US Army Corps of Engineers Sacramento District
Hawthorne Army Depot
Hawthorne, Nevada

Decision Document
Solid Waste Management Unit I18
Building 104-2 Hydrocarbon Spill

April 2002

TETRA TECH
180 Howard Street, Suite 250
San Francisco, CA 94105

DEPARTMENT OF THE ARMY
HAWTHORNE ARMY DEPOT
1 SOUTH MAINE AVENUE
HAWTHORNE, NV 89415-9404

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ENVIRONMENTAL
PROTECTION

02 MAY -3 PM 2:00

REPLY TO
ATTENTION OF

0 2 MAY 2002

Special Staff - Environmental

Mr. Eric Noack
Division of Environmental Protection
Bureau of Federal Facilities
333 West Nye Lane
Carson City, Nevada 89706-0851

Dear Mr. Noack:

Reference Decision Document, HWAAP-I18, Building 104-2 Hydrocarbon Spill, Hawthorne Army Depot, Hawthorne, Nevada, April 2002 (enclosure).

Referenced Decision Document is provided for your information and action. Request after your review and approval, a copy of the signed signature page be returned to HWAD in order to show response completed to higher headquarters.

Point of contact is Mr. Herman Millsap, SOSHW-ENV, (775) 945-7317.

Sincerely,

Florentino F. Cardenas
Civilian Executive Assistant

Enclosure

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ENVIRONMENTAL PROTECTION

Decision Document SWMU I18
April 2002

The selected remedy is protective of human health and the environment. It has been shown that a complete pathway to human health and the environment does not exist, and there is no potential for an exposure pathway to be completed in the future.

US Army

30 APR 2002

Anne L. Davis
Lieutenant Colonel, US Army
Commanding

State of Nevada

5 July 2002

Paul Liebendorfer
Chief, Bureau of Federal Facilities

Decision Document for Closure of
Solid Waste Management Unit I18
Hawthorne Army Depot
Hawthorne, Nevada

1 INTRODUCTION

This decision document describes the rationale for the proposed closure of solid waste management unit (SWMU) I18, Building 104-2 Hydrocarbon Spill at the Hawthorne Army (HWAD), Hawthorne, Nevada. This SWMU is adjacent to a diesel-powered boiler in Building 104-2, where the underground storage tank for the diesel is northeast of the building. Tetra Tech, Inc. (Tt) prepared this document with the help of the US Army Corps of Engineers, Sacramento District (USACE) and HWAD for the Nevada Department of Environmental Protection (NDEP), the lead regulatory agency for environmental issues at HWAD.

Tt has performed remedial investigations and groundwater monitoring at HWAD since 1993, primarily at SWMUs designated by the Army and the NDEP. The purpose of the sampling was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts and to report the findings, to present conclusions, and to recommend remediation, if necessary.

With guidance from the NDEP, Tt initially established basewide proposed closure goals (PCGs) for soil as acceptable levels so that SWMU closure could be recommended and to help direct the investigative efforts toward those SWMUs where the target analytes were of greatest concern. Since 1996, the NDEP has adopted the USEPA Region IX proposed remediation goals (PRGs) as action levels for hazardous waste chemicals in soil, as sited in the Nevada Administrative Code (NAC) Section 445A. One of the chemicals of concern at SWMU I18 is total petroleum hydrocarbons (TPH), which does not have a PRG action level. The previously initiated HWAD PCG for TPH of 100 mg/kg is equivalent NDEP action level for TPH listed in the NAC Section 445A.2272, and it will be used as the action level for comparison of the concentrations of this chemical of concern found in the soils at this site. Also, Tt established HWAD-specific groundwater action levels as acceptable concentrations to determine if further action would be required for analytes of concern in the groundwater. These action levels were used to guide the investigations and remedial actions and to compare them with the detected analytes in this report (see Appendix A).

2 SITE HISTORY

During Tt's 1993 site inspection of SWMU I18, several pipes were found originating from the southwest side of Building 104-2, including an insulated steam line. These pipes terminated at the SWMU and may have been connected to a tank or boiler that has since been removed. Three underground vaults were found with metal covers containing high voltage electrical lines and transformers, which were labeled as containing polychlorinated biphenyl (PCBs). The soil berm at SWMU I18 is approximately three feet high and was reportedly designed to prevent surface

water from flooding this area and the underground vaults, which are topographically lower than the surrounding ground surface (Tt 1993).

The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. As part of Tt's field investigation, SWMU I18 was surveyed and survey monuments were constructed. A brass survey pin on the monument designates it as HWAAP-42-1996 and includes the SWMU number I18. Two corner pins were set and surveyed to define the SWMU boundary, with the monument as the north corner. The location of these corner markers and the SWMU boundary are shown on Figure 2. Survey data is presented in Appendix B.

During Tt's 2000 annual groundwater monitoring (Tt 2001), the groundwater elevation was measured at approximately 4,075 feet above mean sea level (msl) in monitoring wells IRPMW51 and IRPMW52. These wells are approximately 2,800 feet northwest (downgradient) of SWMU I18 in an area of relatively flat groundwater gradient at approximately 0.004 foot per foot. Based on this data, the calculated groundwater elevation at SWMU I18 is 4,088 above msl. Because the ground surface elevation at this SWMU is 4,300 above msl, the groundwater beneath SWMU I18 is at a depth of approximately 215 feet below ground surface (bgs).

3 SITE CONDITIONS

SWMU I18 is in the southern portion of HWAD's central magazine area in the 104 Building Group, approximately 3,600 feet north of US Highway 95 and approximately 1,300 feet east of Corey Road (Figure 1). This SWMU is the open area between Building 104-2 and a low soil berm to the south and east of the building (Figure 2).

SWMU I18 is adjacent to Building 104-2, which contains a diesel-powered boiler. The diesel fuel is stored in an underground storage tank northeast of the building. The boiler reportedly has been in operation since the early 1940s (Tt 1993). During a site inspection in June 1991, the NDEP observed hydrocarbon-stained surface soils west of Building 104-2 and a liquid that was dripping from a pipe and flowing into a vault on the northwest side of this building. The standing water from this flow was described as having a significant hydrocarbon sheen.

4 INVESTIGATIONS

Resource Application, Inc. (RAI) inspected SWMU I18 in 1992 (RAI 1992) and observed no hydrocarbon-stained soil nor liquids being released. RAI conducted no investigation activities and collected no samples at that time. No other previous soil or groundwater investigations have been performed at SWMU I18.

During Tt's 1994 remedial investigation, Norcal Geophysical Consultants, Inc., of Petaluma, California, performed a surface ground penetrating radar (SGPR) survey. Norcal found several pipes that terminated at this SWMU and that might have been connected to either a UST or a boiler. Norcal also found several underground utility vaults that contained transformers with PCBs and high voltage electrical lines. The SGPR survey at SWMU I18 was conducted to locate

any USTs or additional utility vaults that were not observed during the site inspection. Both USTs and underground utility vault locations are potential areas where the target analytes for this SWMU have been released. Norcal surveyed the 6,400-square-foot area with traverses, spaced ten feet apart. Norcal did not find any evidence of a UST and found only the underground utilities previously located during the site inspections. Tt used the results of this SGPR survey to avoid underground utilities during subsurface soil sampling but did not use them to direct the soil sampling tasks.

Tt observed no surface soil staining during the 1994 and 1997 remedial investigations and collected no surface soil samples.

During the 1994 investigation, Tt collected 34 near-surface soil samples, I18-HA01-1-S through I18-HA16-2-S (which included two sets of collocated duplicate samples), using a hand auger to assess potential near-surface releases of TPH and PCBs. All of the analytical results for these soil samples are included in Appendix C. These hand auger soil samples were collected at depths ranging from one to five feet bgs. At four locations the planned sampling program of collecting two soil samples at each hand auger location was not completed because either the unconsolidated soil would fill the boring before a sample could be collected or because refusal was encountered and the boring could not be advanced to the planned depth. An on-site USACE-approved mobile laboratory analyzed these samples. Most of these samples were screened using the enzyme immunoassay test kits by US Environmental Protection Agency (USEPA) Draft Method 4020 for the semiquantitative analysis of PCBs in soil.

During Tt's 1997 remedial investigation of SWMU I18, Tt drilled four hollow-stem auger (HSA) soil borings, SB02 through SB05, to collect four subsurface soil samples per boring. SB01 and SB02 were first drilled in 1994, using the cone penetrometer test (CPT) method, to collect stratigraphic sounding data only. HSA sample boring SB02 was drilled at the same location as CPT sounding SB02, but sample borings SB03, SB04, and SB05 were drilled at newly designated locations, based on the results of the near-surface soil sample analytical data and the safe accessibility of advancing the HSA borings without encountering the underground utilities at this SWMU. Tt collected these eighteen subsurface soil samples, including two collocated duplicate samples, from fine-grained intervals at depths from 10.5 to 39.5 feet bgs and screened them, using the enzyme immunoassay test kits, by USEPA Draft Method 4030 for the semiquantitative analysis of TPH in soil. All of the analytical results for these samples are included in Appendix C.

5 INVESTIGATION RESULTS

The site inspections of SWMU I18 revealed several pipes that terminated at this SWMU and that appeared to be associated with a fuel tank or a boiler associated with the boiler operations in the adjacent Building 104-2. The boiler in this building reportedly used diesel fuel. These inspections also revealed three underground utility vaults, which contained high voltage electrical lines and transformers labeled as containing PCBs. Therefore, the target analytes for SWMU I18 were designated to be TPH as diesel (TPH-d) and PCBs.

During its SGPR survey at SWMU I18, Norcal found no anomalies that could be interpreted as USTs for diesel storage or additional utility vaults with PCB transformers; therefore, no additional sources of TPH-d or PCBs were found, based on the SGPR survey.

Tt found no PCBs in any of the near-surface or subsurface soil samples collected during our 1994 and 1997 remedial investigations; therefore, PCBs do not appear to have been released at this SWMU, and no remediation of the soils at SWMU I18 is necessary with regard to PCBs.

TPH-d was found in ten of the 34 near-surface soil samples collected from the 16 hand auger locations, indicating a widespread area affected by releases of diesel (Table 5-1). These concentrations of TPH-d ranged from <0.2 mg/kg to 1,600 mg/kg. Three of these ten samples contained TPH-d concentrations greater than the TPH-d PCG of 100 mg/kg and greater than the NAC action level for TPH. These samples were collected from hand auger locations HA02 and HA06, in the area with the greatest soil contamination (Figure 2).

Based on the soil sample results from hand auger locations HA02 and HA06, the lateral extent of the TPH-affected soils was defined in the central area of SWMU I18. Soil borings SB04 and SB05 were drilled in this area to define the vertical extent of the contamination. Samples from soil boring SB04 contained no detectable concentrations of TPH at a depth of 20 feet, and samples from soil boring SB05 at a depth of 20 feet contained no detectable concentrations of TPH as gasoline or TPH-d; however, this latter sample contained moderate concentrations of TPH as motor oil and heavy oil (Table 5-1). Therefore, the lateral and vertical extents of the TPH-affected soil that are greater than the action level are in the vicinity of hand auger locations HA02 and HA06, to a depth greater than two feet and less than 20 feet. These extents appear to be adequately defined and no additional investigation of TPH is recommended at SWMU I18.

The area where the TPH-contaminated soil exceeded the action level is near the underground utility vaults and high voltage power lines south of Building 104-2. Excavating and removing these soils would likely be costly and could be hazardous because of these utilities; therefore, Tt does not recommend the excavation and soil removal alternative for this SWMU with regard to the concentrations of TPH in the near-surface soils.

The groundwater samples collected from the monitoring wells in the vicinity of SWMU I18 did not contain volatile organic compounds (VOCs) or semivolatile organic compounds (SVOCs) that are commonly associated with diesel, and the vertical extent of the diesel-affected soil extends to only 20 feet bgs, with groundwater at an estimated depth of greater than 200 feet bgs. Also, no PCBs were found in any of the groundwater samples collected from these wells, and no PCBs were found in any of the soil samples collected at this SWMU. The groundwater results for these two wells are included in Appendix C.

Although the monitoring wells referred to in this evaluation are not at the SWMU, there is insufficient evidence to justify additional groundwater investigations. Therefore, neither of these two potential chemicals of potential concern (COPCs) appears to have affected the groundwater

Table 5-1
Summary of TPH Results in Soil Samples
SWMU I18 – Building 104-2 Hydrocarbon Spill

Sample ID	Location ID	Sample Date	Depth	C8-C10 (Gasoline)	C11-C22 (Diesel)	C23-C30 (Motor oil)	C31-C40 (Heavy oil)
				mg/kg	mg/kg	mg/kg	mg/kg
Hand-auger Samples							
I18-HA01-1-S	HA01	7/26/1994	1	NA	<0.2	NA	NA
I18-HA02-1-S	HA02	7/26/1994	2	NA	**1600**	NA	NA
I18-HA02-2-S	HA02	7/26/1994	5	NA	**1400** J	NA	NA
I18-HA03-1-S	HA03	7/26/1994	2	NA	1.3 J	NA	NA
I18-HA03-2-S	HA03	7/26/1994	5	NA	<0.2 J	NA	NA
I18-HA04-1-S	HA04	7/26/1994	2	NA	<0.2	NA	NA
I18-HA05-1-S	HA05	7/26/1994	2.5	NA	<0.2	NA	NA
I18-HA05-2-S	HA05	7/26/1994	5	NA	<0.2	NA	NA
I18-HA06-1-S	HA06	7/27/1994	2	NA	38	NA	NA
I18-HA06-2-S	HA06	7/27/1994	5	NA	470	NA	NA
I18-HA07-1-S	HA07	7/27/1994	2.5	NA	<1	NA	NA
I18-HA07-2-S	HA07	7/27/1994	5	NA	<0.2	NA	NA
I18-HA08-1-S	HA08	7/27/1994	2	NA	<1	NA	NA
I18-HA08-2-S	HA08	7/27/1994	5	NA	<0.2	NA	NA
I18-HA09-1-S	HA09	7/27/1994	2	NA	1.6	NA	NA
I18-HA10-1-S	HA10	7/27/1994	2.5	NA	4.4 J	NA	NA
I18-DP151	HA10	7/27/1994	2.5	NA	11.9 J	NA	NA
I18-HA10-2-S	HA10	7/27/1994	5	NA	3.5	NA	NA
I18-DP155	HA10	7/27/1994	5	NA	8.2 J	NA	NA
I18-HA11-1-S	HA11	7/28/1994	2	NA	<0.2	NA	NA
I18-HA11-2-S	HA11	7/28/1994	5	NA	<0.2	NA	NA
I18-HA12-1-S	HA12	7/28/1994	2	NA	<1	NA	NA
I18-HA13-1-S	HA13	7/28/1994	2	NA	<1	NA	NA
I18-HA13-2-S	HA13	7/28/1994	5	NA	<1	NA	NA
I18-HA14-1-S	HA14	7/28/1994	2	NA	<1	NA	NA
I18-HA14-2-S	HA14	7/28/1994	5	NA	<0.2	NA	NA
I18-HA15-1-S	HA15	7/28/1994	2	NA	<1	NA	NA
I18-HA15-2-S	HA15	7/28/1994	5	NA	<1	NA	NA
I18-HA16-1-S	HA16	7/28/1994	2	NA	<1	NA	NA
I18-HA16-2-S	HA16	7/28/1994	5	NA	<0.2	NA	NA
Soil Boring Samples							
I18-SB02-5-S	SB02	2/19/1997	39.5	<0.16	<0.88	<0.4	<0.3
I18-SB03-4-S	SB03	2/20/1997	39	<0.16	<0.85	<0.39	<0.29
I18-SB04-3-S	SB04	2/19/1997	20.5	<0.17	<0.91	<0.42	<0.31
I18-SB05-2-S	SB05	2/19/1997	20.5	<0.16	<0.84	21	64
Analyses				4	34	4	4
Detections				0	10	1	1
Minimum Concentration				0	1.3	21	64
Maximum Concentration				0	1600	21	64
HWAD_-_PCG				100	100	100	100
HWAD - PCG Hits				0	3	0	0

in the vicinity of this SWMU, and no additional groundwater investigations are recommended. This premise is further justified by the evaluation of potential TPH migration to the groundwater, in Section 6 of this document.

6 EVALUATION OF TPH MIGRATION TO GROUNDWATER

Tt conducted no risk evaluation of potential surface exposure for SWMU I18 because of insufficient data at less than 1.5 feet; however, only two contaminants, TPH-d and PCBs, require evaluation for this SWMU. Because the PCB transformers are contained in the underground vaults, it is not likely that this potential contaminant would be found at the surface. Also, Tt found no concentration of PCBs in any of the near-surface or subsurface soils; therefore, PCBs appear to have been sufficiently investigated and can be eliminated as a COPC at this SWMU.

The subsurface soils at SWMU I18 are known to have concentrations of TPH greater than the PCG. The two most likely pathways of TPH to potential receptors at this SWMU are through surface exposure and migration to the groundwater for uptake in downgradient drinking water. Because no surface soil contamination was observed, the most likely exposure pathway is through the groundwater. There are no active production wells downgradient of SWMU I18 that could yield potentially contaminated groundwater; however, the affected soils have the potential to degrade the groundwater. Below is an evaluation of this potential.

6.1 Precipitation and Runoff

One of the assumptions for evaluating TPH migration to groundwater is that there is insufficient groundwater percolation through the vadose zone to transport petroleum hydrocarbons in an aqueous phase. Occasional discharges of boiler blow-down water from Building 104-2 represent an insignificant source of recharge; therefore, precipitation and runoff are the only likely sources of water at SWMU I18. Although there is a discontinuous earthen berm around the perimeters of the SWMU, it is probably not sufficient to prevent runoff from entering the site under high runoff conditions. Occasional large runoff events would provide a temporary source of recharge that could mobilize contaminants, but there is no significant depression in the ground surface to retain large quantities of runoff.

The annual precipitation at Thorne, near the northern boundary of HWAD and at an elevation of 4,200 feet, averaged about 3.3 inches between 1884 and 1949. The average annual precipitation at Hawthorne-Babbitt, also at an elevation of 4,200 feet, was about 4.5 inches between 1937 and 1965. Average monthly precipitation varied from 0.1 inch to 0.5 inch at Thorne and from 0.2 inch to 0.7 inch at Hawthorne-Babbitt (Everett and Rush 1967). Maximum rainfall in the area occurs in late spring and fall. July and August are the minimum rainfall months. The maximum observed two-year, 24-hour rainfall was reported to be just over two inches.

The potential evapotranspiration rate, about 48 inches per year, far exceeds precipitation. Average temperatures range from 34 degrees Fahrenheit (^{o}F) in January to 75°F in July (USAEHA 1988). Most precipitation that falls on the Walker Valley floor quickly evaporates.

The small quantity of rainfall that infiltrates below the ground surface is absorbed in the shallow soils.

6.2 Summary of Risk

The only COPC in the near-surface soils at SWMU I18 is TPH, primarily as diesel, with lesser concentrations of motor oil and heavy oil. The highest detected concentration of TPH is 1,600 mg/kg in the diesel range, in one sample collected from a depth of two feet bgs. This contamination does not extend laterally over an area greater than a 50-foot radius, based on many soil samples collected from several nearby borings. The vertical extent of the contamination is generally less than 20 feet bgs.

The principal pathways for potential exposure to the TPH contamination are through direct contact with the soil or through exposure to contaminated groundwater if the contaminants were to reach the water table. The surface soils were not stained with petroleum contamination indicating no exposure pathway through direct contact. The concentrations of TPH in the near-surface soils are generally confined to the 20-foot depth. The potential for these residual concentrations of TPH to migrate to the water table is discussed below.

There are three principal processes that affect petroleum hydrocarbon contaminants in the vadose zone in the absence of a source of recharge:

- The force of gravity pulls free-phase liquid vertically downward. Infiltrating precipitation can accelerate this downward migration; however, HWAD is in an arid climate where annual precipitation rates are low; therefore, leaching by water percolating through the vadose zone is not expected.
- Soil particles adsorbing and absorbing the petroleum hydrocarbon compounds reduces the rate of downward migration.
- Over time, naturally occurring bacteria will biodegrade the fuel-contaminated soils, which will reduce the mass of fuel available for downward migration.

If the quantity of diesel oil remaining in the soil is not sufficient to cause diesel to migrate downward under the influence of gravity to the depth of the water table, then the residual diesel concentrations do not represent a significant risk to groundwater if the diesel is left in place.

A method of estimating the volume of fuel necessary to overcome the effects of adsorption and to reach the water table is presented in the US EPA's Underground Technology Update, Volume 4, Number 4, August 1994: "Soil porosity and bulk hydrocarbon physical characteristics will determine the soil volume (Vs) necessary to immobilize a release (through adsorption)." This soil volume, in cubic yards, can be estimated by the following formula:

$$Vs = (0.2) \times (Vhc)/(P) \times (RS)$$

where Vhc is the volume in barrels of discharged hydrocarbons (one barrel is equal to 44 gallons);

P is the effective soil porosity; and

RS is the residual saturation capacity.

The RS of soils is generally about 33 percent of the soil's water-holding capacity. As stated in the US EPA document, RS values for various hydrocarbon compounds are as follows:

Light oil and gasoline = 0.1;

Used oil and fuel oil = 0.15; and

Lubrication oil and heavy oil = 0.2.

For this site, where diesel was the greatest concentration, the RS value of 0.15 will be used.

The greater the actual residual porosity is, relative to the theoretical residual saturation capacity of the soil, the more confidence there will be that no migration will occur. Therefore, comparing the residual capacity of the soil to the residual saturation capacity should indicate whether additional migration could occur. If so, then the next step would be to consider the volume of an uncontaminated porous medium that is available to absorb or adsorb the excess diesel oil. This sort of analysis has been performed for sites at which underground tank leaks have released relatively large amounts of oil and where the oil could be above the saturation capacity in some portions of the contaminated region. However, at SWMU I18 it is unlikely that any soils contain TPH-d concentrations above the RS of the soil.

To demonstrate this, the equation above can be rewritten to solve for the concentration of diesel at which no further migration would occur because this is any concentration that results in a residual porosity (porosity unfilled by diesel) greater than the residual saturation capacity of the soil.

First, rearrange the terms:

$$(Vhc)/(Vs) = 5 \times (P) \times (RS)$$

The term (Vhc)/(Vs) is the volume of diesel per volume of soil that can be absorbed/adsorbed without exceeding the saturation capacity of the soil. The equation indicates that one cubic yard of soil with a porosity of 25 percent can absorb/adsorb approximately 0.19 barrel of diesel. A barrel of diesel weights about 144 kilograms (kg). Therefore, a cubic yard of soil is able to absorb/adsorb about 27 kg (27×10^6 milligrams [mg]) of diesel. Assuming that the dry bulk density of the soil is about 500 kg per cubic meter, each cubic yard of soil weighs about 400 kg. This means that 400 kg of soil can absorb about 27×10^6 mg of diesel; in other words, the diesel will not be mobile until the concentration in the soil exceeds about 69,000 mg/kg, or about seven percent by weight. Based on this result, even if it were assumed that soils beneath the site were uniformly contaminated with concentrations of 1,600 mg/kg, which is the highest concentration

of diesel detected in the soils, the diesel would not be expected to migrate vertically under the force of gravity. A concentration of 1,600 mg/kg represents only about two percent of the absorption capacity of the soil. Considering that the average concentration in soils beneath the site is much lower than 1,600 mg/kg and that the depth to groundwater beneath the site is about 200 feet, the diesel concentrations in the near-surface soils at SWMU I18 are not a significant threat to groundwater quality.

7 REMEDIATION

Because there was no surface exposure that posed an immediate threat to on-workers, there were no interim remedial actions to mitigate the site. In addition, the underground utilities at this SWMU prohibit cost-effective and safe soil removal. Based on the risk evaluation of potential migration of the TPH contamination to the groundwater, the concentration of TPH can be left in place without affecting human health or the environment; therefore, no future remedial actions are recommended.

8 REMEDIATION RESULTS

No interim remedial actions were conducted, and no future remediation is recommended.

9 PUBLIC INVOLVEMENT

It is US Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established and maintains a repository at the local public library, which includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD, the repository will be updated.

HWAD has solicited community participation to establish a restoration advisory board (RAB). To date there has been insufficient response, and HWAD has not formed a RAB. HWAD has held open houses to inform the public of ongoing environmental issues and will continue to solicit community involvement. HWAD will establish a RAB should there be sufficient community interest.

10 CONCLUSIONS

In accordance with the NAC 445A.227, no action is required at SWMU I18, based on the following considerations and the information reported in the remedial investigation report:

- The depth to the groundwater is approximately 200 feet below the ground surface and is deeper than the extent of the known subsurface contamination;
- There are no irrigation or drinking water wells in the Walker Valley near this SWMU;
- The low permeability soils at this SWMU deter migration of the TPH because they are fine-grained to very fine-grained sand and silts, with few fractures, if any;

- The annual precipitation at this SWMU that would cause the TPH to migrate through the soil to the groundwater is very low;
- The only chemical of concern at this SWMU is TPH, which generally has a low toxicity and slow migration rate, with no detectable VOC constituents;
- The extent of the known TPH contamination in soil is confined to small areas within the SWMU boundary and to moderate depths that do not appear to be affecting the groundwater;
- The present and potential future use of the land is military/industrial, with minimal exposure to the TPH concentrations in the soil;
- The most likely routes of migration of the TPH in soil at this SWMU are through surface exposure and very slow to no migration through the vadose zone to the groundwater;
- The contaminated soil at this SWMU is very near a structure, which is an impediment to removing the soil;
- For the concentrations of TPH found at this SWMU, there is no potential for a hazard related fire, vapor, or an explosion; and,
- There is no other information reported at this SWMU that would require a corrective action for the TPH concentrations found in the soil.

Based on the investigation data, SWMU I18 appears to be adequately characterized with regard to the COPC designated for this site. The one COPC, TPH, primarily as diesel, is known to occur in the soils at SWMU I18 at concentrations above the HWAD basewide PCG and NCR action level of 100 mg/kg. However, based on the summary of risk, there is no potential exposure pathway for this contamination to affect human health or the environment, provided that subsurface soils are not exposed through excavation. Unless future information is forthcoming that would necessitate the reevaluation of SWMU I18, it is recommended that this SWMU be closed with no further investigation, and with the no further action remedy be selected for this SWMU.

The selected remedy protects human health and the environment. SWMU I18 is to be closed, with the restrictions that, should repair work to utility lines be necessary, personnel will be informed of the presence of TPH so that the appropriate PPE requirements can be implemented for the worker's safety. All TPH-contaminated soil from this site that is associated with utility repairs and replacement will be treated at the permitted TPH landfarm. Clean soil will be used for backfilling any excavations at SWMU I18. It has been shown that a complete exposure pathway to human health and the environment does not likely exist, and there is no likely potential for such an exposure pathway to be completed in the future.

11 REFERENCES

Everett, D. E., and F. E. Rush. 1967. A Brief Appraisal of the Water Resources of the Walker Lake Area, Mineral, Lyon, and Churchill Counties, NV. Nevada Department of Water Resources. Reconnaissance Series Report No. 40.

