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# DEFENSE DISTRIBUTION DEPOT MEMPHIS

# QUARTERLY GROUNDWATER MONITORING REPORT





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U.S. Army Engineering and Support Center, Huntsville

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September 19, 1997

CH2MHILL

Shawn Phillips Defense Distribution Depot, Memphis 2163 Airways Blvd. Memphis, Tennessee 38114

Subject: Transmittal of DDMT June 1997 Quarterly Groundwater Report Under Delivery Order 4 of Contract DACA87-94-D-0005

Dear Shawn:

Please find enclosed thirteen (13) copies of the June Quarterly Groundwater Report for the Defense Distribution Depot Memphis, Tennessee.

If you should have any questions or comments, please call me at (423) 483-9032.

Sincerely,

CH2M HILL

Greg Underberg Project Manager

ATL/WP/LETTERS/PHIL\_LTR.DOC Enclosures

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Results and Discussion

This report summarizes results for groundwater elevation and sample analytical data collected during the Defense Distribution Depot Memphis (DDMT) June 1997 quarterly groundwater sampling event. This report is organized into the following sections:

- Section 1 Introduction
- Section 2 Field Methods
- Section 3 Groundwater Sampling Results
- Section 4 Conclusions
- Section 5 References

The analytical data summary, quality assurance/quality control (QA/QC) summary, purge logs, sample logs, and field notes are presented in Appendices A through E, respectively. Laboratory analytical data sheets have been archived in the DDMT project files at CH2M HILL.

These quarterly groundwater data were collected to support ongoing Remedial Investigation/Feasibility Study (RI/FS) activities at the DDMT facility. DDMT was placed on the National Priorities List (NPL) and must fulfill requirements under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The remedial process under CERCLA and NCP requires the preparation of a RI/FS to determine the nature and extent of contamination, to evaluate public health risks, and to screen potential remedial actions.

Previous well installation and groundwater sampling activities through 1993 indicated the presence of organic and inorganic constituents exceeding levels of concern in groundwater primarily at Dunn Field, but also at other locations within the main DDMT facility area. In January and February 1996, DDMT expanded the groundwater monitoring network with additional wells to evaluate the extent of contamination west of Dunn Field and to provide additional upgradient groundwater quality data. The purpose of this quarterly groundwater sampling report is to present and summarize the June 1997 groundwater elevation and water quality data collected from the monitoring wells at the DDMT facility. In addition, this report summarizes the spatial and temporal distribution of these data as compared to data previously collected from these wells.

The groundwater elevation and water quality data in this report were collected in accordance with the requirements of OU-4 FSP (CH2M HILL, 1995). OU-4 consists of the former and current hazardous materials storage buildings—Buildings 319, 629, and 835— and the Defense Reutilization and Marketing Office (DRMO) buildings and stockyards. The geographical coverage of OU-4 includes an area of suspected interaction between the Fluvial and Memphis Sand Aquifers; therefore, the scope of OU-4 was expanded to include site-wide groundwater flow and contaminant transport.

# 1.1 Facility Background

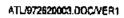
DDMT covers 642 acres of land in Shelby County, Memphis, Tennessee, in the extreme southwestern portion of the state (see Figure 1-1). Approximately 5 miles east of the Mississippi River and just northeast of the Interstate 240–Interstate 55 junction, DDMT is in the south-central section of Memphis, approximately 4 miles southeast of the Central Business District and 1 mile northwest of Memphis International Airport. Airways Boulevard borders DDMT on the east and provides primary access to the installation. Dunn Avenue, Ball Road, and Perry Road serve as the northern, southern, and western boundaries to the main installation, respectively. Dunn Field, the only known waste disposal area at DDMT, is located just north of the main installation. Person Avenue, Kyle Street, and Hays Street serve as the northern, western, and eastern boundaries to Dunn Field, respectively.

The installation consists of approximately 110 buildings, 26 miles of railroad track, and 28 miles of paved streets. The facility has approximately 5.5 million square feet of covered storage space and approximately 6 million square feet of open space.

Past activities at DDMT include a wide range of storage, distribution, and maintenance practices. Dunn Field has been used as a landfill area (northwest quadrant), storage area for mineral stockpiles (southwest and southeast quadrants), and pistol range (northeast quadrant). Activities within the southern portion of the main installation have included hazardous material storage and recoupment (Building 873), sandblasting/painting activities (Buildings 1086 through 1089), and maintenance (Building 770). Other activities documented to have occurred in this area of the installation include polychlorinated biphenyl (PCB) transformer storage (near Building 274), pesticide/herbicide storage and use, and fire truck pump testing (Lake Danielson). The northern portion of the main installation has a history of hazardous materials storage, treatment of wood products with pentachlorophenol (Building 737), and storage of items awaiting disposal. Specific building and facility locations are provided in Drawings 1 and 2 of the Final Generic Remedial Investigation/Feasibility Study Work Plan (U.S. Army Corps of Engineers Huntsville Division [CEHND], 1995).

DDMT was issued a Resource Conservation and Recovery Act (RCRA) Part B permit (No. TN4 210 020 570) by the U.S. Environmental Protection Agency (EPA), Region IV, and the Tennessee Department of Environmental Conservation (TDEC) on September 28, 1990. Subsequently, in accordance with Section 120 (d)(2) of CERCLA, 42 U.S.C. 9620(d)(2), EPA prepared a final Hazard Ranking System (HRS) Scoring Package for DDMT. On the basis of the final HRS score of 58.06, EPA added DDMT to the NPL by publication in the Federal Register (FR), 57 FR 47180 No. 199, on October 14, 1992.

As a result of DDMT's status as an NPL site, it was agreed that the investigation of all applicable sites would proceed under the CERCLA process for remediation (remedial investigation, feasibility study, proposed plan, record of decision, remedial design, and remedial action). To date, 55 monitoring wells have been installed (see Figure 1-2) as part of the investigative phase to characterize site conditions.



## 1.2 DDMT Hydrogeology

#### 1.2.1 Regional Hydrogeology Setting

The Final Generic Remedial Investigation/Feasibility Study Work Plan (CEHND, 1995) provides a thorough discussion of the regional geologic and hydrologic features applicable to DDMT. Recent work by Kingsbury and Parks (1993) and Parks and Carmichael (1988) also provides insight into the hydrogeologic setting. In particular, the unit called Jackson Formation/Upper Claiborne Group in Parks' earlier publications has been further defined. The Cockfield Formation is now recognized as a member of the Claiborne Group in western Tennessee. Figure 1-3 presents a general cross section of the Memphis area extending southwest to northeast across Shelby County. Of the geologic units shown, the following are applicable to groundwater flow and contaminant transport conditions at DDMT:

Loess. Loess is a semi-cohesive eolian deposit composed of silt, silty clay, silty fine sand, or mixtures thereof. It mantles the ground surface over wide areas of the central United States. It typically occurs above the alluvial (terrace) deposits and is thickest along the bluffs overlooking the Mississippi Alluvial Plain. Its maximum thickness is reported to be about 65 feet; it thins considerably toward the east. Locally, it may contain thin, discontinuous, fine sandy layers enclosed within silts and silty clays.

Fluvial (Terrace) Deposits. Quaternary and possibly Pliocene age fluvial deposits occur beneath the uplands and valley slopes of the Gulf Coastal Plain and are the remnants of ancient alluvial deposits of either present streams or an ancient drainage system. The fluvial deposits consist primarily of sand and gravel with minor lenses of clay and thin layers of iron-oxide cemented sandstone or conglomerate. These fluvial deposits range from zero to 100 feet in thickness and underlay the loess. The thickness is highly variable because of erosional surfaces at both top and base. Locally, in the Memphis area, the fluvial deposits may be absent (Graham and Parks, 1986). These deposits comprise the upper aquifer at DDMT, herein termed the Fluvial Aquifer.

Jackson, Cockfield, and Cook Mountain Formations. The Late Eocene Jackson Formation and upper part of the Claiborne Group lie beneath the fluvial (terrace) deposits. The upper Claiborne consists of the Jackson, Cockfield, and the Cook Mountain Formations. Because of lithologic similarities, the Jackson Formation and the Cockfield Formation cannot be reliably subdivided in the subsurface of the Memphis area. The Jackson/Cockfield Formations consist of sand, silt, clay, and lignite beds. The preserved sequence is predominantly Cockfield, but in the northwestern part of the Memphis area the Cockfield is overlain by the Jackson Formation (Kingsbury and Parks, 1993). The Cockfield Formation is typically composed of clay and silt in the upper part and sand in the lower part, although locally this may be reversed (Parks and Carmichael, 1988). Lignite beds, up to 10 feet in thickness, occur in the clays, silts, and sands. The base of the Cockfield Formation is faulted and dips to the west at a rate of 10 to 40 feet per mile.

The thickness of the Jackson Formation is reported differently in the literature. Kingsbury and Parks (1993) report a range of zero to 50 feet, while Parks and Carmichael (1988) report a thickness ranging from zero to 150 feet. Where the Jackson Formation is present, the Cockfield may be from 235 to 270 feet in thickness. In other places, extensive erosion caused 258 9 the thickness to be highly variable. The Cockfield is generally an unconfined water-table aquifer (Parks and Carmichael, 1988) and provides water for some public and industrial uses.

The Cook Mountain Formation is the lower confining unit to the Cockfield and generally consists of clay, silt, and sand. Kingsbury and Parks (1993) report a range of zero to 50 feet in the Memphis area, while Parks and Carmichael (1988) report a thickness ranging from zero to 150 feet over the West Tennessee area.

Memphis Sand ("500-foot sand"). The widespread terrace deposits of the Memphis Sand were deposited during the Middle Eccene when streams carried extensive quantities of sand and gravel into the Mississippi embayment area. The Memphis Sand unit is composed primarily of thick bedded, white to brown or gray, very fine-grained to gravelly, partly argillaceous, and micaceous sand. Lignific clay beds constitute only a small percentage of total thickness. The Memphis Sand ranges from 500 to 890 feet in thickness, and the depth to the top of the Memphis Sand Aquifer in the area ranges from approximately 120 feet to 300 feet below ground surface. It is thinnest in the northeastern part of the Memphis area in northwestern Fayette County, Tennessee, and thickest near the Mississippi River in southwestern Shelby County, Tennessee. The City of Memphis obtains its drinking water form this aquifer. The base of the Memphis Sand dips to the west at a rate of 20 to 50 feet per mile.

Graham and Parks (1986) present several lines of evidence to suggest that the Jackson Formation/Upper Claiborne Group is not laterally continuous throughout the Memphis area. In some areas, the Memphis Sand is directly overlain by the alluvial or fluvial deposits, permitting downward vertical leakage from shallow water-bearing zones into the regional aquifer.

Cross-sections presented in Kingsbury and Parks (1993) provide useful information about the regional hydrogeology in the Memphis area. Well Sh:J-104 is less than 2 miles due west of DDMT (see Figure 1-4). It shows an approximate 75-foot thickness of loess and fluvial deposits, underlain by a 40-foot thickness of the Cockfield Formation. The Cook Mountain Formation is approximately 75 feet thick at this site and is underlain by the Memphis Sand at elevation 46 feet mean sea level (msl). The Memphis Sand is several hundred feet thick in this well.

Well Sh:J-167, which is about 2 miles to the southwest of the southwest corner of the main installation (see Figure 1-4), is on the upthrown side of the fault described below. It is also north of Nonconnah Creek. It shows an approximate 100-foot thickness of loess and fluvial deposits, and no Cockfield Formation. However, approximately 70 feet of the confining Cook Mountain Formation are encountered before the top of the Memphis Sand at elevation 85 feet msl.

A northwest-southeast trending fault is also shown passing through the Allen Wellfield (Kingsbury and Parks, 1993). The downthrown side is to the northeast. Where the formations have been offset along a fault plane, the Cockfield aguifer and Memphis Sand aquifer could be in direct hydraulic connection, if the offset was greater than the thickness of the Cook Mountain Formation. In the vicinity of Allen Wellfield it appears that the Memphis Sand has been offset by about 30 to 40 feet, and the thickness of the Cook Mountain Formation is 70 to 75 feet.

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#### 1.2.2 DDMT Site-Specific Hydrogeology

DDMT is underlain by a layer of loess about 20 to 30 feet thick. The Fluvial Aquifer is the lower saturated portion of the underlying terrace deposits. This is the uppermost aquifer beneath DDMT. Perched groundwater also exists in the terrace deposits above small clay lenses at elevations above the Fluvial Aquifer. However, these perched water zones are temporal and are not considered part of the Fluvial Aquifer water table aquifer system. The Fluvial Aquifer is not used as a drinking water source within the City of Memphis.

The upper portion of the Jackson Formation/Upper Claiborne Group, which serves as the base of the Fluvial Aquifer, generally consists of a high-plasticity clay of variable thickness. The depth to the top of the confining unit at OU-4 ranges from about 70 feet below land surface (bls) to about 160 feet bls in the northwest portion of Dunn Field, where a depression in the top of the clay exists. The maximum thickness of this unit is 85 feet in the northwest portion of Dunn Field (STB-6, Drawing 1 of the OU-4 FSP). The clay thins in the northwest portion of the main facility (STB-8, Drawing 2 of the OU-4 FSP) to 5 feet of sandy, silty clay and 9 feet of interbedded silty clay and fine-grained sand.

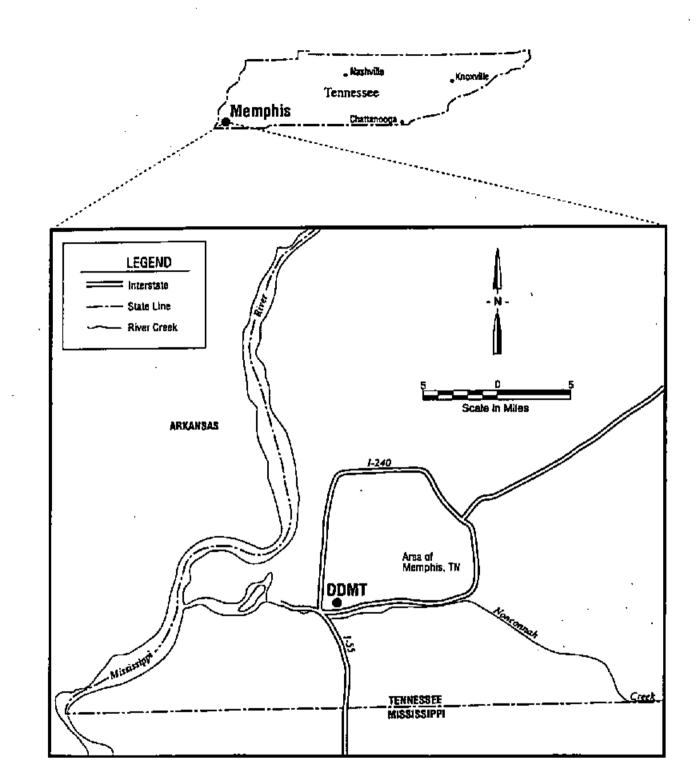
The base of the Cockfield Formation has been mapped at an approximate elevation of 122 feet msl in well Sh:J-104. Extrapolation to wells MW-36 and MW-37 shows that the base of the Cockfield should occur at elevation 145 feet msl for both wells. Review of the lithologic logs for these wells shows a change in formation at MW-36 (elevation 143 feet msl) and MW-37 (elevation 145 feet msl), from a dense silty clay to a sandy clay, possibly signifying the gradation from the Cockfield to the Cook Mountain Formations.

