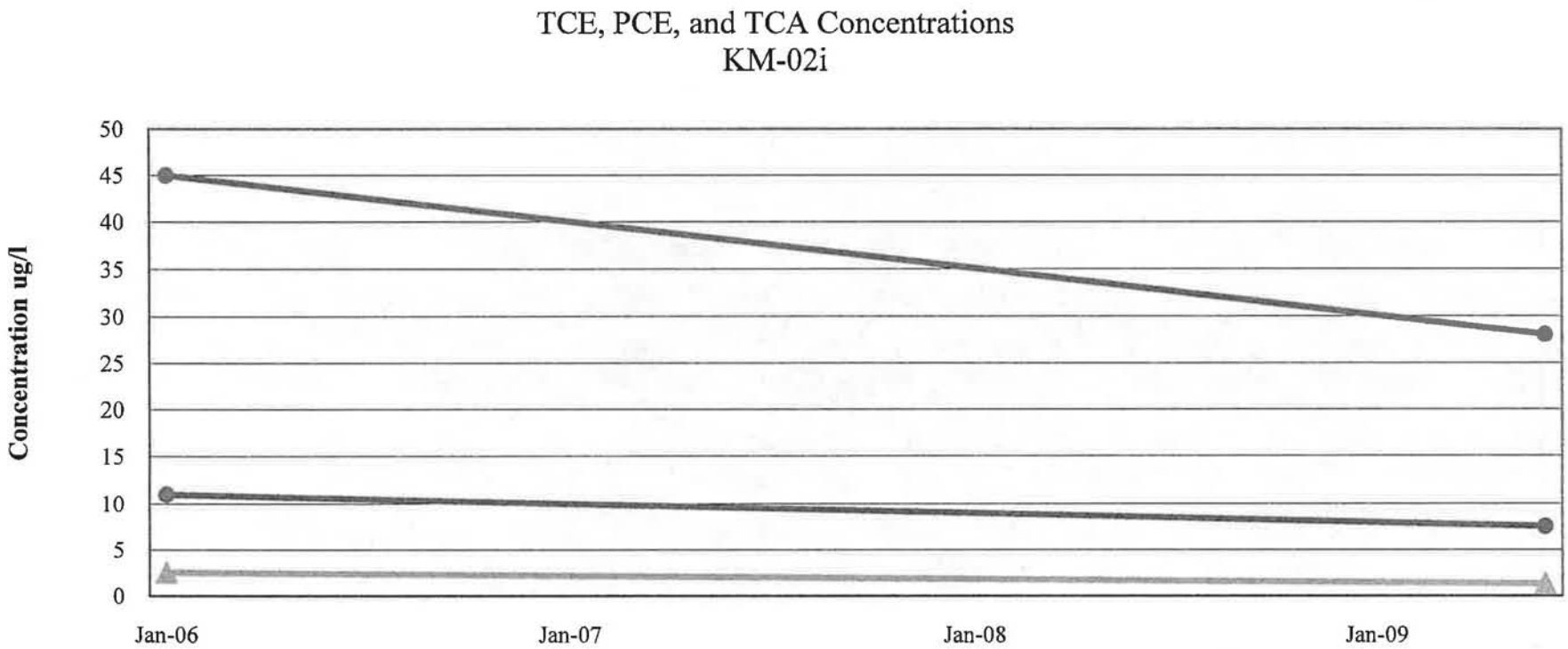
	01/24/06	06/26/09
TCE	66	38
PCE	18	13
TCA	2.5	3.1



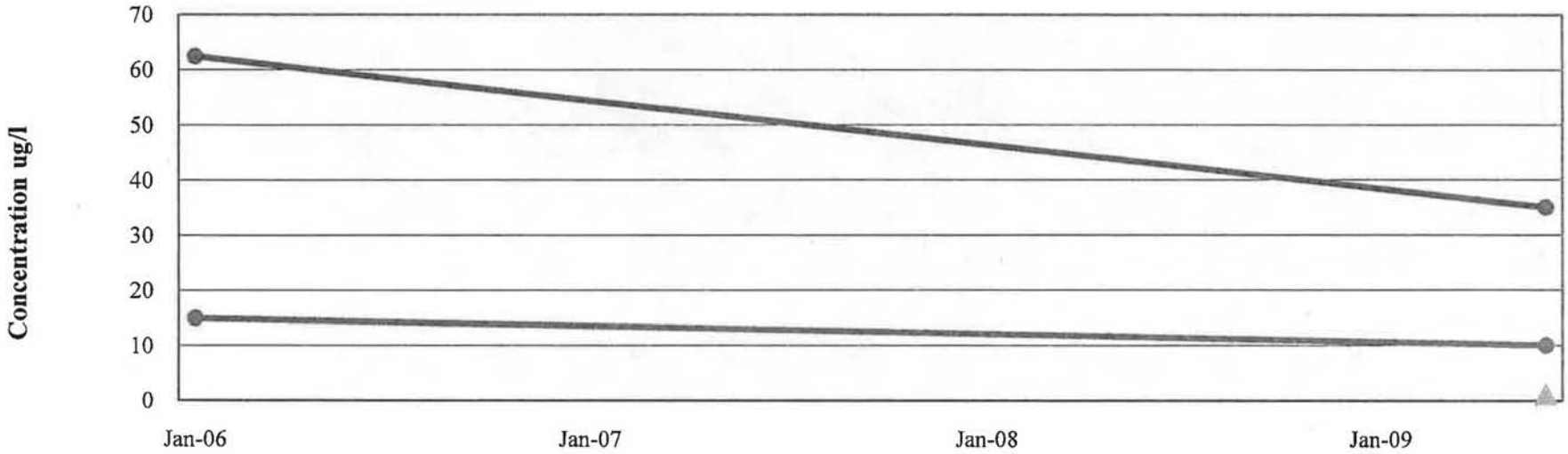
	01/24/06	06/26/09
1,1-DCA	22	10
1,1-DCE	6	3.3
cis 1,2-DCE		1.4