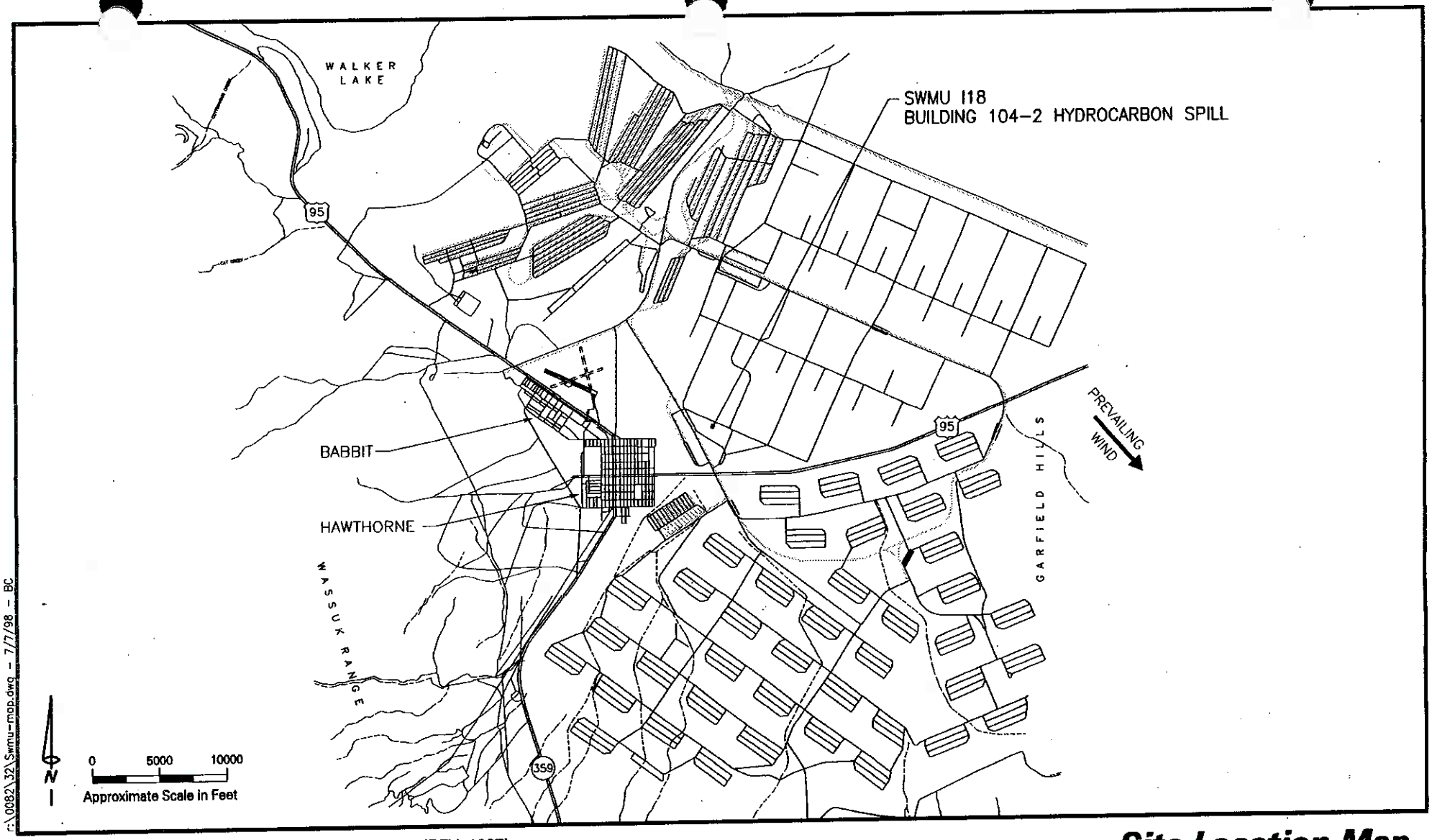
RAI. 1992. Site Screening Inspection for the Hawthorne Army Ammunition Plant, Hawthorne, Nevada. Prepared for the US Army Corps of Engineers Toxic and Hazardous Materials Agency by Resource Applications, Inc., Falls Church, Virginia. December 1992.

Tetra Tech, Inc. (Tt). 1993. Draft Technical Memorandum for Group B SWMUs, Hawthorne Army Ammunition Plant. November 22, 1993.

_____. 2001. 2000 Annual Groundwater Monitoring Report, Hawthorne Army Depot, Hawthorne, Nevada. May 2001.

USAEHA. 1988. Final Report. Groundwater Contamination Survey No. 38-26-0850-88. Evaluation of Solid Waste Management Units. HWAAP, Hawthorne, Nevada. May 12 to 19, 1987, and August 1 to 5, 1988.

FIGURES



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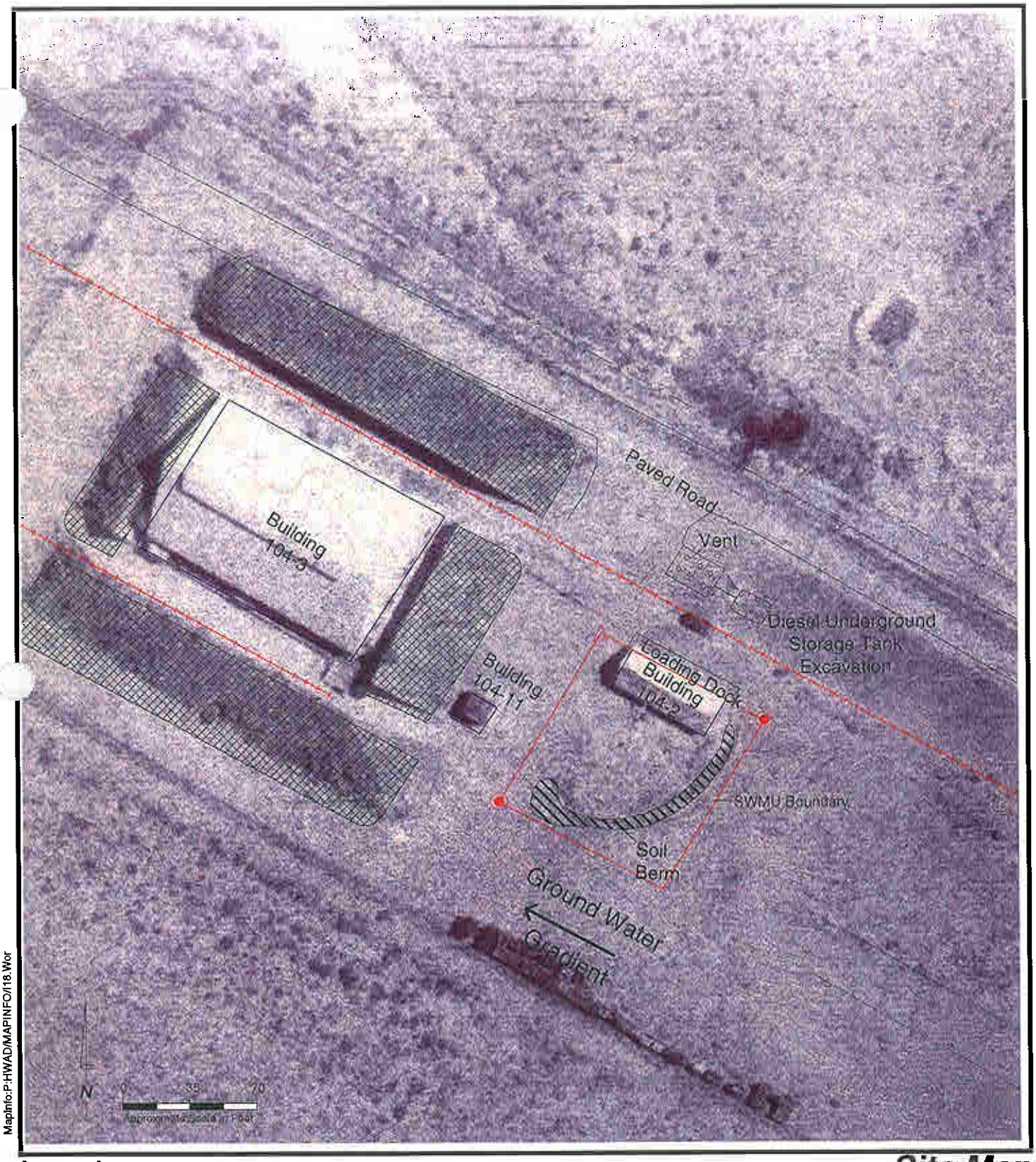
SOURCE: TETRA TECH FINAL DATA PACKAGE, 1996 (REV. 1997)

Site Location Map
SWMU I18
Building 104-2 Hydrocarbon Spill
Hawthorne Army Depot
Hawthorne, Nevada
Figure 1

Tetra Tech, Inc.



MapInfo:P:HWAD/MAPINFO/I18.Wor

Legend:

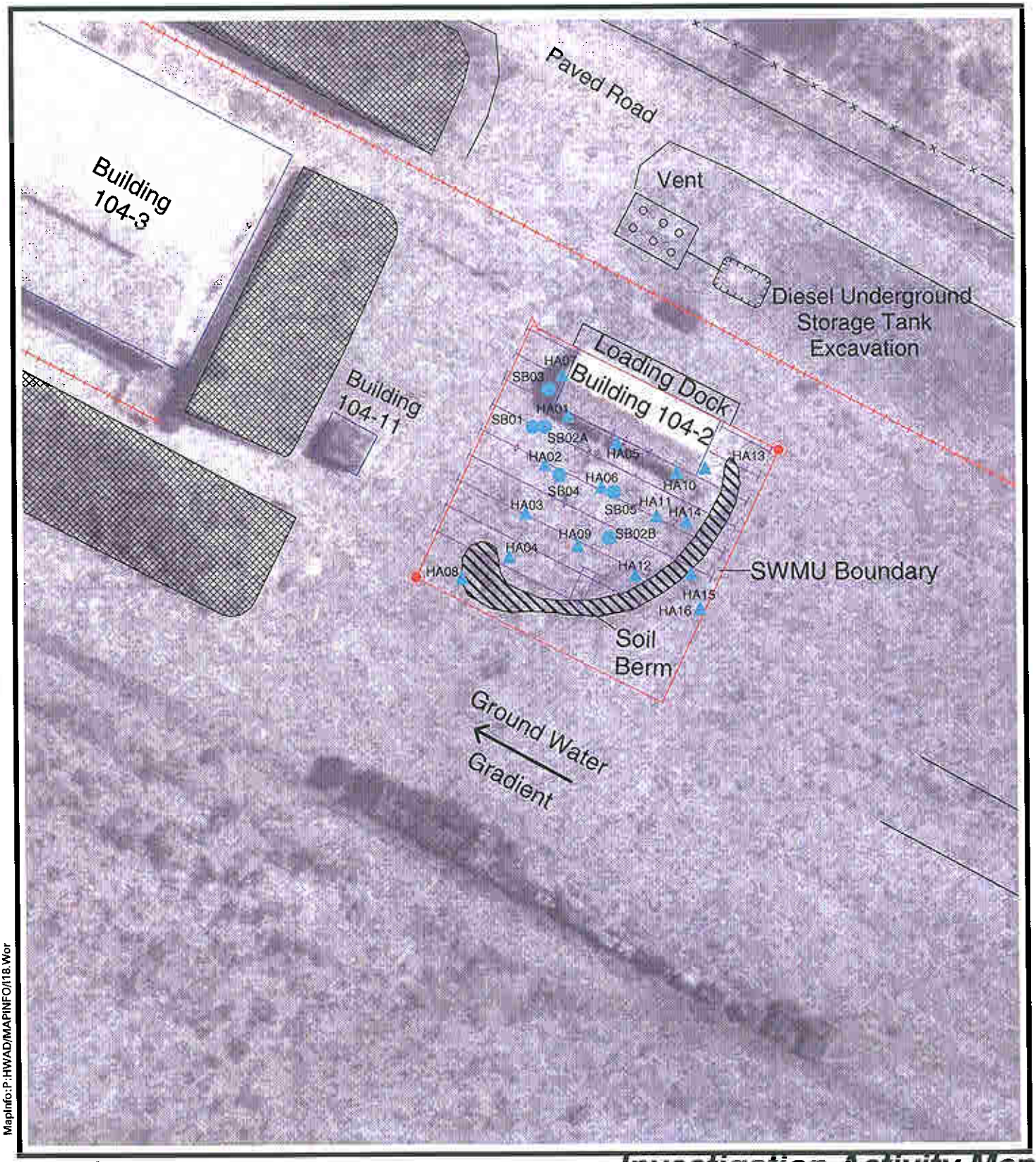
- SWMU Monument
- Boundary Corner Pin
- Explosion Barrier
- Fence
- Railroad

Site Map
SWMU I18
Building 104-2 Hydrocarbon Spill

Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2

Tetra Tech, Inc.



MapInfo:P:HWAD/MAPINFO/I18.Wor

Legend:

- GPR Traverse
- Boundary Corner Pin
- Hand Auger Location
- Soil Boring Location
- GPR Anomaly
- Explosion Barrier
- Fence
- SWMU Monument

0 25 50
Approximate Scale in Feet

N

Tetra Tech, Inc.

Investigation Activity Map
SWMU I18
Building 104-2 Hydrocarbon Spill

Hawthorne Army Depot
Hawthorne, Nevada

Figure 2

MapInfo:P:HWAD/MAPINFO/VWM.wor

Legend:

- Drain Line
- Explosion Barrier
- Fence
- Monitoring Well
- Railroad

N

0 275 550

Approximate Scale in Feet

Vicinity Well Map

Hawthorne Army Depot
Hawthorne, Nevada

Figure 3-2

Tetra Tech, Inc.

APPENDIX A

PROPOSED CLOSURE GOALS

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S[a]
2-Amino-dinitrotoluene	Explosive	NC	-	NA[b]
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background[c]
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG[d]
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit[e]
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up[f]
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA[g]
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC		-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC		-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

[a] RCRA 55 FR 30870

[b] Not available

[c] Highest background concentration detected in 50 background soil samples

[d] Smucker, Stanford J. USEPA Rgion IX, Preliminary Remedial Goals, Second Half, Sep. 1995

[e] Method detection limit for Volatile Organic Compounds by EPA Method 8260 or Semi-Volatile Organic Compounds analyzed by EPA Method 8270

[f] Nevada Division of Environmental Protection

[g] Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

APPENDIX B

SURVEY DATA

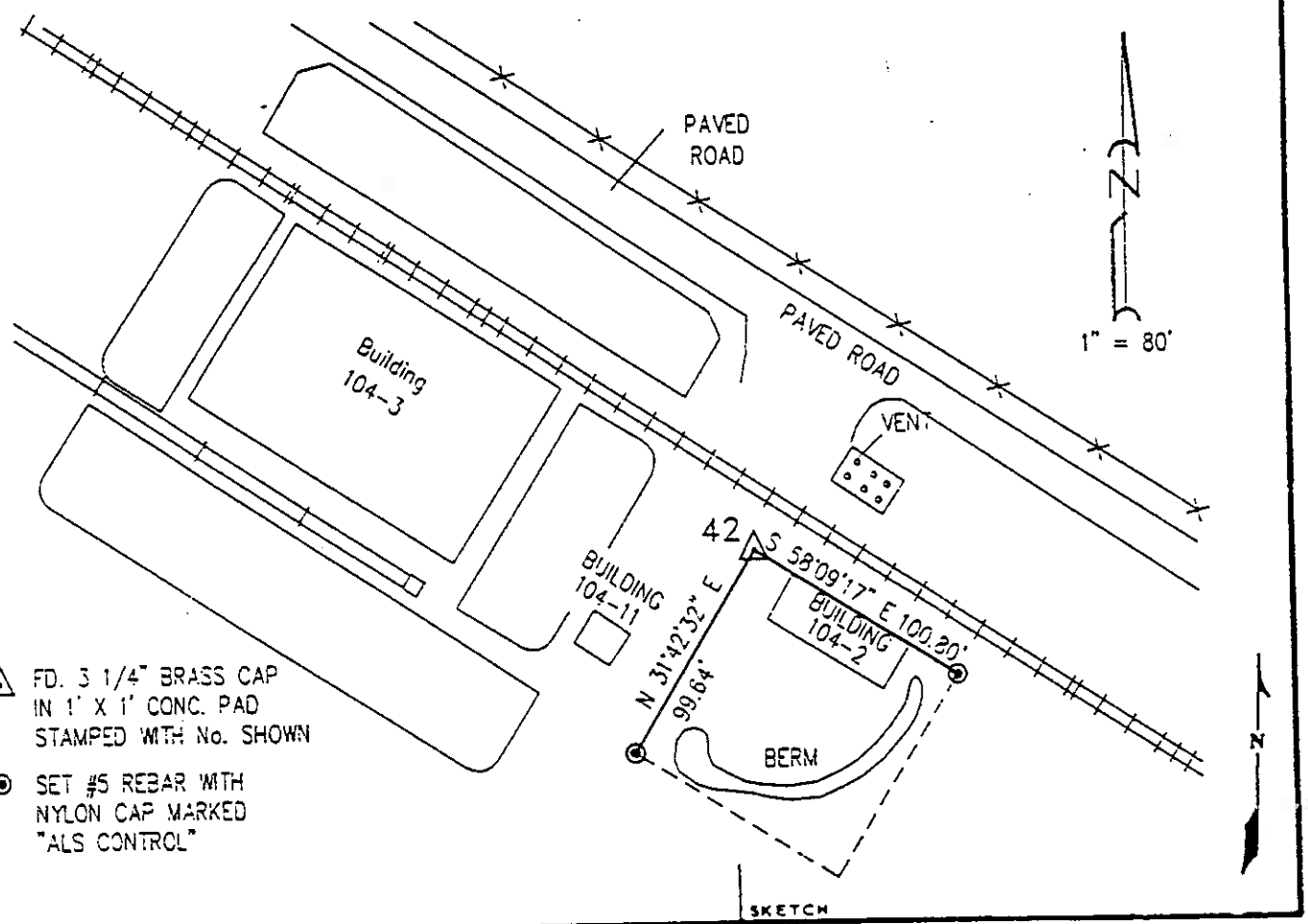
COUNTRY	TYPE OF MARK	STATION	
USA	BRASS CAP	42	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) (M)
HAWTHORNE NEV.	42 I-18	COE HWAAP	4301.30
LATITUDE	LONGITUDE	DATUM	DATUM
38°31'53.39890" N	118°35'55.41179" W	NAD '27	NGVD '29
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
1376588.43	495597.07	NEVADA SP WEST	A.L.S.
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER
			1997 / 2ND

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
	° ' "	° ' "		

MONUMENT 42 – SWMU I-18
FROM HIGHWAY 95 TAKE MINE ROAD NORTHWEST 600 FEET TO A ROAD, THEN NORTHEAST 1800 FEET (PAST BUILDING 104-7) TO A ROAD, THEN NORTHWEST 1200 FEET TO BUILDING 104-2. SEE MAP BELOW. MONUMENT IS A 3 1/4" BRASS CAP SET IN A 1' X 1' CONCRETE PAD AND IS MARKED WITH A 4" X 4" X 6' WOOD POST, PAINTED WHITE.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

NOTES ON COMPLETION OF FORM

1. GENERAL: This form may be used in the field or, as an office form to record and publish positions, descriptions, and related data.

2. FIELD USE OF FORM: The information required should be obtained and recorded *AT THE STATION SITE*. The field engineer should fill in only the information available and applicable to field use. In general, the geographic and grid positions, azimuths, distances, and elevations should not be filled in at field level except when the information is required for an immediate specific purpose.

a. ORIGINAL DESCRIPTION OF NEW STATION: The type of mark used for the station, reference marks, and azimuth marks, and a description of each must be given in the text of the description. If a disk is used, the identity of the agency whose name is cast in the disk and all of the letters and numbers stamped on the mark which identify the organization establishing or setting the mark should be given. In many areas the use of disks is not desirable because of their loss, due to vandalism or superstition. Less conspicuous marks should be used under these conditions. This requires exact statements of the character of the marks. Information for all marks as to the elevation above or below ground and approximate elevation above or below nearby prominent features is important. At least three measurements within .01 foot should be made from the station to any permanent marks, features, or structures that would permit relocating the spot where an instrument was centered. Good judgment should be exercised as to how far these measurements should be made. It is recommended that they be made to items which are not in the immediate vicinity of the station. Angles should also be turned to these items, particularly where no azimuth mark or marks have been established.

b. VIEW: Provide information on height of tower or stand used in occupying or establishing the station and information on view from a normal tripod, i.e., a 50-foot tower was used at the station; view from a tripod height is clear to the south and east but is obstructed by rise in ground *(by 50 foot trees)* to the north and west.

c. PHOTOGRAPHIC IDENTIFICATION: Provide when possible, two measurements from the station to natural or cultural features which might be visible on aerial photography and a description of the terrain. If photographs are available identify the station thereon and note estimated accuracy of the identification.

d. NOTES ON RECOVERED STATIONS: A diligent search should be made for *ALL* previously established stations in the vicinity and no station should be reported as destroyed unless conclusive evidence of destruction is present. A statement of the diligence of the search and reason for the non-recovery of a previously established mark is required. If the spot where a station mark was located can be reproduced by measurement given in the description, the station is not destroyed. The reproduced spot should be tied in by azimuth and distance and the estimated accuracy of the reproduced location given. If a new mark is set in the exact location of a previously established but destroyed mark, the designation of the station should be identical with the original with only a new date added to its designation. If a new disk is set in the approximate location of the old station, the name should be preserved but the number "2" and a new date should be added.

(DESCRIBED) (RECOVERED) BY	
PROJECT	
DATE	FIELD BOOK

☆ U.S. Government Printing Office: 1986—491-003/50495

SWMU I18 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
I18	HWAAP-42-1996	1376588.43	495597.07	4301.30
I18	Pin 1	1376535.24	495682.70	NE
I18	Pin 2	1376503.66	495544.70	NE
I18	HA01	1376554.78	495606.63	NE
I18	HA02	1376538.41	495596.54	NE
I18	HA03	1376521.97	495587.56	NE
I18	HA04	1376507.18	495579.79	NE
I18	HA05	1376543.44	495623.66	NE
I18	HA06	1376528.37	495616.26	NE
I18	HA07	1376569.37	495606.22	NE
I18	HA08	1376501.61	495561.56	NE
I18	HA09	1376508.67	495605.47	NE
I18	HA10	1376530.88	495644.35	NE
I18	HA11	1376516.10	495635.24	NE
I18	HA12	1376496.03	495625.20	NE
I18	HA13	1376531.29	495654.89	NE
I18	HA14	1376513.13	495646.04	NE
I18	HA15	1376494.50	495645.74	NE
I18	HA16	1376481.98	495647.81	NE
I18	SB01	1376552.32	495593.39	NE
I18	SB02A	1376552.05	495597.86	NE
I18	SB02B	1376510.42	495617.21	NE
I18	SB03	1376565.16	495600.63	NE
I18	SB04	1376534.47	495601.41	NE
I18	SB05	1376526.34	495620.60	NE

Notes:
NE = Not established.
Coordinate data based on electronic map file using the NAD 1927 datum.
Elevation data based on surveyors map using NGVD 1929 datum.

APPENDIX C

ANALYTICAL DATA FROM INVESTIGATION

Description of Qualifiers

J	Data are considered quantitatively estimated.
J+	Data are considered quantitatively estimated with a possible high bias.
J-	Data are considered quantitatively estimated with a possible low bias.
N	Data are considered quantitatively presumptive due to tentative analyte identification.
NJ	Data are considered quantitatively presumptive due to tentative analyte identification; the associated value is considered quantitatively estimated.
R	Data are rejected and considered unusable for all purposes.
UJ	Analyte is considered not present above the level of the associated value; the associated value is considered quantitatively estimated.
UJ-	Analyte is considered not present above the level of the associated value; the associated value is considered quantitatively estimated with a possible low bias.

Maximum Metal Concentrations Considered Representative
of Background Soil Samples from
Hawthorne Army Depot, Hawthorne, Nevada

	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Se (mg/kg)	Ag mg/kg
Maximum Background Metal Concentration (Mean plus 2 Std. Dev.)[1]	12,365	18.1	447	0.58	1.08	13.76	16.7	0.108	NA[2]	NA[2]

Notes: 1. For purposes of calculating mean and standard deviations, non-detect values were set to 50 percent of the detection limit, e.g., a value of 0.25 would be used during statistical calculations to represent a non-detect value of <0.50.

2. NA = insufficient detects to calculate meaningful statistics

Source: Technical Memorandum Background Soil Sampling (Tt 1997d)

Description of Duplicates

Soil samples I18-DP150, I18-DP151, and I18-DP152 are collocated duplicate samples of I18-HA10-1-S.
Soil samples I18-DP154, I18-DP155, and I18-DP156 are collocated duplicate samples of I18-HA10-2-S.
Soil sample I18-SB02-2-S is a collocated duplicate sample of I18-SB02-1-S.
Soil sample I18-SB04-4-S is a collocated duplicate sample of I18-SB04-3-S.

Moisture
Method ASTM D 2216 (APCL)

Sample ID	Location ID	Sample Date	Depth	Lab	Moisture, percent in soil Percent
I18-SB02-1-S	SB02	2/19/1997	10.5	APCL	32.6
I18-SB02-5-S	SB02	2/19/1997	39.5	APCL	7.6
I18-SB03-1-S	SB03	2/20/1997	10	APCL	18
I18-SB03-4-S	SB03	2/20/1997	39	APCL	4.4
I18-SB04-1-S	SB04	2/19/1997	11	APCL	31
I18-SB04-3-S	SB04	2/19/1997	20.5	APCL	11
I18-SB05-1-S	SB05	2/19/1997	10.5	APCL	30.2
I18-SB05-2-S	SB05	2/19/1997	20.5	APCL	3.5

Analyses	8
Detections	8
Minimum Concentration	3.5
Maximum Concentration	32.6
HWAD_-_PCG	NE
HWAD_-_PCG Hits	NE

Moisture
Method D 2216 (BCA)

Sample ID	Location ID	Sample Date	Depth	Lab	Moisture, percent in soil Percent
I18-DP152	SB02	2/19/1997	10.5	BCA	NA
I18-DP156	SB02	2/19/1997	39.5	BCA	NA
Analyses					0
Detections					0
Minimum Concentration					0
Maximum Concentration					0
HWAD_-_PCG					NE
HWAD_-_PCG Hits					NE

PCB Test Kit
Method 4020 (Tt Field)

Sample ID	Location ID	Sample Date	Depth	Lab	PCB mg/kg
I18-DP150	HA10	7/27/1994	2.5	Tt Field	X<1
I18-DP154	HA10	7/27/1994	5	Tt Field	X<1
I18-HA01-1-S	HA01	7/26/1994	1	Tt Field	X<1
I18-HA02-1-S	HA02	7/26/1994	2	Tt Field	X<1
I18-HA02-2-S	HA02	7/26/1994	5	Tt Field	X<1
I18-HA03-1-S	HA03	7/26/1994	2	Tt Field	X<1
I18-HA03-2-S	HA03	7/26/1994	5	Tt Field	X<1
I18-HA04-1-S	HA04	7/26/1994	2	Tt Field	X<1
I18-HA05-1-S	HA05	7/26/1994	2.5	Tt Field	X<1
I18-HA05-2-S	HA05	7/26/1994	5	Tt Field	X<1
I18-HA06-1-S	HA06	7/27/1994	2	Tt Field	X<1
I18-HA06-2-S	HA06	7/27/1994	5	Tt Field	X<1
I18-HA07-1-S	HA07	7/27/1994	2.5	Tt Field	X<1
I18-HA07-2-S	HA07	7/27/1994	5	Tt Field	X<1
I18-HA08-1-S	HA08	7/27/1994	2	Tt Field	X<1
I18-HA08-2-S	HA08	7/27/1994	5	Tt Field	X<1
I18-HA09-1-S	HA09	7/27/1994	2	Tt Field	X<1
I18-HA10-1-S	HA10	7/27/1994	2.5	Tt Field	X<1
I18-HA10-2-S	HA10	7/27/1994	5	Tt Field	X<1
I18-HA14-2-S	HA14	7/28/1994	5	Tt Field	X<1
I18-HA15-1-S	HA15	7/28/1994	2	Tt Field	X<1
I18-HA16-2-S	HA16	7/28/1994	5	Tt Field	X<1

Analyses	22
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD_-_PCG	NE
HWAD_-_PCG Hits	NE

TPH Test Kit
Method 4030 (Tt Field)

Sample ID	Location ID	Sample Date	Depth	Lab	TPH-d mg/kg	TPH-d (Rerun mg/kg	TPH-d-Dup mg/kg
I18-SB02-1-S	SB02	2/19/1997	10.5	Tt Field	100<X<500	NA	NA
I18-SB02-2-S	SB02	2/19/1997	10.5	Tt Field	100<X<500	NA	NA
I18-SB02-3-S	SB02	2/19/1997	20.5	Tt Field	100<X<500	NA	NA
I18-SB02-4-S	SB02	2/19/1997	30.5	Tt Field	100<X<500	NA	NA
I18-SB02-5-S	SB02	2/19/1997	39.5	Tt Field	100<X<500	NA	NA
I18-SB03-1-S	SB03	2/20/1997	10	Tt Field	100<X<500	NA	NA
I18-SB03-2-S	SB04	2/20/1997	20.5	Tt Field	100<X<500	NA	NA
I18-SB03-3-S	SB03	2/20/1997	30.5	Tt Field	100<X<500	NA	NA
I18-SB03-4-S	SB03	2/20/1997	39	Tt Field	100<X<500	NA	X<0
I18-SB04-1-S	SB04	2/19/1997	11	Tt Field	100<X<500	NA	NA
I18-SB04-2-S	SB04	2/19/1997	20.5	Tt Field	100<X<500	NA	NA
I18-SB04-3-S	SB04	2/19/1997	20.5	Tt Field	100<X<500	NA	X<0
I18-SB04-4-S	SB04	2/19/1997	30.5	Tt Field	100<X<500	NA	NA
I18-SB04-5-S	SB04	2/19/1997	39.5	Tt Field	100<X<500	NA	NA
I18-SB05-1-S	SB05	2/19/1997	10.5	Tt Field	100<X<500	NA	NA
I18-SB05-2-S	SB05	2/19/1997	20.5	Tt Field	100<X<500	NA	0<X<20
I18-SB05-3-S	SB05	2/19/1997	32.5	Tt Field	100<X<500	NA	NA
I18-SB05-4-S	SB05	2/19/1997	39	Tt Field	100<X<500	NA	NA
Analyses					18	3	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
HWAD_-_PCG					NE	NE	NE
HWAD_-_PCG Hits					NE	NE	NE

TPH
Method 8015M (BCA Field)