The altitude of the top of the Memphis Sand was also mapped by Kingsbury and Parks (1993). At well Sh: J-104, the top is at elevation 46 feet msl. Extrapolation to MW-36 and MW-37 shows approximate elevations of 82 feet and 93 feet, respectively, for the top of the Memphis Sand. Wells MW-36 and MW-37 encountered sands at elevations 128 and 125 feet msl, which is approximately 46 and 32 feet above the projected top of the Memphis Sand, respectively. Thus based on regional stratigraphic information, the lower sand units at DDMT could belong to the Cook Mountain Formation rather than the Memphis Sand. Because it is uncertain whether the confined sand aquifer underlying the Fluvial Aquifer is the Memphis Sand (as has been assumed in previous DDMT documents), the underlying sands will be referred to in this report as the Confined Sand Aquifer.

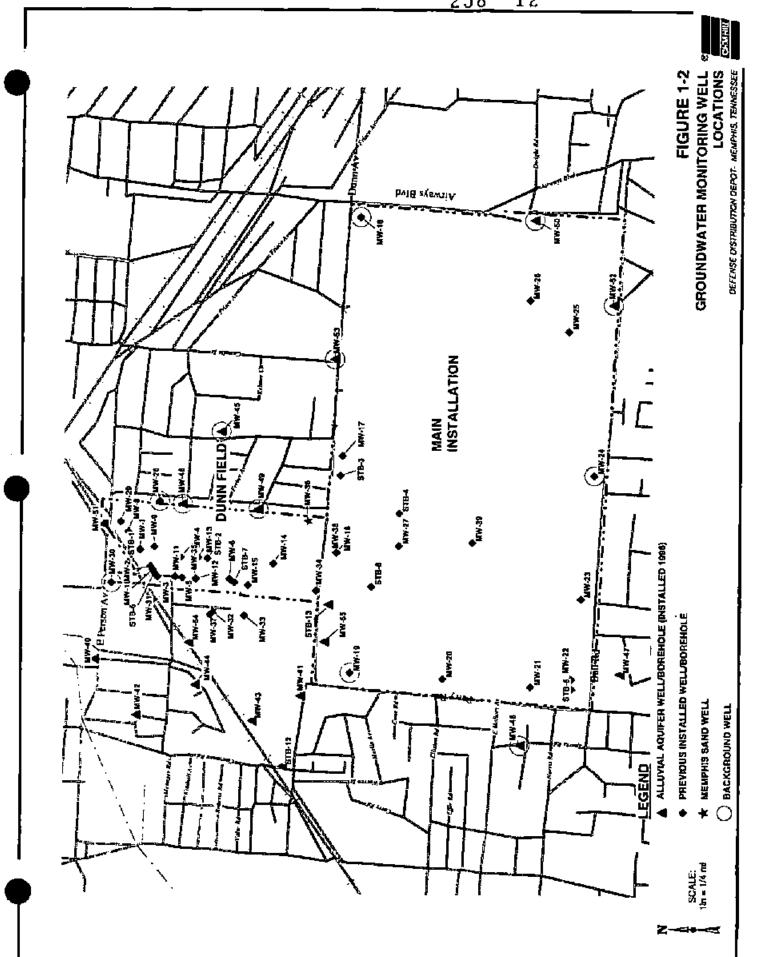
Groundwater flow in the Fluvial Aquifer is controlled primarily by the orientation of erosional paleosurface of the upper clay in the Jackson Formation/Upper Claiborne Group. As discussed in Section 3.1, groundwater flow generally follows the slope of this clay unit. A prominent feature of the Fluvial Aquifer flow system is a generally northwest-southeast trending depression in the clay surface (see Figure 1-5) located in the northwest portion of the main facility. The depressed clay surface may result from either an erosional surface in the clay surface or a sand lens within the clay that comprises the Cockfield Formation of the Upper Claiborne Group. The groundwater flow direction across the main installation and southernmost portion of Dunn Field is controlled by this feature.

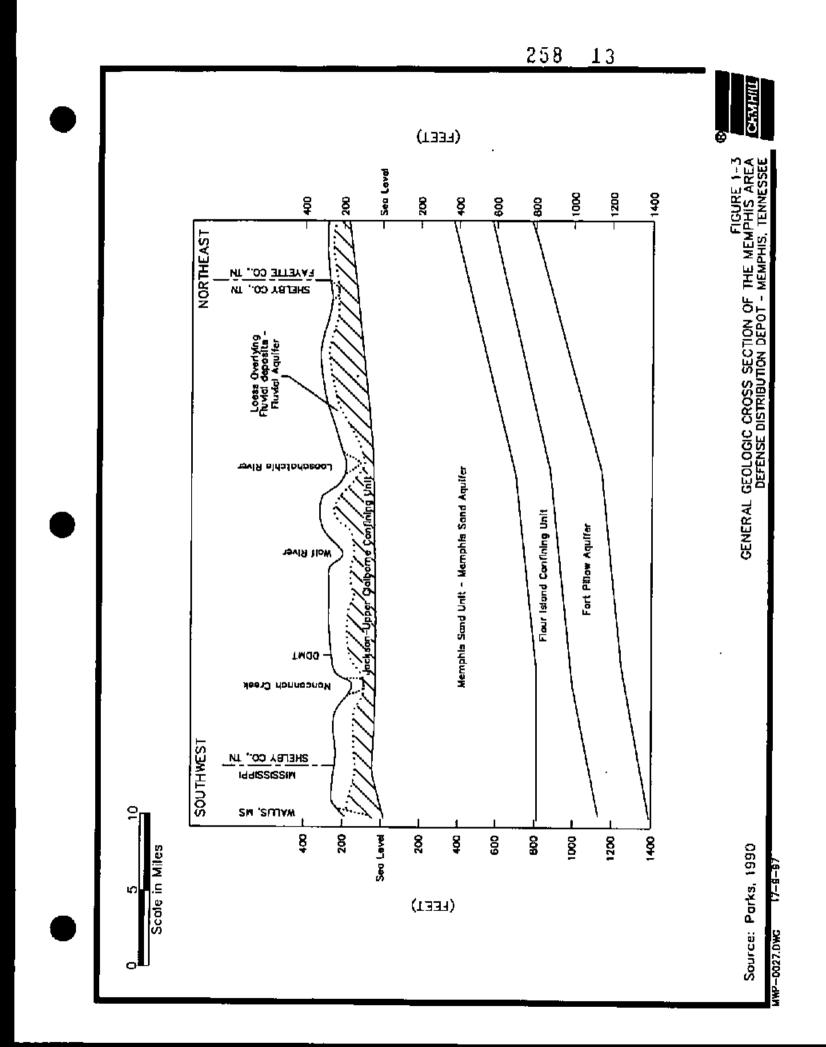
The general orientation of the faults mapped in the Memphis area (Kingsbury and Parks, 1993) is northwest-southeast. It is likely that the orientation of the depressed feature is faultcontrolled. It has not been determined if the depressed clay surface results from paleoerosion or absence of the clay.

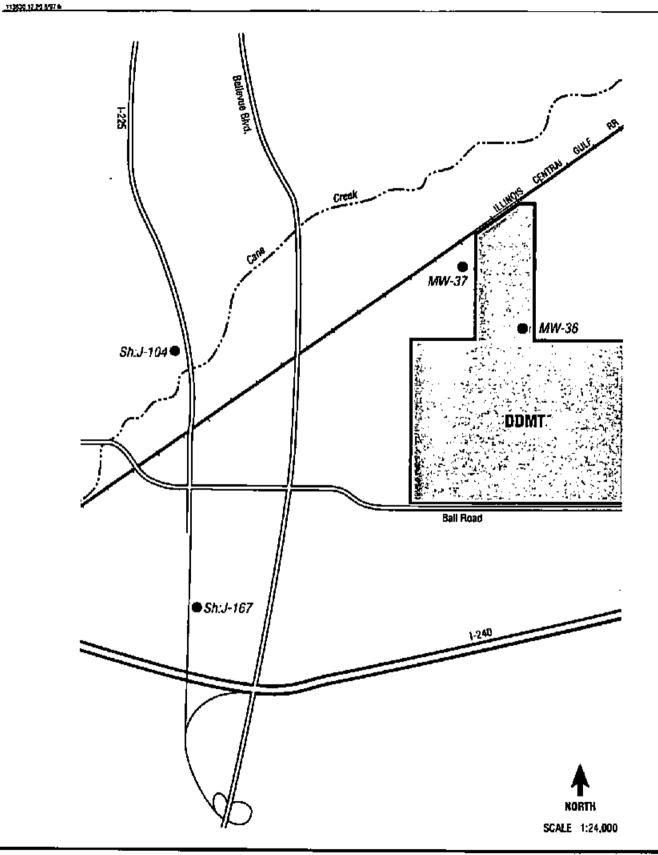


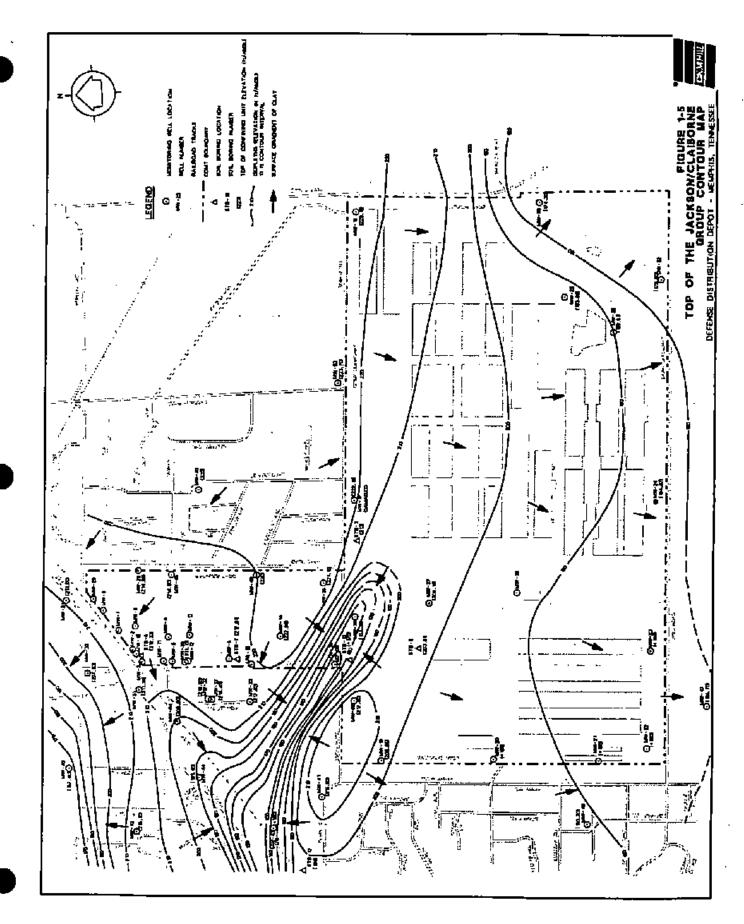


SOURCE: Engineering-Science, 1993.









All groundwater samples were collected during this quarterly groundwater sampling event in accordance with the OU4-FSP (CH2M HILL, 1995). Water level measurements were recorded prior to collection of the groundwater samples. Each of the wells was vented for 24 hours before the water level was recorded to allow the water level in the wells to stabilize. This procedure was followed for all wells except MW-12 and MW-35. Because VOC concentrations in the breathing zones at MW-12 and MW-35 were anticipated to be sufficient to require Level C personal protective equipment (PPE), these wells were vented just prior to sampling.

Before sampling, each of the monitoring wells was purged according to the following procedure:

- When the well was located, plastic was placed on the ground around the well head.
- The well head was opened and a VOC measurement from the headspace in the well was recorded using an Hnu instrument
- The volume of water in the well was estimated using the following equation:

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volume (gal) = 0.41 d<sup>2</sup> H
where d = well diameter in inches
H = height of water column in feet
Note: 2-inch diameter schedule 40 PVC casing = 0.17 gal/Linear foot
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- Wells were purged using either a 2-inch Grundfos submersible pump or a disposable Teflon bailer.
- A minimum of three well volumes were purged from each well prior to sampling. Additional well volumes were purged, if necessary for stabilization of temperature, pH, or conductivity in the effluent. Purging was terminated if the well was de-watered.
- Physical parameter measurements (pH, conductivity, turbidity, temperature, dissolved oxygen, salinity) were recorded initially and after purging of each well volume.

Table 2-1 summarizes the water quality analyses, purge volumes, and physical parameter measurements recorded for each well sampled.

## 2.1 Groundwater Sampling

Water samples were collected from the well at completion of the well purging according to the following procedures.

#### 2.1.1 Sampling with Teflon Bailer

If sampling equipment was not used to purge the well, the bailer was seasoned by discarding the first 3 bailer volumes into the purge drums. Filling of the sample containers was initiated with the fourth bailer volume.

To prevent nylon twine from contacting the groundwater, a leader of Teflon-coated stainless-steel wire was attached to the bailer. Nylon twine was then attached to this leader and the bailer lowered slowly into the water to minimize agitation of the water. The bailer was lowered just enough to submerge the top, and care was taken to ensure that the bailer did not contact the bottom of the well.

VOCs were collected first, followed by SVOCs and other parameters as appropriate for the specific well. VOCs were collected by filling the vial, with as little turbulence as possible. Each vial was filled until a miniscus bubble extended at the top of the vial to ensure that no air bubbles were present in the samples.

Each sample container was then wiped clean and labeled. The containers were placed into a plastic zip-lock baggie and packed into a sample cooler with ice. The chain of custody (COC) form was filled out and placed into the cooler.

The sample information was recorded in the purge log, sample log, and field notes (see Appendices C through E).

Upon completion of each well sampling, all disposable materials (PPE, twine, plastic, etc.) was discarded following appropriate disposal procedures. All drums containing purge and decontamination water were closed and labeled. The well was closed and locked and the sample area cleaned up.

#### 2.1.2 Sampling with Submersible Pump and Bailer

After purging was completed, the pump was positioned at the mid-screen level (screens are at 10-foot intervals and are based at the well bottom). The discharge from the Grundfos pump was slowed to a minimum discharge capacity.

Samples of discharge water were collected through the discharge hose, labeled, packed, and documented similar to the bailed samples, described above. The samples were then analyzed for metals and SVOCs. The VOA portion of the sample was collected by removing the pump from the well, allowing the water to stabilize for at least 5 minutes, and then collecting the VOA sample with a bailer as described in the preceding section.

Investigation derived waste (IDW), well site closure, and cleanup were completed as described below.

## 2.2 Investigation Derived Waste Management

All purge and decontamination water was initially contained at the well head in 55-gal drums. These drums were transported to a polyethylene storage tank located on Dunn Field, where the water was transferred into a permanent on-site tank.

After the sampling and decontamination for all of the wells was completed, a composite sample of the purge and development water was collected and analyzed for VOCs, SVOCs,

pesticides/PCBs, herbicides and metals for characterization in a manner determined by DDMT/CEHNC.