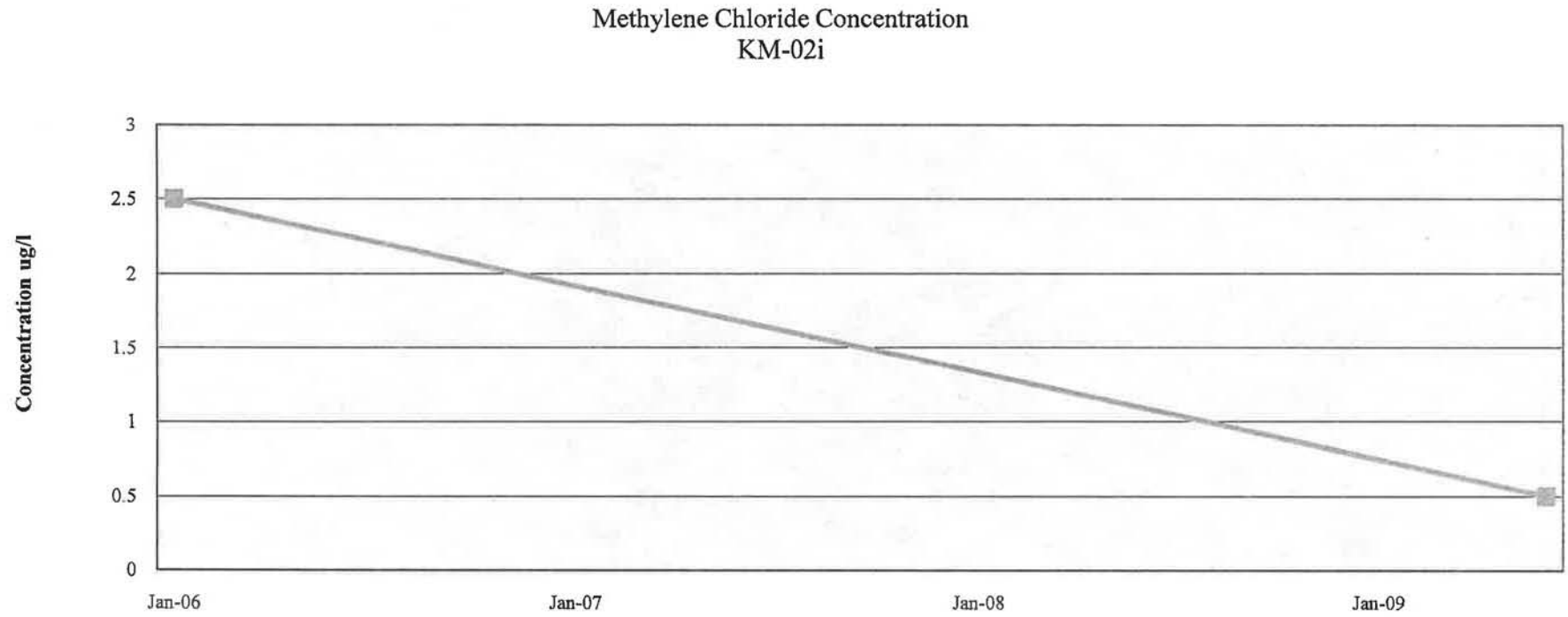
	01/24/06	06/26/09
Methylene Chloride	2.5	0.5



	01/26/06	06/26/09
TCE	45	28
PCE	11	7.5
TCA	2.5	1.3



	01/26/06	06/26/09
1,1-DCA	15	10
1,1-DCE	62.4	35
cis 1,2-DCE		1.2



	01/26/06	06/26/09
Methylene Chloride	2.5	0.5