Sample ID	Location ID	Sample Date	Depth	Lab	TPH (as diesel) mg/kg
I18-DP151	HA10	7/27/1994	2.5	BCA Field	11.9
I18-DP155	HA10	7/27/1994	5	BCA Field	8.2
I18-HA01-1-S	HA01	7/26/1994	1	BCA Field	<0.2
I18-HA02-1-S	HA02	7/26/1994	2	BCA Field	1600 J
I18-HA02-2-S	HA02	7/26/1994	5	BCA Field	1400 J
I18-HA03-1-S	HA03	7/26/1994	2	BCA Field	1.3 J
I18-HA03-2-S	HA03	7/26/1994	5	BCA Field	<0.2
I18-HA04-1-S	HA04	7/26/1994	2	BCA Field	<0.2
I18-HA05-1-S	HA05	7/26/1994	2.5	BCA Field	<0.2
I18-HA05-2-S	HA05	7/26/1994	5	BCA Field	<0.2
I18-HA06-1-S	HA06	7/27/1994	2	BCA Field	38
I18-HA06-2-S	HA06	7/27/1994	5	BCA Field	470
I18-HA07-1-S	HA07	7/27/1994	2.5	BCA Field	<1
I18-HA07-2-S	HA07	7/27/1994	5	BCA Field	<0.2
I18-HA08-1-S	HA08	7/27/1994	2	BCA Field	<1
I18-HA08-2-S	HA08	7/27/1994	5	BCA Field	<0.2
I18-HA09-1-S	HA09	7/27/1994	2	BCA Field	1.6 J
I18-HA10-1-S	HA10	7/27/1994	2.5	BCA Field	4.4 J
I18-HA10-2-S	HA10	7/27/1994	5	BCA Field	3.5 J
I18-HA11-1-S	HA11	7/28/1994	2	BCA Field	<0.2
I18-HA11-2-S	HA11	7/28/1994	5	BCA Field	<0.2
I18-HA12-1-S	HA12	7/28/1994	2	BCA Field	<1
I18-HA13-1-S	HA13	7/28/1994	2	BCA Field	<1
I18-HA13-2-S	HA13	7/28/1994	5	BCA Field	<1
I18-HA14-1-S	HA14	7/28/1994	2	BCA Field	<1
I18-HA14-2-S	HA14	7/28/1994	5	BCA Field	<0.2
I18-HA15-1-S	HA15	7/28/1994	2	BCA Field	<1
I18-HA15-2-S	HA15	7/28/1994	5	BCA Field	<1
I18-HA16-1-S	HA16	7/28/1994	2	BCA Field	<1
I18-HA16-2-S	HA16	7/28/1994	5	BCA Field	<0.2

Analyses	30
Detections	10
Minimum Concentration	1.3
Maximum Concentration	1600
HWAD_-_PCG	NE
HWAD_-_PCG Hits	NE

TPH
Method M8015E and M8015V (APCL)

Sample ID	Location ID	Sample Date	Depth	Lab	C8-C10 (Gasoline) mg/kg	C11-C22 (Diesel) mg/kg	C23-C30 (Motor oil) mg/kg	C31-C40 (Heavy oil) mg/kg
I18-SB02-5-S	SB02	2/19/1997	39.5	APCL	<0.16	<0.88	<0.4	<0.3
I18-SB03-4-S	SB03	2/20/1997	39	APCL	<0.16	<0.85	<0.39	<0.29
I18-SB04-3-S	SB04	2/19/1997	20.5	APCL	<0.17	<0.91	<0.42	<0.31
I18-SB05-2-S	SB05	2/19/1997	20.5	APCL	<0.16	<0.84	21	64
Analyses					4	4	4	4
Detections					0	0	1	1
Minimum Concentration					0	0	21	64
Maximum Concentration					0	0	21	64
HWAD_-_PCG					NE	NE	NE	NE
HWAD_-_PCG Hits					NE	NE	NE	NE

OC Pesticiues and PCBs
Method 8081 (BCA)

Sample ID	Location ID	Sample Date	Depth	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg	Total PCBs mg/kg
I18-DP152	HA10	7/27/1994	2.5	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007	NA
I18-DP156	HA10	7/27/1994	5	<0.03	<0.03	<0.02	<0.03	<0.02	<0.02	<0.007	NA
Analyses				2	2	2	2	2	2	2	0
Detections				0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0
HWAD_-_PCG				25	25	25	25	25	25	25	NE
HWAD_-_PCG Hits				0	0	0	0	0	0	0	NE

OC Pesticides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date	Depth	Lab	4,4-DDD mg/kg	4,4-DDE mg/kg	4,4-DDT mg/kg	Aldrin mg/kg	alpha-BHC mg/kg	Aroclor-1016 mg/kg	Aroclor-1221 mg/kg	Aroclor-1232 mg/kg	Aroclor-1242 mg/kg	Aroclor-1248 mg/kg	Aroclor-1254 mg/kg
I18-SB02-1-S	SB02	2/19/1997	10.5	APCL	<0.0001	<0.00007	<0.00021	<0.00019	<0.00006	NA	NA	NA	NA	NA	NA
I18-SB03-1-S	SB03	2/20/1997	10	APCL	<0.00009	<0.00006	<0.00017	<0.00016	<0.00005	NA	NA	NA	NA	NA	NA
I18-SB04-1-S	SB04	2/19/1997	11	APCL	<0.0001	<0.00007	<0.0002	<0.00019	<0.00006	NA	NA	NA	NA	NA	NA
I18-SB05-1-S	SB05	2/19/1997	10.5	APCL	<0.0001	<0.00007	<0.0002	<0.00019	<0.00006	NA	NA	NA	NA	NA	NA
Analyses					4	4	4	4	4	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0	0
HWAD_-_PCG					NE	NE	NE	NE	NE	25	25	25	25	25	25
HWAD_-_PCG Hits					NE	NE	NE	NE	NE	0	0	0	0	0	0

OC Pesticides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date	Depth	Lab	Aroclor-1260 mg/kg	beta-BHC mg/kg	Chlordane mg/kg	delta-BHC mg/kg	Dieldrin mg/kg	Endosulfan I mg/kg	Endosulfan II mg/kg	Endosulfan sulfate mg/kg	Endrin mg/kg	Endrin aldehyde mg/kg
I18-SB02-1-S	SB02	2/19/1997	10.5	APCL	NA	<0.0001	<0.012	<0.00015	<0.00006	<0.00006	<0.0001	<0.00036	<0.0001	<0.0001
I18-SB03-1-S	SB03	2/20/1997	10	APCL	NA	<0.0001	<0.01	<0.00012	<0.00005	<0.00005	<0.00009	<0.00029	<0.00009	<0.00009
I18-SB04-1-S	SB04	2/19/1997	11	APCL	NA	<0.0001	<0.012	<0.00014	<0.00006	<0.00006	<0.0001	<0.00035	<0.0001	<0.0001
I18-SB05-1-S	SB05	2/19/1997	10.5	APCL	NA	<0.0001	<0.012	<0.00014	<0.00006	<0.00006	<0.0001	<0.00034	<0.0001	<0.0001
Analyses					0	4	4	4	4	4	4	4	4	4
Detections					0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0	0	0
HWAD_-_PCG					25	NE	NE	NE	NE	NE	NE	NE	NE	NE
HWAD_-_PCG Hits					0	NE	NE	NE	NE	NE	NE	NE	NE	NE

OC Pesticides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date	Depth	Lab	Endrin ketone mg/kg	gamma-BHC (Lindane mg/kg	Heptachlor mg/kg	Heptachlor epoxide mg/kg	Methoxychlor mg/kg	Toxaphene mg/kg
I18-SB02-1-S	SB02	2/19/1997	10.5	APCL	<0.0001	<0.00006	<0.00015	<0.00009	<0.00004	<0.022
I18-SB03-1-S	SB03	2/20/1997	10	APCL	<0.00009	<0.00005	<0.00012	<0.00007	<0.00004	<0.018
I18-SB04-1-S	SB04	2/19/1997	11	APCL	<0.0001	<0.00006	<0.00014	<0.00009	<0.00004	<0.022
I18-SB05-1-S	SB05	2/19/1997	10.5	APCL	<0.0001	<0.00006	<0.00014	<0.00009	<0.00004	<0.021
Analyses					4	4	4	4	4	4
Detections					0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0
HWAD_-_PCG					NE	NE	NE	NE	NE	NE
HWAD_-_PCG Hits					NE	NE	NE	NE	NE	NE

Monitoring Well Evaluation Checklist for Well No. IRPMW49

SWMU / Area	49 Group
Aquifer	SW
Well Condition	
Good	Yes
Describe Problems	None
Purpose of Well	
Primary	Downgradient of SWMUs I09/10 and I11
Secondary	Regional groundwater data
Retain for Chemical Monitoring (list compounds)	VOCs
Proposed Sample Frequency	Quarterly

Analytical Results

	Sampling Events	Date First Sampled	Date Last Sampled	Analyses	Detections	Highest Concentration	HWAD GW AL	Exceeds Standard
Explosive	12	2/1/97	11/17/99	13	2	--	--	Yes
RDX					1	2	0.61	1
Tetryl					1	0.3	NE	0
VOC	12	2/1/97	11/17/99	13	3	--	--	No
IPB					1	0.6	19	0
MeCl					2	0.7	5	0
SVOC	12	2/1/97	11/17/99	13	17	--	--	Yes
Bis(2-ethylhexyl)phthalate					6	270	6	4
Butyl benzyl phthalate					9	17	100	0
Di-n-butylphthalate					2	2	3700	0
Nitrogen Compounds	4	2/1/97	11/17/99	4	3	--	--	No
Ammonia as Nitrogen					1	0.2	NE	0
Total Kjeldahl Nitrogen					3	0.4	NE	0

ND = Non-detect
NE = Not established

Water Characteristics

Sample ID	ample Date	Ammonia as Nitrogen	Calcium, Total	Iron, Total	Kjeldahl Nitrogen, Total	Magnesium, Total	Potassium, Total	Sodium, Total
		mg/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.06	81700	51.3	0.4	12400	10100	202000
IRPMW49-042697-W	4/26/97	<0.06	79300	73.7	<0.1	12100	12900	190000
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	<0.07	80500	<2.7	0.2	12100	12800 E	201000
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	0.2 J	87400 J	9 J	0.3	13500 J	15300 J	221000 J
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA
Analyses		4	4	4	4	4	4	4
Detections		1	4	3	3	4	4	4
Minimum Concentration		0.2	79300	9	0.2	12100	10100	190000
Maximum Concentration		0.2	87400	73.7	0.4	13500	15300	221000
HWAD_-_GW_Action_Level				11000				
HWAD_-_GW_Action_Level Hits				0				

Water Characteristics

Sample ID	ample Date	Solids, Total Dissolved
		mg/l
IRPMW49-020197-W	2/1/97	959
IRPMW49-042697-W	4/26/97	959
IRPMW49A-072397-W	7/23/97	NA
IRPMW49B-072397-W	7/23/97	NA
IRPMW49-101597-W	10/15/97	NA
IRPMW49-030898-W	3/8/98	NA
IRPMW49-060498-W	6/4/98	NA
IRPMW49-090398-W	9/3/98	NA
IRPMW49-120298-W	12/2/98	NA
IRPMW49-021799-W	2/17/99	NA
IRPMW49-052099-W	5/20/99	NA
IRPMW49-081299-W	8/12/99	NA
IRPMW49-111799-W	11/17/99	NA

Analyses	2
Detections	2
Minimum Concentration	959
Maximum Concentration	959

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Nitrogen Compounds

Sample ID	ample Date	Ammonia as Nitrogen	Kjeldahl Nitrogen, Total
		mg/l	mg/l
IRPMW49-020197-W	2/1/97	<0.06	0.4
IRPMW49-042697-W	4/26/97	<0.06	<0.1
IRPMW49A-072397-W	7/23/97	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA
IRPMW49-030898-W	3/8/98	<0.07	0.2
IRPMW49-060498-W	6/4/98	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA
IRPMW49-021799-W	2/17/99	0.2 J	0.3
IRPMW49-052099-W	5/20/99	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA
Analyses		4	4
Detections		1	3
Minimum Concentration		0.2	0.2
Maximum Concentration		0.2	0.4

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Total Metals

Sample ID	ample Date	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Hexavalent	Chromium, Total	Lead, Total	Mercury, Total
		ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	7	NA	<0.2	<0.1	NA	4.1 J	<0.6	<0.15
IRPMW49-042697-W	4/26/97	11.2	NA	<0.2	<0.1	NA	4.1 J	<0.6	<0.15
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	15.6	26.1	NA	<0.51	NA	<1	<0.9	<0.16
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	14.7 J	24 J	NA	<0.61 UJ	NA	2.4 J	<1.1 UJ	0.33 J
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA	NA
Analyses		4	2	2	4	0	4	4	4
Detections		4	2	0	0	0	3	0	1
Minimum Concentration		7	24	0	0	0	2.4	0	0.33
Maximum Concentration		15.6	26.1	0	0	0	4.1	0	0.33
HWAD_-_GW_Action_Level		50	2000	4	5	0.18	100	15	2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	0

Total Metals

Sample ID	ample Date	Selenium, Total	Silver, Total
		ug/l	ug/l
IRPMW49-020197-W	2/1/97	6.1	<1.1
IRPMW49-042697-W	4/26/97	<2.3	<1.1
IRPMW49A-072397-W	7/23/97	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA
IRPMW49-030898-W	3/8/98	5.6	<1
IRPMW49-060498-W	6/4/98	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA
IRPMW49-021799-W	2/17/99	<1.9 UJ	<0.9 UJ
IRPMW49-052099-W	5/20/99	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA
Analyses		4	4
Detections		2	0
Minimum Concentration		5.6	0
Maximum Concentration		6.1	0
HWAD_-_GW_Action_Level		180	180
HWAD_-_GW_Action_Level Hits		0	0

Dissolved Metals

Sample ID	ample Date	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Lead, Dissolved	Mercury, Dissolved	Selenium, Dissolved
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	9	NA	<0.2	<0.1	3.9 J	<0.6	<0.15	6.2
IRPMW49-042697-W	4/26/97	12.8	NA	<0.2	0.18 J	2.6 J	0.91 J	<0.15	<2.3
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	15.4	26.7	NA	<0.51	<1	<0.9	<0.16	<2
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	19.3	29	NA	<0.61	1.9 J	<1.1	0.29 J	<1.9
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA	NA
Analyses		4	2	2	4	4	4	4	4
Detections		4	2	0	1	3	1	1	1
Minimum Concentration		9	26.7	0	0.18	1.9	0.91	0.29	6.2
Maximum Concentration		19.3	29	0	0.18	3.9	0.91	0.29	6.2
HWAD_-_GW_Action_Level		50		4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0	0

Dissolved Metals

Sample ID	ample Date	Silver, Dissolved
		ug/l
IRPMW49-020197-W	2/1/97	<1.1
IRPMW49-042697-W	4/26/97	<1.1
IRPMW49A-072397-W	7/23/97	NA
IRPMW49B-072397-W	7/23/97	NA
IRPMW49-101597-W	10/15/97	NA
IRPMW49-030898-W	3/8/98	<1
IRPMW49-060498-W	6/4/98	NA
IRPMW49-090398-W	9/3/98	NA
IRPMW49-120298-W	12/2/98	NA
IRPMW49-021799-W	2/17/99	<0.9
IRPMW49-052099-W	5/20/99	NA
IRPMW49-081299-W	8/12/99	NA
IRPMW49-111799-W	11/17/99	NA

Analyses	4
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD_-_GW_Action_Level	180
HWAD_-_GW_Action_Level Hits	0

Pesticides

		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.039	<0.009	<0.009	<0.014	<0.003	<0.002
IRPMW49-042697-W	4/26/97	<0.039	<0.009	<0.009	<0.014	<0.032	<0.022
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		370	50	70	290	0.28	0.2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.003	<0.003	<0.002	<0.001	<0.027	<0.029
IRPMW49-042697-W	4/26/97	<0.032	<0.026	<0.018	<0.013	<0.05	<0.029
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2	0.004	0.011	0.037	2	200
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.001	<0.008	<0.01	<0.003	<0.027	<0.004
IRPMW49-042697-W	4/26/97	<0.011	<0.008	<0.01	<0.027	<0.027	<0.038
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level			1100		0.0042	7	220
HWAD_-_GW_Action_Level Hits			0		0	0	0

Pesticides

		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.003	<0.014	<0.0008	<0.003	<0.002	<0.002
IRPMW49-042697-W	4/26/97	<0.025	<0.14	<0.008	<0.028	<0.02	<0.017
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level				2			0.2
HWAD_-_GW_Action_Level Hits				0			0

Pesticides

		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.002	<0.0009	<1	<1	<0.003	<0.029
IRPMW49-042697-W	4/26/97	<0.024	<0.009	<1 UJ	<1 UJ	<0.026	<0.29
IRPMW49A-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49B-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW49-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW49-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW49-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW49-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW49-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW49-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW49-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW49-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW49-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.4	0.2	18	37	40	3
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Volatile Organic Compounds

Sample ID	ample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3
IRPMW49-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.2	<0.1	<0.7	<0.1
IRPMW49A-072397-W	7/23/97	<0.2	<0.1	<0.2	<0.2	<0.3	<0.5	<0.2
IRPMW49B-072397-W	7/23/97	<0.2	<0.1	<0.2	<0.2	<0.3	<0.5	<0.2
IRPMW49-101597-W	10/15/97	<0.2	<0.1	<0.2	<0.2	<0.3	<0.5	<0.2
IRPMW49-030898-W	3/8/98	<0.35	<0.36	<0.38	<0.36	<0.22	<0.34	<0.28
IRPMW49-060498-W	6/4/98	<0.17	<0.24	<0.17	<0.12	<0.17	<0.22	<0.24
IRPMW49-090398-W	9/3/98	<0.23	<0.23	<0.26	<0.27 UJ	<0.18	<0.28	<0.29
IRPMW49-120298-W	12/2/98	<0.17	<0.24	<0.17	<0.12	<0.17	<0.22	<0.24
IRPMW49-021799-W	2/17/99	<0.21	<0.14	<0.34	<0.22	<0.22	<0.31	<0.33
IRPMW49-052099-W	5/20/99	<0.05	<0.06	<0.11	<0.06	<0.07	<0.06	<0.05
IRPMW49-081299-W	8/12/99	<0.3	<0.06	<0.13	<0.17	<0.09	<0.13	<0.12
IRPMW49-111799-W	11/17/99	<0.21	<0.14	<0.34	<0.22	<0.22	<0.31	<0.33
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.43	200	0.055	5	810	7	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	

Volatile Organic Compounds

Sample ID	ample Date	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.4	<0.8	<0.4	<0.2	<0.3	<0.2	<0.8
IRPMW49-042697-W	4/26/97	<0.5	<0.2	<0.3	<0.1	<0.2	<0.4	<0.2
IRPMW49A-072397-W	7/23/97	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.5
IRPMW49B-072397-W	7/23/97	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.5
IRPMW49-101597-W	10/15/97	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.5
IRPMW49-030898-W	3/8/98	<0.3	<0.31	<0.3	<0.31	<0.31	<0.36	<0.36
IRPMW49-060498-W	6/4/98	<0.26	<0.17 UJ	<0.34	<0.15	<0.18	<0.15	<0.15
IRPMW49-090398-W	9/3/98	<0.15	<0.38	<0.29	<0.34	<0.34	<0.27	<0.21
IRPMW49-120298-W	12/2/98	<0.26	<0.17 UJ	<0.34	<0.15	<0.18	<0.15	<0.15
IRPMW49-021799-W	2/17/99	<0.28	<0.41	<0.33	<0.25	<0.17	<0.25	<0.31
IRPMW49-052099-W	5/20/99	<0.16	<0.12	<0.09	<0.09	<0.08	<0.07	<0.07
IRPMW49-081299-W	8/12/99	<0.2	<0.27	<0.09	<0.34	<0.1	<0.24	<0.07
IRPMW49-111799-W	11/17/99	<0.28	<0.41	<0.33	<0.25	<0.17	<0.25	<0.31
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			0.0016	70	12	0.05	600	5
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
IRPMW49-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.1	<0.2	<0.8 UJ-	<0.2
IRPMW49A-072397-W	7/23/97	<0.2	<0.2	<0.4	<0.2	<0.3	<0.4	<0.2
IRPMW49B-072397-W	7/23/97	<0.2	<0.2	<0.4	<0.2	<0.3	<0.4	<0.2
IRPMW49-101597-W	10/15/97	<0.2	<0.2	<0.4	<0.2	<0.3	<0.4	<0.2
IRPMW49-030898-W	3/8/98	<0.22	<0.38	<0.38	<0.36	<0.3	<0.31	<0.3
IRPMW49-060498-W	6/4/98	<0.17	<0.12	<0.24	<0.17	<0.17	<0.31	<0.36
IRPMW49-090398-W	9/3/98	<0.32	<0.3	<0.38	<0.16	<0.44	<0.21	<0.29
IRPMW49-120298-W	12/2/98	<0.17	<0.12	<0.24	<0.17	<0.17	<0.31	<0.36
IRPMW49-021799-W	2/17/99	<0.22	<0.27	<0.27	<0.14	<0.28	<0.57	<0.28
IRPMW49-052099-W	5/20/99	<0.07	<0.1	<0.07	<0.07	<0.09	<0.07 UJ-	<0.11
IRPMW49-081299-W	8/12/99	<0.14	<0.1	<0.08	<0.09	<0.12	<0.2	<0.14
IRPMW49-111799-W	11/17/99	<0.22	<0.27	<0.27	<0.14	<0.28	<0.57	<0.28
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		5		17		75		120
HWAD_-_GW_Action_Level Hits		0		0		0		0

Sample ID	ample Date	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.3	<0.5	<0.2	<0.4
IRPMW49-042697-W	4/26/97	<0.2	<0.3	<0.2	<0.1	<0.2	<0.1	<0.2
IRPMW49A-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2
IRPMW49B-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2
IRPMW49-101597-W	10/15/97	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2
IRPMW49-030898-W	3/8/98	<0.4	<0.36	<0.36	<0.31	<0.47	<0.34	<0.35
IRPMW49-060498-W	6/4/98	<0.36	<0.15	<0.36	<0.15	<0.25	<0.15	<0.26 UJ
IRPMW49-090398-W	9/3/98	<0.38	<0.38	<0.14	<0.32	<0.33	<0.29	<0.45
IRPMW49-120298-W	12/2/98	<0.36	<0.15	<0.36	<0.15	<0.25	<0.15	<0.26
IRPMW49-021799-W	2/17/99	<0.37	<0.22	<0.33	<0.3	<0.4	<0.18	<0.27
IRPMW49-052099-W	5/20/99	<0.11	<0.1	<0.09	<0.07	<0.06	<0.06	<0.08
IRPMW49-081299-W	8/12/99	<0.21	<0.08	<0.1	<0.12	<0.26	<0.09	<0.2
IRPMW49-111799-W	11/17/99	<0.37	<0.22	<0.33	<0.3	<0.4	<0.18	<0.27
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				5			100	100
HWAD_-_GW_Action_Level Hits				0			0	0

Sample ID	ample Date	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2
IRPMW49-042697-W	4/26/97	<0.2 UJ	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.2
IRPMW49A-072397-W	7/23/97	<0.1	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
IRPMW49B-072397-W	7/23/97	<0.1	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
IRPMW49-101597-W	10/15/97	<0.1	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
IRPMW49-030898-W	3/8/98	<0.96	<0.35	<0.26	<0.57	<0.38	<0.72	<0.28
IRPMW49-060498-W	6/4/98	<0.46	<0.24	<0.26	<0.22	<0.15	<0.3 UJ	<0.26
IRPMW49-090398-W	9/3/98	<0.45	<0.27	<0.23	<0.48	<0.22	<0.44	<0.3
IRPMW49-120298-W	12/2/98	<0.46	<0.24	<0.26	<0.22	<0.15	<0.3	<0.26
IRPMW49-021799-W	2/17/99	<1.3 UJ	<0.43 UJ-	<0.23	<0.53 UJ-	<0.24	<0.34	<0.26
IRPMW49-052099-W	5/20/99	<0.08	<0.06	<0.05	<0.07	<0.07	<0.34	<0.17
IRPMW49-081299-W	8/12/99	<0.39	<0.18	<0.14	<0.43	<0.1	<0.49	<0.1
IRPMW49-111799-W	11/17/99	<1.3	<0.43	<0.23	<0.53	<0.24	<0.34	<0.26
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		8.7	5	100		100	1.5	70
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	0

Volatile Organic Compounds

Sample ID	ample Date	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	NA	<0.2	<0.9	<0.2	<0.2	<0.3	<0.4
IRPMW49-042697-W	4/26/97	<0.2	<0.1	<0.2	<0.2	<0.1	<0.2	<0.3
IRPMW49A-072397-W	7/23/97	<0.2	<0.2	<0.5 UJ	<0.2	<0.5	<0.2	<0.2
IRPMW49B-072397-W	7/23/97	<0.2	<0.2	<0.5 UJ	<0.2	<0.5	<0.2	<0.2
IRPMW49-101597-W	10/15/97	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2	<0.2
IRPMW49-030898-W	3/8/98	<0.22	<0.28	<0.63	<0.31	<0.47	<0.36	<0.36
IRPMW49-060498-W	6/4/98	<0.17	<0.17	<0.28 UJ	<0.17	<0.31	<0.24	<0.36
IRPMW49-090398-W	9/3/98	<0.19	<0.27	<0.45 UJ	<0.45	<0.43	<0.23	<0.28
IRPMW49-120298-W	12/2/98	<0.17	<0.17	<0.28	<0.17	<0.31	<0.24	<0.36
IRPMW49-021799-W	2/17/99	<0.32	<0.2	<0.2	<0.25	<0.41	<0.34	<0.23
IRPMW49-052099-W	5/20/99	<0.04	<0.07	<0.13	<0.06	<0.06	<0.05	<0.12
IRPMW49-081299-W	8/12/99	<0.11	<0.1	<2.1	<0.27	<0.32	<0.03	<0.34
IRPMW49-111799-W	11/17/99	<0.32	<0.2	<0.2	<0.25	<0.41	<0.34	<0.23
Analyses		12	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			100	0.2		390	700	0.86
HWAD_-_GW_Action_Level Hits			0	0		0	0	0

Sample ID	ample Date	Isopropylbenzene	Methylene chloride	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	0.6 J	<0.4	<0.5	<0.2	<0.3	<0.4	<0.2
IRPMW49-042697-W	4/26/97	<0.2	<0.7	<2.1	<0.3	<0.2	<0.8	<0.2
IRPMW49A-072397-W	7/23/97	<0.3	<0.6	<0.4	<0.3	<0.2	<0.3	<0.2
IRPMW49B-072397-W	7/23/97	<0.3	<0.6	<0.4	<0.3	<0.2	<0.3	<0.2
IRPMW49-101597-W	10/15/97	<0.3	<0.6	<0.4	<0.3	<0.2	<0.3	<0.2
IRPMW49-030898-W	3/8/98	<0.36	<0.6	<0.49	<0.22	<0.3	<0.22	<0.4
IRPMW49-060498-W	6/4/98	<0.15	<0.28 UJ-	<0.18	<0.49	<0.22	<0.28	<0.22
IRPMW49-090398-W	9/3/98	<0.29	<0.45	<0.55	<0.26	<0.27	<0.44	<0.37
IRPMW49-120298-W	12/2/98	<0.15	<0.28	<0.18	<0.49	<0.22	<0.28	<0.22
IRPMW49-021799-W	2/17/99	<0.24	<0.37	<0.41	<0.28	<0.2	<0.22	<0.2
IRPMW49-052099-W	5/20/99	<0.11	<0.06 UJ-	<0.13	<0.09	<0.1	<0.12 UJ	<0.1
IRPMW49-081299-W	8/12/99	<0.09	0.6	<0.16	<0.31	<0.16	<0.13	<0.1
IRPMW49-111799-W	11/17/99	<0.24	0.7 J	<0.41	<0.28	<0.2	<0.22	<0.2
Analyses		13	13	13	13	13	13	13
Detections		1	2	0	0	0	0	0
Minimum Concentration		0.6	0.6	0	0	0	0	0
Maximum Concentration		0.6	0.7	0	0	0	0	0
HWAD_-_GW_Action_Level		19	5	20			6.2	
HWAD_-_GW_Action_Level Hits		0	0	0			0	