## 2.3 Equipment Calibration

Field instruments were calibrated daily before sampling activities began. Standards used to calibrate the field survey instruments were in accordance with those specified by the National Institute of Standards and Technology (NIST).

All field instruments (e.g., Hnu, combustible gas indicators [CGIs], pH meters, conductivity meters, etc.) were calibrated according to manufacturer's instructions. The Hnu's were zeroed to background levels at each new sampling location. Calibration records were kept in a field logbook by field personnel. These daily records include, at a minimum, the following:

- Instrument type (e.g., Hnu, CGI) and model number
- Instrument serial number
- Type of calibration procedure used
- Type of calibration gas or standard used, concentration (ppm), and lot number
- Instrument reading and span (if appropriate)
- Date and time of calibration

#### 2.4 Sample Packaging and Shipping

All samples were packaged and shipped in accordance with Appendix C of EPA Region IV Standard Operating Procedures.

All container lids were verified to be properly secured prior to shipment.

Samples were shipped in a sturdy cooler lined with a large plastic bag. A layer of vermiculite was placed at the bottom of this cooler inside the plastic bag liner. All samples were placed into individual zip-lock bags and sealed. These bottles were then placed in the cooler with sufficient space between bottles to place vermiculite or bubble wrap. Three to four zip-lock bags of ice were placed between and on top of the samples and the plastic bag liner sealed with tape.

The completed COC form was placed in a plastic baggie and taped to the inside lid of the cooler. The cooler lid was secured shut using strapping tape. Signed Custody Seals were placed on the front and back hinges of the cooler and stickers indicating "this end up" were placed on the ends of the cooler.

Each cooler was shipped via Federal Express for next morning delivery to the QAL-Montgomery Laboratory.

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			GROL DEFENSE DI	TJ NDWATE STRIBUTION	TABLE 2-1 TR SAMPI ON DEPOT-W	LE SUMM	ARY Ennessee					
			Purgad	No. of Well								
nalysis	GA/GC Samples	Volume (gai)	Volume (gal)	Volumes Purgad	Ha	Conductivity (ms-cm)	Redox	Temp (c)	2 () 2	Turbidity NTU	Sample Method	Comments
	Dup		3.5	2	6.DB	573	212	19,89	4.01	109.5	Pumped	Well dewatered during purge
alt: IOC; SOL Cl. Fe		2.44	7.34	ŝ						>200	) Boiled	No porameters instrument talkure
cis.		6'1	φ.D							۶ م	Bailed	No porometers instrument follure
iAl. Mejak. todine		0.1	3.0	3	5.88	202	202	17.89	<u>6</u> 5	002.4	Bailed	
IAL Metab. FS: Fe		1:92	9.6	5						22.5	Pumped	No parameters instrument failure
fAL Metals		2.25	6.78	3						~200	Pumped	No parameters instrument failure
TAL Metals; TOC: NH, Fe, CI		12.1	5.1 .1							~200	Baited	No parameters Instrument failure
als		1.5	4.5	. 6	6.22	167	240	19 07	\$	,	Primo/Anlied	Pump failed purge completed with
als .		1.68	8.0	4.7	6.01	360	99.8	18.13	5.44	28.0	Pumped	
als; todine		2.0	6.0	£	5.83	228	363	18.19	5.60	199.2	Balled	
als		2.0	6.0	63	6,0	215	163.5	20.35	6.57	154.0	humped	
rat Metals; Fe; NH3	Dup (SVOCs only)		¢.0	6	5.91	SQS	287	18.66	8.84	~200	Bailed	
TAL Metals: TOC: 02. CI; NH2	Dup (TAL Metats only)		5.0	4	5.70	224	342	18.84	12.80	>200	Balled	
		2.25	6.75	£	5.75	182	379	18.15	21.2	Ű,	Roiled	
TAL Metals		3.00	0.9	-	5.93	588	181	21.39	0.68	1.93	Pumped	
			1				Ĩ					
ols Matale		1.25	1.25		6.20 *	<u>85</u>	260	19.56 19.70	100	113.8	Balled	Well dewatered at 1.25 gallons
AL Weldis		77.7		7		002	2.10	6//BI	88.Y	24U	: Bolled	
AL MBIOS		5,04	0.5 2,5	4 4	8 7 7	G12	36.7	19,13	5.57	8.25 25	Pumped	
AL Metals		2.17	16.0	7.4	6.3	762	135.8	20.81	809	5.15	- solied Primpert	
AL Metals	MSMSD	1.6	3.0	1.9	5.76	217	245	19.6	2,09	8×	Balled	
AL Metals		1.25	3.75	3	6.49	214	274	19.15	12.33	194,5	lBailed	
ols 		2.10	6.3	5						×200	Boiled	No porameters instrument failure
ials		2.25	6.7	9	5.72	207	385	18.55	8.8	×200	Bailed	
IAL Metals		3.0	0.0	5	5.82	376	398	17.98	4.64	>200	<sup>1</sup> Balled	
AL Metals	Split	2.82	14,1	ŝ	5.93	446	148.5	18.92	3,86	39.2	Pumped	Split sample with State of Tennessee
IAL Metals		3.49	10.47	Ċ						123.4	Rumped	No parameters instrument failure
He Fe		1,44	4.3	0						\$20	Britect	No oorometers Instrument faiture
お		1.75	0,9	P.C	5.63	178	8	18.75	7.40	132.3	Pumped	
AL Metok	Dup	4.09	16.36	4	5.74	175	158.8	20.96	5.03	92.0	Fumbed	
AI, Metots	Dup: MSMSD	2.92	13	4.5	5.93	226	162.2	19.32	5.48	25.5	Pumped	
AL Metals, FS; Fe;	Dup (Metals only)	8.90	27.D	1.E	7.51	185	114,4	18.80	4.09	193	Bailed	Dup and MSMSD tar Metals only
At Metals	Sput	9.56	28.67	•	6.6	348	-31.6	17.13	4.75	176	Roller	Solit with State of Tennessee
fAL Metats; CI;		÷			 	) [	2	) }	<u>}</u>	2	20070	

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	Date Sampie No.	MW102 MW112 MW132 MW152 MW152 MW152 MW152 MW152 MW152 MW152 MW152 MW152 MW152 MW152 MW252	6/19 6/20 6/20 6/20 6/21	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
20EWW 81/0	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/20         MW132         VOCS           6/21         MW132         VOCS           6/19         MW132	7000ANN	6/18 6/19 6/21	88888
	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/19         MW232	2000 2000 2000 2000 2000 2000	6/18 6/19 6/19 6/19	3 8 8 8 8
6/19 MW362	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW122         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/23         MW132         VOCS           6/24         MW132         VOCS           6/19         MW232	POCANINI	6/18 6/19 6/21	8888
	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/21         MW132         VOCS           6/19         MW232		61/9	8888
6/2) MW362	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/20         MW132         VOCS           6/19         MW232	ZERWM	81/9	5 F F F F
6/2) MW352	6/21         MW022         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232         VOCS           6/19         MW232	MW342	6/18	88
2/10 MW342 2/20 MW352	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232	MW332		33
212 24 25 25 25 25 25 25 25 25 25 25 25 25 25	6/21         MW022         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232	MW3Z2 NO3/NO2 CI, NH4	6/21	
5/21 ANW322 5/10 ANW332 5/20 ANW3242 5/20 ANW352 5/20 ANW352	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/18         MW132         VOCS           6/19         MW132			
22EWM 12/3 26EWM 81/3 24EWM 01/3 25EWM (2/3	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/18         MW132         VOCS           6/18         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132	MW312	8,9	2
21EWM 05/6 22EWM 12/6 25EWM 91/6 29/6	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/19         MW132	MW302	6/1/	я ;
20/20/20/20/20/20/20/20/20/20/20/20/20/2	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW1132         VOCS           6/21         MW1132         VOCS           6/21         MW132         VOCS           6/18         MW132         VOCS           6/19         MW132 <t< td=""><td>CULATION</td><td>217</td><td>; ;;</td></t<>	CULATION	217	; ;;
20EVVM 7(1/6 21EVVM 02/6 22EVVM 12/6 22EVVM 81/6 29EVVM 21/6	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232	MW292	6/20	ŝ
292WM 02/3 20EWM 71/3 21EWM 02/3 22EWM 12/3 25EWM 81/3 25EWM 71/3	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232	MW282	6/17	58 2
282WM 71/8 292WM 02/8 20EWM 71/8 25EWM 12/8 25EWM 81/8 25EWM 81/8 25EWM 71/8	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/19         MW132         VOCS           6/19         MW132         VOCS           6/19         MW232	MW262	R/a	Ş
2052WM 05/0 2922WM 7(1/0 2922WM 7(1/0 202WM 7(1/0 212WM 7(1/0 212WM 12/0 252EWM 8(1/0 252EWM 7(1/0	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/19         MW132	ZCZMW	2 5	8
2052WM 02/9 2952WM 71/9 2952WM 71/9 2952WM 71/9 2952WM 71/9 2952WM 12/9 2552WM 81/9 2555WM 71/9	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/22         MW132         VOCS           6/23         MW132         VOCS           6/18         MW132	AUDED MOC.	01/7	35
262WM 01/6 262WM 05/6 282WM 71/6 20EWM 05/6 20EWM 15/6 27EWM 15/6 27EWM 15/6 27EWM 15/6 27EWM 15/6 27EWM 15/6 27EWM 15/6	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/23         MW132         VOCS           6/18         MW132	MW242 VOCs		24
24242 26/20 26/20 26/20 26/20 26/20 27/2 20/20/20 20/2	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW122         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132         VOCS           6/23         MW132         VOCS           6/24         MW132	MW232	61/9	23
6/18 6/18 24222 2620/M 2242 2620/M 252 2620/M 26/26 2620/M 26/26 2620/M 26/26 26/26 276/27 276/27 26/26 276/27 276	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/20         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/22         MW132	MW222	6/18 6/19	8
21/0 21/0 21/0 21/0 21/0 200 2000 2	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/22         MW132         VOCS           6/23         MW132		91/9 81/9 6/18	5
212WM 0212 6116 6120	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/22         MW132		6/19 6/19 6/19	3
212WM 05/2 6/10 01/2 6/10 01/2 26/10 01/2 26/10 01/2 26/20 01/2 26/20 01/2 26/20 01/2 26/20 01/2 26/20 01/2 20/2 20/2 20/2 20/2 20/2 20/2 20/2	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132	MM/200 MOLE: TAL	6/20 91/9 81/9	8
6/18 MWZ02 6/20 MWZ02 6/19 MW222 6/19 MW2232 6/19 MW2232 26/20 MW2232 26/20 MW2232 26/20 MW2232 26/20 MW232 26/20 MW232 26/20 MW232 26/20 MW232 26/20 MW232 26/20 MW232 27/20 MW232 26/20 MW232 27/20	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132	ZĄTWM	6/18 0/20 0/20 8/19 8/16	6
6/18         MW/192           6/20         MW/202           6/20         MW/202           6/10         MW/202           6/20         MW/202           6/20 <td>6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132</td> <td>-</td> <td>6/18 6/18 6/19 6/19 6/19</td> <td>ß</td>	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132	-	6/18 6/18 6/19 6/19 6/19	ß
6/18 6/18 6/19 6/19 6/19 6/19 6/19 6/19 6/19 6/10 2020 2020 2020 2020 2020 2020 2020 2	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS		6/18 6/20 6/20 6/19 6/18	1
6/18         MW/212           6/18         MW/202           6/10         6/10           6/10         8/14           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           6/10         8/12           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20           20520         8/20 <t< td=""><td>6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         SOL           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/20         MW132         VOCS</td><td>MW162</td><td>6/18 6/19 6/20 6/19 6/18</td><td></td></t<>	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         SOL           6/21         MW082         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/20         MW132         VOCS           6/20         MW132         VOCS	MW162	6/18 6/19 6/20 6/19 6/18	
6/19 MW162 6/18 MW192 6/18 MW202 6/19 MW202 6/19 MW202 6/19 MW202 26/19 MW202 26/19 MW202 26/10 MW202 6/12 MW202 26/10 MW202 6/20 MW	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/21         MW132         VOCS           6/18         MW132         VOCS	MW152	6/19 6/18 6/18 6/18 6/18	91
6/20 MW152 6/19 MW162 6/19 MW162 6/19 MW212 6/19 MW212 6/19 MW212 6/19 MW222 6/19 MW222 6/19 MW222 6/19 MW222 6/20 MW222	6/21         MW022         VOCs           6/21         MW032         SO4, NI           6/21         MW112         VOCs           6/21         MW122         VOCs	MW142 Fe. SO NO3/NO2.	05/0 01/9 01/9 05/10 01/9 01/9 01/9 01/9	15
o/18         MW142           6/19         MW152           6/19         MW152           6/19         MW152           6/19         MW152           6/19         MW202           6/10         MW202           6/10         MW202           6/10         MW202           6/10         MW202           6/10         MW202           6/10         MW202           6/19         MW202 </td <td>6/21         MW022         VOCS           6/21         MW032         VOCS           6/20         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS</td> <td></td> <td>0/18 6/19 6/18 6/18 6/19 6/19 6/19</td> <td>19 19</td>	6/21         MW022         VOCS           6/21         MW032         VOCS           6/20         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW132         VOCS		0/18 6/19 6/18 6/18 6/19 6/19 6/19	19 19
6/18 MW142 6/19 MW152 6/19 MW152 6/19 MW162 6/19 MW202 6/19 MW202 6/19 MW202 6/19 MW202 6/19 MW202 6/19 MW202 6/10 MW202	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS           6/21         MW112         VOCS	MW132	6/18 6/19 6/19 6/18 6/18 6/18 6/18	14 15
6/18 MW142 6/19 MW152 6/19 MW152 6/19 MW152 6/19 MW202 6/19 MW202 6/19 MW212 6/19 MW202 6/19 MW222 6/19 MW222 6/10 MW222	6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW082         VOCS           6/21         MW082         SO_v NICS           6/21         MW082         SO_v NICS           6/21         MW112         VOCS           6/21         MW112         VOCS		6/18 6/19 6/18 6/18 6/18 6/18 6/18	2 2 2 2
6/20 MW132 6/18 MW142 6/20 MW142 6/19 MW152 6/19 MW152 6/19 MW202 6/19 MW202 6/10 MW202	6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         SOL           6/21         MW042         SOL           6/21         MW042         VOCs           6/21         MW042         SOL	MW122 VOCs: TAL Metals	6/20 6/18 6/18 6/19 6/19 6/18	5 14 13 6
6/20 MW122 6/20 MW132 6/19 MW152 6/19 MW152 6/19 MW152 6/19 MW202 6/19 MW202	6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs           6/21         MW082         SOL		6/21 6/20 6/18 6/19 6/18 6/18 6/18	5 12 13 13 19
6/20 MW132 6/20 MW132 6/18 MW152 6/19 MW152 6/19 MW152 6/19 MW212 6/19 MW222 6/19 MW232 6/19 MW232 6/10 MW232	6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         SOL           6/21         MW042         SOL	MINI 12	6/20 6/20 6/18 6/18 6/18 6/18 6/18	2 2 2 2 2
6/21         MW122           6/20         MW132           6/20         MW132           6/10         MW132           6/10         MW132           6/10         MW132           6/10         MW132           6/10         MW162           6/10         MW162           6/10         MW162           6/10         MW202           6/10         MW202 </td <td>6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs           6/20         MW082         SOL</td> <td>MW102</td> <td>6/21 6/21 6/20 6/18 6/18 6/18 6/18 6/18</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td>	6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs           6/20         MW082         SOL	MW102	6/21 6/21 6/20 6/18 6/18 6/18 6/18 6/18	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6/21 MW142 6/21 MW132 6/18 MW142 6/19 MW142 6/19 MW142 6/19 MW162 6/19 MW162 6/19 MW202 6/19 MW202	6/21         MW022         VOCs           6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW042         VOCs           6/21         MW042         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW052         VOCs           6/21         MW082         VOCs           6/21         MW082         VOCs		6/21 6/21 6/21 6/18 6/19 6/18 6/18 6/18	9 = 2 9 9 2 9 9
6/21         MW102           6/21         MW112           6/20         MW132           6/20         MW132           6/20         MW132           6/20         MW132           6/19         MW152           6/19         MW152           6/19         MW152           6/19         MW202           6/19         MW222           6/19         MW222           6/19         MW232           6/10         MW233           6/10         MW233           6/10         MW233           6/10         MW233           6/10         MW333           6/10         MW333           6/10         MW333           6/10         MW333           6/10         MW3342     <	6/21         MW022         VOCs           6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW082         VOCs		6/21 6/21 6/21 6/18 6/18 6/18 6/18 6/18	9 = 2 2 2 2 2 2
6/20         MW092           6/21         MW112           6/21         MW112           6/21         MW122           6/21         MW122           6/20         MW132           6/20         MW132           6/19         MW152           6/19         MW232           6/19         MW302           6/19         MW302           6/19         MW302           6/19         MW302           6/19         MW302           6/19         MW302           6/19         MW312 </td <td>6/21         MW022         VOCS           6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW072         VOCS</td> <td>MW092</td> <td>6/20 6/21 6/21 6/18 6/18 6/18 6/18 6/18 6/18 6/18 6/1</td> <td>o □ □ □ □ □ 0 o</td>	6/21         MW022         VOCS           6/21         MW022         VOCS           6/21         MW032         VOCS           6/21         MW042         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW062         VOCS           6/21         MW072         VOCS	MW092	6/20 6/21 6/21 6/18 6/18 6/18 6/18 6/18 6/18 6/18 6/1	o □ □ □ □ □ 0 o
6/20         MW092           6/21         MW102           6/21         MW112           6/21         MW122           6/21         MW122           6/21         MW122           6/20         MW122           6/21         MW132           6/20         MW132           6/19         MW132           6/19         MW132           6/19         MW132           6/19         MW132           6/19         MW132           6/19         MW232           6/19         MW323           6/19         MW323           6/19         MW332           6/19         MW333           6/19         MW332 </td <td>6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs</td> <td>MW042 304, NU3/NU3, NH4, FB. MW092 VOC5: TAL Metals</td> <td>6/20 6/20 6/21 6/18 6/18 6/18 6/18 6/18 6/18 6/18 6/1</td> <td>• • • = = = = = = = • •</td>	6/21         MW022         VOCs           6/21         MW032         VOCs           6/21         MW032         VOCs           6/21         MW042         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs           6/21         MW062         VOCs	MW042 304, NU3/NU3, NH4, FB. MW092 VOC5: TAL Metals	6/20 6/20 6/21 6/18 6/18 6/18 6/18 6/18 6/18 6/18 6/1	• • • = = = = = = = • •
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0         600         MMU2         VCL SUCCE TAL MINETS         Distribution         101         MU10         70	Well No.	Date	Sample No.	Analysis	QA/QC Samples		Purged Volume (gal)	No. of Wati Volumes Purged	H	conductivily (ma-cm)	Redox	Iemp (c)	DD DD	Turbidily NTU	Sample Method	Comments
0         1/1         Mmore More More More More More More More M	ę	6/20	26EMW	<u>VOC&amp; SVOCE</u> TAL Metals	l Dup (metals anly)	1.98	2.5	6,1						11F	6	Not enough water for parameters. Pump and baller nat able to reach
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0         0	42	6/21	MW422	vocs		-	2.25	~	5.82	230	233	18.83	3.57	80.2	Boiled	Well dawatered at 2.25 gallons.
m         from         Mmark         Order         Mmark         Order         Mmark         Order         Mmark         Order         Mmark         Order         Mmark         Order         Mmark         Mmar	43															
m         m	44	6/20	MW442	VOCs: SVOCs: TAL Metals	Dup: MSMSD (VOCs only)	3.8	20.0	5.3	5.94	281	140.2	18.16	7.31	¢.20	Pedmo	
m         m	\$ {}	9 <sup>2</sup> /9	MW452	VOCs; SVOCs; TAL Metats	Dup (VOCs only)	2.46	16.0	ó.5	6.08	337	141.5	19,93	2.76	103.5	Rumped	
0         0/12         0/000         0/00	<b>å</b> i	11/0	MW462	VOCs: SVOCs: TAL Metals	Split	3,4	14.0	4,1	5.93	267		18.37	6.7	60.7	Balled	Split with State of Tennessee
m         bit         mmark         NOCK         NUMBER         236         NU         NUMBER         N		22/0	MW472	VOCS: SVOCs: TAL Metals		1			5.89	357		19.40	5.5	9.55	<u></u> Řumpecí	
With the interval of th	9 9 9	91/a	MW482	VOCS; SVOCS; TAL Metals		2.25	D' 2		6.02	250	129.2	19.38	7.34	26.2	Éumped	
0         100         MM312         VCXE SNOE (NL Metolis)         73         873         735         735         735         735         735         737         100         8/mped           20         101         MM312         VCXE SNOE (NL Metolis)         54         555         2112         1843         567         213         1843         567         213         1843         567         730         137         165         730         137 <td>5</td> <td>/ 1/0</td> <td>VIVI442</td> <td>VUCS; SVUCS; IAL Metals</td> <td></td> <td>2.13</td> <td>0.8 0.</td> <td>B.C</td> <td>5.70</td> <td>8</td> <td>161</td> <td>9.91</td> <td>5.88</td> <td>25.7</td> <td>Řumped</td> <td></td>	5	/ 1/0	VIVI442	VUCS; SVUCS; IAL Metals		2.13	0.8 0.	B.C	5.70	8	161	9.91	5.88	25.7	Řumped	
20         6/10         MM322         C/C-strong in the month         3-3         16.35         3.5         6.62         273         11.2         13.43         5.62         21.3         6/mperine           21         6/10         MM322         V/CCL SYNOCE 1AI Mentors         3.43         13.75         3.65         6.67         3.63         5.63         5.63         7.60         3.70         7.70	3	5 VV	ZINCANIN	VOUS SVOUS IAL METOR		7.4	3.6	4.0	5.58	735	206	19.24	1,92	0.11	Rumped	
20         019         Mmdd Miss         200         130         135         5.65         5.64         965         147         18.59         3102         2.50         Rumed Rumed           26         6/10         Mmdd Miss         VOCs NOCs Number         1	5 9	0/5/0	ZICAM			5.3	18.55	3.5	5.62	278	211.2	18.43	5.62	21.3	Rumped	
A         V/I         Mmstrage         V/Cds. SUCCS. Tell Mentone         1/6         Ammode	5	a uvy	LAUCSO			5.5	13,79	3.5	5.63	B95	149	18.59	3.02	2.50	Peduiny	
or         oright (1)         mmark (1)         mmar	3 3	<u>}</u>	MW332	VUCS: SVUCS: 1AL Metals		-8	9.9 9	3.6	5.95	454	96.6	20.32	1.37	16.5	Rumped	
So     v/ls     Mwxs2     Muxs2	<u>7</u> .	NZ/0	ZÞGMW	VOCs: SVOCs: TAL Metals	,	<b>d</b> .14	12.4	~	_					186.0	Pumped	No porameters instrument failure
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#### 3.1 Groundwater Elevations and Gradients

The groundwater elevation distributions for the June 1997 quarterly groundwater sampling event are depicted in Figure 3-1 and listed in Table 3-1. A local groundwater divide is apparent along the line formed by wells MW-44, MW-54, MW-12, and MW-35. North of this line, groundwater appears to flow west and northwest toward MW-40. South of this line groundwater appears to flow west-southwest toward a groundwater low centered in the vicinity of MW-34. The magnitude of groundwater gradients in this region of the facility range between approximately 0.0017 foot/foot and 0.023 foot/foot. The steepest gradient appears to be located southwest of MW-14 and MW-33. A maximum groundwater seepage velocity in this vicinity was estimated at 1.7 feet/day assuming the following parameters:

- hydraulic gradient = 0.023 foot/foot
- hydraulic conductivity = 22.11 feet/day (based on the average hydraulic conductivity for the Fluvial Aquifer reported in the Groundwater Characterization Data Report [GCDR] [CH2M HILL, 1997])
- effective porosity = 0.3

Groundwater flow patterns south of Dunn Field underlying the DDMT main installation exhibit trends in groundwater flow from the margins of the study area toward an elongated central groundwater low oriented along a northwest-southeast axis. Groundwater in the northeast portion of this region apparently flows southwest toward this low. However, groundwater in the southwest portion of the study area apparently flows northeast toward the low. A localized groundwater high is apparent in the vicinity of MW-55. The magnitude of groundwater gradients underlying the main installation range between approximately 0.00085 foot/foot and 0.029 foot/foot. The steepest gradients appear to be located in the northwest portion of the facility in the vicinity of MW-55. A maximum groundwater velocity in this vicinity was estimated at 2.14 feet/day assuming the following parameters:

- hydraulic gradient = 0.029 foot/foot
- hydraulic conductivity = 22.11 feet/day (based on the average hydraulic conductivity for the Fluvial Aquifer reported in the GCDR)
- effective porosity = 0.3

As noted in the GCDR, in the northern portion of the main installation and the area surrounding Dunn Field, groundwater hydraulic gradients generally conform to the gradient of the Jackson Formation/Upper Claiborne Group confining unit clay surface. Groundwater flow in these regions appears to be governed by the configuration of the clay surface. A comparison of the potentiometric surface (Figure 3-1) and confining clay unit (Figure 1-5) surface gradients in the southwest portion of the main installation indicates that groundwater is flowing against the surface gradient of the clay. It is likely that groundwater flow gradients are being controlled by drainage into the northwest-southeast trending feature rather than by gravity flow along the surface of the clay.

Comparison of groundwater elevation measurements recorded during the June 1997 sampling event with groundwater elevations recorded during the previous groundwater sampling event in February 1996 indicates the following:

- Groundwater underlying Dunn Field was on average 2.18 feet higher in June 1997 than in February 1996.
- The maximum difference in groundwater elevation was observed at MW-37, where the groundwater elevation recorded was 5.19 feet higher in June 1997 compared to the February 1996 data.
- Groundwater elevations underlying the main installation were on average 0.68 foot lower in June 1997 than in February 1996.
- The maximum difference in groundwater elevation in this area was observed at MW-20, where the groundwater elevation recorded was 1.16 feet lower in June 1997 compared to the February 1996 data.

The temporal trends in the groundwater elevation distribution have not yet been interpreted due to the amount of time which has passed between the two most recent sampling events (February 1996 and June 1997). A more detailed assessment of the temporal groundwater elevation trends will be presented in future quarterly groundwater sampling reports.

#### 3.2 Groundwater Chemical Results

Numerous VOCs and metals were reported in the groundwater samples collected from the Fluvial Aquifer. Table 3-2 summarizes the analytical results for the groundwater samples collected during the June 1997 quarterly sampling event including the concentrations of the particular chemical constituent, and a comparison of the concentration with DDMT remediation target criteria for that constituent. Table 3-3 summarizes the overall sample counts and range of concentrations for each of the detected compounds for all of the samples collected during this sampling event. A data quality assessment was performed on the laboratory analytical results of the June 1997 samples. This data quality assessment is presented in Appendix A.

Five man-made VOCs were identified in the GCDR as the primary chemical constituents of concern at the DDMT facility. The spatial distributions of these constituents from the June 1997 quarterly sampling event at the DDMT facility are depicted on Figures 3-2 through 3-11. Well-specific groundwater analytical data are included in Appendix B.

Comparison of duplicate sample results indicates the following. For organic compounds, the analytical results for the duplicate samples were within the quality control guidelines of 20 percent. However, greater variability was observed in the analytical results for the metal duplicate samples. This variability is indicative of variability in the sample matrix. As discussed in Section 3.2.3, sample turbidity appears to have an influence on the sample concentration. Therefore, variation in the turbidity of duplicate metals samples could account for the variability observed between the duplicate analytical results.

#### 3.2.1 Spatial Distribution of Organic Constituents

Figures 3-2 through 3-6 show the distributions and concentrations of VOCs at DDMT. The VOCs depicted in these figures were identified during the GCDR as the primary constituents of concern. In general, the specific chemical constituents and spatial distributions reported during this quarterly sampling event were consistent with those previously reported at DDMT. The concentration of VOCs varied across the site from a low of 1 microgram per liter (ug/L) to a high of 5,900 ug/L (TCE at MW-12). Similar to concentrations noted in the GCDR, the highest concentrations of VOCs were detected within the northwest corner of Dunn Field.

**1,1-Dichloroethene (1,1-DCE)**. **1,1-DCE** was reported in 8 wells during the June 1997 quarterly sampling event, two of which were off-site wells (see Figure 3-2). **1,1-DCE** was not reported in any wells on the main installation and was found on-site only in the northwest corner of Dunn Field (see Figure 3-2). **1,1-DCE** was not reported in two off-site wells, MW-40 and MW-47, where it had been detected in samples collected during February 1996. The concentrations of **1,1-DCE** in the other monitoring wells was generally similar to those reported in the GCDR for each respective well. The minor differences in concentration might be attributed to normal sampling variations or seasonal variations. Trend analysis, including future quarterly sampling data, will be necessary to evaluate the significance of these trends.

Tetrachloroethylene (PCE). The occurrence of PCE was relatively widespread during the June 1997 quarterly sampling event, similar to what was reported in the GCDR. This compound was reported in 24 wells located both on-site and off-site (see Figure 3-3). Concentrations of PCE range from none detected to 110 ug/L in MW-1. The overall distribution of PCE is consistent with the distribution described in the GCDR and all of the wells exceed the background and Proposed Remediation Goal (PRG) concentrations for this compound. Again, as noted for 1,1-DCE, the variations in concentration observed between the data collected in June 1997 and February 1996 could be attributed to normal sampling variability or seasonal variations. Additional quarterly groundwater data are required to assess these trends.

PCE was reported at four areas on DDMT, as shown in Figure 3-3. These areas were previously noted in the GCDR and have remained generally consistent. The largest of the four plumes is centered on the western and northwestern boundary of Dunn Field. Two smaller plumes are located in the southwest and southeast corners of the main facility (see Figure 3-3). The plume in the southwest corner of the facility exhibits an apparent reduction in size from the February 1996 to the June 1997 sampling events. PCE was not reported in the June 1997 data for samples collected at wells MW-22 and MW-23. Samples from these wells contained low levels of PCE (2 ug/L and 1 ug/L, respectively) in the February 1996 data. Additional groundwater analyses are necessary to assess the persistence of this trend. Finally, an isolated occurrence of PCE is reported in MW-39 (6 ug/L). There are insufficient data to correlate the PCE reported in this well with concentrations from other wells on the facility.