Volatile Organic Compounds

Sample ID	ample Date	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.3	<0.3	NA	<0.3
IRPMW49-042697-W	4/26/97	<0.1	<0.3	<0.1	<0.1	<0.2	<0.2	<0.1
IRPMW49A-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.5	<0.3	<0.3
IRPMW49B-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.5	<0.3	<0.3
IRPMW49-101597-W	10/15/97	<0.2	<0.2	<0.2	<0.3	<0.5	<0.3	<0.3
IRPMW49-030898-W	3/8/98	<0.36	<0.3	<0.36	<0.97	<0.35	<0.36	<0.36
IRPMW49-060498-W	6/4/98	<0.28	<0.24	<0.35	<0.24	<0.25	<0.15	<0.24
IRPMW49-090398-W	9/3/98	<0.12	<0.25	<0.16	<0.21	<0.27	<0.32	<0.26
IRPMW49-120298-W	12/2/98	<0.28	<0.24	<0.35	<0.24	<0.25	<0.15	<0.24
IRPMW49-021799-W	2/17/99	<0.22	<0.21	<0.24	<0.37	<0.46	<0.48	<0.26
IRPMW49-052099-W	5/20/99	<0.07	<0.1	<0.07	<0.06	<0.07	<0.05	<0.05
IRPMW49-081299-W	8/12/99	<0.16	<0.17	<0.21	<0.4	<0.27	<0.14	<0.3
IRPMW49-111799-W	11/17/99	<0.22	<0.21	<0.24	<0.37	<0.46	<0.48	<0.26
Analyses		13	13	13	13	13	12	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		100		5	1000	100	0.081	5
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0

Sample ID	ample Date	Trichlorofluoromethane	Vinyl chloride	Xylenes-m&-p	Xylene-o
		ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.2	<0.2	<0.5	<0.2
IRPMW49-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.1
IRPMW49A-072397-W	7/23/97	<0.5	<0.3	<0.4	<0.3
IRPMW49B-072397-W	7/23/97	<0.5	<0.3	<0.4	<0.3
IRPMW49-101597-W	10/15/97	<0.5	<0.3	<0.4	<0.3
IRPMW49-030898-W	3/8/98	<0.31	<0.38	NA	<0.34
IRPMW49-060498-W	6/4/98	<0.31	<0.3	NA	<0.24
IRPMW49-090398-W	9/3/98	<0.44	<0.36	NA	<0.19
IRPMW49-120298-W	12/2/98	<0.31	<0.3	NA	<0.24
IRPMW49-021799-W	2/17/99	<0.73	<0.51	<0.93	<0.3
IRPMW49-052099-W	5/20/99	<0.04	<0.25	<0.11	<0.03
IRPMW49-081299-W	8/12/99	<0.25	<0.18	<0.17	<0.1
IRPMW49-111799-W	11/17/99	<0.73	<0.51	<0.93	<0.3
Analyses		13	13	9	13
Detections		0	0	0	0
Minimum Concentration		0	0	0	0
Maximum Concentration		0	0	0	0
HWAD_-_GW_Action_Level		1300		10000	10000
HWAD_-_GW_Action_Level Hits		0		0	0

Sample ID	ample Date	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4
IRPMW49-042697-W	4/26/97	<1.3	<1.8	<1.4	<2.7	<1.3	<1.5	<3.6
IRPMW49A-072397-W	7/23/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4
IRPMW49B-072397-W	7/23/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4
IRPMW49-101597-W	10/15/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4
IRPMW49-030898-W	3/8/98	<1.6	<1.6	<1.6	<0.54	<1.5	<1.4	<3.5
IRPMW49-060498-W	6/4/98	<1.2	<0.94	<1	<0.54	<0.9	<1	<1.2
IRPMW49-090398-W	9/3/98	<19.2	<15.2	<16	<8.8	<16	<16	<19.2
IRPMW49-120298-W	12/2/98	<1.3	<1.1	<1.1	<1.5	<0.9	<1	<1.2
IRPMW49-021799-W	2/17/99	<1.4	<1.6	<1.4	<0.87	<1.4	<1.3	<1.2
IRPMW49-052099-W	5/20/99	<1.3	<1.5	<1.4	<1.6	<1.1	<1.2	<1.2
IRPMW49-081299-W	8/12/99	<1.4	<1.6	<1.4	<0.87	<1.4	<1.3	<1.2
IRPMW49-111799-W	11/17/99	<1.3	<1.5	<1.4	<1.6	<1.1	<1.2	<1.2
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		11	70	600	0.084	17	75	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	

Sample ID	ample Date	1-Naphthylamine	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.7	<0.5	<1.7	<0.5	<0.6	<0.9	<13 UJ
IRPMW49-042697-W	4/26/97	<3.9	<1.4	<1.2	<1.1	<1.5	<5.2	<9.2 UJ
IRPMW49A-072397-W	7/23/97	<0.7	<0.5	<1.7	<0.5	<0.6	<0.9	<13
IRPMW49B-072397-W	7/23/97	<0.7	<0.5	<1.7	<0.5	<0.6	<0.9	<13
IRPMW49-101597-W	10/15/97	<0.7 UJ	<0.5	<1.7	<0.5	<0.6	<0.9	<13
IRPMW49-030898-W	3/8/98	<2.4	<1.7	<1.4	<1.7	<1.6	<1.4	<12
IRPMW49-060498-W	6/4/98	<0.84	<1.1	<0.9	<1.2	<1.2	<1.2	<6
IRPMW49-090398-W	9/3/98	<13.6 UJ	<17.6	<16	<19.2	<19.2	<19.2	<96
IRPMW49-120298-W	12/2/98	<0.74	<1.5	<1.3	<1.3	<1.2	<1.1	<2.1
IRPMW49-021799-W	2/17/99	<4.7	<1.3	<1.8	<1.7	<1.8	<1.4	<11
IRPMW49-052099-W	5/20/99	<4.7	<1.7	<1.5	<1.5	<1.8	<1.3	<11
IRPMW49-081299-W	8/12/99	<4.7	<1.3	<1.8	<1.7	<1.8	<1.4	<11
IRPMW49-111799-W	11/17/99	<4.7	<1.7	<1.5	<1.5	<1.8	<1.3	<11 UJ-
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			1100	3700	6.1	110	730	73
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.7	<0.6	<0.5	<0.8	<0.7	<0.8	<0.5
IRPMW49-042697-W	4/26/97	<0.2	<1.5	<1.1	<2	<1.5	<2.1	<1.7
IRPMW49A-072397-W	7/23/97	<0.7	<0.6	<0.5	<0.8	<0.7	<0.8	<0.5
IRPMW49B-072397-W	7/23/97	<0.7	<0.6	<0.5	<0.8	<0.7	<0.8	<0.5
IRPMW49-101597-W	10/15/97	<0.7	NA	<0.5	<0.8	<0.7	<0.8	<0.5
IRPMW49-030898-W	3/8/98	<1.7	NA	<1.7	<1.5	<1.3	<1.1	<2.3
IRPMW49-060498-W	6/4/98	<0.54	NA	<1.2	<1.6	<1.1	<1.2	<2.5
IRPMW49-090398-W	9/3/98	<8.8	NA	<19.2	<25.6	<17.6	<19.2	<40
IRPMW49-120298-W	12/2/98	<1.2	NA	<1.2	<1.1	<1.2	<1.1	<2.7
IRPMW49-021799-W	2/17/99	<1.5	NA	<1.8	<2.6	<1.3	<2.3	<0.7
IRPMW49-052099-W	5/20/99	<1.2	NA	<1.7	<1.7	<1.5	<1.7	<1.2
IRPMW49-081299-W	8/12/99	<1.5	NA	<1.8	<2.6	<1.3	<2.3	<0.7
IRPMW49-111799-W	11/17/99	<1.2	NA	<1.7	<1.7	<1.5	<1.7	<1.2
Analyses		13	4	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		73		37	490	38		1800
HWAD_-_GW_Action_Level Hits		0		0	0	0		0

Sample ID	ample Date	2-Naphthylamine	2-Nitroaniline	2-Nitrophenol	2-Picoline	3,3-Dichlorobenzidine	3-Methylcholanthrene	3-Nitroaniline
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<1	<0.4	<0.8	<0.5	<1.7	<0.6	<3.8
IRPMW49-042697-W	4/26/97	<2.8 UJ	<1.4	<1.3	<1.9	<2.1	<1.7	<1.3
IRPMW49A-072397-W	7/23/97	<1	<0.4	<0.8	<0.5	<1.7	<0.6	<3.8
IRPMW49B-072397-W	7/23/97	<1	<0.4	<0.8	<0.5	<1.7	<0.6	<3.8
IRPMW49-101597-W	10/15/97	<1 UJ	<0.4	<0.8	<0.5	<1.7	NA	<3.8
IRPMW49-030898-W	3/8/98	<2.1	<1.5	<1.3	<1.3	<2.7	NA	<1.8
IRPMW49-060498-W	6/4/98	<1.3	<0.86	<0.98	<1.2	<0.6	NA	<1.2
IRPMW49-090398-W	9/3/98	<20.8 UJ	<13.6	<15.6	<19.2	<8	NA	<19.2
IRPMW49-120298-W	12/2/98	<0.82	<1.3	<1.3	<0.88	<2.4	NA	<1.3
IRPMW49-021799-W	2/17/99	<5.7	<7.9	<1.4	<1.1	<6.4	NA	<8.5
IRPMW49-052099-W	5/20/99	<4.7	<6.8	<1.3	<1.5	<5	NA	<6.3
IRPMW49-081299-W	8/12/99	<5.7 UJ	<7.9	<1.4	<1.1	<6.4	NA	<8.5
IRPMW49-111799-W	11/17/99	<4.7	<6.8	<1.3	<1.5	<5	NA	<6.3
Analyses		13	13	13	13	13	4	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			2.2			0.15		
HWAD_-_GW_Action_Level Hits			0			0		

Sample ID	ample Date	3/4-Methylphenol (m/p-Cresol)	4,6-Dinitrophenol-o-cresol	4-Aminobiphenyl	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	NA	<2.4	<0.7	<0.6	<0.6	<0.7	<0.7
IRPMW49-042697-W	4/26/97	<4.2	<2.3	<1.4	<1.6	<1.7	<1.1	<1.2
IRPMW49A-072397-W	7/23/97	<1	<2.4	<0.7	<0.6	<0.6	<0.7	<0.7
IRPMW49B-072397-W	7/23/97	<1	<2.4	<0.7	<0.6	<0.6	<0.7	<0.7
IRPMW49-101597-W	10/15/97	NA	<2.4	<0.7	<0.6	<0.6	<0.7	<0.7
IRPMW49-030898-W	3/8/98	NA	<2.9	<1.5	<0.61	<1.6	<0.63	<1.3
IRPMW49-060498-W	6/4/98	NA	<2.3	<1.6	<0.6	<1.2	<1.2	<0.79
IRPMW49-090398-W	9/3/98	NA	<36.8	<25.6	<9.6	<19.2	<19.2	<12.8
IRPMW49-120298-W	12/2/98	NA	<0.89	<1.6	<1.5	<1.3	<1.1	<1.2
IRPMW49-021799-W	2/17/99	NA	<5.5	<1.5	<2.1	<1.3	<5.9	<1.6
IRPMW49-052099-W	5/20/99	NA	<5.2	<0.67	<1.2	<1.4	<9.3	<1.4
IRPMW49-081299-W	8/12/99	NA	<5.5	<1.5	<2.1	<1.3	<5.9	<1.6
IRPMW49-111799-W	11/17/99	NA	<5.2	<0.67	<1.2	<1.4	<9.3	<1.4
Analyses		3	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		180					150	
HWAD_-_GW_Action_Level Hits		0					0	

Semivolatile Organic Compounds

Sample ID	ample Date	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	7,12-Dimethylbenz(a)anthracene	a,a-Dimethylphenethylamine	Acenaphthene	Acenaphthylene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<1	<1.1	<3.2	<0.8	<2	<0.7	<0.6
IRPMW49-042697-W	4/26/97	NA	<1.7	<2.1	<4.6	<1.3 UJ-	<1.8	<2.1
IRPMW49A-072397-W	7/23/97	NA	<1.1	<3.2	<0.8	<2 UJ-	<0.7	<0.6
IRPMW49B-072397-W	7/23/97	NA	<1.1	<3.2	<0.8	<2 UJ-	<0.7	<0.6
IRPMW49-101597-W	10/15/97	<1	<1.1	<3.2	<0.8	<2	<0.7	<0.6
IRPMW49-030898-W	3/8/98	<2.3	<2	<1.9	<2.7	<3.5	<1.6	<1.4
IRPMW49-060498-W	6/4/98	<2.5	<1	<1.6	<0.67	<4.2	<1.1	<1.1
IRPMW49-090398-W	9/3/98	<40	<16	<25.6	<10.8	<68	<16.8	<17.6
IRPMW49-120298-W	12/2/98	<2.7	<1.4	<2.2	<1.2	<2.7	<1.2	<1.2
IRPMW49-021799-W	2/17/99	<1.7	<5.7	<3.7	<2.1	<5.8	<1.6	<1.4
IRPMW49-052099-W	5/20/99	<1.7	<7.1	<3.6	<0.67	<1.3	<1.4	<1.5
IRPMW49-081299-W	8/12/99	<1.7	<5.7	<3.7	<2.1	<5.8	<1.6	<1.4
IRPMW49-111799-W	11/17/99	<1.7	<7.1	<3.6	<0.67	<1.3	<1.4	<1.5
Analyses		10	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		180					370	
HWAD_-_GW_Action_Level Hits		0					0	

Sample ID	ample Date	Acetophenone	Aniline	Anthracene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.5	<1.1	<0.5	<1.7 UJ-	<0.8	<0.7	<0.5
IRPMW49-042697-W	4/26/97	<1.2	<1.1	<2.1	<1.4 UJ	<1.9	<1.5	<1.8
IRPMW49A-072397-W	7/23/97	<0.5	<1.1	<0.5	<1.7 UJ-	<0.8	<0.7	<0.5
IRPMW49B-072397-W	7/23/97	<0.5	<1.1	<0.5	<1.7 UJ-	<0.8	<0.7	<0.5
IRPMW49-101597-W	10/15/97	<0.5	<1.1	<0.5	<1.7 UJ	<0.8	<0.7	<0.5
IRPMW49-030898-W	3/8/98	<1.3	<1.5	<0.8	<2.1	<0.6	<2.5	<0.69
IRPMW49-060498-W	6/4/98	<0.99	<1.5	<1.5	<1.8	<0.69	<2.2	<1.9
IRPMW49-090398-W	9/3/98	<16	<24	<24	<28.8	<11.2	<35.2	<30.4
IRPMW49-120298-W	12/2/98	<1.4	<0.95	<1.4	<0.47	<3	<3.1	<2.7
IRPMW49-021799-W	2/17/99	<0.88	<0.78	<1.4	<3.8	<1.8	<2	<1.8
IRPMW49-052099-W	5/20/99	<1.5	<2	<1.1	<3.8	<1.1	<2.2	<1
IRPMW49-081299-W	8/12/99	<0.88	<0.78	<1.4	<3.8	<1.8	<2	<1.8
IRPMW49-111799-W	11/17/99	<1.5	<2	<1.1	<3.8	<1.1	<1.2	<1
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.042	12	1800	0.00029	0.1	0.2	0.2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0

Sample ID	ample Date	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl)-ether
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.8	<0.9	<3.2 UJ	<0.5	<0.8	<0.7	<1.8 UJ-
IRPMW49-042697-W	4/26/97	<1.5	<2.4	<3 UJ	<1.1	<1.4	<1.2	<2.3
IRPMW49A-072397-W	7/23/97	<0.8	<0.9	<3.2 UJ	<0.5	<0.8	<0.7	<1.8
IRPMW49B-072397-W	7/23/97	<0.8	<0.9	<3.2 UJ	<0.5	<0.8	<0.7	<1.8
IRPMW49-101597-W	10/15/97	<0.8	<0.9	<3.2	<0.5	<0.8	<0.7	<1.8
IRPMW49-030898-W	3/8/98	<2.6	<0.69	<2.7 UJ-	<1	<1.6	<1.9	<2.3
IRPMW49-060498-W	6/4/98	<0.57	<0.81	<3.2	<1.5	<1.2	<1.1	<2.3
IRPMW49-090398-W	9/3/98	<9.2	<12.8	<52	<24	<19.2	<17.6	<36.8
IRPMW49-120298-W	12/2/98	<4.3	<3.3	<1	<1.3	<1.2	<1.2	<1
IRPMW49-021799-W	2/17/99	<1.6	<2.3	<3.8	<0.53	<1.1	<2.4	<1.3
IRPMW49-052099-W	5/20/99	<1.5	<1.3	<3.6	<1.5	<1.5	<1.4	<1.4
IRPMW49-081299-W	8/12/99	<1.6	<2.3	<3.8	<0.53	<1.1	<2.4	<1.3
IRPMW49-111799-W	11/17/99	<1.5	<1.3	<3.6	<1.5	<1.5	<1.4	<1.4
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				150000	11000		0.0098	0.27
HWAD_-_GW_Action_Level Hits				0	0		0	0

Sample ID	ample Date	bis(2-Ethylhexyl)-phthalate	Butyl benzyl phthalate	Chrysene	Di-n-Butyl-phthalate	Di-n-octyl phthalate	Dibenz(a,h)anthracene	Dibenz(a,j)acridine	Dibenzofuran
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<2.4	<0.7	<0.6	<1.3	<0.7	<0.7	<0.6	<0.6
IRPMW49-042697-W	4/26/97	5 J	<2.3	<1.1	2 J	<1.3	<1.4	<1.2	<2.3
IRPMW49A-072397-W	7/23/97	32 J	<0.7	<0.6	<1.3	<0.7	<0.7	<0.6	<0.6
IRPMW49B-072397-W	7/23/97	18 J	2 J	<0.6	<1.3	<0.7	<0.7	<0.6	<0.6
IRPMW49-101597-W	10/15/97	<2.4	10 J	<0.6	<1.3	<0.7	<0.7	<0.6	<0.6
IRPMW49-030898-W	3/8/98	6 J	10	<0.5	1 J	<2.8	<2.6	<2.4	<1.5
IRPMW49-060498-W	6/4/98	<2.6	9 J	<0.7	<2.5	<2.6	<2.1	<2	<0.93
IRPMW49-090398-W	9/3/98	270	17 J	<11.2	<40	<40	<33.6	<32	<14.8
IRPMW49-120298-W	12/2/98	<3.5	11	<3.2	<2.7	<2.7	<4.3	<1.9	<1.3
IRPMW49-021799-W	2/17/99	<2.8	10	<1.6	<1.8	<3.1	<1.6	<1.5	<1.5
IRPMW49-052099-W	5/20/99	1 J	7 J	<1.3	<0.97	<1.4	<1.3	<1.4	<1.6
IRPMW49-081299-W	8/12/99	<2.8	<2.3	<1.6	<1.8	<3.1	<1.6	<1.5	<1.5
IRPMW49-111799-W	11/17/99	<1.1	12	<1.3	<0.97	<1.4	<1.3	<1.4	<1.6
Analyses		13	13	13	13	13	13	13	13
Detections		6	9	0	2	0	0	0	0
Minimum Concentration		1	2	0	1	0	0	0	0
Maximum Concentration		270	17	0	2	0	0	0	0
HWAD_-_GW_Action_Level		6	100	0.2	3700	730	0.0092		24
HWAD_-_GW_Action_Level Hits		4	0	0	0	0	0		0

Sample ID	ample Date	Diethyl phthalate	Dimethyl phthalate	Diphenylamine	Ethyl methanesulfonate	Fluoranthene	Fluorene	Hexachlorobenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW49-042697-W	4/26/97	<2	<1.2	<1.3	<1.2	<1.7	<2.1	<2.4
IRPMW49A-072397-W	7/23/97	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW49B-072397-W	7/23/97	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW49-101597-W	10/15/97	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW49-030898-W	3/8/98	<1.5	<1.5	<1.5	<0.8	<1.2	<1.2	<1.3
IRPMW49-060498-W	6/4/98	<0.85	<0.8	<0.89	<0.8	<0.72	<0.78	<0.65
IRPMW49-090398-W	9/3/98	<13.6	<12	<14.4	<12	<11.6	<12.4	<10.4
IRPMW49-120298-W	12/2/98	<1.5	<1.5	<1.6	<0.8	<2.4	<1.3	<1.4
IRPMW49-021799-W	2/17/99	<1.7	<1.5	<1.5	<1.3	<1.6	<1.6	<1.6
IRPMW49-052099-W	5/20/99	<1.3	<1.4	<1.1	<1.1	<1.1	<1.4	<1.1
IRPMW49-081299-W	8/12/99	<1.7	<1.5	<1.5	<1.3	<1.6	<1.6	<1.6
IRPMW49-111799-W	11/17/99	<1.3	<1.4	<1.1	<1.1	<1.1	<1.4	<1.1
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		29000	370000	910		1500	240	1
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	0

Sample ID	ample Date	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Methyl methanesulfonate	N-Nitroso-di-n-butylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW49-042697-W	4/26/97	<3	<5.4	<1.7	<1.2	<1.2	<1.1	<1.1
IRPMW49A-072397-W	7/23/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW49B-072397-W	7/23/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW49-101597-W	10/15/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW49-030898-W	3/8/98	<1.4	<8.5	<1.5	<2.7	<1.6	<1.4	<1.4
IRPMW49-060498-W	6/4/98	<1.2	<4.8	<0.87	<2	<1.1	<1.1	<1.1
IRPMW49-090398-W	9/3/98	<19.2	<76	<14	<32	<17.6	<17.6	<17.6
IRPMW49-120298-W	12/2/98	<0.95	<4.3	<0.95	<3.3	<1.4	<1.2	<1.6
IRPMW49-021799-W	2/17/99	<2	<8	<1	<1.9	<1.3	<0.87	<1.3
IRPMW49-052099-W	5/20/99	<1.4	<2.4	<1.4	<1.4	<1.3	<1.2	<1.3
IRPMW49-081299-W	8/12/99	<2	<8	<1	<1.9	<1.3	<0.87	<1.3
IRPMW49-111799-W	11/17/99	<1.4	<2.4	<1.4	<1.4	<1.3	<1.2	<1.3
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.86	50	4.8	0.092	71		0.002
HWAD_-_GW_Action_Level Hits		0	0	0	0	0		0

Sample ID	ample Date	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosopiperidine	Naphthalene	Nitrobenzene	p-Dimethylaminoazobenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW49-042697-W	4/26/97	<1.6	<1.1	<2.6	<1.3	<1.1	<1.7	<1.1
IRPMW49A-072397-W	7/23/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW49B-072397-W	7/23/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW49-101597-W	10/15/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW49-030898-W	3/8/98	<1.3	<1.4	<1.6	<1.5	<1.4	<0.94	<0.65
IRPMW49-060498-W	6/4/98	<1.5	<0.89	<0.99	<0.87	<1.1	<0.93	<0.65
IRPMW49-090398-W	9/3/98	<24	<14.4	<16	<14	<17.6	<14.8	<10.4
IRPMW49-120298-W	12/2/98	<1.4	<1.6	<1.5	<1.2	<1.1	<1.2	<0.65
IRPMW49-021799-W	2/17/99	<1.9	<1.6	<7.1	<1.7	<1.5	<0.83	<1.1
IRPMW49-052099-W	5/20/99	<1.3	<1.2	<5.2	<1.2	<1.4	<0.79	<1.2
IRPMW49-081299-W	8/12/99	<1.9	<1.6	<7.1	<1.7	<1.5	<0.83	<1.1
IRPMW49-111799-W	11/17/99	<1.3	<1.2	<5.2	<1.2	<1.4	<0.79	<1.2
Analyses		13	13	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.0096	0.0013	14		6.2	3.4	
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	

Sample ID	ample Date	Pentachlorobenzene	Pentachloronitrobenzene	Pentachlorophenol	Phenacetin	Phenanthrene	Phenol	Pronamide
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<1.8	NA	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW49-042697-W	4/26/97	<2.1	<1.4	<6.5	<1.4	<2.5	<1.4	<1.2
IRPMW49A-072397-W	7/23/97	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW49B-072397-W	7/23/97	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW49-101597-W	10/15/97	<1.8	NA	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW49-030898-W	3/8/98	<1.6	<3.3	<15	<0.99	<1	<1.7	<1.6
IRPMW49-060498-W	6/4/98	<0.94	<0.51	<11	<2.2	<1.1	<1.1	<0.57
IRPMW49-090398-W	9/3/98	<15.2	<8	<176	<35.2	<17.6	<17.6	<9.2
IRPMW49-120298-W	12/2/98	<1.2	<1.7	<9.1	<3.5	<1.6	<1.1	<2.9
IRPMW49-021799-W	2/17/99	<1.8	<1.3	<3.7 UJ-	<0.84	<1.5	<0.55	<1.8
IRPMW49-052099-W	5/20/99	<1.5	<1	<11	<1.1	<1.2	<2.1	<1.3
IRPMW49-081299-W	8/12/99	<1.8	<1.3	<3.7	<0.84	<1.5	<0.55	<1.8
IRPMW49-111799-W	11/17/99	<1.5	<1	<11	<1.1	<1.2	<2.1	<1.3
Analyses		13	11	13	13	13	13	13
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		29	0.26	1			22000	2700
HWAD_-_GW_Action_Level Hits		0	0	0			0	0

Sample ID	ample Date	Pyrene
		ug/l
IRPMW49-020197-W	2/1/97	<0.6
IRPMW49-042697-W	4/26/97	<2.4
IRPMW49A-072397-W	7/23/97	<0.6
IRPMW49B-072397-W	7/23/97	<0.6
IRPMW49-101597-W	10/15/97	<0.6
IRPMW49-030898-W	3/8/98	<0.54
IRPMW49-060498-W	6/4/98	<0.57
IRPMW49-090398-W	9/3/98	<9.2
IRPMW49-120298-W	12/2/98	<2.1
IRPMW49-021799-W	2/17/99	<1.8
IRPMW49-052099-W	5/20/99	<1.1
IRPMW49-081299-W	8/12/99	<1.8
IRPMW49-111799-W	11/17/99	<1.1

Analyses	13
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD_-_GW_Action_Level	180
HWAD_-_GW_Action_Level Hits	0

Explosives

Sample ID	ample Date	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2/4-Nitrotoluene	2,6-Dinitrotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW49-042697-W	4/26/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW49A-072397-W	7/23/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW49B-072397-W	7/23/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW49-101597-W	10/15/97	<0.1	<0.061	<0.094	<0.02	NA	<0.066
IRPMW49-030898-W	3/8/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW49-060498-W	6/4/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW49-090398-W	9/3/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW49-120298-W	12/2/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW49-021799-W	2/17/99	<0.22	<0.22	<0.13	<0.13	<0.05	<0.16
IRPMW49-052099-W	5/20/99	<0.22	<0.22	<0.13	<0.13	<0.05	<0.16
IRPMW49-081299-W	8/12/99	<0.22	<0.22	<0.13	<0.13	NA	<0.16
IRPMW49-111799-W	11/17/99	<0.22	<0.22	<0.13	<0.13	NA	<0.16
Analyses		13	13	13	13	2	13
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3.7	2.2	73		37
HWAD_-_GW_Action_Level Hits		0	0	0	0		0

Explosives

Sample ID	ample Date	2-Amino-4,6-dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	HMX
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW49-042697-W	4/26/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW49A-072397-W	7/23/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW49B-072397-W	7/23/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW49-101597-W	10/15/97	<0.022	<0.14	<0.11	<0.022	<0.13	<0.15
IRPMW49-030898-W	3/8/98	<0.14	<0.074	<0.16	<0.13	<0.074	<0.11
IRPMW49-060498-W	6/4/98	<0.14	NA	<0.16	<0.13	NA	<0.11
IRPMW49-090398-W	9/3/98	NA	NA	<0.16	<0.13	NA	<0.11
IRPMW49-120298-W	12/2/98	NA	NA	<0.16	<0.13	NA	<0.11
IRPMW49-021799-W	2/17/99	<0.11	NA	<0.063	<0.13	NA	<0.25
IRPMW49-052099-W	5/20/99	<0.11	NA	<0.063	<0.13	NA	<0.25
IRPMW49-081299-W	8/12/99	<0.11	<0.05	<0.063	<0.13	<0.05	<0.25
IRPMW49-111799-W	11/17/99	<0.11	<0.05	<0.063	<0.13	<0.05	<0.25
Analyses		11	8	13	13	8	13
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.099		370	0.099	370	1800
HWAD_-_GW_Action_Level Hits		0		0	0	0	0

Explosives

Sample ID	ample Date	Nitrobenzene	Picric Acid	RDX	Tetryl
		ug/l	ug/l	ug/l	ug/l
IRPMW49-020197-W	2/1/97	<0.073	<7.1	<0.13	0.3 J
IRPMW49-042697-W	4/26/97	<0.073	<7.1	<0.13	<0.066
IRPMW49A-072397-W	7/23/97	<0.11	<7.1	<0.13	<0.13
IRPMW49B-072397-W	7/23/97	<0.11	<7.1	<0.13	<0.13
IRPMW49-101597-W	10/15/97	<0.11	<0.3	2 J	<0.13
IRPMW49-030898-W	3/8/98	<0.11	<0.3	<0.078	<0.065
IRPMW49-060498-W	6/4/98	<0.11	<0.3	<0.078	<0.065
IRPMW49-090398-W	9/3/98	<0.11	<0.3	<0.078	<0.065
IRPMW49-120298-W	12/2/98	<0.11	NA	<0.078	<0.065
IRPMW49-021799-W	2/17/99	<0.26	<0.24	<0.29	<0.12
IRPMW49-052099-W	5/20/99	<0.26	<0.24	<0.29	<0.12
IRPMW49-081299-W	8/12/99	<0.26	<0.24	<0.29	<0.12
IRPMW49-111799-W	11/17/99	<0.26	<0.24	<0.29	<0.12
Analyses		13	12	13	13
Detections		0	0	1	1
Minimum Concentration		0	0	2	0.3
Maximum Concentration		0	0	2	0.3
HWAD_-_GW_Action_Level		3.4	1	0.61	
HWAD_-_GW_Action_Level Hits		0	0	1	