**Trichloroethylene (TCE)**. TCE was reported in four separate locations at DDMT and detected in 24 wells during the June 1997 quarterly sampling event. The distribution of TCE is generally consistent with the distribution described in the GCDR; however, TCE was reported in only one off-site location (MW-51) during this quarterly sampling event (see

Figure 3-4). The concentrations of TCE ranged from none detected to 5,900 ug/L. All of the reported concentrations of TCE, where detected, exceeded either background concentrations or both background and PRG concentrations.

The largest TCE plume encompasses the northwest boundaries of Dunn Field and extends off-site to the west and northwest of Dunn Field. The plume configuration is, generally, similar to that described in the GCDR. A slight southerly shift in the center of mass of the plume might be suggested by the June 1997 data in comparison to the February 1996 data. Concentrations of TCE at wells MW-31 and MW-35 exhibited a drop from 1,100 and 1,900 ug/L, respectively (as reported in the February 1996 data) to 78 and 160 ug/L, respectively (as reported in the February 1996 data). On the other hand, concentrations of TCE at MW-12 showed an increase from 650 to 5,900 ug/L between the February 1996 and June 1997 sampling events. In addition, a low level of TCE (4 ug/L) was reported in the sample from well MW-44. TCE was not detected in the sample from this well collected in February 1996.

Little change was observed between the February 1996 and June 1997 data for the other TCE plumes identified on-site, except the following: TCE was not detected in the samples collected from wells MW-47 and MW-53. Low levels of TCE had previously been reported in the GCDR for these two wells (2 ug/L and 1 ug/L, respectively). Additional sampling events are necessary to more fully assess the concentration trends in these wells, as well as the trends observed in the other monitoring wells.

1,1,2,2,-Tetrachloroethane (1,1,2,2-PCA). This VOC was detected in samples collected from 9 wells during the June 1997 sampling event (see Figure 3-5). These wells were located both on- and off-site. The plume described by these wells occurs on the western side of Dunn Field and extends off-site to the west. Again, the distribution of this plume is similar to that described in the GCDR. The values of 1,1,2,2-PCA ranged between none detected to 540 ug/L in MW-12. All detected values exceeded both background and PRG concentrations.

The 1,1,2,2-PCA concentration distributions in the June 1997 and February 1996 data are consistent, with the notable exception of the data from MW-31. In the February 1996 data, this VOC was detected at 420 ug/L in MW-31. However, 1,1,2,2-PCA was not detected in the sample collected from MW-31 during the June 1997 sampling event. In addition, a decline in 1,1,2,2-PCA concentration was observed at MW-35, where it declined from 200 to 11 ug/L. An increase in 1,1,2,2-PCA was also observed at MW-12, where the concentration increased from 120 to 540 ug/L. Future groundwater sampling events will be useful in assessing the persistence of the concentration trends observed between the February 1996 and June 1997 sampling events.

**Carbon Tetrachloride (C4).** C4 has been observed in three areas at DDMT. Two of the areas are located along the northern and western boundaries of Dunn Field. The third area is an isolated region in the vicinity of MW-26 on the main installation (see Figure 3-6). Each of these plumes was described in the GCDR. Concentrations of C4 ranged from none detected to 45 ug/L at MW-6. As with the other VOCs, the general distribution of C4 was consistent with distributions reported in the GCDR. The following differences in distribution were noted in the June 1997 data compared to the February 1996 data:

 Low levels of C4 were detected in wells MW-8, MW-14, and MW-44 at 8 ug/L, 1, ug/L and 6 ug/L, respectively. Samples analyzed from these wells during the February 1996 sampling event did not contain detectable concentrations of C4.  C4 was not detected in wells MW-11 and MW-34, where previously the compound had been reported in low levels (1 ug/L for both wells).

The C4 concentrations in samples from the remaining wells were generally similar to previously reported concentrations.

#### 3.2.2 Spatial Distribution of Inorganic Compounds

Groundwater samples were collected and analyzed for total (unfiltered) metals. Figures 3-7 through 3-11 show the concentrations and distributions of five indicator metals (lead, nickel, beryllium, copper, and chromium). These figures also show that the concentrations of metals are variable within the Fluvial Aquifer, with the highest values tending to be centered in the northwest quadrant of the main installation. This is the same general trend as observed in the GCDR. Tables 3-2 and 3-3 summarize the concentrations of metals detected in groundwater samples from the Fluvial Aquifer.

**Beryllium**. Beryllium was found in samples from 13 wells located generally in Dunn Field and the western half of the main installation during the June 1997 sampling event (see Figure 3-7). Concentrations in these 13 wells ranged between 0.54 and 14.9 ug/L. All but one of these samples exceeded the background and PRG concentrations for this constituent.

In contrast to the findings reported in the GCDR, beryllium was not detected in any off-site wells during the June 1997 sampling event. As noted above with regard to the VOC compounds, the temporal trends in this analyte are difficult to interpret considering the span of time between the February 1996 and the June 1997 sampling events. The potential effect of seasonal variations should become more apparent with the analysis of additional quarterly samples.

Chromium. Chromium was detected in samples from 28 wells located across the DDMT facility and off-site (see Figure 3-8). Concentrations in these wells ranged between 8.2 ug/L and 219 ug/L. The highest concentrations of chromium were observed in Dunn Field wells, with the maximum concentration occurring in MW-4 (219 ug/L). All of these concentrations exceeded background values and PRGs (Table 3-5). In general, the concentrations reported for samples from wells on the main installation were above background levels but below the PRG of 18 ug/L except for MW-24, which had a value of 67.8 ug/L. Only two off-site wells, located west of Dunn Field, contained detectable concentrations of chromium (MW-32 and MW-54). Of these, only the sample from MW-32 (18.5) exceeded the PRG.

**Copper.** Copper was detected in 19 wells across Dunn Field, the main installation area, and off-site to the west and east of Dunn Field (see Figure 3-9). The highest values of copper were detected along the northwest boundary of Dunn Field at wells MW-4 (135 ug/L) and MW-29 (99 ug/L). All of the concentrations detected in these 19 wells exceeded background concentrations for copper; however, copper was detected at the PRG for this analyte in only one sample (collected from MW-4). In general, the copper concentrations reported from on-site wells were greater than those reported from off-site wells.

Lead. Lead was detected throughout Dunn Field and the main installation area, in a total of 42 wells (see Figure 3-10). Concentrations in samples from these wells ranged from 1 ug/L to 124 ug/L (MW-4). While the concentrations in all of the samples exceeded the background concentration, only samples from nine wells exceeded the PRG (15 ug/L) for this analyte. In general, the highest concentrations were reported for samples from Dunn

Field wells located, again, along the northwest boundary of the site. Two wells were also located on the main installation (MW-24 and MW-39). No samples from off-site wells had concentrations that exceeded the PRG during the June 1997 sampling event.

Nickel. Nickel was detected in samples from 25 wells located in Dunn Field, the main installation area, and off-site to the west of Dunn Field (see Figure 3-11). Concentrations of nickel in these samples ranged between 4.9 ug/L and 96 ug/L. Ten of these samples had concentrations which exceeded the PRG (13.4 ug/L) for this analyte.

#### 3.2.3 The Impact of Turbidity on Metals Concentrations

Table 3-4 and Figure 3-12 present the effect of groundwater sample turbidity on total indicator metal concentrations. The February 1996 data presented in the GCDR showed an ambiguous relationship between turbidity and the concentration of metals in the individual samples. During the June 1997 sampling event, turbidity measurements were made with a more accurate bench scale turbidity meter, rather than by field measurements.

The June 1997 data indicate an overall positive relationship between sample turbidity and concentration (see Figure 3-12). The linear correlation between turbidity and concentrations is evaluated in Table 3-4 by calculating a linear correlation coefficient between individual total metal concentrations and turbidity. A correlation coefficient of zero indicates that the magnitude of the metal concentrations is not linearly dependent on the magnitude of turbidity. Values of positive or negative one indicate a perfect direct and inverse linear relationship between concentration and turbidity, respectively. Intermediate values indicate a less than perfect correlation.

Table 3-4 indicates that the metal concentration to turbidity correlation coefficients are moderate, with an average correlation coefficient of 0.32. The correlation coefficients for six indicator analytes (arsenic, beryllium, chromium, copper, lead, and nickel) ranged between 0.42 for nickel to 0.59 for copper. These values suggest that sample turbidity does increase the value of the metals concentrations.

A data quality assessment was performed on the laboratory analytical results of the June 1997 samples. This data quality assessment is presented in Appendix A.

#### 3.2.4 Well Specific Constituent Trends

Concentrations of the detected VOCs and metals from the June 1997 sampling event were evaluated as a group to assess how their concentrations and distributions varied with time and location. Data reported for 1989 and 1990 were taken from the *Remedial Investigation at DDMT* (Law, 1990), data for 1993 were taken from the *Groundwater Monitoring Results at DDMT* (ESE, 1994), and the 1996 water quality data were taken from the GCDR. These data were compared to the June 1997 groundwater quality results to perform a trend analysis of select organic and inorganic constituents.

#### 3.2.4.1 Temporal Trends in VOCs

The concentrations of TCE, PCE, 1,1,2,2-PCA and carbon tetrachloride for 18 wells were plotted over time to determine possible trends that might signify natural attenuation or continued leaching of organic compounds into the Fluvial Aquifer. Only those wells for which data were available for at least four consecutive sampling events (1989, 1990, 1993,

and 1996) were plotted. Figures 3-13 through 3-16 show the temporal concentration trends for the aforementioned organic constituents.

PCE. The PCE trends depicted in Figure 3-13 indicate that from 1996 to 1997, PCE increased in seven wells and decreased in four wells. Wells with an increasing trend include MW-03, MW-04, MW-10, MW-12, MW-15, MW-21, and MW-31. Wells showing a general decreasing trend include MW-05, MW-07, MW-08, and MW-11. Six of the seven wells with increasing trends are located within the Dunn Field plume, within the northwestern portion of the main installation. The seventh well, MW-21 is located southeast of the main installation. The four wells with a decreasing trend are also located within the Dunn Field plume. The greatest change in PCE was an increase of 60 ug/L in MW-12. The most significant decrease over this time period was 25 ug/L measured in MW-05.

TCE. TCE trends depicted in Figure 3-14 indicate that from 1996 to 1997, TCE increased in 10 wells and decreased in 5 wells. Wells showing an increasing trend include MW-05, MW-07, MW-08, MW-09, MW-10, MW-11, MW-21, MW-26, MW-31, and MW-32. Wells showing a general decreasing trend include MW-12, MW-15, MW-26, MW-31, and MW-35. Eight of the 11 wells with increasing trends are located within the Dunn Field plume, within the northwestern portion of the main installation; two wells (MW-21 and MW-26) are located southeast and southwest of the main installation, respectively. The five wells showing a decreasing trend are also located within the Dunn Field plume. The greatest change in TCE was an increase of 5,250 ug/L, which occurred in MW-12. During this time period, the most significant decrease in TCE was 1,900 ug/L in MW-35.

1,1,2,2-PCA. The 1,1,2,2-PCA trends depicted in Figure 3-15 indicate that from 1996 to 1997, 1,1,2,2-PCA increased in three wells and decreased in three wells. Wells showing an increasing trend include MW-10, MW-12, and MW-32. Wells showing a general decreasing trend include MW-06, MW-31, and MW-35. All six wells are located within the Dunn Field plume, within the northwestern portion of the main installation. The greatest change in 1,1,2,2-PCE was an increase of 400 ug/L, which occurred in MW-12. A decrease of 400 ug/L in MW-31 was the most significant reduction of 1,1,2,2-PCE over this time period.

Carbon Tetrachloride. Carbon tetrachloride trends depicted in Figure 3-16 indicate that from 1996 to 1997, carbon tetrachloride increased in five wells and decreased in two wells. Wells showing an increasing trend include MW-06, MW-09, MW-10, MW-15, and MW-32. Wells showing a general decreasing trend include MW-11 and MW-31. All seven wells are located within the Dunn Field plume, in the northwestern portion of the main installation. The greatest change in carbon tetrachloride was an increase of 25 ug/L, which occurred in MW-12. A decrease of 4 ug/L was the most significant reduction of carbon tetrachloride during this time period.

#### 3.2.4.2 Temporal Trends in Metais

The concentrations of chromium, copper, lead, and arsenic were plotted over time to evaluate well-specific trends in 20 wells completed in the Fluvial Aquifer. Only those wells for which data were available for at least four consecutive sampling events (1990, 1993, 1996 and 1997) were plotted. Figure 3-17 shows the temporal concentration trends for the aforementioned inorganic constituents.

In general, of the four metals plotted, chromium typically had the highest values, followed by copper, lead, and arsenic. Metal values generally decreased between 1990 and 1996, and

moderately increased between the 1996 and 1997 sampling events. As a group, the metals concentrations were generally higher in the 1993 sampling event than in either the 1990, 1996, or 1997 sampling events. The metals analyses for all sampling events were performed on unfiltered samples. Therefore, it is likely that some of the differences in values may be attributed to turbidity in the samples.

Chromium. The plots of concentration versus time indicate that chromium was detected at the greatest concentrations relative to the other metals and that an overall decline in concentrations occurred between the 1990 and 1996 sampling events. A comparison of the three sampling events showed that the general trend was that the highest chromium values occurred in 1993, intermediate values occurred in 1990, and the lowest values occurred in 1996. Between the 1996 and 1997 sampling events, chromium increased in 10 wells, decreased in 6 wells, and showed no change in 4 wells. The greatest increase in chromium concentration (219 ug/L) occurred in MW-04, while the greatest reduction (30 ug/L) occurred in MW-06.

**Copper**. In general, lower values of copper were detected compared to chromium. The 1990 and 1993 values were either similar, or the 1993 values were slightly higher than the 1990 values. For the period between 1993 and 1996, an overall decline in the copper concentrations was observed. During the most recent sampling (1997), copper levels increased in 9 wells, declined in 8 wells, and remained unchanged in 6 wells, compared to the 1996 sampling event. During this period, the greatest change (55 ug/L) in copper was observed in MW-08, while the copper levels in MW-12 declined by more than 100 ug/L.

Lead. Over time, lead levels have been lower than those of chromium and copper. There has been a generally decreasing trend of lead concentrations; the 1990 levels were the highest, 1993 levels were intermediate, and the 1996 levels were the lowest. During the period from 1996 to 1997, lead levels increased in 10 wells, declined in 5 wells, and remained virtually unchanged in 5 wells. The most significant change in lead levels was an increase of 124 ug/L in MW-04.

Arsenic. Arsenic consistently had the lowest concentrations relative to the other detected metals and showed a decreasing trend over the 1990 through 1996 sampling events. Arsenic levels increased in 10 wells, declined in 2 wells, and remained unchanged in 7 wells between the 1996 and 1997 sampling events. This was the first sampling event in which arsenic levels did not remain relatively constant and low.

	Old # na na na na na na na na na na	DTW (ft below TOC) 25.03 62.18 69.80 74.50 58.26 63.08 57.59 71.10 57.55	Estimated Depth to Top of Cenfining Layer (ft) na na na na na		TOC Elevation	GW Elevation	Top of Confining Layer Elevation	
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10 11 12 13 14	na na	=	na	292.74	NOT AVAILABLE	235.15	na	
11 12 13 14	na		na	304.66	NOT AVAILABLE	233.56	na na	Replaced cap
12 13 14			na	268.96	NDT AVALABLE	231.41	na	
13 14	ла	69.27	na	299.59	NOT AVALABLE	230.32	i na	
14		71.00	i na	301.40	NOT AVAILABLE	230.40	na na	Replaced cap
	<u>na</u>	67.68	na na	299.95	NOT AVAILABLE	232.07	па	·
16 1	na	71.82	79.50	302.44	NOT AVAILABLE	230.62	222.94	
	na	64.32	ла	205.23	NOT AVAILABLE	230.91	na -	· · · - ·
18	na	57.73	75.00	300.19	NOT AVAILABLE	242.48	225.10	
<sup></sup> 17	na		94.00	316.18	NOT AVAILABLE	68	222.18	
18	nati		na	308.25	NOT AVAILABLE	308.25	ла	
19	na	66.06	90.00	290.86	NOT AVAILABLE	202.80	200.85	
20	na (	85.28	<b>4</b> 8	285.19	NOT AVAILABLE	199.91	NA	
21	na	93.88		295.11	NOT AVAILABLE	201.23	41	
22	na	96.85	na	298.06	NOT AVAILABLE	201.21	na	
23	na	99,35	Π£	289,04	NOT AVAILABLE	199.69		
24	na	108.95	114.70	299.57	NOT AVAILABLE	192.62	184.87	
25	D (B)	72.23	80,70	270.31	NOT AVAILABLE	198.08	189.61	
26	na	100.02	110.00	303.68	NOT AVAILABLE	203.66	193.69	
27	па		96.00	304.19	NOT AVAILABLE	∩a	208.19	
28	ла	55.54	80.00	294.89	NOT AVAILABLE	239.35	214,89	
29	na	35.31	na	273.35	NOT AVAILABLE	238.04	ПВ	
30	na	42.34	6 <b>8.00</b>	273.93	NOT AVAILABLE	231,59	207.93	
31	<b>11</b> 8	64.18	76.30	297.38	NOT AVAILABLE	223.20	211.08	
32	n۵	<b>58</b> .96	66.50	285.42	NOT AVAILABLE	226,46	218.92	
33	na	48.17	60.00	277.52	NOT AVAILABLE	229.35	217.52	
34	ഫ	137.78	158,30	300.78	NOT AVAILABLE	163.00	142.49	
35	na	70.13	90.50	301.65	NOTAVALABLE	231.52	211.15	
36	na	153.33	90.00	311.15	NOT AVAILABLE	157.82	221.15	
37	na	127,42	70.00	285.45	NOT AVAILABLE	158.03	215.45	· · · · · · · · · · · · · · · · · · ·
38	ла	133.22	155.00	308.36	NOT AVAILABLE	175,14	153,36	
39	na	102.71	na	298.42	NOT AVALABLE 1	193.71	na	
40	0	78.79	95.00	262.40	262.25	183,46	167.40	
41	ĸ	64.96	67.00	283.90	283.81	218.85	216,60	
42	N	53.67	59.00	275.10	274.87	221.20	216.10	· · · ·
43	L		na	285.50	285.23	na	na	
44	M	49,24	78.00	259,40	289.07	219.83	191,40	
45	C	54.83	70.00	293.1D	292,81	237.98	223.10	
46	B	50.10	73.00	287.90	287.56	237.46	214.90	
47	нÍ		120.00	306.70	306.39	306.39	186.70	
48	<del>i</del> l	79.45	94.50	284.70	284.49	205.04	190.20	· · · · · · · · · · · · · · · · · · ·
49	- D	78.10	90.00	310.70	310.49	234.39	220.70	
50 1	F	85.60	125.00	299.30	298.78	213.18	174.30	
51	À	38.70	64.50	275.50	275.24	238.54	211.00	· · ·
52	Ĝ	60.37	104.00	279.50	278.19	197.82	175.50	
53	Ĕ	72.75	83.00	306.70	306.38	233.53	223.70	
54	5	74.49	95.00	295.50	295.36	220.67	200.50	·
55	<del>öt</del> ł	69.28	75.00	293.30	292.05	222,77		
PW1	na	00.20		232.40	202.03		217.40	
PW2			<u>na</u>			0.00	ná	
PW2 PW3	na				<u> </u>	0.00	na.	
			118 75 00	962.99	··· <b>_</b>	0.00		
57B-6	na		75.00	287.32	na	กล	212.32	
STB-7 STB-8			70.00	267.61	<u>An</u>	<u>nu</u>	217.81	
TB-12	na i		95.00 104.00	298.51	<u>па</u>	<u>na</u>	-104.00	

Water levels collected on February 14, 1996. na = not applicable

#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS DEFENSE DISTRIBUTION DEPOT JERNESS, TENNESSEE

Decements	Well	Concentration	٥	000 /	PRG Basts	Bastonia	Dealer de
Peremeter	MW03	( <b>ugil.</b> )	<u>J</u>	PRG (ug/L) 1 164.25	S PHU BALL	Background (ug/L)	Background Basis MAX_DET
The second se	MW29	B	— <u> </u>	164.25	5	1	MAX_DET
	MW31	2	<u> </u>	184.25			MAX_DET
122-TETRACHLOROETHANE	MW02	2		0.21	<u> </u>	NA I	NA NA
	NW03		•	0.21	C C	NA	NA
	MW06	110		0.21	Ċ -	NA	NA
	MW1D	24	J	0.21	! C	NA	NA
	MW11	9	J	0.21	1 C	I NA,	NA
	MW12	540	•	0.21	C	NA	NA
	MW32	<u>91</u>		្រណា	C	NA	NA.
	MW35	11		0.71	C	NA	ŇĂ
1,2-TRICHLOROETHANE	MW08	7	<u> </u>	0.60	<u> </u>	<u> </u>	NA
	MW32	\$	<u>+</u>	0.60	C	NA	NA
,1-DICHLORDETHANE	MWD7	<u> </u>	j	182.50	S	NA	NA
	MW29 MW31	2	j	182.50	5	NA	NA
	MW40 1	2 1	ر	182.50	5	NA I	NA
	MW03	15	<u>;</u>	0.07	S C	2	
	MW07	28		0.07		2	MAX_DET
	MWOB	12		0.07	č		MAX_DET
	MW09	2		0.07	č	2	MAX_DET
	MW10	48	•	0.07	<u> </u>	2	MAX DET
	MW29	32		0.07	C C	2	MAX_DET
	MW31	29	-	0.07	Ċ	2	MAX_DET
	MW51	ş	. J	<u>4.07</u>	G	2	MAX_DET
	MW02	15500	•	NA	NĂ	1798	2XMEAN
	MW03	23300		NA	NA	1798	2XMEAN
	MWD4	105000		NA	NA	1798	2XMEAN
	MWOS	12700	•	NA	NA	1798	2XMEAN
	MWDE	420	•	NA	NA	1798	2XMEAN
	MW07	21600		NA	NA	1798	2XMEAN
	MIYUB MIYUB			NA NA	NA	1798	ZXMEAN
	MW10	754	<u></u>		NA	1798 !	2XMEAN
	MW11	2650			NA	1798 I 1798 I	2XMEAN
	MW12	2320		I NA	NA	1798	ZXMEAN
	MW13	5840	<u>5</u>	NA	- <u>NA</u>	1798	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW14	5240	j	NA	NA	1798	2XMEAN 2XMEAN
	MW15	11300		NA	NA	1798	2XMEAN 2XMEAN
	MW16	112	1	NA	NA NA	1798	ZXMEAN
	MW19	1150	J	NA	NA NA	1798	2XMEAN
	MW20 I	4230	1	NA	NA I	1790	ZXMEAN
	NW21	127	J	NA	NĂÎ	1795	2XMEAN
	MW22	2460	<b></b>	NA	NA I	1798	2XMEAN
<u> </u>	NW23	60.2	J	NA NA	NA I	1798	ZXIKEAN
	MW24	39600	J	NA	NA	1796	2XXEAN
	MW25	2860	<u>J</u>	NA	NA	1798	2XMEAN
	MW26 MW28	5190	<u> </u>	NA	NA	1798	2XMEAN
	MW29	917 27900	· · · · · · · · · · · · · · · · · · ·	NA NA	NA	1798	2XMEAN
	MW30	101	L	NA	NA	1798	2XMEAN
	MW31	1450		NA NA		1798	2XMEAN
	MW32	5680		NA I	NA I		2XMEAN
	MW33	2210		NA	NA	1798	2XMEAN
,,,	MW34	622		NA	NA I	1788	2XMEAN 2XMEAN
i	MW35	306		NA	NA	1798	2XMEAN
	MW38	4660	J	NA	··· NA ···	1708	ZXMEAN
	MW97	2150 i		NA	NA	1758	2XMEAN
	MW38	653	L	NA	NIA	1798	2XMEAN
	MW39	977	L	NA "	NA	1798	ZXMEAN
	MW41	68.1	J	NA	NA	1798	2XMEAN
	MW45	1470	J	NA	NA	1798	2XMEAN
	MW46	129		NA	NA	1798	2KMEAN
	MW47	158	<u> </u>	NA.	NA	1798	2XMEAN
	MW48	426	<u>ل</u>	NA	NA	1798	2XMEAN
	MW49	39.3		NA	NA	1798	2XMEAN
<b>.</b>	NWSO	176		NA	NA	1755	2XMEAN
	MWS1			- NA	NA	1798	2XMEAN
	MWS2		<u>-</u>	NA	NA NA	1798	2XMEAN
	MW53 MW54	30.4	<sup>j</sup>	NA i	NA	1798	2XMEAN
		<u>1750</u> 339	<u> </u>	NA I	NA	1728	2XMEAN
	MW55 I MW15 I			NA	<u>NA</u>	1798	2XMEAN
	MW29	3.9 1		1.45	- 5	34,4	2XMEAN
RSENIC	MY028	25.0	<u>                                      </u>	1.48	<u>S</u>	<u> </u>	2XMEAN
	MW03	33.4	— <u> </u>	0.05	<u> </u>	NA	NA
	MW04		<u> </u>	0.05	<u> </u>	NA	NA
		101		0.05	.c	NA	NA
		24.3					
	MW07	24.3		0.05	<u>с</u>	NA	NA NA
		24.3 8.3 9.4					



#### TABLE 3-2 DETECTED GROUNOWATER CONSTITUENTS DEFENSE DRIFTISUTION DEPOT-MEMPHIS, TEDREESEE

		Concentration			1	1	
Parametar	Well	<u>(ug/L)</u>	<u> </u>	PRG [ug/L}	PRG Bash	Background (ug/L)	Background Basia
	MW15	73		9.05	c	NA	NA
	MW19	. 4.3	<u>i 1</u>	0.05	c	NA	NA
	MW20	6.0	i i	0.05	ç	NA	NA
·	ESWM	3.4	<u>i j</u>	0.05	<u> </u>	NA	NA
	MW24   MW25	10.8	L L	0.05	C C	NA	NA
	MW28 I	<u>4.5</u>	;	1 0.05	č	NA NA	NA
	MW28	2.8	<u> </u>	0.05	C C	NA NA	NA NA
······	MW29	33.0	j	0.05	č	NA NA	NA
	MW31	14	5	0.05	<u> </u>	NA	NA
	MW33	5.8	Ĵ	0.05	<u> </u>	NA	NA
	MW39	4,5	J	0.05	c	NA	NA
	MW45	4,4	J	0.05	C .	NA	NA
	MW46	2.6	J.	0.05	C	NĄ	NA NA
	MW48	2.5	j	0.05	! <b>C</b>	NA	NA
BARIUM	MW02	214	•	255.50	( <u>s</u>	223.8	2XMEAN
	MW03	203	•	255.50	i s	223.8	2XMEAN
	MWQ4	292		255.50	S S	223.8	2XMEAN
•	MW05	191	<u>ل</u>	255.50	6	223.8	2XMEAN
	MW06 MW07	279		255.50	S	223.8	2XMEAN
	MW08	122	<u> </u>	256.50	<u> </u>	223.0	2XMEAN
	MWD9	115	j J	255.50	S S	223.8	2XMEAN 2XMEAN
	MW10	112	<u> </u>	255.50	5	223.8	2XMEAN
	MW11	96	, <u>,</u>	255.50	6	223.8	2XMEAN
·	MW12	69.7	Ĵ	1 255.50	5	223.8	2XMEAN
	MW13	71,5		255.50	6	223.8	2XMEAN
	MW14	170		255.60	6	223.6	2XMEAN
	MW15	133	3	255.50	S	223.8	2XMEAN
	MW18	57.5	1	255.50	5	223.6	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW1D	190		255.50	٤	223.6	2XMEAN
	( MW20	82	<u> </u>	255.50	S	223.8	2XMEAN
	1_MW21	58	1	255.50	5	223.8	2XMEAN
	MW22	107 67.9	<u> </u>	255.50	8	223.8	2XMEAN
	1 MW24	252	L =	255.50	<u>s</u>	223.8	2XMEAN
	MW25	135	<u>_</u>	255.50	1 5	223.6	2XMEAN
	NW26 1	284		255.50	t 8	223.8	ZXNEAN
	NW28 I	151		255.50		223.8	2XMEAN
	MW29	203		255.50	8	223.5	2XMEAN
	MW30 [	148		255.50	S	223.8	2KMEAN
	MW31	136	J	255.50		223.8	2XMEAN
	MW32	242	•	255.50	S	223.8	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW30	62.3	J	255.50	5	223.8	2XMEAN
	MW34	137	<u>_</u>	255.50	8	223.8	2XMEAN
	MW35 MW36	124	J	255.50	S	223.8	2XMEAN
	MW37	680	•	255.50	<u> </u>	221.8	2XMEAN
	MW38	63.6	·-···	255.50	9	223.8 I	2XXEAN
	MW3P	79		255.50	<u> </u>	223.8 (	2XXEAN 2XXEAN
	MW41	151		255.50	8	223.8	2XMEAN
	MW45	<b>BB</b> .6	Ĵ	255.50	5	223.6	2XMEAN
	MW46	64.5	<b></b>	255.50	5	223.8	2XMEAN
	MW47	115	ر	255.50	5	223.8	2XMEAN
	MW48	89.2	J	255,50	\$	223.8	2XMEAN
	MW40	79.2	J	255.50	5	223.8	2XMEAN
	1 MW50	217		255.50	S	223.8	2XMEAN
•	I MW51	54,4		255.50	<u> </u>	223.9	2XMEAN
· ·	MW52 MW53	<u>189</u> 69.7	J	255.50	5	223.8	2XMEAN
	MW54	112		255.50		223.8	ZXMEAN
	MW55	68.5		255.50	\$\$	223.8 223.8	2XMEAN
ERYLLIUM	MW03	4.5	j	0.004	C S	.6	2XMEAN
	MW/04	14.9		0.004	č		2XMEAN 2XMEAN
	MW05	2	J	0.004	- c	.5	2XMEAN
	MW07	3.5		0.004	<u>c</u>	.5	2XMEAN
	NW08	1.8	j	0.004	Č	.5	2XMEAN
	NW09	0.65	J	0.004	C	.6	2XMEAN
	NW13	0.82	i	0.004	C .	.5	2XMEAN
	<u>MW14</u>	0.54	J	400.0	C C	.5	2XMEAN
	MW15			0.004		.6	ZXMEAN
·····	MW24				C	.5	2XMEAN
	MW26	<u>12</u>	·J	0.004	<u> </u>	,5	2XMEAN
CADMIUM	MW29	2.3		0.004	G	<u>,8</u>	2XMEAN
personal signals	MW04	- <u>49</u>	J	1_83		<u> </u>	NA
	MW11	11,0		<u>1.63</u> 1.63	<u> </u>	NA I	NA
	MW13			1,63	<u>s</u>	NA	NA
						ITA	NA
	MW14	5.6	-	1 #1	e 1	N.4	212
	MW14 MW18		<del>•</del>	1.83 1.63	<b>5</b>	NA	NA