Monitoring Well Evaluation Checklist for Well No. IRPMW50

SWMU / Area	49 Group
Aquifer	WT
Well Condition	
Good	Yes
Describe Problems	None
Purpose of Well	
Primary	Downgradient of SWMUs I09/10 and I11
Secondary	Regional groundwater data
Retain for Chemical Monitoring (list compounds)	VOCs
Proposed Sample Frequency	Quarterly

Analytical Results

	Sampling Events	Date First Sampled	Date Last Sampled	Analyses	Detections	Highest Concentration	HWAD GW AL	Exceeds Standard
Explosive	12	2/1/97	11/17/99	12	1	--	--	Yes
RDX					1	2	0.61	1
VOC	12	2/1/97	11/17/99	12	21	--	--	Yes
1,2-DCA					3	0.6	5	0
MeCl					5	1	5	0
PCE					1	0.5	5	0
TCE					12	33	5	12
SVOC	12	2/1/97	11/17/99	12	11	--	--	Yes
Bis(2-ethylhexyl)phthalate					2	6	6	2
Butyl benzyl phthalate					9	5	100	0
Nitrogen Compounds	4	2/1/97	11/17/99	4	2	--	--	No
Ammonia as Nitrogen					1	0.1	NE	0
Total Kjeldahl Nitrogen					1	0.2	NE	0

ND = Non-detect
NE = Not established

Water Characterisitics

Sample ID	ample Date	Ammonia as Nitrogen	Calcium, Total	Iron, Total	Kjeldahl Nitrogen, Total	Magnesium, Total	Potassium, Total	Sodium, Total
		mg/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.06	90000	69.1	<0.1	13800	8750	192000
IRPMW50-042697-W	4/26/97	<0.06	91700	19.2 J	<0.1	13700	11300	192000
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	<0.07	92700	8.9 J	<0.1	13700	10900 E	208000
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	0.1 J	90000 J	50.1 J	0.2 J	12900 J	11600 J	198000 J
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA
Analyses		4	4	4	4	4	4	4
Detections		1	4	4	1	4	4	4
Minimum Concentration		0.1	90000	8.9	0.2	12900	8750	192000
Maximum Concentration		0.1	92700	69.1	0.2	13800	11600	208000
HWAD_-_GW_Action_Level				11000				
HWAD_-_GW_Action_Level Hits				0				

Water Characterisitics

Sample ID	ample Date	Solids, Total Dissolved
		mg/l
IRPMW50-020197-W	2/1/97	1020
IRPMW50-042697-W	4/26/97	1010
IRPMW50-072397-W	7/23/97	NA
IRPMW50-101597-W	10/15/97	NA
IRPMW50-030898-W	3/8/98	NA
IRPMW50-060498-W	6/4/98	NA
IRPMW50-090398-W	9/3/98	NA
IRPMW50-120298-W	12/2/98	NA
IRPMW50-021799-W	2/17/99	NA
IRPMW50-052099-W	5/20/99	NA
IRPMW50-081299-W	8/12/99	NA
IRPMW50-111799-W	11/17/99	NA

Analyses	2
Detections	2
Minimum Concentration	1010
Maximum Concentration	1020

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Nitrogen Compounds

Sample ID	ample Date	Ammonia as Nitrogen	Kjeldahl Nitrogen, Total
		mg/l	mg/l
IRPMW50-020197-W	2/1/97	<0.06	<0.1
IRPMW50-042697-W	4/26/97	<0.06	<0.1
IRPMW50-072397-W	7/23/97	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA
IRPMW50-030898-W	3/8/98	<0.07	<0.1
IRPMW50-060498-W	6/4/98	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA
IRPMW50-021799-W	2/17/99	0.1 J	0.2 J
IRPMW50-052099-W	5/20/99	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA
Analyses		4	4
Detections		1	1
Minimum Concentration		0.1	0.2
Maximum Concentration		0.1	0.2
HWAD_-_GW_Action_Level			
HWAD_-_GW_Action_Level Hits			

Total Metals

Sample ID	ample Date	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Lead, Total	Mercury, Total	Selenium, Total
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	2.2 J	NA	<0.2	<0.1	3.7 J	<0.6	<0.15	2.6 J
IRPMW50-042697-W	4/26/97	3.3 J	NA	<0.2	<0.1	4 J	0.7 J	<0.15	<2.3
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	4.2	49.1	NA	<0.51	<1	<0.9	<0.16	2.2
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	2.9 J	32.6 J	NA	<0.61 UJ	4.1 J	<1.1 UJ	0.44 J	3.1 J
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA	NA
Analyses		4	2	2	4	4	4	4	4
Detections		4	2	0	0	3	1	1	3
Minimum Concentration		2.2	32.6	0	0	3.7	0.7	0.44	2.2
Maximum Concentration		4.2	49.1	0	0	4.1	0.7	0.44	3.1
HWAD_-_GW_Action_Level		50	2000	4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	0

Total Metals

Sample ID	ample Date	Silver, Total	
		ug/l	
IRPMW50-020197-W	2/1/97	<1.1	
IRPMW50-042697-W	4/26/97	<1.1	
IRPMW50-072397-W	7/23/97	NA	
IRPMW50-101597-W	10/15/97	NA	
IRPMW50-030898-W	3/8/98	<1	
IRPMW50-060498-W	6/4/98	NA	
IRPMW50-090398-W	9/3/98	NA	
IRPMW50-120298-W	12/2/98	NA	
IRPMW50-021799-W	2/17/99	<0.9	UJ
IRPMW50-052099-W	5/20/99	NA	
IRPMW50-081299-W	8/12/99	NA	
IRPMW50-111799-W	11/17/99	NA	

Analyses	4
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD_-_GW_Action_Level	180
HWAD_-_GW_Action_Level Hits	0

Dissolved Metals

Sample ID	ample Date	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Lead, Dissolved	Mercury, Dissolved	Selenium, Dissolved
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<1.2	NA	<0.2	<0.1	3 J	<0.6	<0.15	4 J
IRPMW50-042697-W	4/26/97	3.9 J	NA	<0.2	<0.1	3.2 J	1.5 J	<0.15	<2.3
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	6.3	48.3	NA	<0.51	<1	<0.9	<0.16	3.5
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	1.5 J	35.3	NA	<0.61	3.2 J	<1.1	0.2 J	<1.9
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA	NA	NA
Analyses		4	2	2	4	4	4	4	4
Detections		3	2	0	0	3	1	1	2
Minimum Concentration		1.5	35.3	0	0	3	1.5	0.2	3.5
Maximum Concentration		6.3	48.3	0	0	3.2	1.5	0.2	4
HWAD_-_GW_Action_Level		50		4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0	0

Dissolved Metals

Sample ID	ample Date	Silver, Dissolved
		ug/l
IRPMW50-020197-W	2/1/97	<1.1
IRPMW50-042697-W	4/26/97	<1.1
IRPMW50-072397-W	7/23/97	NA
IRPMW50-101597-W	10/15/97	NA
IRPMW50-030898-W	3/8/98	<1
IRPMW50-060498-W	6/4/98	NA
IRPMW50-090398-W	9/3/98	NA
IRPMW50-120298-W	12/2/98	NA
IRPMW50-021799-W	2/17/99	<0.9
IRPMW50-052099-W	5/20/99	NA
IRPMW50-081299-W	8/12/99	NA
IRPMW50-111799-W	11/17/99	NA

Analyses	4
Detections	0
Minimum Concentration	0
Maximum Concentration	0
HWAD_-_GW_Action_Level	180
HWAD_-_GW_Action_Level Hits	0

Pesticides

Sample ID	ample Date	2,4,5-T	2,4,5-TP (Silvex)	2,4-D	2,4-DB	4,4-DDD	4,4-DDE
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.039	<0.009	<0.009	<0.014	<0.003	<0.002
IRPMW50-042697-W	4/26/97	<0.039	<0.009	<0.009	<0.014	<0.032	<0.022
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		370	50	70	290	0.28	0.2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

Sample ID	ample Date	4,4-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane	Dalapon
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.003	<0.003	<0.002	<0.001	<0.027	<0.029
IRPMW50-042697-W	4/26/97	<0.032	<0.026	<0.018	<0.013	<0.05	<0.029
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2	0.004	0.011	0.037	2	200
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Sample ID	ample Date	delta-BHC	Dicamba	Dichloroprop	Dieldrin	Dinoseb	Endosulfan I
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.001	<0.008	<0.01	<0.003	<0.027	<0.004
IRPMW50-042697-W	4/26/97	<0.011	<0.008	<0.01	<0.027	<0.027	<0.038
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level			1100		0.0042	7	220
HWAD_-_GW_Action_Level Hits			0		0	0	0

Pesticides

Sample ID	ample Date	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.003	<0.014	<0.0008	<0.003	<0.002	<0.002
IRPMW50-042697-W	4/26/97	<0.025	<0.14	<0.008	<0.028	<0.02	<0.017
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level				2			0.2
HWAD_-_GW_Action_Level Hits				0			0

Pesticides

Sample ID	ample Date	Heptachlor	Heptachlor epoxide	MCPA	MCPP	Methoxychlor	Toxaphene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.002	<0.0009	<1	<1	<0.003	<0.029
IRPMW50-042697-W	4/26/97	<0.024	<0.009	<1 UJ	<1 UJ	<0.026	<0.29
IRPMW50-072397-W	7/23/97	NA	NA	NA	NA	NA	NA
IRPMW50-101597-W	10/15/97	NA	NA	NA	NA	NA	NA
IRPMW50-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
IRPMW50-060498-W	6/4/98	NA	NA	NA	NA	NA	NA
IRPMW50-090398-W	9/3/98	NA	NA	NA	NA	NA	NA
IRPMW50-120298-W	12/2/98	NA	NA	NA	NA	NA	NA
IRPMW50-021799-W	2/17/99	NA	NA	NA	NA	NA	NA
IRPMW50-052099-W	5/20/99	NA	NA	NA	NA	NA	NA
IRPMW50-081299-W	8/12/99	NA	NA	NA	NA	NA	NA
IRPMW50-111799-W	11/17/99	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.4	0.2	18	37	40	3
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Volatile Organic Compounds

Sample ID	ample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3
IRPMW50-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.2	<0.1	<0.7	<0.1
IRPMW50-072397-W	7/23/97	<0.2	<0.1	<0.2	<0.2	<0.3	<0.5	<0.2
IRPMW50-101597-W	10/15/97	<0.2	<0.1	<0.2	<0.2	<0.3	<0.5	<0.2
IRPMW50-030898-W	3/8/98	<0.35	<0.36	<0.38	<0.36	<0.22	<0.34	<0.28
IRPMW50-060498-W	6/4/98	<0.17	<0.24	<0.17	<0.12	<0.17	<0.22	<0.24
IRPMW50-090398-W	9/3/98	<0.23	<0.23	<0.26	<0.27 UJ	<0.18	<0.28	<0.29
IRPMW50-120298-W	12/2/98	<0.17	<0.24	<0.17	<0.12	<0.17	<0.22	<0.24
IRPMW50-021799-W	2/17/99	<0.21	<0.14	<0.34	<0.22	<0.22	<0.31	<0.33
IRPMW50-052099-W	5/20/99	<0.05	<0.06	<0.11	<0.06	<0.07	<0.06	<0.05
IRPMW50-081299-W	8/12/99	<0.3	<0.06	<0.13	<0.17	<0.09	<0.13	<0.12
IRPMW50-111799-W	11/17/99	<0.21	<0.14	<0.34	<0.22	<0.22	<0.31	<0.33
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.43	200	0.055	5	810	7	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	

Sample ID	ample Date	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.4	<0.8	<0.4	<0.2	<0.3	<0.2	<0.8
IRPMW50-042697-W	4/26/97	<0.5	<0.2	<0.3	<0.1	<0.2	<0.4	<0.2
IRPMW50-072397-W	7/23/97	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.5
IRPMW50-101597-W	10/15/97	<0.3	<0.4	<0.3	<0.3	<0.3	<0.4	<0.5
IRPMW50-030898-W	3/8/98	<0.3	<0.31	<0.3	<0.31	<0.31	<0.36	<0.36
IRPMW50-060498-W	6/4/98	<0.26	<0.17 UJ	<0.34	<0.15	<0.18	<0.15	<0.15
IRPMW50-090398-W	9/3/98	<0.15	<0.38	<0.29	<0.34	<0.34	<0.27	<0.21
IRPMW50-120298-W	12/2/98	<0.26	<0.17 UJ	<0.34	<0.15	<0.18	<0.15	0.6 J
IRPMW50-021799-W	2/17/99	<0.28	<0.41	<0.33	<0.25	<0.17	<0.25	<0.31
IRPMW50-052099-W	5/20/99	<0.16	<0.12	<0.09	<0.09	<0.08	<0.07	0.5 J
IRPMW50-081299-W	8/12/99	<0.2	<0.27	<0.09	<0.34	<0.1	<0.24	0.4 J
IRPMW50-111799-W	11/17/99	<0.28	<0.41	<0.33	<0.25	<0.17	<0.25	<0.31
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	3
Minimum Concentration		0	0	0	0	0	0	0.4
Maximum Concentration		0	0	0	0	0	0	0.6
HWAD_-_GW_Action_Level			0.0016	70	12	0.05	600	5
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
IRPMW50-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.1	<0.2	<0.8 UJ-	<0.2
IRPMW50-072397-W	7/23/97	<0.2	<0.2	<0.4	<0.2	<0.3	<0.4	<0.2
IRPMW50-101597-W	10/15/97	<0.2	<0.2	<0.4	<0.2	<0.3	<0.4	<0.2
IRPMW50-030898-W	3/8/98	<0.22	<0.38	<0.38	<0.36	<0.3	<0.31	<0.3
IRPMW50-060498-W	6/4/98	<0.17	<0.12	<0.24	<0.17	<0.17	<0.31	<0.36
IRPMW50-090398-W	9/3/98	<0.32	<0.3	<0.38	<0.16	<0.44	<0.21	<0.29
IRPMW50-120298-W	12/2/98	<0.17	<0.12	<0.24	<0.17	<0.17	<0.31	<0.36
IRPMW50-021799-W	2/17/99	<0.22	<0.27	<0.27	<0.14	<0.28	<0.57	<0.28
IRPMW50-052099-W	5/20/99	<0.07	<0.1	<0.07	<0.07	<0.09	<0.07 UJ-	<0.11
IRPMW50-081299-W	8/12/99	<0.14	<0.1	<0.08	<0.09	<0.12	<0.2	<0.14
IRPMW50-111799-W	11/17/99	<0.22	<0.27	<0.27	<0.14	<0.28	<0.57	<0.28
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		5		17		75		120
HWAD_-_GW_Action_Level Hits		0		0		0		0

Sample ID	ample Date	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.3	<0.5	<0.2	<0.4
IRPMW50-042697-W	4/26/97	<0.2	<0.3	<0.2	<0.1	<0.2	<0.1	<0.2
IRPMW50-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2
IRPMW50-101597-W	10/15/97	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2
IRPMW50-030898-W	3/8/98	<0.4	<0.36	<0.36	<0.31	<0.47	<0.34	<0.35
IRPMW50-060498-W	6/4/98	<0.36	<0.15	<0.36	<0.15	<0.25	<0.15	<0.26 UJ
IRPMW50-090398-W	9/3/98	<0.38	<0.38	<0.14	<0.32	<0.33	<0.29	<0.45
IRPMW50-120298-W	12/2/98	<0.36	<0.15	<0.36	<0.15	<0.25	<0.15	<0.26
IRPMW50-021799-W	2/17/99	<0.37	<0.22	<0.33	<0.3	<0.4	<0.18	<0.27
IRPMW50-052099-W	5/20/99	<0.11	<0.1	<0.09	<0.07	<0.06	<0.06	<0.08
IRPMW50-081299-W	8/12/99	<0.21	<0.08	<0.1	<0.12	<0.26	<0.09	<0.2
IRPMW50-111799-W	11/17/99	<0.37	<0.22	<0.33	<0.3	<0.4	<0.18	<0.27
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				5			100	100
HWAD_-_GW_Action_Level Hits				0			0	0

Sample ID	ample Date	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2
IRPMW50-042697-W	4/26/97	<0.2 UJ	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.2
IRPMW50-072397-W	7/23/97	<0.1	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
IRPMW50-101597-W	10/15/97	<0.1	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2
IRPMW50-030898-W	3/8/98	<0.96	<0.35	<0.26	<0.57	<0.38	<0.72	<0.28
IRPMW50-060498-W	6/4/98	<0.46	<0.24	<0.26	<0.22	<0.15	<0.3 UJ	<0.26
IRPMW50-090398-W	9/3/98	<0.45	<0.27	<0.23	<0.48	<0.22	<0.44	<0.3
IRPMW50-120298-W	12/2/98	<0.46	<0.24	<0.26	<0.22	<0.15	<0.3	<0.26
IRPMW50-021799-W	2/17/99	<1.3 UJ	<0.43 UJ-	<0.23	<0.53 UJ-	<0.24	<0.34	<0.26
IRPMW50-052099-W	5/20/99	<0.08	<0.06	<0.05	<0.07	<0.07	<0.34	<0.17
IRPMW50-081299-W	8/12/99	<0.39	<0.18	<0.14	<0.43	<0.1	<0.49	<0.1
IRPMW50-111799-W	11/17/99	<1.3	<0.43	<0.23	<0.53	<0.24	<0.34	<0.26
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		8.7	5	100		100	1.5	70
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	0

Sample ID	ample Date	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	NA	<0.2	<0.9	<0.2	<0.2	<0.3	<0.4
IRPMW50-042697-W	4/26/97	<0.2	<0.1	<0.2	<0.2	<0.1	<0.2	<0.3
IRPMW50-072397-W	7/23/97	<0.2	<0.2	<0.5 UJ	<0.2	<0.5	<0.2	<0.2
IRPMW50-101597-W	10/15/97	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2	<0.2
IRPMW50-030898-W	3/8/98	<0.22	<0.28	<0.63	<0.31	<0.47	<0.36	<0.36
IRPMW50-060498-W	6/4/98	<0.17	<0.17	<0.28 UJ	<0.17	<0.31	<0.24	<0.36
IRPMW50-090398-W	9/3/98	<0.19	<0.27	<0.45 UJ	<0.45	<0.43	<0.23	<0.28
IRPMW50-120298-W	12/2/98	<0.17	<0.17	<0.28	<0.17	<0.31	<0.24	<0.36
IRPMW50-021799-W	2/17/99	<0.32	<0.2	<0.2	<0.25	<0.41	<0.34	<0.23
IRPMW50-052099-W	5/20/99	<0.04	<0.07	<0.13	<0.06	<0.06	<0.05	<0.12
IRPMW50-081299-W	8/12/99	<0.11	<0.1	<2.1	<0.27	<0.32	<0.03	<0.34
IRPMW50-111799-W	11/17/99	<0.32	<0.2	<0.2	<0.25	<0.41	<0.34	<0.23
Analyses		11	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			100	0.2		390	700	0.86
HWAD_-_GW_Action_Level Hits			0	0		0	0	0

Sample ID	ample Date	Isopropylbenzene	Methylene chloride	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.3	0.9 J	<0.5	<0.2	<0.3	<0.4	<0.2
IRPMW50-042697-W	4/26/97	<0.2	<0.7	<2.1	<0.3	<0.2	<0.8	<0.2
IRPMW50-072397-W	7/23/97	<0.3	<0.6	<0.4	<0.3	<0.2	<0.3	<0.2
IRPMW50-101597-W	10/15/97	<0.3	<0.6	<0.4	<0.3	<0.2	<0.3	<0.2
IRPMW50-030898-W	3/8/98	<0.36	<0.6	<0.49	<0.22	<0.3	<0.22	<0.4
IRPMW50-060498-W	6/4/98	<0.15	1 J-	<0.18	<0.49	<0.22	<0.28	<0.22
IRPMW50-090398-W	9/3/98	<0.29	<0.45	<0.55	<0.26	<0.27	<0.44	<0.37
IRPMW50-120298-W	12/2/98	<0.15	1 J	<0.18	<0.49	<0.22	<0.28	<0.22
IRPMW50-021799-W	2/17/99	<0.24	<0.37	<0.41	<0.28	<0.2	<0.22	<0.2
IRPMW50-052099-W	5/20/99	<0.11	<0.06 UJ-	<0.13	<0.09	<0.1	<0.12 UJ	<0.1
IRPMW50-081299-W	8/12/99	<0.09	1	<0.16	<0.31	<0.16	<0.13	<0.1
IRPMW50-111799-W	11/17/99	<0.24	1 J	<0.41	<0.28	<0.2	<0.22	<0.2
Analyses		12	12	12	12	12	12	12
Detections		0	5	0	0	0	0	0
Minimum Concentration		0	0.9	0	0	0	0	0
Maximum Concentration		0	1	0	0	0	0	0
HWAD_-_GW_Action_Level		19	5	20			6.2	
HWAD_-_GW_Action_Level Hits		0	0	0			0	

Volatile Organic Compounds

Sample ID	ample Date	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.3	<0.3	NA	32
IRPMW50-042697-W	4/26/97	<0.1	<0.3	<0.1	<0.1	<0.2	<0.2	26
IRPMW50-072397-W	7/23/97	<0.2	<0.2	<0.2	<0.3	<0.5	<0.3	28
IRPMW50-101597-W	10/15/97	<0.2	<0.2	<0.2	<0.3	<0.5	<0.3	33
IRPMW50-030898-W	3/8/98	<0.36	<0.3	<0.36	<0.97	<0.35	<0.36	30
IRPMW50-060498-W	6/4/98	<0.28	<0.24	<0.35	<0.24	<0.25	<0.15	31
IRPMW50-090398-W	9/3/98	<0.12	<0.25	<0.16	<0.21	<0.27	<0.32	29
IRPMW50-120298-W	12/2/98	<0.28	<0.24	0.5 J	<0.24	<0.25	<0.15	32
IRPMW50-021799-W	2/17/99	<0.22	<0.21	<0.24	<0.37	<0.46	<0.48	29
IRPMW50-052099-W	5/20/99	<0.07	<0.1	<0.07	<0.06	<0.07	<0.05	27
IRPMW50-081299-W	8/12/99	<0.16	<0.17	<0.21	<0.4	<0.27	<0.14	27
IRPMW50-111799-W	11/17/99	<0.22	<0.21	<0.24	<0.37	<0.46	<0.48	32
Analyses		12	12	12	12	12	11	12
Detections		0	0	1	0	0	0	12
Minimum Concentration		0	0	0.5	0	0	0	26
Maximum Concentration		0	0	0.5	0	0	0	33
HWAD_-_GW_Action_Level		100		5	1000	100	0.081	5
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	12

Sample ID	ample Date	Trichlorofluoromethane	Vinyl chloride	Xylenes-m&-p	Xylene-o
		ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.2	<0.2	<0.5	<0.2
IRPMW50-042697-W	4/26/97	<0.1	<0.1	<0.2	<0.1
IRPMW50-072397-W	7/23/97	<0.5	<0.3	<0.4	<0.3
IRPMW50-101597-W	10/15/97	<0.5	<0.3	<0.4	<0.3
IRPMW50-030898-W	3/8/98	<0.31	<0.38	NA	<0.34
IRPMW50-060498-W	6/4/98	<0.31	<0.3	NA	<0.24
IRPMW50-090398-W	9/3/98	<0.44	<0.36	NA	<0.19
IRPMW50-120298-W	12/2/98	<0.31	<0.3	NA	<0.24
IRPMW50-021799-W	2/17/99	<0.73	<0.51	<0.93	<0.3
IRPMW50-052099-W	5/20/99	<0.04	<0.25	<0.11	<0.03
IRPMW50-081299-W	8/12/99	<0.25	<0.18	<0.17	<0.1
IRPMW50-111799-W	11/17/99	<0.73	<0.51	<0.93	<0.3
Analyses		12	12	8	12
Detections		0	0	0	0
Minimum Concentration		0	0	0	0
Maximum Concentration		0	0	0	0
HWAD_-_GW_Action_Level		1300		10000	10000
HWAD_-_GW_Action_Level Hits		0		0	0

Sample ID	ample Date	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Naphthylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7
IRPMW50-042697-W	4/26/97	<1.3	<1.8	<1.4	<2.7	<1.3	<1.5	<3.6	<3.9
IRPMW50-072397-W	7/23/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7
IRPMW50-101597-W	10/15/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7
IRPMW50-030898-W	3/8/98	<1.6	<1.6	<1.6	<0.54	<1.5	<1.4	<3.5	<2.4
IRPMW50-060498-W	6/4/98	<1.2	<0.94	<1	<0.54	<0.9	<1	<1.2	<0.84
IRPMW50-090398-W	9/3/98	<1.2	<0.94	<1	<0.54	<0.9	<1	<1.2	<0.84
IRPMW50-120298-W	12/2/98	<1.3	<1.1	<1.1	<1.5	<0.9	<1	<1.2	<0.74
IRPMW50-021799-W	2/17/99	<1.4	<1.6	<1.4	<0.87	<1.4	<1.3	<1.2	<4.7
IRPMW50-052099-W	5/20/99	<1.3	<1.5	<1.4	<1.6	<1.1	<1.2	<1.2	<4.7
IRPMW50-081299-W	8/12/99	<1.4	<1.6	<1.4	<0.87	<1.4	<1.3	<1.2	<4.7
IRPMW50-111799-W	11/17/99	<1.3	<1.5	<1.4	<1.6	<1.1	<1.2	<1.2	<4.7
Analyses		12	12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		11	70	600	0.084	17	75		
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0		

Sample ID	ample Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13 UJ	<0.7	<0.6
IRPMW50-042697-W	4/26/97	<1.4	<1.2	<1.1	<1.5	<5.2	<9.2	<0.2	<1.5
IRPMW50-072397-W	7/23/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13	<0.7	<0.6
IRPMW50-101597-W	10/15/97 UJ	<0.5	<1.7	<0.5	<0.6	<0.9	<13	<0.7	NA
IRPMW50-030898-W	3/8/98	<1.7	<1.4	<1.7	<1.6	<1.4	<12	<1.7	NA
IRPMW50-060498-W	6/4/98	<1.1	<0.9	<1.2	<1.2	<1.2	<6	<0.54	NA
IRPMW50-090398-W	9/3/98 UJ	<1.1	<0.9	<1.2	<1.2	<1.2	<6	<0.54	NA
IRPMW50-120298-W	12/2/98	<1.5	<1.3	<1.3	<1.2	<1.1	<2.1	<1.2	NA
IRPMW50-021799-W	2/17/99	<1.3	<1.8	<1.7	<1.8	<1.4	<11	<1.5	NA
IRPMW50-052099-W	5/20/99	<1.7	<1.5	<1.5	<1.8	<1.3	<11	<1.2	NA
IRPMW50-081299-W	8/12/99	<1.3	<1.8	<1.7	<1.8	<1.4	<11	<1.5	NA
IRPMW50-111799-W	11/17/99	<1.7	<1.5	<1.5	<1.8	<1.3	<11 UJ	<1.2	NA
Analyses		12	12	12	12	12	12	12	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3700	6.1	110	730	73	73	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	

Sample ID	ample Date	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Naphthylamine	2-Nitroaniline
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1	<0.4
IRPMW50-042697-W	4/26/97	<1.1	<2	<1.5	<2.1	<1.7	<2.8 UJ	<1.4
IRPMW50-072397-W	7/23/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1	<0.4
IRPMW50-101597-W	10/15/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1 UJ	<0.4
IRPMW50-030898-W	3/8/98	<1.7	<1.5	<1.3	<1.1	<2.3	<2.1	<1.5
IRPMW50-060498-W	6/4/98	<1.2	<1.6	<1.1	<1.2	<2.5	<1.3	<0.86
IRPMW50-090398-W	9/3/98	<1.2	<1.6	<1.1	<1.2	<2.5	<1.3 UJ	<0.86
IRPMW50-120298-W	12/2/98	<1.2	<1.1	<1.2	<1.1	<2.7	<0.82	<1.3
IRPMW50-021799-W	2/17/99	<1.8	<2.6	<1.3	<2.3	<0.7	<5.7	<7.9
IRPMW50-052099-W	5/20/99	<1.7	<1.7	<1.5	<1.7	<1.2	<4.7	<6.8
IRPMW50-081299-W	8/12/99	<1.8	<2.6	<1.3	<2.3	<0.7	<5.7 UJ	<7.9
IRPMW50-111799-W	11/17/99	<1.7	<1.7	<1.5	<1.7	<1.2	<4.7	<6.8
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		37	490	38		1800		2.2
HWAD_-_GW_Action_Level Hits		0	0	0		0		0