#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS DEFENSE DESTRUCTION OFFICIAL DEPENSE

<b>.</b>		Concernmion		000 (	600 2	Backson and and	Bashas ad Brits
Parameter	Well MW22	<u>(vg/l)</u> 6.9	<u> </u>	<u>PRG (ug/L)</u>	PRO Beals	Background (ug/L)	Background Beals NA
		11.6		1.03	<u> </u>		NA
	MW29	2.7	 	i 1.83		I NA	NA
	MW32	2.4	· · · · · · · · · · · · · · · · · · ·	1.63	i <u>s</u>	NA NA	NA
	MW38	9.6	-	1.63	i s	I NA	NA NA
	MW38	50.5	-	1.63	· · · · · · · · · · · · · · · · · · ·	I NA	NA
	MW41	2.4	J	1.63	Ś	I NA	NA
ALCRIM	MW02	63000		NA	NA	52875	2XMEAN
	MW03	24700		NA	NA	52875	2XMEAN
	MW04	16700	-	NA	NA	52875	2XMEAN
	MW05	15700	•	NA	NA	52875	2KMEAN
	MW08	132000		NA	NA	52875	ZKMËAN
	MW07	22000	• · · · · · · · · · · · · · · · · · · ·	NA	NA	52875	2KMEAN
	MW09	17400	· ·	NA	NA	52875	ZKMEAN
	MW09	36100	•	NA	NA	52875	2XMEAN
	MW10	25300			<u>NA</u>	\$2875	2XMEAN
	I MW12	13300		NA NA	NA NA	52875 52575	2XMEAN
	MW13	12300		NA NA	NÁ	52875	2XXEAN 2XXEAN
	NW14	15700		NA	NA	52875	2XMEAN
•	MW15	14200	-	NA	NA	52875	2XXEAN
······	MW16	43500		NA	NA	52875	2XMEAN
	MW10	12600		NA	NA	52875	2XMEAN
	MW20	20100	• • • • • • • • • • • • • • • • • • • •	NA	NA	52875	2XMEAN
	MWZ1	15200	-	NÁ	NA	52975	2XMEAN
	MW22	25800		NA	NA	52875	2XXEAN
	MW23	29200	<u> </u>	NA	NA	52875	2XXEAN
	MW24	13800	<u> </u>	NA	I NA	52975	2XMEAN
· · · · ·	MW25	17900		NA NA	NA NA	52675	2XMEAN
	MW25 MW25	21700	•	NA NA	I NA	52875 52875	2XMEAN
	MW29	29100		NA NA	NA NA	52875	2XMEAN 2XMEAN
	MW30	28200	-	NA	NA	52575	2XMEAN
	MW31	23600		NA NA	NA NA	52675	EXMEAN
	MW32	66300		NA	NA	F2875	2XMEAN
	MW33	8030		NA	NA	52675	2XMEAN
	MW34	13500		NA	NA	52875	2XMEAN
	MW35	15100	-	NA	NA	52673	2XMEAN
	MW38	32400	-	NA	NA .	52875	2XMEAN
	MW37	40600	•	NA	NA	\$2875	2XMEAN
	MW38	28100	•	NA	NA	52875	2XMEAN
	MW38	30100		NA	NA	52875	2XMEAN
	I MW45	29200	1 - 1 *	NA NA	NA NA	52875	2XMEAN
	MW48	16500	·•	NA NA	NA	52875 52875	2XMEAN 2XMEAN
	1 MW47	20900		NA NA	NA NA	52875	2XMEAN
	1 MW48	15600		NA	NA	52875	ZXMEAN
• •	1 MW49 1	13800	-	I NA	NA NA	52875	ZXMEAN
	1 MW50	45900	*	I NA	NA NA	52875	2XMEAN
	MW51	22300	•	NA NA	NA	52875	2KMEAN
	1 MW52	45400		NA NA	NA	52875	ZXMĚAN
	MW53	31300	-	NA	NA	52875	2XMEAN
		14200	•	NA	NA	52875	2KMEAN
	MW55	12000		NA	NA	52875	ZXMEAN
ARBON TETRACHLORIDE	MW03	2	,	NA	NA	NA	NA .
	MW06 MW09	45 8	<u> </u>	NA	NA	NA	NA
	MW10		<u>ງ</u>	NA NA	NA		NA
	MW14	1		NA	NA NA	NA NA	NA
	MW15	31		NA NA	NA		NA
	MW26	4		NA NA	NA	NA	NA NA
	MW31	1	J	NA	NA	NA	NA
	MW32	25	•	NĄ	NA	NA	NA
	MW44	6		NA	NA NA	NA	NA
HLORDBENZENE	MW40	1	j	38.50	5	NA	NA
HLOROFORM	MW03	17	•	Q.19	C C	NA	NA
	MW04	1	J	0.19	C	NA	NA
	MW05	5	<u> </u>	0.19	<u> </u>	NA .	NA
	MW08 MW07	16	<u> </u>	0,19	C .	NA	NA
	···· MW07	5	<u>ل</u>	0.19	<u> </u>	NA I	NA
	MW10	<del>60</del>		0.19	<u> </u>	NA NA	NA
	MW10		l	<u>D.10</u>	<u> </u>		NA
	MW15	200		0_19 0_19	<u> </u>	NA NA	NA
	MW28	1	<b>I</b>	0.19	<u>C</u>	NA	NA NA
	- MW31	10	· · ·	0.19	<u> </u>		NA NA
	MW32			0.19	<u> </u>		NA NA
	MW34	2		0.19	<u> </u>	NA NA	
	MW44	6	<u>,</u>	0.19			
HROMUM, TOTAL	MW02	70.3		NA	NA NA	54,4	2XMEAN
	MW03	74,5	·	NA	NA		ZAMEAU



#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS OFFINISE DETRIMITION DEPUT-BENIFICE, TENESSEE

# 258 33

		Concentration					
Perameter	Weil	(ugil.)	<u> </u>	PRG (ug/L)	PRG Basis	Background (ug/L)	Background Bash
	MW04		i <u>→</u>	NA	NA	54,4	2XMEAN
	MW05	35.1	<u> </u>	NA	NA	54.4	2XMEAN
	LW07	49.8		NA	NA	54.4	2XMEAN
	MW0a	47.4	<b>-</b>	NA	NA	54,4	ZXMĚAN
	NW09	24,4	•	NA	NA NA	54,4	2XXEAN
	MW12	18.0	•	NA	NA	54.4	2XMEAN
	MW13 (	15.1		NA	NA	54,4	2XMEAN
	MW14	18.2	•	NA	NA	54,4	2XMEAN
	MW15	43,5		NA	NA	54,4	2XMEAN
	MW19	8.7	<u> </u>	NA	NA	54,4	2XMEAN
	MW20	8.2	<u>_</u>	NA	NA	64.4	2XMEAN
· · · · - · - · · · · · · · · · · ·	MW22	10.8		NA	NA	54,4	2XMEAN
	MW24	67_6		NA NA	NA	54.4	2XMEAN
	MW25	8.7	· · · •	NA	NA	54.4	2XMEAN
				NA NA			
·.· ···	MW26	13.6	-		NA	54,4	ZXMEAN 2004ÉAN
	MW29	74.5	• .	NA.	NĄ	54.4	
·	MW32	18.6	•	NA	NA	54,4	2XMEAN
	MW36	50.5	-	NA	NA	54,4 1	ZXMEAN
	MW38	11.2	•	NA	NĄ	54,4	2XMEAN
	MW39	12.7		NA	NA	54,4	2XMEAN
	MW45	11.7		NA	NA	54,4	2XMEAN
	MW\$4	18.5		NA	NA	54,4	2XMEAN
DBALT	) MW02	18.7	J	i NA	NA	24.8	2XMEAN
	EOWIM	Q	J	NA	NA	24.9	2XMEAN
	MW04	130		I NA	NA	24.6	2XMEAN
	MW05	15.2		I NA	NA	24.5	ZXMEAN
	MW07	513		I NA	NA	24.6	ZXMEAN
	MW08	23.9		I NA	NA	24.8	ZXMEAN
	MW09	11	<u> </u>	NA		24.8	ZXMEAN
	MW11	9	<del>ر</del> ۳۰۰	NA	NA	24.8	ZXMEAN
	MW12	11.8		NA	NA	24.8	2XMEAN
	MW13	13.2	<u> </u>	NA	NA	24.8	ZXMEAN
	MW14	17.8	 	NA	NA	24.6	2XMEAN
	MW15	31	<b>J</b>	NA			
					NA	24.5	2XMEAN
	MW20	2.8	<u> </u>	NA	<u>NA</u>	24.8	2XMEAN
· · · ·•	MW/24	100		NA	NA	24.5	2XMEAN
	MW25			ŇĂ	NA	24,8	2XMEAN
	I MW28	14,7	l 1	NA	NA	24.8	2XMEAN
	<u>MW28</u>		<u> </u>	NA NA	NA .	24.8	2XMEAN
	1 MW28		L 1	NA	NA	24.8	ZXMEAN
	I MW32	13	i l	NA	NA	24.8	2XMEAN
· · · · · · · · · · · · · · · · · · ·	. MW38	8.3		NA .	NA	24.8	2XMEAN
	MW30	7.8	J	NA	NA	24.8	2XMEAN
OPPER	MW02	23.4	J	135.05	S	162.0	2XMEAN
	MW03	47.7	•	185.05	5	162.6 (	2XMEAN
	i MW04	135	-	135 05	6	162.6	2XMEAN
••	L MW05	19.2	J	195.05	5	162.8	2XMEAN
•	MW07	42.5	•	135.05	5	162.6	2XMEAN
	MW08	55.5	•	135.05	6		2XMEAN
	MW00	30.8		135.05	6		2XMEAN
• •	MW11	20.2	J	135.05			2XMEAN
	MW13	34.0		135.05		182.6	2XMEAN
	MW14						
		10.1		135 05	5	152.6	2XMEAN
	MW15 1	47	-	195.05		162.8	ZXMEAN
	MW19			135.05	5	162.6	2XMEAN
<u> </u>	MW20	18.3	J	\$35.05	5	162.6	2XMEAN
	MW22 1	47.4	-	135.05	5	162.6	2XMEAN
	N2W24 (	72.3		135.05		182.6	2XMEAN
	MW25	19,4	J	t35.05	\$	162.6	2KMEAN
	NW26	38.7	=	135.05		162 6	2XXEAN
	MW28	15.9	1	135.05		182.6	2XMEAN
	MW29	97		135.05	5	162.6	2KMEAN
	MW33_	22.4		135.05	S	162.6	2XMEAN
	MW36	44,1	. •	135.05	- <u>-</u> S	182.6	2XMEAN
	MW39	28.4		135.05	5	162.6	ZXMEAN
	MW41	10,4	J	135.05	\$	162.6	ZXMEAN
	MW42	31,7		135.05	ŝ	182.6	2XMEAN
	MW45	12.2		135.05	<u> </u>	182.6	2XMEAN
	MW54	27.2		135.05		182.6	2XWEAN
ŵ.	MW02	34100		NA !	NA	6728	2XMEAN
	MW03	135000		NA I			
		432000	<u> </u>	······		6/28	2XMEAN
	- MW04				NA	6728	2XMEAN
·	MW05	\$3300		<u>NA</u>	NA	6728	2XXEAN
	MW06	1640		NA	NA	6728	2XWEAN
	MW07	87500		NA	NA	6728	2XMEAN
	MWOB	67100		NA	NA	5728	200 EAN
	MWOB	25200		NA	NA	6728	2XMEAN
	MWID	2190	•	NA	NA	8728	ZXMEAN
	- i MW11	8810	•	NA NA	NA	6726	2006AN
·- · · · · · · · · · · · · · · · · · ·	MW12	14400	 	NA NA	NA	6726	2XMEAN



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#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS DEFENSE ONTIMUTION DEPOT-MEMONIS, TENRESIZEE