Sample ID	ample Date	2-Nitrophenol	2-Picoline	3,3-Dichlorobenzidine	3-Methylcholanthrene	3-Nitroaniline	3/4-Methylphenol (m/p-Cresol)	4,6-Dinitrophenol-o-cresol	4-Aminobiphenyl
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.8	<0.5	<1.7	<0.6	<3.8	NA	<2.4	<0.7
IRPMW50-042697-W	4/26/97	<1.3	<1.9	<2.1	<1.7	<1.3	<4.2	<2.3	<1.4
IRPMW50-072397-W	7/23/97	<0.8	<0.5	<1.7	<0.6	<3.8	<1	<2.4	<0.7
IRPMW50-101597-W	10/15/97	<0.8	<0.5	<1.7	NA	<3.8	NA	<2.4	<0.7
IRPMW50-030898-W	3/8/98	<1.3	<1.3	<2.7	NA	<1.8	NA	<2.9	<1.5
IRPMW50-060498-W	6/4/98	<0.98	<1.2	<0.6	NA	<1.2	NA	<2.3	<1.6
IRPMW50-090398-W	9/3/98	<0.98	<1.2	<0.6	NA	<1.2	NA	<2.3	<1.6
IRPMW50-120298-W	12/2/98	<1.3	<0.88	<2.4	NA	<1.3	NA	<0.89	<1.6
IRPMW50-021799-W	2/17/99	<1.4	<1.1	<6.4	NA	<8.5	NA	<5.5	<1.5
IRPMW50-052099-W	5/20/99	<1.3	<1.5	<5	NA	<6.3	NA	<5.2	<0.67
IRPMW50-081299-W	8/12/99	<1.4	<1.1	<6.4	NA	<8.5	NA	<5.5	<1.5
IRPMW50-111799-W	11/17/99	<1.3	<1.5	<5	NA	<6.3	NA	<5.2	<0.67
Analyses		12	12	12	3	12	2	12	12
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				0.15			180		
HWAD_-_GW_Action_Level Hits				0			0		

Sample ID	ample Date	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.6	<0.6	<0.7	<0.7	<1	<1.1	<3.2 UJ-
IRPMW50-042697-W	4/26/97	<1.6	<1.7	<1.1	<1.2	NA	<1.7	<2.1
IRPMW50-072397-W	7/23/97	<0.6	<0.6	<0.7	<0.7	NA	<1.1	<3.2
IRPMW50-101597-W	10/15/97	<0.6	<0.6	<0.7	<0.7	<1	<1.1	<3.2
IRPMW50-030898-W	3/8/98	<0.61	<1.6	<0.63	<1.3	<2.3	<2	<1.9
IRPMW50-060498-W	6/4/98	<0.6	<1.2	<1.2	<0.79	<2.5	<1	<1.6
IRPMW50-090398-W	9/3/98	<0.6	<1.2	<1.2	<0.79	<2.5	<1	<1.6
IRPMW50-120298-W	12/2/98	<1.5	<1.3	<1.1	<1.2	<2.7	<1.4	<2.2
IRPMW50-021799-W	2/17/99	<2.1	<1.3	<5.9	<1.6	<1.7	<5.7	<3.7
IRPMW50-052099-W	5/20/99	<1.2	<1.4	<9.3	<1.4	<1.7	<7.1	<3.6
IRPMW50-081299-W	8/12/99	<2.1	<1.3	<5.9	<1.6	<1.7	<5.7	<3.7
IRPMW50-111799-W	11/17/99	<1.2	<1.4	<9.3	<1.4	<1.7	<7.1	<3.6
Analyses		12	12	12	12	10	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				150		180		
HWAD_-_GW_Action_Level Hits				0		0		

Sample ID	ample Date	7,12-Dimethylbenz(a)anthracene	a,a-Dimethylphenethylamine	Acenaphthene	Acenaphthylene	Acetophenone	Aniline	Anthracene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.8	<2	<0.7	<0.6	<0.5	<1.1	<0.5
IRPMW50-042697-W	4/26/97	<4.6	<1.3	<1.8	<2.1	<1.2	<1.1	<2.1
IRPMW50-072397-W	7/23/97	<0.8	<2 UJ-	<0.7	<0.6	<0.5	<1.1	<0.5
IRPMW50-101597-W	10/15/97	<0.8	<2	<0.7	<0.6	<0.5	<1.1	<0.5
IRPMW50-030898-W	3/8/98	<2.7	<3.5	<1.6	<1.4	<1.3	<1.5	<0.8
IRPMW50-060498-W	6/4/98	<0.67	<4.2	<1.1	<1.1	<0.99	<1.5	<1.5
IRPMW50-090398-W	9/3/98	<0.67	<4.2	<1.1	<1.1	<0.99	<1.5	<1.5
IRPMW50-120298-W	12/2/98	<1.2	<2.7	<1.2	<1.2	<1.4	<0.95	<1.4
IRPMW50-021799-W	2/17/99	<2.1	<5.8	<1.6	<1.4	<0.88	<0.78	<1.4
IRPMW50-052099-W	5/20/99	<0.67	<1.3	<1.4	<1.5	<1.5	<2	<1.1
IRPMW50-081299-W	8/12/99	<2.1	<5.8	<1.6	<1.4	<0.88	<0.78	<1.4
IRPMW50-111799-W	11/17/99	<0.67	<1.3	<1.4	<1.5	<1.5	<2	<1.1
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				370		0.042	12	1800
HWAD_-_GW_Action_Level Hits				0		0	0	0

Sample ID	ample Date	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<1.7 UJ-	<0.8	<0.7	<0.5	<0.8	<0.9	<3.2 UJ
IRPMW50-042697-W	4/26/97	<1.4 UJ	<1.9	<1.5	<1.8	<1.5	<2.4 UJ	<3 UJ
IRPMW50-072397-W	7/23/97	<1.7 UJ-	<0.8	<0.7	<0.5	<0.8	<0.9	<3.2 UJ
IRPMW50-101597-W	10/15/97	<1.7 UJ	<0.8	<0.7	<0.5	<0.8	<0.9	<3.2
IRPMW50-030898-W	3/8/98	<2.1	<0.6	<2.5	<0.69	<2.6	<0.69	<2.7 UJ-
IRPMW50-060498-W	6/4/98	<1.8	<0.69	<2.2	<1.9	<0.57	<0.81	<3.2
IRPMW50-090398-W	9/3/98	<1.8	<0.69	<2.2	<1.9	<0.57	<0.81	<3.2
IRPMW50-120298-W	12/2/98	<0.47	<3	<3.1	<2.7	<4.3	<3.3	<1
IRPMW50-021799-W	2/17/99	<3.8	<1.8	<2	<1.8	<1.6	<2.3	<3.8
IRPMW50-052099-W	5/20/99	<3.8	<1.1	<2.2	<1	<1.5	<1.3	<3.6
IRPMW50-081299-W	8/12/99	<3.8	<1.8	<2	<1.8	<1.6	<2.3	<3.8
IRPMW50-111799-W	11/17/99	<3.8	<1.1	<1.2	<1	<1.5	<1.3	<3.6
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.00029	0.1	0.2	0.2			150000
HWAD_-_GW_Action_Level Hits		0	0	0	0			0

Sample ID	ample Date	Benzyl alcohol	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl)-ether	bis(2-Ethylhexyl)-phthalate	Butyl benzyl phthalate	Chrysene	Di-n-Butyl-phthalate
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.5	<0.8	<0.7	<1.8 UJ-	<2.4	<0.7	<0.6	<1.3
IRPMW50-042697-W	4/26/97	<1.1	<1.4	<1.2	<2.3	6 J	<2.3	<1.1	<1.8
IRPMW50-072397-W	7/23/97	<0.5	<0.8	<0.7	<1.8	<2.4	<0.7	<0.6	<1.3
IRPMW50-101597-W	10/15/97	<0.5	<0.8	<0.7	<1.8	<2.4	3 J	<0.6	<1.3
IRPMW50-030898-W	3/8/98	<1	<1.6	<1.9	<2.3	6 J	5 J	<0.5	<1
IRPMW50-060498-W	6/4/98	<1.5	<1.2	<1.1	<2.3	<2.6	4 J	<0.7	<2.5
IRPMW50-090398-W	9/3/98	<1.5	<1.2	<1.1	<2.3	<2.6	4 J	<0.7	<2.5
IRPMW50-120298-W	12/2/98	<1.3	<1.2	<1.2	<1	<3.5	5 J	<3.2	<2.7
IRPMW50-021799-W	2/17/99	<0.53	<1.1	<2.4	<1.3	<2.8	4 J	<1.6	<1.8
IRPMW50-052099-W	5/20/99	<1.5	<1.5	<1.4	<1.4	<1.1	3 J	<1.3	<0.97
IRPMW50-081299-W	8/12/99	<0.53	<1.1	<2.4	<1.3	<2.8	3 J	<1.6	<1.8
IRPMW50-111799-W	11/17/99	<1.5	<1.5	<1.4	<1.4	<1.1	5 J	<1.3	<0.97
Analyses		12	12	12	12	12	12	12	12
Detections		0	0	0	0	2	9	0	0
Minimum Concentration		0	0	0	0	6	3	0	0
Maximum Concentration		0	0	0	0	6	5	0	0
HWAD_-_GW_Action_Level		11000		0.0098	0.27	6	100	0.2	3700
HWAD_-_GW_Action_Level Hits		0		0	0	2	0	0	0

Sample ID	ample Date	Di-n-octyl phthalate	Dibenz(a,h)anthracene	Dibenz(a,j)acridine	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Diphenylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.7	<0.7	<0.6	<0.6	<0.7	<0.5	<0.7
IRPMW50-042697-W	4/26/97	<1.3	<1.4	<1.2	<2.3	<2	<1.2	<1.3
IRPMW50-072397-W	7/23/97	<0.7	<0.7	<0.6	<0.6	<0.7	<0.5	<0.7
IRPMW50-101597-W	10/15/97	<0.7	<0.7	<0.6	<0.6	<0.7	<0.5	<0.7
IRPMW50-030898-W	3/8/98	<2.8	<2.6	<2.4	<1.5	<1.5	<1.5	<1.5
IRPMW50-060498-W	6/4/98	<2.6	<2.1	<2	<0.93	<0.85	<0.8	<0.89
IRPMW50-090398-W	9/3/98	<2.6	<2.1	<2	<0.93	<0.85	<0.8	<0.89
IRPMW50-120298-W	12/2/98	<2.7	<4.3	<1.9	<1.3	<1.5	<1.5	<1.6
IRPMW50-021799-W	2/17/99	<3.1	<1.6	<1.5	<1.5	<1.7	<1.5	<1.5
IRPMW50-052099-W	5/20/99	<1.4	<1.3	<1.4	<1.6	<1.3	<1.4	<1.1
IRPMW50-081299-W	8/12/99	<3.1	<1.6	<1.5	<1.5	<1.7	<1.5	<1.5
IRPMW50-111799-W	11/17/99	<1.4	<1.3	<1.4	<1.6	<1.3	<1.4	<1.1
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		730	0.0092		24	29000	370000	910
HWAD_-_GW_Action_Level Hits		0	0		0	0	0	0

Sample ID	ample Date	Ethyl methanesulfonate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.8	<0.7	<0.7	<0.6	<0.6	<8.2	<0.5
IRPMW50-042697-W	4/26/97	<1.2	<1.7	<2.1	<2.4	<3	<5.4	<1.7
IRPMW50-072397-W	7/23/97	<0.8	<0.7	<0.7	<0.6	<0.6	<8.2	<0.5
IRPMW50-101597-W	10/15/97	<0.8	<0.7	<0.7	<0.6	<0.6	<8.2	<0.5
IRPMW50-030898-W	3/8/98	<0.8	<1.2	<1.2	<1.3	<1.4	<8.5	<1.5
IRPMW50-060498-W	6/4/98	<0.8	<0.72	<0.78	<0.65	<1.2	<4.8	<0.87
IRPMW50-090398-W	9/3/98	<0.8	<0.72	<0.78	<0.65	<1.2	<4.8	<0.87
IRPMW50-120298-W	12/2/98	<0.8	<2.4	<1.3	<1.4	<0.95	<4.3	<0.95
IRPMW50-021799-W	2/17/99	<1.3	<1.6	<1.6	<1.6	<2	<8	<1
IRPMW50-052099-W	5/20/99	<1.1	<1.1	<1.4	<1.1	<1.4	<2.4	<1.4
IRPMW50-081299-W	8/12/99	<1.3	<1.6	<1.6	<1.6	<2	<8	<1
IRPMW50-111799-W	11/17/99	<1.1	<1.1	<1.4	<1.1	<1.4	<2.4	<1.4
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			1500	240	1	0.86	50	4.8
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	Indeno(1,2,3-c,d)pyrene	Isophorone	Methyl methanesulfonate	N-Nitroso-di-n-butylamine	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.7	<0.6	<0.5	<0.7	<0.6	<0.6	<0.5
IRPMW50-042697-W	4/26/97	<1.2	<1.2	<1.1	<1.1	<1.6	<1.1	<2.6
IRPMW50-072397-W	7/23/97	<0.7	<0.6	<0.5	<0.7	<0.6	<0.6	<0.5
IRPMW50-101597-W	10/15/97	<0.7	<0.6	<0.5	<0.7	<0.6	<0.6	<0.5
IRPMW50-030898-W	3/8/98	<2.7	<1.6	<1.4	<1.4	<1.3	<1.4	<1.6
IRPMW50-060498-W	6/4/98	<2	<1.1	<1.1	<1.1	<1.5	<0.89	<0.99
IRPMW50-090398-W	9/3/98	<2	<1.1	<1.1	<1.1	<1.5	<0.89	<0.99
IRPMW50-120298-W	12/2/98	<3.3	<1.4	<1.2	<1.6	<1.4	<1.6	<1.5
IRPMW50-021799-W	2/17/99	<1.9	<1.3	<0.87	<1.3	<1.9	<1.6	<7.1
IRPMW50-052099-W	5/20/99	<1.4	<1.3	<1.2	<1.3	<1.3	<1.2	<5.2
IRPMW50-081299-W	8/12/99	<1.9	<1.3	<0.87	<1.3	<1.9	<1.6	<7.1
IRPMW50-111799-W	11/17/99	<1.4	<1.3	<1.2	<1.3	<1.3	<1.2	<5.2
Analyses		12	12	12	12	12	12	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.092	71		0.002	0.0096	0.0013	14
HWAD_-_GW_Action_Level Hits		0	0		0	0	0	0

Semivolatile Organic Compounds

Sample ID	ample Date	N-Nitrosopiperidine	Naphthalene	Nitrobenzene	p-Dimethylaminoazobenzene	Pentachlorobenzene	Pentachloronitrobenzene	Pentachlorophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.6	<0.6	<0.8	<2.3	<1.8	NA	<1.8
IRPMW50-042697-W	4/26/97	<1.3	<1.1	<1.7	<1.1	<2.1	<1.4	<6.5
IRPMW50-072397-W	7/23/97	<0.6	<0.6	<0.8	<2.3	<1.8	<0.5	<1.8
IRPMW50-101597-W	10/15/97	<0.6	<0.6	<0.8	<2.3	<1.8	NA	<1.8
IRPMW50-030898-W	3/8/98	<1.5	<1.4	<0.94	<0.65	<1.6	<3.3	<15
IRPMW50-060498-W	6/4/98	<0.87	<1.1	<0.93	<0.65	<0.94	<0.51	<11
IRPMW50-090398-W	9/3/98	<0.87	<1.1	<0.93	<0.65	<0.94	<0.51	<11
IRPMW50-120298-W	12/2/98	<1.2	<1.1	<1.2	<0.65	<1.2	<1.7	<9.1
IRPMW50-021799-W	2/17/99	<1.7	<1.5	<0.83	<1.1	<1.8	<1.3	<3.7 UJ-
IRPMW50-052099-W	5/20/99	<1.2	<1.4	<0.79	<1.2	<1.5	<1	<11
IRPMW50-081299-W	8/12/99	<1.7	<1.5	<0.83	<1.1	<1.8	<1.3	<3.7
IRPMW50-111799-W	11/17/99	<1.2	<1.4	<0.79	<1.2	<1.5	<1	<11
Analyses		12	12	12	12	12	10	12
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			6.2	3.4		29	0.26	1
HWAD_-_GW_Action_Level Hits			0	0		0	0	0

Sample ID	ample Date	Phenacetin	Phenanthrene	Phenol	Pronamide	Pyrene
		ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.6	<0.6	<1.9	<2.6	<0.6
IRPMW50-042697-W	4/26/97	<1.4	<2.5	<1.4	<1.2	<2.4
IRPMW50-072397-W	7/23/97	<0.6	<0.6	<1.9	<2.6	<0.6
IRPMW50-101597-W	10/15/97	<0.6	<0.6	<1.9	<2.6	<0.6
IRPMW50-030898-W	3/8/98	<0.99	<1	<1.7	<1.6	<0.54
IRPMW50-060498-W	6/4/98	<2.2	<1.1	<1.1	<0.57	<0.57
IRPMW50-090398-W	9/3/98	<2.2	<1.1	<1.1	<0.57	<0.57
IRPMW50-120298-W	12/2/98	<3.5	<1.6	<1.1	<2.9	<2.1
IRPMW50-021799-W	2/17/99	<0.84	<1.5	<0.55	<1.8	<1.8
IRPMW50-052099-W	5/20/99	<1.1	<1.2	<2.1	<1.3	<1.1
IRPMW50-081299-W	8/12/99	<0.84	<1.5	<0.55	<1.8	<1.8
IRPMW50-111799-W	11/17/99	<1.1	<1.2	<2.1	<1.3	<1.1
Analyses		12	12	12	12	12
Detections		0	0	0	0	0
Minimum Concentration		0	0	0	0	0
Maximum Concentration		0	0	0	0	0
HWAD_-_GW_Action_Level				22000	2700	180
HWAD_-_GW_Action_Level Hits				0	0	0

Explosives

Sample ID	ample Date	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2/4-Nitrotoluene	2,6-Dinitrotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW50-042697-W	4/26/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW50-072397-W	7/23/97	<0.1	<0.058	<0.065	<0.018	NA	<0.09
IRPMW50-101597-W	10/15/97	<0.1	<0.061	<0.094	<0.02	NA	<0.066
IRPMW50-030898-W	3/8/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW50-060498-W	6/4/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW50-090398-W	9/3/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW50-120298-W	12/2/98	<0.093	<0.09	<0.069	<0.061	NA	<0.12
IRPMW50-021799-W	2/17/99	<0.22	<0.22	<0.13	<0.13	<0.05	<0.16
IRPMW50-052099-W	5/20/99	<0.22	<0.22	<0.13	<0.13	<0.05	<0.16
IRPMW50-081299-W	8/12/99	<0.22	<0.22	<0.13	<0.13	NA	<0.16
IRPMW50-111799-W	11/17/99	<0.22	<0.22	<0.13	<0.13	NA	<0.16
Analyses		12	12	12	12	2	12
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3.7	2.2	73		37
HWAD_-_GW_Action_Level Hits		0	0	0	0		0

Explosives

Sample ID	ample Date	2-Amino-4,6-dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	HMX
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW50-042697-W	4/26/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW50-072397-W	7/23/97	<0.031	<0.13	<0.11	<0.035	<0.13	<0.17
IRPMW50-101597-W	10/15/97	<0.022	<0.14	<0.11	<0.022	<0.13	<0.15
IRPMW50-030898-W	3/8/98	<0.14	<0.074	<0.16	<0.13	<0.074	<0.11
IRPMW50-060498-W	6/4/98	<0.14	NA	<0.16	<0.13	NA	<0.11
IRPMW50-090398-W	9/3/98	NA	NA	<0.16	<0.13	NA	<0.11
IRPMW50-120298-W	12/2/98	NA	NA	<0.16	<0.13	NA	<0.11
IRPMW50-021799-W	2/17/99	<0.11	NA	<0.063	<0.13	NA	<0.25
IRPMW50-052099-W	5/20/99	<0.11	NA	<0.063	<0.13	NA	<0.25
IRPMW50-081299-W	8/12/99	<0.11	<0.05	<0.063	<0.13	<0.05	<0.25
IRPMW50-111799-W	11/17/99	<0.11	<0.05	<0.063	<0.13	<0.05	<0.25
Analyses		10	7	12	12	7	12
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.099		370	0.099	370	1800
HWAD_-_GW_Action_Level Hits		0		0	0	0	0

Explosives

Sample ID	ample Date	Nitrobenzene	Picric Acid	RDX	Tetryl
		ug/l	ug/l	ug/l	ug/l
IRPMW50-020197-W	2/1/97	<0.073	<7.1	<0.13	<0.066
IRPMW50-042697-W	4/26/97	<0.073	<7.1	<0.13	<0.066
IRPMW50-072397-W	7/23/97	<0.11	<7.1	<0.13	<0.13
IRPMW50-101597-W	10/15/97	<0.11	<0.3	2 J	<0.13
IRPMW50-030898-W	3/8/98	<0.11	<0.3	<0.078	<0.065
IRPMW50-060498-W	6/4/98	<0.11	<0.3	<0.078	<0.065
IRPMW50-090398-W	9/3/98	<0.11	<0.3	<0.078	<0.065
IRPMW50-120298-W	12/2/98	<0.11	NA	<0.078	<0.065
IRPMW50-021799-W	2/17/99	<0.26	<0.24	<0.29	<0.12
IRPMW50-052099-W	5/20/99	<0.26	<0.24	<0.29	<0.12
IRPMW50-081299-W	8/12/99	<0.26	<0.24	<0.29	<0.12
IRPMW50-111799-W	11/17/99	<0.26	<0.24	<0.29	<0.12
Analyses		12	11	12	12
Detections		0	0	1	0
Minimum Concentration		0	0	2	0
Maximum Concentration		0	0	2	0
HWAD_-_GW_Action_Level		3.4	1	0.61	
HWAD_-_GW_Action_Level Hits		0	0	1	

Yashekia Evans

From: Mary Matthews
Sent: Monday, June 18, 2001 4:07 PM
To: Yashekia Evans
Subject: FW: tooele cover

Follow Up Flag: Follow up
Flag Status: Flagged

TEAD logo.doc

-----Original Message-----
From: Cynthia Wren
Sent: Monday, June 18, 2001 3:53 PM
To: Mary Matthews
Subject: tooele cover

Mary, the general format for the TEAD cover is the same as the Hawthorne Remedial Investigation documents.

The TEAD logo and cover page are attached for you to use.

Also, a picture of TEAD is located in file 0108A.

I need by Thursday if possible (I am heading your way to complete a request form). Thanks!

Monitoring Well Evaluation Checklist for Well No. IRPMW51

SWMU / Area	I09/I10, I11, and I18
Aquifer	SW
Well Condition	
Good	Yes
Describe Problems	None
Purpose of Well	
Primary	Upgradient of SWMU I09/10
Secondary	Regional groundwater data, downgradient of SWMU I18
Retain for Chemical Monitoring (list compounds)	VOCs
Proposed Sample Frequency	Annually

Analytical Results

	Sampling Events	Date First Sampled	Date Last Sampled	Analyses	Detections	Highest Concentration	HWAD GW AL	Exceeds Standard
Explosive	3	2/1/97	3/8/98	3	0	ND	--	No
VOC	3	2/1/97	3/8/98	3	1	--	--	No
IPB					1	0.6	19	0
SVOC	3	2/1/97	3/8/98	3	1	--	--	No
Butyl benzyl phthalate					1	12	100	0
Nitrogen Compounds	3	2/1/97	3/8/98	3	1	--	--	No
Total Kjeldahl Nitrogen					2	0.2	NE	0

ND = Non-detect
NE = Not established

Water Characteristics

Sample ID	ample Date	Ammonia as Nitrogen	Calcium, Total	Iron, Total	Kjeldahl Nitrogen, Total	Magnesium, Total	Potassium, Total	Sodium, Total
		mg/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.06	89900	29.5 J	<0.1	12000	8930	195000
IRPMW51-042797-W	4/27/97	<0.06	98500	36 J	0.2	13500	12400	212000
IRPMW51-030898-W	3/8/98	<0.07	96800	14.4 J	0.2	14600	11700 E	245000
Analyses		3	3	3	3	3	3	3
Detections		0	3	3	2	3	3	3
Minimum Concentration		0	89900	14.4	0.2	12000	8930	195000
Maximum Concentration		0	98500	36	0.2	14600	12400	245000
HWAD_-_GW_Action_Level				11000				
HWAD_-_GW_Action_Level Hits				0				

Water Characteristics

Sample ID	ample Date	Solids, Total Dissolved
		mg/l
IRPMW51-020197-W	2/1/97	938
IRPMW51-042797-W	4/27/97	940
IRPMW51-030898-W	3/8/98	NA

Analyses	2
Detections	2
Minimum Concentration	938
Maximum Concentration	940

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Nitrogen Compounds

Sample ID	ample Date	Ammonia as Nitrogen	Kjeldahl Nitrogen, Total
		mg/l	mg/l
IRPMW51-020197-W	2/1/97	<0.06	<0.1
IRPMW51-042797-W	4/27/97	<0.06	0.2
IRPMW51-030898-W	3/8/98	<0.07	0.2
Analyses		3	3
Detections		0	2
Minimum Concentration		0	0.2
Maximum Concentration		0	0.2
HWAD_-_GW_Action_Level			
HWAD_-_GW_Action_Level Hits			

Total Metals

Sample ID	ample Date	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Lead, Total	Mercury, Total	Selenium, Total
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<1.2	NA	<0.2	<0.1	3.2 J	2.1 J	<0.15	<2.3
IRPMW51-042797-W	4/27/97	3.4 J	NA	<0.2	<0.1	2.3 J	1.1 J	<0.15	<2.3
IRPMW51-030898-W	3/8/98	4	39.9	NA	0.24 J	4.6 J	1.4	<0.16	<2
Analyses		3	1	2	3	3	3	3	3
Detections		2	1	0	1	3	3	0	0
Minimum Concentration		3.4	39.9	0	0.24	2.3	1.1	0	0
Maximum Concentration		4	39.9	0	0.24	4.6	2.1	0	0
HWAD_-_GW_Action_Level		50	2000	4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	0

Sample ID	ample Date	Silver, Total
		ug/l
IRPMW51-020197-W	2/1/97	<1.1
IRPMW51-042797-W	4/27/97	<1.1
IRPMW51-030898-W	3/8/98	<1
Analyses		3
Detections		0
Minimum Concentration		0
Maximum Concentration		0
HWAD_-_GW_Action_Level		180
HWAD_-_GW_Action_Level Hits		0

Dissolved Metals

Sample ID	ample Date	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Lead, Dissolved	Mercury, Dissolved	Selenium, Dissolved
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<1.2	NA	<0.2	<0.1	1.6 J	<0.6	<0.15	<2.3
IRPMW51-042797-W	4/27/97	3.8 J	NA	<0.2	<0.1	2.2 J	<0.6	<0.15	4.6 J
IRPMW51-030898-W	3/8/98	3.9	41.2	NA	<0.51	2.1 J	1.2 J	<0.16	<2
Analyses		3	1	2	3	3	3	3	3
Detections		2	1	0	0	3	1	0	1
Minimum Concentration		3.8	41.2	0	0	1.6	1.2	0	4.6
Maximum Concentration		3.9	41.2	0	0	2.2	1.2	0	4.6
HWAD_-_GW_Action_Level		50		4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0	0

Dissolved Metals

Sample ID	ample Date	Silver, Dissolved
		ug/l
IRPMW51-020197-W	2/1/97	<1.1
IRPMW51-042797-W	4/27/97	<1.1
IRPMW51-030898-W	3/8/98	<1
Analyses		3
Detections		0
Minimum Concentration		0
Maximum Concentration		0
HWAD_-_GW_Action_Level		180
HWAD_-_GW_Action_Level Hits		0

Pesticides

Sample ID	ample Date	2,4,5-T	2,4,5-TP (Silvex)	2,4-D	2,4-DB	4,4-DDD	4,4-DDE
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.039	<0.009	<0.009	<0.014	<0.003	<0.002
IRPMW51-042797-W	4/27/97	<0.039	<0.009	<0.009	<0.014	<0.032	<0.022
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		370	50	70	290	0.28	0.2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

Sample ID	ample Date	4,4-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane	Dalapon
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.003	<0.003	<0.002	<0.001	<0.027	<0.029
IRPMW51-042797-W	4/27/97	<0.032	<0.026	<0.018	<0.013	<0.05	<0.029
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2	0.004	0.011	0.037	2	200
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Sample ID	ample Date	delta-BHC	Dicamba	Dichloroprop	Dieldrin	Dinoseb	Endosulfan I
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.001	<0.008	<0.01	<0.003	<0.027	<0.004
IRPMW51-042797-W	4/27/97	<0.011	<0.008	<0.01	<0.027	<0.027	<0.038
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level			1100		0.0042	7	220
HWAD_-_GW_Action_Level Hits			0		0	0	0

Pesticides

Sample ID	ample Date	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.003	<0.014	<0.0008	<0.003	<0.002	<0.002
IRPMW51-042797-W	4/27/97	<0.025	<0.14	<0.008	<0.028	<0.02	<0.017
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level				2			0.2
HWAD_-_GW_Action_Level Hits				0			0

Pesticides

Sample ID	ample Date	Heptachlor	Heptachlor epoxide	MCPA	MCPP	Methoxychlor	Toxaphene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.002	<0.0009	<1	<1	<0.003	<0.029
IRPMW51-042797-W	4/27/97	<0.024	<0.009	<1 UJ	<1 UJ	<0.026	<0.29
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.4	0.2	18	37	40	3
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Volatile Organic Compounds

Sample ID	ample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3
IRPMW51-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.2	<0.1	<0.7	<0.1
IRPMW51-030898-W	3/8/98	<0.35	<0.36	<0.38	<0.36	<0.22	<0.34	<0.28
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.43	200	0.055	5	810	7	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	

Volatile Organic Compounds

Sample ID	ample Date	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.4	<0.8	<0.4	<0.2	<0.3	<0.2	<0.8
IRPMW51-042797-W	4/27/97	<0.5	<0.2	<0.3	<0.1	<0.2	<0.4	<0.2
IRPMW51-030898-W	3/8/98	<0.3	<0.31	<0.3	<0.31	<0.31	<0.36	<0.36
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			0.0016	70	12	0.05	600	5
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
IRPMW51-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.1	<0.2	<0.8	<0.2
IRPMW51-030898-W	3/8/98	<0.22	<0.38	<0.38	<0.36	<0.3	<0.31	<0.3
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		5		17		75		120
HWAD_-_GW_Action_Level Hits		0		0		0		0

Sample ID	ample Date	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.3	<0.5	<0.2	<0.4
IRPMW51-042797-W	4/27/97	<0.2	<0.3	<0.2	<0.1	<0.2	<0.1	<0.2
IRPMW51-030898-W	3/8/98	<0.4	<0.36	<0.36	<0.31	<0.47	<0.34	<0.35
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				5			100	100
HWAD_-_GW_Action_Level Hits				0			0	0

Sample ID	ample Date	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2
IRPMW51-042797-W	4/27/97	<0.2 UJ	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.2
IRPMW51-030898-W	3/8/98	<0.96	<0.35	<0.26	<0.57	<0.38	<0.72	<0.28
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		8.7	5	100		100	1.5	70
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	0

Sample ID	ample Date	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	NA	<0.2	<0.9	<0.2	<0.2	<0.3	<0.4
IRPMW51-042797-W	4/27/97	<0.2	<0.1	<0.2	<0.2	<0.1	<0.2	<0.3
IRPMW51-030898-W	3/8/98	<0.22	<0.28	<0.63	<0.31	<0.47	<0.36	<0.36
Analyses		2	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			100	0.2		390	700	0.86
HWAD_-_GW_Action_Level Hits			0	0		0	0	0

Sample ID	ample Date	Isopropylbenzene	Methylene chloride	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	0.6 J	<0.4	<0.5	<0.2	<0.3	<0.4	<0.2
IRPMW51-042797-W	4/27/97	<0.2	<0.7	<2.1	<0.3	<0.2	<0.8	<0.2
IRPMW51-030898-W	3/8/98	<0.36	<0.6	<0.49	<0.22	<0.3	<0.22	<0.4
Analyses		3	3	3	3	3	3	3
Detections		1	0	0	0	0	0	0
Minimum Concentration		0.6	0	0	0	0	0	0
Maximum Concentration		0.6	0	0	0	0	0	0
HWAD_-_GW_Action_Level		19	5	20			6.2	
HWAD_-_GW_Action_Level Hits		0	0	0			0	

Volatile Organic Compounds

Sample ID	ample Date	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.3	<0.3	NA	<0.3
IRPMW51-042797-W	4/27/97	<0.1	<0.3	<0.1	<0.1	<0.2	<0.2	<0.1
IRPMW51-030898-W	3/8/98	<0.36	<0.3	<0.36	<0.97	<0.35	<0.36	<0.36
Analyses		3	3	3	3	3	2	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		100		5	1000	100	0.081	5
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0

Sample ID	ample Date	Trichlorofluoromethane	Vinyl chloride	Xylenes-m&-p	Xylene-o
		ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.2	<0.2	<0.5	<0.2
IRPMW51-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.1
IRPMW51-030898-W	3/8/98	<0.31	<0.38	NA	<0.34
Analyses		3	3	2	3
Detections		0	0	0	0
Minimum Concentration		0	0	0	0
Maximum Concentration		0	0	0	0
HWAD_-_GW_Action_Level		1300		10000	10000
HWAD_-_GW_Action_Level Hits		0		0	0

Sample ID	ample Date	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Naphthylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7
IRPMW51-042797-W	4/27/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7 UJ
IRPMW51-030898-W	3/8/98	<1.3	<1.1	<1.1	<1.5	<0.9	<1	<3.5	<0.74
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		11	70	600	0.084	17	75		
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0		

Sample ID	ample Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13	<0.7	NA
IRPMW51-042797-W	4/27/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13 UJ	<0.7	<0.6
IRPMW51-030898-W	3/8/98	<1.5	<1.3	<1.3	<1.2	<1.1	<2.1	<1.2	NA
Analyses		3	3	3	3	3	3	3	1
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3700	6.1	110	730	73	73	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	

Sample ID	ample Date	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Naphthylamine	2-Nitroaniline	2-Nitrophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1	<0.4	<0.8
IRPMW51-042797-W	4/27/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1 UJ	<0.4	<0.8
IRPMW51-030898-W	3/8/98	<1.2	<1.1	<1.2	<1.1	<2.7	<0.82	<1.3	<1.3
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		37	490	38		1800		2.2	
HWAD_-_GW_Action_Level Hits		0	0	0		0		0	

Sample ID	ample Date	2-Picoline	3,3-Dichlorobenzidine	3-Methylcholanthrene	3-Nitroaniline	3/4-Methylphenol (m/p-Cresol)	4,6-Dinitrophenol-o-cresol	4-Aminobiphenyl	4-Bromophenyl phenyl ether
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.5	<1.7	NA	<3.8	NA	<2.4	<0.7	<0.6
IRPMW51-042797-W	4/27/97	<0.5	<1.7	<0.6	<3.8	<1	<2.4 UJ	<0.7	<0.6
IRPMW51-030898-W	3/8/98	<0.88	<2.4	NA	<1.3	NA	<0.89	<1.6	<1.5
Analyses		3	3	1	3	1	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			0.15			180			
HWAD_-_GW_Action_Level Hits			0			0			

Semivolatile Organic Compounds

Sample ID	ample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	7,12-Dimethylbenz(a)anthracene	a,a-Dimethylphenethylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.6	<0.7	<0.7	<1	<1.1	<3.2	<0.8	<2
IRPMW51-042797-W	4/27/97	<0.6	<0.7	<0.7	NA	<1.1	<3.2	<0.8	<2
IRPMW51-030898-W	3/8/98	<1.3	<1.1	<1.2	<2.7	<1.4	<2.2	<1.2	<2.7
Analyses		3	3	3	2	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			150		180				
HWAD_-_GW_Action_Level Hits			0		0				

Sample ID	ample Date	Acenaphthene	Acenaphthylene	Acetophenone	Aniline	Anthracene	Benzidine	Benzo(a)anthracene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.7	<0.6	<0.5	<1.1	<0.5	<1.7	<0.8 UJ-
IRPMW51-042797-W	4/27/97	<0.7	<0.6	<0.5	<1.1	<0.5	<1.7 UJ	<0.8
IRPMW51-030898-W	3/8/98	<1.2	<1.2	<1.4	<0.95	<1.4	<0.47	<3
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		370		0.042	12	1800	0.00029	0.1
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0

Sample ID	ample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroethoxy) methane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.7	<0.5	<0.8	<0.9	<3.2 UJ	<0.5	<0.8
IRPMW51-042797-W	4/27/97	<0.7	<0.5	<0.8	<0.9 UJ-	<3.2 UJ-	<0.5	<0.8
IRPMW51-030898-W	3/8/98	<3.1	<2.7	<4.3	<3.3	<1	<1.3	<1.2
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2	0.2			150000	11000	
HWAD_-_GW_Action_Level Hits		0	0			0	0	

Sample ID	ample Date	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl)-ether	bis(2-Ethylhexyl)-phthalate	Butyl benzyl phthalate	Chrysene	Di-n-Butyl-phthalate	Di-n-octyl phthalate	Dibenz(a,h)anthracene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.7	<1.8 UJ-	<2.4	<0.7	<0.6	<1.3	<0.7	<0.7
IRPMW51-042797-W	4/27/97	<0.7	<1.8	<2.4	<0.7	<0.6	<1.3	<0.7	<0.7
IRPMW51-030898-W	3/8/98	<1.2	<1	<3.5	12	<3.2	<2.7	<2.7	<4.3
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	1	0	0	0	0
Minimum Concentration		0	0	0	12	0	0	0	0
Maximum Concentration		0	0	0	12	0	0	0	0
HWAD_-_GW_Action_Level		0.0098	0.27	6	100	0.2	3700	730	0.0092
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	0

Sample ID	ample Date	Dibenz(a,j)acridine	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Diphenylamine	Ethyl methanesulfonate	Fluoranthene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.6	<0.6	<0.7	<0.5	<0.7	<0.8	<0.7
IRPMW51-042797-W	4/27/97	<0.6	<0.6	<0.7	<0.5	<0.7	<0.8	<0.7
IRPMW51-030898-W	3/8/98	<1.9	<1.3	<1.5	<1.5	<1.6	<0.8	<2.4
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			24	29000	370000	910		1500
HWAD_-_GW_Action_Level Hits			0	0	0	0		0

Sample ID	ample Date	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Methyl methanesulfonate
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.7	<0.6	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5
IRPMW51-042797-W	4/27/97	<0.7	<0.6	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5
IRPMW51-030898-W	3/8/98	<1.3	<1.4	<0.95	<4.3 UJ-	<0.95	<3.3	<1.4	<1.2
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		240	1	0.86	50	4.8	0.092	71	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	

Sample ID	ample Date	N-Nitroso-di-n-butylamine	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosopiperidine	Naphthalene	Nitrobenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.7	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8
IRPMW51-042797-W	4/27/97	<0.7	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8
IRPMW51-030898-W	3/8/98	<1.6	<1.4	<1.6	<1.5	<1.2	<1.1	<1.2
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.002	0.0096	0.0013	14		6.2	3.4
HWAD_-_GW_Action_Level Hits		0	0	0	0		0	0

Sample ID	ample Date	p-Dimethylaminoazobenzene	Pentachlorobenzene	Pentachloronitrobenzene	Pentachlorophenol	Phenacetin	Phenanthrene	Phenol	Pronamide
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<2.3	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW51-042797-W	4/27/97	<2.3	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6
IRPMW51-030898-W	3/8/98	<0.65	<1.2	<1.7	<9.1	<3.5	<1.6	<1.1	<2.9
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			29	0.26	1			22000	2700
HWAD_-_GW_Action_Level Hits			0	0	0			0	0

Sample ID	ample Date	Pyrene
		ug/l
IRPMW51-020197-W	2/1/97	<0.6
IRPMW51-042797-W	4/27/97	<0.6
IRPMW51-030898-W	3/8/98	<2.1
Analyses		3
Detections		0
Minimum Concentration		0
Maximum Concentration		0
HWAD_-_GW_Action_Level		180
HWAD_-_GW_Action_Level Hits		0

Explosives

Sample ID	ample Date	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Amino-4,6-dinitrotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.1	<0.058	<0.065	<0.018	<0.09	<0.031
IRPMW51-042797-W	4/27/97	<0.1	<0.058	<0.065	<0.018	<0.09	NA
IRPMW51-030898-W	3/8/98	<0.093	<0.09	<0.069	<0.061	<0.12	<0.14
Analyses		3	3	3	3	3	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3.7	2.2	73	37	0.099
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Explosives

Sample ID	ample Date	2-Nitrotoluene	3-Nitrotoluene	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	HMX	Nitrobenzene	Picric Acid
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.13	<0.11	<0.035	<0.13	<0.17	<0.073	<7.1
IRPMW51-042797-W	4/27/97	<0.13 UJ-	<0.11	NA	<0.13 UJ-	<0.17	<0.073	<7.1
IRPMW51-030898-W	3/8/98	<0.074	<0.16	<0.13	<0.074	<0.11	<0.11	<0.3
Analyses		3	3	2	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			370	0.099	370	1800	3.4	1
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	RDX	Tetryl
		ug/l	ug/l
IRPMW51-020197-W	2/1/97	<0.13	<0.066
IRPMW51-042797-W	4/27/97	<0.13	<0.066
IRPMW51-030898-W	3/8/98	<0.078	<0.065
Analyses		3	3
Detections		0	0
Minimum Concentration		0	0
Maximum Concentration		0	0
HWAD_-_GW_Action_Level		0.61	
HWAD_-_GW_Action_Level Hits		0	

Monitoring Well Evaluation Checklist for Well No. IRPMW52

SWMU / Area	I09/I10, I11, and I18
Aquifer	WT
Well Condition	
Good	Yes
Describe Problems	None
Purpose of Well	
Primary	Upgradient of SWMU I09/10
Secondary	Regional groundwater data, downgradient of SWMU I18
Retain for Chemical Monitoring (list compounds)	VOCs
Proposed Sample Frequency	Annually

Analytical Results

	Sampling Events	Date First Sampled	Date Last Sampled	Analyses	Detections	Highest Concentration	HWAD GW AL	Exceeds Standard
Explosive	3	2/1/97	3/8/98	3	0	ND	--	No
VOC	3	2/1/97	3/8/98	3	2	--	--	No
IPB					1	0.4	19	0
toluene					1	0.3	1000	0
SVOC	3	2/1/97	3/8/98	3	2	--	--	Yes
Bis(2-ethylhexyl)phthalate					1	7	6	1
Butyl benzyl phthalate					1	8	100	0
Nitrogen Compounds	3	2/1/97	3/8/98	3	4	--	--	No
Ammonia as Nitrogen					1	0.1	NE	0
Total Kjeldahl Nitrogen					3	0.4	NE	0

ND = Non-detect
NE = Not established

Water Characteristics

Sample ID	ample Date	Ammonia as Nitrogen	Calcium, Total	Iron, Total	Kjeldahl Nitrogen, Total	Magnesium, Total	Potassium, Total	Sodium, Total
		mg/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.06	92700	30.4 J	0.2 J	12600	9660	196000
IRPMW52-042797-W	4/27/97	<0.06	78300	15.4 J	0.4	11600	10800	179000
IRPMW52-030898-W	3/8/98	0.1 J	81000	<2.7	0.2 J	12100	9950 E	197000
Analyses		3	3	3	3	3	3	3
Detections		1	3	2	3	3	3	3
Minimum Concentration		0.1	78300	15.4	0.2	11600	9660	179000
Maximum Concentration		0.1	92700	30.4	0.4	12600	10800	197000
HWAD_-_GW_Action_Level				11000				
HWAD_-_GW_Action_Level Hits				0				

Water Characteristics

Sample ID	ample Date	Solids, Total Dissolved
		mg/l
IRPMW52-020197-W	2/1/97	951
IRPMW52-042797-W	4/27/97	952
IRPMW52-030898-W	3/8/98	NA

Analyses	2
Detections	2
Minimum Concentration	951
Maximum Concentration	952

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Nitrogen Compounds

Sample ID	ample Date	Ammonia as Nitrogen	Kjeldahl Nitrogen, Total
		mg/l	mg/l
IRPMW52-020197-W	2/1/97	<0.06	0.2 J
IRPMW52-042797-W	4/27/97	<0.06	0.4
IRPMW52-030898-W	3/8/98	0.1 J	0.2 J
Analyses		3	3
Detections		1	3
Minimum Concentration		0.1	0.2
Maximum Concentration		0.1	0.4
HWAD_-_GW_Action_Level			
HWAD_-_GW_Action_Level Hits			

Total Metals

Sample ID	ample Date	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Lead, Total	Mercury, Total	Selenium, Total
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<1.2	NA	<0.2	<0.1	3.9 J	3.8 J	<0.15	<2.3
IRPMW52-042797-W	4/27/97	2.9 J	NA	0.31 J	<0.1	2.1 J	<0.6	<0.15	6.1
IRPMW52-030898-W	3/8/98	2.3 J	33.1	NA	<0.51	2.8 J	1.7 J	<0.16	2.5 J
Analyses		3	1	2	3	3	3	3	3
Detections		2	1	1	0	3	2	0	2
Minimum Concentration		2.3	33.1	0.31	0	2.1	1.7	0	2.5
Maximum Concentration		2.9	33.1	0.31	0	3.9	3.8	0	6.1
HWAD_-_GW_Action_Level		50	2000	4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	0

Sample ID	ample Date	Silver, Total
		ug/l
IRPMW52-020197-W	2/1/97	<1.1
IRPMW52-042797-W	4/27/97	<1.1
IRPMW52-030898-W	3/8/98	<1
Analyses		3
Detections		0
Minimum Concentration		0
Maximum Concentration		0
HWAD_-_GW_Action_Level		180
HWAD_-_GW_Action_Level Hits		0

Dissolved Metals

Sample ID	ample Date	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Lead, Dissolved	Mercury, Dissolved	Selenium, Dissolved
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<1.2	NA	<0.2	<0.1	2.1 J	<0.6	<0.15	3.3 J
IRPMW52-042797-W	4/27/97	2.6 J	NA	<0.2	<0.1	1.8 J	<0.6	<0.15	4.8 J
IRPMW52-030898-W	3/8/98	3.2 J	33.1	NA	<0.51	1.8 J	1	<0.16	<2
Analyses		3	1	2	3	3	3	3	3
Detections		2	1	0	0	3	1	0	2
Minimum Concentration		2.6	33.1	0	0	1.8	1	0	3.3
Maximum Concentration		3.2	33.1	0	0	2.1	1	0	4.8
HWAD_-_GW_Action_Level		50		4	5	100	15	2	180
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0	0

Dissolved Metals

Sample ID	ample Date	Silver, Dissolved
		ug/l
IRPMW52-020197-W	2/1/97	<1.1
IRPMW52-042797-W	4/27/97	<1.1
IRPMW52-030898-W	3/8/98	0.54 J
Analyses		3
Detections		1
Minimum Concentration		0.54
Maximum Concentration		0.54
HWAD_-_GW_Action_Level		180
HWAD_-_GW_Action_Level Hits		0

Pesticides

Sample ID	ample Date	2,4,5-T	2,4,5-TP (Silvex)	2,4-D	2,4-DB	4,4-DDD	4,4-DDE
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.039	<0.009	<0.009	<0.014	<0.03	<0.02
IRPMW52-042797-W	4/27/97	<0.039	<0.009	<0.009	<0.014	NA	<0.022
IRPMW52-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	1	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		370	50	70	290	0.28	0.2
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

Sample ID	ample Date	4,4-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane	Dalapon
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.03	<0.03	<0.02	<0.01	<0.27	<0.029
IRPMW52-042797-W	4/27/97	<0.032	<0.026	<0.018	<0.013	<0.05	<0.029
IRPMW52-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2	0.004	0.011	0.037	2	200
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Pesticides

Sample ID	ample Date	delta-BHC	Dicamba	Dichloroprop	Dieldrin	Dinoseb	Endosulfan I
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.01	<0.008	<0.01	<0.03	<0.027	<0.04
IRPMW52-042797-W	4/27/97	<0.011	<0.008	<0.01	<0.027	<0.027	<0.038
IRPMW52-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level			1100		0.0042	7	220
HWAD_-_GW_Action_Level Hits			0		0	0	0

Pesticides

Sample ID	ample Date	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.03	<0.14	<0.008	<0.03	<0.02	<0.02
IRPMW52-042797-W	4/27/97	<0.025	<0.14	<0.008	<0.028	<0.02	<0.017
IRPMW52-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level				2			0.2
HWAD_-_GW_Action_Level Hits				0			0

Pesticides

Sample ID	ample Date	Heptachlor	Heptachlor epoxide	MCPA	MCPP	Methoxychlor	Toxaphene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.02	<0.009	<1	<1	<0.03	<0.29
IRPMW52-042797-W	4/27/97	<0.024	<0.009	<1 UJ	<1 UJ	<0.026	<0.29
IRPMW52-030898-W	3/8/98	NA	NA	NA	NA	NA	NA
Analyses		2	2	2	2	2	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.4	0.2	18	37	40	3
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Volatile Organic Compounds

Sample ID	ample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3
IRPMW52-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.2	<0.1	<0.7	<0.1
IRPMW52-030898-W	3/8/98	<0.35	<0.36	<0.38	<0.36	<0.22	<0.34	<0.28
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.43	200	0.055	5	810	7	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	

Volatile Organic Compounds

Sample ID	ample Date	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.4	<0.8	<0.4	<0.2	<0.3	<0.2	<0.8
IRPMW52-042797-W	4/27/97	<0.5	<0.2	<0.3	<0.1	<0.2	<0.4	<0.2
IRPMW52-030898-W	3/8/98	<0.3	<0.31	<0.3	<0.31	<0.31	<0.36	<0.36
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			0.0016	70	12	0.05	600	5
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
IRPMW52-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.1	<0.2	<0.8	<0.2
IRPMW52-030898-W	3/8/98	<0.22	<0.38	<0.38	<0.36	<0.3	<0.31	<0.3
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		5		17		75		120
HWAD_-_GW_Action_Level Hits		0		0		0		0

Volatile Organic Compounds

Sample ID	ample Date	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.3	<0.2	<0.2	<0.3	<0.5	<0.2	<0.4
IRPMW52-042797-W	4/27/97	<0.2	<0.3	<0.2	<0.1	<0.2	<0.1	<0.2
IRPMW52-030898-W	3/8/98	<0.4	<0.36	<0.36	<0.31	<0.47	<0.34	<0.35
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				5			100	100
HWAD_-_GW_Action_Level Hits				0			0	0

Sample ID	ample Date	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2
IRPMW52-042797-W	4/27/97	<0.2 UJ	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.2
IRPMW52-030898-W	3/8/98	<0.96	<0.35	<0.26	<0.57	<0.38	<0.72	<0.28
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		8.7	5	100		100	1.5	70
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	0

Sample ID	ample Date	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	NA	<0.2	<0.9	<0.2	<0.2	<0.3	<0.4
IRPMW52-042797-W	4/27/97	<0.2	<0.1	<0.2	<0.2	<0.1	<0.2	<0.3
IRPMW52-030898-W	3/8/98	<0.22	<0.28	<0.63	<0.31	<0.47	<0.36	<0.36
Analyses		2	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			100	0.2		390	700	0.86
HWAD_-_GW_Action_Level Hits			0	0		0	0	0

Volatile Organic Compounds

Sample ID	ample Date	Isopropylbenzene	Methylene chloride	MTBE	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	0.4 J	<0.4	<0.5	<0.2	<0.3	<0.4	<0.2
IRPMW52-042797-W	4/27/97	<0.2	<0.7	<2.1	<0.3	<0.2	<0.8	<0.2
IRPMW52-030898-W	3/8/98	<0.36	<0.6	<0.49	<0.22	<0.3	<0.22	<0.4
Analyses		3	3	3	3	3	3	3
Detections		1	0	0	0	0	0	0
Minimum Concentration		0.4	0	0	0	0	0	0
Maximum Concentration		0.4	0	0	0	0	0	0
HWAD_-_GW_Action_Level		19	5	20			6.2	
HWAD_-_GW_Action_Level Hits		0	0	0			0	

Volatile Organic Compounds

Sample ID	ample Date	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.2	<0.2	<0.3	0.3 J	<0.3	NA	<0.3
IRPMW52-042797-W	4/27/97	<0.1	<0.3	<0.1	<0.1	<0.2	<0.2	<0.1
IRPMW52-030898-W	3/8/98	<0.36	<0.3	<0.36	<0.97	<0.35	<0.36	<0.36
Analyses		3	3	3	3	3	2	3
Detections		0	0	0	1	0	0	0
Minimum Concentration		0	0	0	0.3	0	0	0
Maximum Concentration		0	0	0	0.3	0	0	0
HWAD_-_GW_Action_Level		100		5	1000	100	0.081	5
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0

Sample ID	ample Date	Trichlorofluoromethane	Vinyl chloride	Xylenes-m&-p	Xylene-o
		ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.2	<0.2	<0.5	<0.2
IRPMW52-042797-W	4/27/97	<0.1	<0.1	<0.2	<0.1
IRPMW52-030898-W	3/8/98	<0.31	<0.38	NA	<0.34
Analyses		3	3	2	3
Detections		0	0	0	0
Minimum Concentration		0	0	0	0
Maximum Concentration		0	0	0	0
HWAD_-_GW_Action_Level		1300		10000	10000
HWAD_-_GW_Action_Level Hits		0		0	0

Sample ID	ample Date	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Naphthylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7
IRPMW52-042797-W	4/27/97	<1.4	<0.8	<0.7	<0.5	<0.5	<0.6	<3.4	<0.7 UJ
IRPMW52-030898-W	3/8/98	<1.6	<1.6	<1.6	<0.54	<1.5	<1.4	<1.2	<2.4
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		11	70	600	0.084	17	75		
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0		

Sample ID	ample Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13	<0.7	NA
IRPMW52-042797-W	4/27/97	<0.5	<1.7	<0.5	<0.6	<0.9	<13 UJ	<0.7	<0.6
IRPMW52-030898-W	3/8/98	<1.7	<1.4	<1.7	<1.6	<1.4	<12	<1.7	NA
Analyses		3	3	3	3	3	3	3	1
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3700	6.1	110	730	73	73	
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0	0	

Sample ID	ample Date	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Naphthylamine	2-Nitroaniline	2-Nitrophenol
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1	<0.4	<0.8
IRPMW52-042797-W	4/27/97	<0.5	<0.8	<0.7	<0.8	<0.5	<1 UJ	<0.4	<0.8
IRPMW52-030898-W	3/8/98	<1.7	<1.5	<1.3	<1.1	<2.3	<2.1	<1.5	<1.3
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		37	490	38		1800		2.2	
HWAD_-_GW_Action_Level Hits		0	0	0		0		0	

Sample ID	ample Date	2-Picoline	3,3-Dichlorobenzidine	3-Methylcholanthrene	3-Nitroaniline	3/4-Methylphenol (m/p-Cresol)	4,6-Dinitrophenol-o-cresol	4-Aminobiphenyl	4-Bromophenyl phenyl ether
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.5	<1.7	NA	<3.8	NA	<2.4	<0.7	<0.6
IRPMW52-042797-W	4/27/97	<0.5	<1.7	<0.6	<3.8	<1	<2.4 UJ	<0.7	<0.6
IRPMW52-030898-W	3/8/98	<1.3	<2.7	NA	<1.8	NA	<2.9	<1.5	<0.61
Analyses		3	3	1	3	1	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			0.15			180			
HWAD_-_GW_Action_Level Hits			0			0			

Sample ID	ample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	7,12-Dimethylbenz(a)anthracene	a,a-Dimethylphenethylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.6	<0.7	<0.7	<1	<1.1	<3.2	<0.8	<2
IRPMW52-042797-W	4/27/97	<0.6	<0.7	<0.7	NA	<1.1	<3.2	<0.8	<2
IRPMW52-030898-W	3/8/98	<1.6	<0.63	<1.3	<2.3	<2	<1.9	<2.7	<3.5
Analyses		3	3	3	2	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			150		180				
HWAD_-_GW_Action_Level Hits			0		0				

Sample ID	ample Date	Acenaphthene	Acenaphthylene	Acetophenone	Aniline	Anthracene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.7	<0.6	<0.5	<1.1	<0.5	<1.7	<0.8 UJ-	<0.7
IRPMW52-042797-W	4/27/97	<0.7	<0.6	<0.5	<1.1	<0.5	<1.7 UJ	<0.8	<0.7
IRPMW52-030898-W	3/8/98	<1.6	<1.4	<1.3	<1.5	<0.8	<2.1	<0.6	<2.5
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		370		0.042	12	1800	0.00029	0.1	0.2
HWAD_-_GW_Action_Level Hits		0		0	0	0	0	0	0

Sample ID	ample Date	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.5	<0.8	<0.9	<3.2 UJ	<0.5	<0.8	<0.7
IRPMW52-042797-W	4/27/97	<0.5	<0.8	<0.9 UJ-	<3.2 UJ-	<0.5	<0.8	<0.7
IRPMW52-030898-W	3/8/98	<0.69	<2.6	<0.69	<2.7	<1	<1.6	<1.9
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.2			150000	11000		0.0098
HWAD_-_GW_Action_Level Hits		0			0	0		0

Sample ID	ample Date	bis(2-Chloroisopropyl)-ether	bis(2-Ethylhexyl)-phthalate	Butyl benzyl phthalate	Chrysene	Di-n-Butyl-phthalate	Di-n-octyl phthalate	Dibenz(a,h)anthracene	Dibenz(a,j)acridine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<1.8 UJ-	<2.4	<0.7	<0.6	<1.3	<0.7	<0.7	<0.6
IRPMW52-042797-W	4/27/97	<1.8	<2.4	<0.7	<0.6	<1.3	<0.7	<0.7	<0.6
IRPMW52-030898-W	3/8/98	<2.3	7 J	8 J	<0.5	<1	<2.8	<2.6	<2.4
Analyses		3	3	3	3	3	3	3	3
Detections		0	1	1	0	0	0	0	0
Minimum Concentration		0	7	8	0	0	0	0	0
Maximum Concentration		0	7	8	0	0	0	0	0
HWAD_-_GW_Action_Level		0.27	6	100	0.2	3700	730	0.0092	
HWAD_-_GW_Action_Level Hits		0	1	0	0	0	0	0	

Sample ID	ample Date	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Diphenylamine	Ethyl methanesulfonate	Fluoranthene	Fluorene	Hexachlorobenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.6	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW52-042797-W	4/27/97	<0.6	<0.7	<0.5	<0.7	<0.8	<0.7	<0.7	<0.6
IRPMW52-030898-W	3/8/98	<1.5	<1.5	<1.5	<1.5	<0.8	<1.2	<1.2	<1.3
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		24	29000	370000	910		1500	240	1
HWAD_-_GW_Action_Level Hits		0	0	0	0		0	0	0

Sample ID	ample Date	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Methyl methanesulfonate	N-Nitroso-di-n-butylamine
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW52-042797-W	4/27/97	<0.6	<8.2	<0.5	<0.7	<0.6	<0.5	<0.7
IRPMW52-030898-W	3/8/98	<1.4	<8.5	<1.5	<2.7	<1.6	<1.4	<1.4
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.86	50	4.8	0.092	71		0.002
HWAD_-_GW_Action_Level Hits		0	0	0	0	0		0

Sample ID	ample Date	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosopiperidine	Naphthalene	Nitrobenzene	p-Dimethylaminoazobenzene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW52-042797-W	4/27/97	<0.6	<0.6	<0.5	<0.6	<0.6	<0.8	<2.3
IRPMW52-030898-W	3/8/98	<1.3	<1.4	<1.6	<1.5	<1.4	<0.94	<0.65
Analyses		3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		0.0096	0.0013	14		6.2	3.4	
HWAD_-_GW_Action_Level Hits		0	0	0		0	0	

Sample ID	ample Date	Pentachlorobenzene	Pentachloronitrobenzene	Pentachlorophenol	Phenacetin	Phenanthrene	Phenol	Pronamide	Pyrene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6	<0.6
IRPMW52-042797-W	4/27/97	<1.8	<0.5	<1.8	<0.6	<0.6	<1.9	<2.6	<0.6
IRPMW52-030898-W	3/8/98	<1.6	<3.3	<15	<0.99	<1	<1.7	<1.6	<0.54
Analyses		3	3	3	3	3	3	3	3
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level		29	0.26	1			22000	2700	180
HWAD_-_GW_Action_Level Hits		0	0	0			0	0	0

Sample ID	ample Date
IRPMW52-020197-W	2/1/97
IRPMW52-042797-W	4/27/97
IRPMW52-030898-W	3/8/98

Analyses
Detections
Minimum Concentration
Maximum Concentration

HWAD_-_GW_Action_Level
HWAD_-_GW_Action_Level Hits

Explosives

Sample ID	ample Date	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Amino-4,6-dinitrotoluene
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.1	<0.058	<0.065	<0.018	<0.09	<0.031
IRPMW52-042797-W	4/27/97	<0.1	<0.058	<0.065	<0.018	<0.09	NA
IRPMW52-030898-W	3/8/98	<0.093	<0.09	<0.069	<0.061	<0.12	<0.14
Analyses		3	3	3	3	3	2
Detections		0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0
HWAD_-_GW_Action_Level		1100	3.7	2.2	73	37	0.099
HWAD_-_GW_Action_Level Hits		0	0	0	0	0	0

Explosives

Sample ID	ample Date	2-Nitrotoluene	3-Nitrotoluene	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	HMX	Nitrobenzene	Picric Acid
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.13	<0.11	<0.035	<0.13	<0.17	<0.073	<7.1
IRPMW52-042797-W	4/27/97	<0.13 UJ-	<0.11	NA	<0.13 UJ-	<0.17	<0.073	<7.1
IRPMW52-030898-W	3/8/98	<0.074	<0.16	<0.13	<0.074	<0.11	<0.11	<0.3
Analyses		3	3	2	3	3	3	3
Detections		0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0
HWAD_-_GW_Action_Level			370	0.099	370	1800	3.4	1
HWAD_-_GW_Action_Level Hits			0	0	0	0	0	0

Sample ID	ample Date	RDX	Tetryl
		ug/l	ug/l
IRPMW52-020197-W	2/1/97	<0.13	<0.066
IRPMW52-042797-W	4/27/97	<0.13	<0.066
IRPMW52-030898-W	3/8/98	<0.078	<0.065
Analyses		3	3
Detections		0	0
Minimum Concentration		0	0
Maximum Concentration		0	0
HWAD_-_GW_Action_Level		0.61	
HWAD_-_GW_Action_Level Hits		0	

Nitrogen Compounds
USEPA Methods 350.2, 353.1, 353.3 (APCL)

Sample ID	Location ID	Sample Date	Depth	Total Kjeldahl Nitrogen mg/l	Ammonia as Nitrogen mg/l	Nitrate plus Nitrite mg/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	0.41	0.3 J	NA
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	0.3	0.2 J	0.04 J
IRPMW49-081600-W	IRPMW49	8/16/2000	235	0.43	0.2 J	0.84
IRPMW49-111500-W	IRPMW49	11/15/2000	210	0.4	0.3	0.26
IRPMW50-021800-W	IRPMW50	2/18/2000	183	0.44	0.2 J	NA
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	0.2 J	0.09 J	0.78
IRPMW50-081600-W	IRPMW50	8/16/2000	183	0.3	0.2 J	0.72
IRPMW50-111500-W	IRPMW50	11/15/2000	185	0.3	0.09 J	1.3
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	0.4	0.2 J	NA
IRPMW52-021800-W	IRPMW52	2/18/2000	205	0.1 J	0.08 J	NA
Analyses				10	10	6
Detections				10	10	6
Minimum Concentration				0.1	0.08	0.04
Maximum Concentration				0.44	0.3	1.3
HWAD_-_GW_Action_Level						1
HWAD_-_GW_Action_Level Hits						1

Metals
USEPA Methods 6010A and 7470A (APCL)

Sample ID	Location ID	Sample Date	Depth	Arsenic, Total ug/l	Beryllium, Total ug/l	Cadmium, Total ug/l	Chromium, Total ug/l	Lead, Total ug/l	Mercury, Total ug/l	Selenium, Total ug/l	Silver, Total ug/l	Barium, Total ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	11.8	NA	0.4	4.8 J	<1.3	<0.2	<2	<1.1	21.2
IRPMW50-021800-W	IRPMW50	2/18/2000	183	2.8 J	NA	0.25	6.2	<1.3	<0.2	<2	<1.1	27.4
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	3.6 J	NA	<0.24	5.7	<1.3	<0.2	<2	<1.1	30.2
IRPMW52-021800-W	IRPMW52	2/18/2000	205	3.3 J	NA	<0.24	77.8	<1.3	<0.2	<2	<1.1	31.4
Analyses				4	0	4	4	4	4	4	4	4
Detections				4	0	2	4	0	0	0	0	4
Minimum Concentration				2.8	0	0.25	4.8	0	0	0	0	21.2
Maximum Concentration				11.8	0	0.4	77.8	0	0	0	0	31.4
HWAD_-_GW_Action_Level				50	4	5	100	15	2	180	180	2000
HWAD_-_GW_Action_Level Hits				0	0	0	0	0	0	0	0	0

Cations
USEPA Methods 6010A and 7470A (APCL)

Sample ID	Location ID	Sample Date	Depth	Calcium, Total ug/l	Iron, Total ug/l	Magnesium, Total ug/l	Potassium, Total ug/l	Sodium, Total ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	81500	15.7 J	12400	13400	196000
IRPMW50-021800-W	IRPMW50	2/18/2000	183	91700	19.2 J	13400	11500	197000
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	81700	148	11700	10400	187000
IRPMW52-021800-W	IRPMW52	2/18/2000	205	90400	1110	12900	11800	197000
Analyses				4	4	4	4	4
Detections				4	4	4	4	4
Minimum Concentration				81500	15.7	11700	10400	187000
Maximum Concentration				91700	1110	13400	13400	197000
HWAD_-_GW_Action_Level					11000			
HWAD_-_GW_Action_Level Hits					0			

Dissolved Metals
USEPA Methods 6010A and 7470A (APCL)

Sample ID	Location ID	Sample Date	Depth	Arsenic, Dissolved ug/l	Beryllium, Dissolved ug/l	Cadmium, Dissolved ug/l	Chromium, Dissolved ug/l	Lead, Dissolved ug/l	Mercury, Dissolved ug/l	Selenium, Dissolved ug/l	Silver, Dissolved ug/l	Barium, Dissolved ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	12.9	NA	0.27	3.6 J	<1.3	0.24 J	<2	<1.1	19.8 J
IRPMW50-021800-W	IRPMW50	2/18/2000	183	3.8 J	NA	<0.24	3.7 J	<1.3	<0.2	<2	<1.1	26.3
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	3.8 J	NA	<0.24	3.6 J	<1.3	<0.2	<2	<1.1	25.4
IRPMW52-021800-W	IRPMW52	2/18/2000	205	4.6 J	NA	1.5 J	5.7	<1.3	<0.2	<2	<1.1	22.8
Analyses				4	0	4	4	4	4	4	4	4
Detections				4	0	2	4	0	1	0	0	4
Minimum Concentration				3.8	0	0.27	3.6	0	0.24	0	0	19.8
Maximum Concentration				12.9	0	1.5	5.7	0	0.24	0	0	26.3
HWAD_-_GW_Action_Level				50	4	5	100	15	2	180	180	2000
HWAD_-_GW_Action_Level Hits				0	0	0	0	0	0	0	0	0

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane ug/l	1,1,1-Trichloroethane ug/l	1,1,2,2-Tetrachloroethane ug/l	1,1,2-Trichloroethane ug/l	1,1-Dichloroethane ug/l	1,1-Dichloroethene ug/l	1,1-Dichloropropene ug/l	1,2,3-Trichlorobenzene ug/l	1,2,3-Trichloropropane ug/l	1,2,4-Trichlorobenzene ug/l	1,2,4-Trimethylbenzene ug/l	1,2-Dibromoethane (EDB ug/l	1,2-Dichlorobenzene ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.26	<0.12	<0.24	<0.88	<0.17	<0.76	<0.28	<0.3	<1.2	<0.22	<0.31	<0.25	<0.19
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.054	<0.14	<0.11	<0.12	<0.17	<0.054	<0.14
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.26	<0.12	<0.24	<0.88	<0.17	<0.76	<0.28	<0.3	<1.2	<0.22	<0.31	<0.25	<0.19
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<0.092	<0.047	<0.065	<0.078	<0.056	<0.038	<0.054	<0.14	<0.11	<0.12	<0.17	<0.054	<0.14
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.45	<0.19	<0.27	<0.25	<0.23	<0.32	<0.27	<0.32	<0.62	<0.36	<1.5	<0.24	<0.22
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				0.43	200	0.055	5	810	7			0.0016	70	12	0.05	600
HWAD_-_GW_Action_Level Hits				0	0	0	0	0	0			0	0	0	0	0

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	1,2-Dichloroethane ug/l	1,2-Dichloropropane ug/l	1,3,5-Trimethylbenzene ug/l	1,3-Dichlorobenzene ug/l	1,3-Dichloropropane ug/l	1,4-Dichlorobenzene ug/l	2,2-Dichloropropane ug/l	2-Chlorotoluene ug/l	4-Chlorotoluene ug/l	4-Isopropyltoluene ug/l	Benzene ug/l	Bromobenzene ug/l	Bromochloromethane ug/l	Bromodichloromethane ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.19	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.87	<0.2	<0.17	<0.12	<0.14	<0.18	<0.2	<0.27	<0.3	<0.09	<0.08	<0.32	<1.1	<0.31
IRPMW49-081600-W	IRPMW49	8/16/2000	235	0.7 J	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.065	<0.035	<0.17	<0.13	<0.07	<0.22	<0.087	<0.13	<0.17	<0.2	<0.054	<0.13	<0.15	<0.11
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.19	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.87	<0.2	<0.17	<0.12	<0.14	<0.18	<0.2	<0.27	<0.3	<0.09	<0.08	<0.32	<1.1	<0.31
IRPMW50-081600-W	IRPMW50	8/16/2000	183	0.7 J	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
IRPMW50-111500-W	IRPMW50	11/15/2000	185	0.4 J	<0.035	<0.17	<0.13	<0.07	<0.22	<0.087	<0.13	<0.17	<0.2	<0.054	<0.13	<0.15	<0.11
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.19	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.19	<0.14	<0.24	<0.27	<0.23	<0.27	<0.22	<0.43	<0.25	<0.24	<0.26	<0.29	<0.41	<0.34
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				3	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0.7	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				5	5		17		75		120			5			100
HWAD_-_GW_Action_Level Hits				0	0		0		0		0			0			0

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Bromoform ug/l	Bromomethane ug/l	Carbon tetrachloride ug/l	Chlorobenzene ug/l	Chloroethane ug/l	Chloroform ug/l	Chloromethane ug/l	cis-1,2-Dichloroethene ug/l	cis-1,3-Dichloropropene ug/l	Dibromochloromethane ug/l	Dibromochloropropane ug/l	Dibromomethane ug/l	Dichlorodifluoromethane ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.3	<0.88	<0.12	<0.16	<0.32	<0.22	<0.35	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.065	<0.036	<0.054	<0.09	<0.065	<0.044	<0.094	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.3	<0.88	<0.12	<0.16	<0.32 UJ-	<0.22	<0.35	<0.34	<0.09	<0.47	<2.3	<0.66	<0.29
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<0.065	<0.036	<0.054	<0.09	<0.065	<0.044	<0.094	<0.043	<0.046	<0.076	<0.19	<0.044	<0.042
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.39	<0.56	<0.33	<0.29	<0.45	<0.31	<0.25	<0.14	<0.29	<0.24	<1.6	<0.39	<0.4
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				100	8.7	5	100		100	1.5	70		100	0.2		390
HWAD_-_GW_Action_Level Hits				0	0	0	0		0	0	0		0	0		0

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Ethylbenzene ug/l	Hexachlorobutadiene ug/l	Isopropylbenzene ug/l	m-&p-Xylenes ug/l	Methylene chloride ug/l	MTBE ug/l	n-Butylbenzene ug/l	n-Propylbenzene ug/l	Naphthalene ug/l	o-Xylene ug/l	sec-Butylbenzene ug/l	Styrene ug/l	tert-Butylbenzene ug/l	Tetrachloroethene ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.26	<0.3	<0.26	<0.45	1	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.15	<0.89	<0.15	<0.37	<3.8	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.13	<0.18	<0.15
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<0.26	<0.3	<0.26	<0.45	<0.51	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.088	<0.22	<0.17	<0.22	0.5 J	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16	<0.088
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.26	<0.3	<0.26	<0.45	1	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.15	<0.89	<0.15	<0.37	<3.8	<0.25	<0.28	<0.19	<0.15	<0.23	<0.15	<0.13	<0.18	<0.15
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<0.26	<0.3	<0.26	<0.45	<0.51	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<0.088	<0.22	<0.17	<0.22	0.7 J	<0.097	<0.17	<0.13	<0.16	<0.074	<0.15	<0.1	<0.16	<0.088
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.26	<0.3	<0.26	<0.45	1	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.26	<0.3	<0.26	<0.45	0.8	<0.53	<0.34	<0.32	<0.66	<0.27	<0.3	<0.2	<0.4	<0.39
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	6	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	1	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				700	0.86	19	10000	5	20			6.2	10000		100		5
HWAD_-_GW_Action_Level Hits				0	0	0	0	0	0			0	0		0		0

Volatile Organic Compounds
USEPA Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropen	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.21	<0.14	<0.29	<0.28	<0.26	<0.19
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.12	<0.19	<0.2	<0.28	<0.33	<0.31
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<0.21	<0.14	<0.29	38	<0.26	<0.19
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.034	<0.036	<0.044	<0.057	<0.053	<0.068
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.21	<0.14	<0.29	32	<0.26	<0.19
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.12	<0.19	<0.2	18	<0.33	<0.31
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<0.21	<0.14	<0.29	34	<0.26	<0.19
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<0.034	<0.036	<0.044	24	<0.053	<0.068
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.21	<0.14	<0.29	<0.28	<0.26	<0.19
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.21	<0.14	<0.29	<0.28	<0.26	<0.19
Analyses				10	10	10	10	10	10
Detections				0	0	0	5	0	0
Minimum Concentration				0	0	0	18	0	0
Maximum Concentration				0	0	0	38	0	0
HWAD_-_GW_Action_Level				1000	100	0.081	5	1300	2
HWAD_-_GW_Action_Level Hits				0	0	0	5	0	0

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Naphthylamine	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<0	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	<1.5	<1.8
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<2.6	<2	<1.9	<2.8	<2.1	<1.8	<2.1	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<14	<2	<2.1
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<2.6	<2	<1.9	<2.8	<2.1	<1.8	<2.1	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<14 UJ	<2	<2.1
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.7	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2 UJ	<1.5	<1.8
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<0	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	<1.5	<1.8
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<2.6	<2	<1.9	<2.8	<2.1	<1.8	<2.1	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<14	<2	<2.1
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<2.6	<2	<1.9	<2.8	<2.1	<1.8	<2.1	<7.6	<1.3	<1.4	<2.1	<2.1	<1.2	<14 UJ	<2	<2.1
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<1.7	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	<1.5	<1.8
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<0	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	<1.5	<1.8
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<1.4	<1.4	<1.3	<1.1	<1.2	<1.2	<0	<19	<1.4	<1.5	<1.4	<1.4	<1.5	<6.2	<1.5	<1.8
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				11	70	600	0.084	17	75			1100	3700	6.1	110	730	73	73	37
HWAD_-_GW_Action_Level Hits				0	0	0	0	0	0			0	0	0	0	0	0	0	0

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	2-Chloronaphthalene ug/l	2-Chlorophenol ug/l	2-Methylnaphthalene ug/l	2-Methylphenol (o-Cresol) ug/l	2-Naphthylamine ug/l	2-Nitroaniline ug/l	2-Nitrophenol ug/l	2-Picoline ug/l	3,3-Dichlorobenzidine ug/l	3-Nitroaniline ug/l	4,6-Dinitrophenol-o-cresol ug/l	4-Aminobiphenyl ug/l	4-Bromophenyl phenyl ether ug/l	4-Chloro-3-methylphenol ug/l	4-Chloroaniline ug/l	4-Chlorophenyl phenyl ether ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<2.1	<1.8	<1.5	<1.3	<6.3	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8	<2.1	<1.7	<7.8	<2
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<2.1	<1.8	<1.5	<1.3	<6.3 UJ	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8	<2.1	<1.7	<7.8	<2
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2 UJ	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<2.1	<1.8	<1.5	<1.3	<6.3	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8	<2.1	<1.7	<7.8	<2
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<2.1	<1.8	<1.5	<1.3	<6.3 UJ	<8.6	<1.7	<1.4	<7.8	<7.6	<4.5	<1.8	<2.1	<1.7	<7.8	<2
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<1.7	<1.3	<1.7	<1.3	<19	<8.2	<1.2	<0.96	<9.3	<7.7	<3.4	<1.5	<1.8	<1.9	<7.6	<1.8
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				490	38		1800		2.2			0.15						150	
HWAD_-_GW_Action_Level Hits				0	0		0		0			0						0	

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	4-Methylphenol ug/l	4-Nitroaniline ug/l	4-Nitrophenol ug/l	7,12-Dimethylbenz(a)anthracen ug/l	a,a-Dimethylphenethylamine ug/l	Acenaphthene ug/l	Acenaphthylene ug/l	Acetophenone ug/l	Aniline ug/l	Anthracene ug/l	Benzidine ug/l	Benzo(a)anthracene ug/l	Benzo(a)pyrene ug/l	Benzo(b)fluoranthene ug/l	Benzo(g,h,i)perylene ug/l	Benzo(k)fluoranthene ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<1.1	<7.5 UJ-	<14	<2.1	<1.2 UJ	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1	<1.6	<1.6	<1.4	<2	<1.8
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<1.8	<7.3	<14	<1.1	<6.2	<2	<1.9	<1.6	<1.9	<1.7	<5.1	<1.6	<1.7	<1.5	<1.6	<1.4
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<1.8	<7.3 UJ-	<14	<1.1	<6.2 UJ	<2	<1.9	<1.6	<1.9	<1.7	<5.1 UJ	<1.6	<1.7	<1.5	<1.6	<1.4
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<1.1	<7.5	<14	<2.1	<1.2	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1 UJ	<1.6	<1.6	<1.4	<2	<1.8
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<1.1	<7.5 UJ-	<14	<2.1	<1.2 UJ	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1	<1.6	<1.6	<1.4	<2	<1.8
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<1.8	<7.3	<14	<1.1	<6.2	<2	<1.9	<1.6	<1.9	<1.7	<5.1	<1.6	<1.7	<1.5	<1.6	<1.4
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<1.8	<7.3 UJ	<14	<1.1	<6.2 UJ	<2	<1.9	<1.6	<1.9	<1.7	<5.1 UJ	<1.6	<1.7	<1.5	<1.6	<1.4
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<1.1	<7.5	<14	<2.1	<1.2	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1	<1.6	<1.6	<1.4	<2	<1.8
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<1.1	<7.5 UJ-	<14 UJ-	<2.1	<1.2 UJ	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1	<1.6	<1.6	<1.4	<2	<1.8
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<1.1	<7.5 UJ-	<14 UJ-	<2.1	<1.2 UJ	<1.5	<1.7	<1.4	<1.3	<1.6	<8.1	<1.6	<1.6	<1.4	<2	<1.8
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				180					370		0.042	12	1800	0.00029	0.1	0.2	0.2		
HWAD_-_GW_Action_Level Hits				0					0		0	0	0	0	0	0	0		

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	Benzoic acid	Benzyl alcohol	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl)-ether	bis(2-Ethylhexyl)-phthalate	Butyl benzyl phthalate	Chrysene	Di-n-Butyl-phthalate	Di-n-octyl phthalate	Dibenz(a,h)anthracene	Dibenz(a,j)acridine	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0	<1.3	<1.9	<1.3	<1.4	<2.1	13	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<50	<1.4 UJ-	<1.4	<1.8	<1.6	<2.1	8 J	<1.5	<1.6	<2	<1.5	<1.2	<2	<2.2	<2
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<50 UJ	<1.4	<1.4	<1.8	<1.6	<2.1	4 J	<1.5	<1.6	<2	<1.5	<1.2	<2	<2.2	<2
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<49	<1.3	<1.9	<1.3	<1.4	<2.1	6 J	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0	<1.3	<1.9	<1.3	<1.4	<2.1	5 J	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<50	<1.4 UJ-	<1.4	<1.8	<1.6	<2.1	4 J	<1.5	<1.6	<2	<1.5	<1.2	<2	<2.2	<2
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<50 UJ	<1.4	<1.4	<1.8	<1.6	<2.1	2 J	<1.5	<1.6	<2	<1.5	<1.2	<2	<2.2	<2
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<49 UJ-	<1.3	<1.9	<1.3	<1.4	<2.1	<2	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0	<1.3	<1.9	<1.3	<1.4	4 J	16	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0	<1.3	<1.9	<1.3	<1.4	<2.1	10 J	<1.6	<1.7	<1.9	<1.4	<1.3	<1.7	<1.9	<1.9
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	1	9	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	4	2	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	4	16	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				150000	11000		0.0098	0.27	6	100	0.2	3700	730	0.0092		24	29000	370000
HWAD_-_GW_Action_Level Hits				0	0		0	0	0	0	0	0	0	0		0	0	0

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	Diphenylamine	Ethyl methanesulfonate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Methyl methanesulfonate	N-Nitroso-di-n-butylamine	N-Nitroso-di-n-propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	N-Nitrosopiperidine
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<1.5	<1.5	<1.5	<1.8	<1.6	<1 UJ	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<1.8	<1.8	<1.5	<1.9	<1.2	<2.3	<8.5 UJ-	<2.1	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<1.8	<1.8	<1.5	<1.9	<1.2	<2.3	<8.5	<2.1	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<1.5	<1.5	<1.5	<1.8	<1.6	<1	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<1.5	<1.5	<1.5	<1.8	<1.6	<1 UJ	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<1.8	<1.8	<1.5	<1.9	<1.2	<2.3	<8.5 UJ-	<2.1	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<1.8	<1.8	<1.5	<1.9	<1.2	<2.3	<8.5	<2.1	<1.7	<1.4	<1.6	<1.6	<1.4	<1.3	<8.9	<1.3
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<1.5	<1.5	<1.5	<1.8	<1.6	<1	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<1.5	<1.5	<1.5	<1.8	<1.6	<1 UJ	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<1.5	<1.5	<1.5	<1.8	<1.6	<1 UJ	<3.8	<1.4	<1.7	<1.7	<0.94	<2.4	<1.8	<0.8	<7.7	<1.6
Analyses				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				910		1500	240	1	0.86	50	4.8	0.092	71		0.002	0.0096	0.0013	14	
HWAD_-_GW_Action_Level Hits				0		0	0	0	0	0	0	0	0		0	0	0	0	

Semivolatile Organic Compounds
USEPA Method 8270B (APCL)

Sample ID	Location ID	Sample Date	Depth	Naphthalene ug/l	Nitrobenzene ug/l	p-Dimethylaminoazobenzene ug/l	Pentachlorobenzene ug/l	Pentachloronitrobenzene ug/l	Pentachlorophenol ug/l	Phenacetin ug/l	Phenanthrene ug/l	Phenol ug/l	Pronamide ug/l	Pyrene ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<1.3	<1.4	<1.5	<1.5	<1.2	<7.2 UJ	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<1.8	<1.6	<1.4	<2.2	<1.5	<2.9	<2	<1.9	<0.85	<1.5	<1.7
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<1.8	<1.6	<1.4	<2.2	<1.5	<2.9	<2	<1.9	<0.85	<1.5	<1.7
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<1.3	<1.4 UJ-	<1.5	<1.5	<1.2	<7.2	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<1.3	<1.4	<1.5	<1.5	<1.2	<7.2 UJ	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<1.8	<1.6	<1.4	<2.2	<1.5	<2.9	<2	<1.9	<0.85	<1.5	<1.7
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<1.8	<1.6	<1.4	<2.2	<1.5	<2.9	<2	<1.9	<0.85	<1.5	<1.7
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<1.3	<1.4	<1.5	<1.5	<1.2	<7.2	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<1.3	<1.4	<1.5	<1.5	<1.2	<7.2 UJ	<1.6	<1.4	<0.69	<1.5	<1.6
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<1.3	<1.4	<1.5	<1.5	<1.2	<7.2 UJ	<1.6	<1.4	<0.69	<1.5	<1.6
Analyses				10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				6.2	3.4		29	0.26	1			22000	2700	180
HWAD_-_GW_Action_Level Hits				0	0		0	0	0			0	0	0

Explosives
USEPA Methods 8330 and 8330M (APCL)

Sample ID	Location ID	Sample Date	Depth	1,3,5-Trinitrobenzene ug/l	1,3-Dinitrobenzene ug/l	2,4,6-Trinitrotoluene ug/l	2,4-Dinitrotoluene ug/l	2,6-Dinitrotoluene ug/l	2-Nitrotoluene ug/l	3-Nitrotoluene ug/l	4-Nitrotoluene ug/l	HMX ug/l	Nitrobenzene ug/l	Picric Acid ug/l
IRPMW49-021800-W	IRPMW49	2/18/2000	235.6	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW49-051800-W	IRPMW49	5/18/2000	235.6	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW49-081600-W	IRPMW49	8/16/2000	235	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW49-111500-W	IRPMW49	11/15/2000	210	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW50-021800-W	IRPMW50	2/18/2000	183	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW50-051800-W	IRPMW50	5/18/2000	183.2	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW50-081600-W	IRPMW50	8/16/2000	183	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW50-111500-W	IRPMW50	11/15/2000	185	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW51-021800-W	IRPMW51	2/18/2000	243.7	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
IRPMW52-021800-W	IRPMW52	2/18/2000	205	<0.035	<0.088	<0.097	<0.058	<0.057	<0.53	<0.043	<0.53	<0.05	<0.09	<0.34
Analyses				10	10	10	10	10	10	10	10	10	10	10
Detections				0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0
HWAD_-_GW_Action_Level				1100	3.7	2.2	73	37		370	370	1800	3.4	1
HWAD_-_GW_Action_Level Hits				0	0	0	0	0		0	0	0	0	0