B		Concentration		mo to a t	nna n		Dashaar
Peremeter	Well		<u> </u>	PRG (ug/L)	PRG Basin	Beckground (ug/L)	Background Basis
	1 MW14	Z3800 70600	-	I NA	NA NA	6728 6725	2XMEAN 2XMEAN
····	1 MW18	117		NA NA	NA NA	6728	2XMEAN
	1 MW19	4790		NA	NA NA	6728	2XMEAN
	MW20	8670	-	NA		5728	2XMEAN
	MW21	348	-	NA	NA NA	5728	2XMEAN
	MW22	14500		NA	NA NA	6728	ZXXEAN
	MW23	202	i .	NA	NA	6728	2XMEAN
	MW24	313000	1	NA	NA	6725	2XMEAN
	MW25	22500	· · · · · · · · · · · · · · · · · · ·	NA	NA	6728	2XWEAN
	MW26	47100		NA	NA	6728	2XXEAN
	MW28	3200	i .	NA	NA	6728	2XMEAN
	MW29	100000		NA	NA	\$728	2XMEAN
	MW30	294	•	NA	NA NA	6728	2XMEAN
	MW31	12400	•	NA	NA	6729	2XMEAN
	MW32	25400		NA	NA	6728	2XMEAN
	MW33	#620	•	: NA	NA .	6728	2XMEAN
	MW34	3680		<u>NA</u>	NA NA	6728	
	MW35	1640	-	NA	NA	6728	2XMEAN
	86WM	6270	*	NA	NA	6728	2XMEAN
	MW37	6810	=	NA	. NA	6728	2XMEAN
	NW38	1750	-	NA	NA NA	5725	2KMEAN
	MW39	2210	•	NA	NA NA	6728	2XMEAN
•••	MW41	871	•	NA	NA	8728	ZXMEAN
	MW45	9740 1590		NA	NA	6728	2XMEAN
	MW46		-		NA	6728	2XMEAN
	_MW47	585 630	•	NA NA	NA NA	6728	2XMEAN
	MW48	1830	-	NA NA		6728 8728	2XMEAN
	MWS0	322	-	<u>i na</u> i na	NA NA	<u>8728</u> 6725	2XMEAN 2XMEAN
	MWSI	1360		I NA	NA NA	6728	2XMEAN
	MWS3	418		I NA	NA	8728	2KMEAN
	MW54	12700		NA NA	NA NA	8728	2XMEAN
	MW55	734		NA NA	NA	6728	2XME AN
EAD	MW02	26.6		15.00	MCL	9.4	2XMEAN
	MW03	42.3	J	15.00	MCL	<b>D.4</b>	2XMEAN
	MW04	124		15.00	MCL	8.4	2XMEAN
	MWOS	18.1	J	15.00	MCL	9.4	2XMEAN
	MW08	32	Ĵ	15.00	MCL	9.4	2XMEAN
	MW07	22.7	J	15.00	MCL	9,4	2XMEAN
	MW08	21.7	· · · · · · · · · · · · · · · · · · ·	15.00	MCL	1.4	2XMEAN
	MN/09	24.7	L	15.00	MCL	9.4	2XMEAN
	MW10	3.6	J	15.00	MCL	94	2XMEAN
	MW11	<b>8</b> .3	J	15.00	MCL	94	2XMEAN
	MW12	5.7	ļ	15.00	MCL	94	ZXNEAN
	MW13	12.6		15.00	MCL	9.4	2XMEAN
	MW14	12.1	• <u>•</u>	15.00	MCL ·	9.4	2XMEAN
	MW15	23	(	15.00	MCL	9.4	2XMEAN
	MW1B	5.4		15:00	MČL	94	2XMEAN
	MW20		<u> </u>	15.00	MCL	9.4	2XMEAN
······	MW21	2.5	<u> </u>	1500	MCL	9.4	2XMEAN
	MW23	1.6	<u> </u>	15.00	MCL	94	2XMEAN
•••••••••	MW24	34.5		15.00	MCL	9.4	2XMEAN
	MW28	10.2	<u> </u>	15.00	MCL	9,4	2XMEAN
	1 MW28 1 MW29	3.3 26.6	•	15.00	ME1	<u>94</u>	ZXMEAN
	MW30	<u>265,0</u>	ل ا ا	15.00	MCL MC1	9.4	2XMEAN
	MW30	2	· <u>···</u> ····	15.00		<u>0.4</u>	2XMEAN
	MW32	2 13.8	<u>ا</u> ا		+	94	ZXMEAN
	MW33	7.4		15.00	MČL	9.4	
	MW36	13,5	· · · · · · · ·	15.00		9,4	2XMEAN
	MW37	5	•	15.00	MCL	B.4	2XMEAN
	KW39	48.7		15.00	MCL	0.4	2XMEAN
	NW41	1,3	J J	15.00	MCL	9,4	2XMEAN
	MW42	6.4	<b>J</b>	15.00	MCL	8.4	2XMEAN
	MW45	1,2	J	15.00	MÇL	9.4	2XMEAN
	NW48	1.2	j	15.00	MCL	9,4	ZXMEAN
	MW48	1.4		15.00	MCL	8,4	2XMEAN
	MW49	4,1		15.00	MCL	9.4	2XMEAN
	MW54	2.3		15.00	MCL	B,4 (	2XMEAN
	MW55	5,1		15.00	MCL	P.4	ZXMEAN
AGNESIUM	MW02	29.500	•	NA	NA	26045	2XMEAN
	MW03	12500		NA	NA	26045	2XMEAN
	MWDH	10100	= <u> </u>	NA	NA	20045	ZXMEAN
	MW05	7900		NA	NA	28045	ZXIMEAN
	MW06	25800	•	NA	I NA	25345	2XMEAN
	MW07	10700		NA	I NA	26045	2XMEAN
	MW08	7910	•		NA	26045	2XMEAN
	MWDB	19000		NA	NA	20045	ZXMEAN
	MW10	12500			NA	26045	2XMEAN
	MW11	7040		NA	NA	26045	2XMEAN



#### TABLE 3-2 DETECTED OROUNDWATER CONSTITUENTS DEFENSE DISTRIBUTION DEPOT-MEMPHON, TENDEDSEE

		Concentration	1		ł	4	
Parameter	Well	(ug/L)	. a	PRG (ug/L)	PRC Basis	Background (ug/L)	Beckground Bash
	MW12	6620	•	NA NA	NA	25045	ZXMEAN
	MW19	6240	-	NA	NA	25045	2XMEAN
	MW14	8890		NA NA	NA	26045	2XMEAN
	MW15	6740		NA	NA NA	26045	2XMEAN
• •	MW18	12500	i _	NA	NA	28045	2XNEAN
	MW19	5580	i -	NA	NA	26045	2XMEAN
	MW20 i	7340	•	NA	NA	25045	2XMEAN
	MW21 1	7970	•	NA	NA	25045	2XMEAN
· ·	MW22	13300		NA	NA	28045	2XMEAN
	MW23	11200		I NA	NA	28045	2XMEAN
	MW24	7190	-	I NA	NA	25045	2XMEAN
	MW25	9580	•	I NA	NA	26045	2XMEAN
	MW26	10500	-	NA NA	NA	28045	2XMEAN
	NW25	0900	=	NÅ	NA	28045	2XMEAN
	MW29	13800	•	NA	NA NA	26045	2XMEAN
	MW30	\$4500	· · · · · · · · · · · · · · · · · · ·	NA	NA	26045	2XMEAN
	MW31	11500		NA	NA	26045	2XMEAN
	MW32	15400		NA	NA	26045	
	MW33	4380	 J	NA	NA	20045	ZXMEAN
	MW34	6060	<b>_</b>	NA	NA	28045	2XMEAN
	MW35	7250	<u> </u>	NA	NA	26045	2000EAN
	MW38	4280		NA	NA	20045	ZXMEAN
······	MW37	14200	J 		NA NA	28045	2XMEAN 2XMEAN
	MW38	4960	<u> </u>	NA	NA NA	26045	2XMEAN
	MW39	8080		NA	NA NA	25045	2XMEAN 2XMEAN
	M038	B560	······································	NA NA	NA	26045	2XMEAN
	MW45	15200		NA NA	NA NA	26045	2XMEAN
	MW48	8230	<u> </u>	NA NA	NA NA	26045	
	MW/47	13400	<u> </u>	NA	NIA NA	26045	2XMEAN 2XMEAN
	MW4B	8130		NA NA	NA NA	26045	2XMEAN
	MW49	6680		NA NA	NA.	26045	2XMEAN
· ·	MWSO	20100	•	1 NA	NA NA	26045	2XMEAN
	MW51	10500		í NA	NA	26045	
	MW52	23200	•	NA NA	NA	26045	2XMEAN 2XMEAN
	MW53	16400	•	NA	NA		
	MW54	7110		NA		26045	2XMEAN
	MWS5	4210		NA NA	NA		2XMEAN
ANGANESE	MW02	2380	J	16.25	NA	26045	2XMEAN
	MW03	406	<u> </u>	16.25	<u>5</u>	550	2XMEAN 2XMEAN
	MW04	1290		18.25	5	560	
	MWQS	202		16.25	<u> </u>	560	2XMEAN
	4W06	3150	4	16.23	5	560	2XMEAN
	AW07 1	407	<u>_</u>	15.25		560	ZXMEAN 2XMEAN
· · · · · · · · · · · · · · · · · · ·	BOWM	491	1	16.25	5	560	
	I MW09 I	341		15.25		560	ZXMEAN
	1 NW10 1	22.2	_ 	18.25		550	2XMEAN 2XMEAN
	I NW11	218	J	18.25	5	580	2XMEAN
	MW12	159		18.25		560	2XMEAN
• •	NW13	177		15.25	5	560	ZXMEAN
	MW14	419		18.25	<u> </u>	660	2XMEAN
	MW15	415		15.25	3	560	ZXMEAN
	MW16	40.9		18.25	<u> </u>	560	2XMEAN
	MW19	78.1		18.25		560	200640
	MWZD	96.5		18.25	5	560	2XMEAN
•	MW21	4.2		18 25	5	560	
••••	MW22	48.1	=	18.25	<u> </u>		2XMEAN
		5.8	<b></b>	18.25	3 5	560	2XMEAN 2004EAN
	MW24	1270		18.25	<u> </u>	560	2XMEAN
	MW25	548		18.25	<u> </u>	550	2XMEAN
	MW26	563	•	18.25	8	560	
		580	•	18.25	8	550	2XMEAN 2XMEAN
	MW28	325		18.25	. a 9	560	
	MW30	7,7	- J	18.25		580	ZXMEAN
		55.2		18.25	. <u> </u>		2XMEAN
	MW32	2240		18.25	<u> </u>	560	
	MW33	51.5		18.25	<u> </u>	560 1	2XMEAN
	MW34	19.4		16.25	<u> </u>		2XMEAN
	MW35	18.4	- <b>-</b> J	18.25		580	2XMEAN
		<u>10.2</u> 147		18.25	<u> </u>	560	2XMEAN
		217		16.25	<u>S</u>	580	2XMEAN
			¥		S	550	2XMEAN
	MW38	150	-	18.25		560	2XMEAN
	NW39			18.25	, w	580	2XMEAN
		132	-	18.25	8	560	2XMEAN
<b>-</b>		22	<u> </u>	18.25	5	580	2XMEAN
·	MW46	<u>0.5</u>	J	18.25	S	560	2XMEAN
	MW47	11.6	J	18.25	5	560	2XMEAN
	MW48	<u> </u>	J	18.25	8	560	2XMEAN
······	MW50	30.8		16.25	S	560	2XMEAN
	MW52	4.9	J	18.25	5	560	2XMEAN
	MW53	17,4		18.25	S	560	2XMEAN
	MW54	25.6					

#### TABLE 3-2 DETECTED GROUXDWATER CONSTITUENTS DEFENDA DESTRUCTION DEPOT-MEMORIS, TENDERSES

Persmeter	Wes	Concentration (ug/L)	à	PRG (ug/L)	PRG Basis	Background (ug/L)	Backpround Basis
	MW55	27.4		18.25	S	580	2XMEAN
MERCURY	MW02	02		1.10	S	NA NA	NA
	EOWIM	0.2	L	3.10	5	NA	NA
	NIW04	0.63	•	1,10	5	NA	NA
	MW05	0.35		1.1D	5	NA	NA
	MAAN	0.36		1.10	<u>s</u>	NA	NA
	MN/07	0.14	J	1.10	5	NA	NA
	MW08	0.18	 J	1,10	i s	NA	NA
	Liwdg	0.08		1.10	1 5	NA	NA
	MW10	0.08			i ş	NA	NA
	MW11	0.08			i Š	NA	NA
	MW12	0.07	j	1,10	1 5	NA	NA
	E/WM	0.11	<u> </u>	1.10	5	NA	NA
	MW15	Q,17	J	1,10	i s	NA	NA
	MW24	0.63		1,10	Ś	NA	NA NA
	MW26	0.13		1,10	5	NA	NÁ
	MW2B	0.11	j	1.10	5	NA	NĂ
	1 MW29	0,16	Ĵ	1 1.10	5	NA	NA
	I MW30	0.06		1.10	5	NA	NA
· · · · · · · · · · · · · · · · · · ·	1 MW31	0.07	1	1.10	- <u> </u>	NA	NA
	NW32	0.65		1,10	· · · · · · · · · · · · · · · · · · ·	NA	NA
	I MW42	0.06		1.10	5	NA NA	NA
	1 A4W45 I	0,11		1,10	5	NA	NA
ICKEL	1 NW02 /	49.4		13.40	S	31,4	2XMEAN
	1 60WW	45.7		13.40	5	31.4	2XMEAN
	MW04	\$5.6	· · · · · · ·	13,40		31.4	ZXMEAN
	MW07	28.9	<u>_</u>	11.40	5	31.4	2XMEAN
	MW08	24,3		13.40	δ	31.4	2XMEAN
· ·	MW14	7,6		13,40	3	31.4	ZXMEAN
	MW15	20.1	j	13.40	5	31.4	2XMEAN
	MW19	5.7		13,40	ŝ	31.4	ZXMEAN
·	MW2D	7.8	i	13.40	Š	31,4	2XMEAN
	MWZ2	82	1	13.40	s	31.4	2XMEAN
	MW24	32.2	Ĵ	13.40	i s	\$1.4	2XMEAN
	MW25	72			i S	31.4	2XMEAN
	MW28	8.2	· <u> </u>		is	31,4	2XMEAN
	MW29	32.6	J		5	\$1.4	2XMEAN
	MW30	7.8	·j		t S	91.4	2XMEAN
-	MW33	10	Ĵ	13 40	S S	31.4	2XMEAN
	MW35	40		13.40	i s	31.4	2XMEAN
	MW37	e		13.40	S S	31.4	2KMEAN
	MW38	11.2	J	13.40	5	31,4	ZXMEAN
	MW41	5.7	,j	13.40	8	91.4	2XMEAN
	MW46	4.9	j	13.40	S	31.4	ZKMEAN
OTASSIUM	MW02	5590		I NA	NA	3495.4	2XMEAN
	MWD3	7080		NA	NA	3495.4	2XMEAN
	MW04	22500		NA	NA	3495.4	2XMEAN
	MW05	4540	1	NA	NA	3495.4	2XMEAN
	MW06	5200	•	NA	NA	3495.4	ZXMĘAN
	1 MW07	4950	J	NA	NA	3495.4	2XMEAN
	MW08	\$740		NA	NA	3495,4	2XXEAN
	1 MW09	3790	1	NA	NA	3495.4	2XMEAN
	I MWIG I	2750		NA NA	NA	3495.4	2XXEAN
•	MW11	3120	<u> </u>	NA	NA -	3495,4	2XMEAN
	3 MW12 1	1410		NA	NA	3495.4	2XMEAN
	L MWIA I	2460 İ	<u> </u>	NA	NA I	3495.4	2XXEAN
	1 MW15	4160	2	NA	NA	3495.4	2XXEAN
	MW18	1290	·····j	NA	NA	3495.4	2XMEAN
	1 MW20	4180	J	NA	NA	3415.4	2XMEAN
	MW22	5410		NA	NA	3495.4	2XMEAN
	NW23	1960	J	NA	NA	3465.4	2XMEAN
	MW24	10000	-	NA	NA	3495.4	EXMEAN
	MW26	3520	J	NA	NA	3495.4	2XMEAN
	MW28	1710	J	NA	NA	3465,4	2XMEAN
· · · · · · · · · · · · · · · · · · ·	NW29	5320		NA	NA	3495,4	2XMEAN
	MW30	1510	J	NA	NA	3495.4	2XMEAN
	MW31	1850	J	NA	NA	3465.4	2XMEAN
	MW32	\$930		NA	NA	3495.4	2XMEAN
	NW33	1290	J	NA	NA	3495.4	2XMEAN
	MW35	1580	j	NA	NA	3485.4	ZXMEAN
	MW36	6270		NA		3495.4	2XMEAN
	NW37	6750		NA	NA	3495.4	ZXMEAN
	MW39	2300	J	NA	NA NA	3495.4	2XMEAN
	MW41	3450		NÅ	NA I	3485.4	2XMEAN
• • •	MW45	1360	<u> </u>	NA	NA	3495,4	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW46	361	-	NA	NA	3495.4	2XMEAN
	MW47	2120	<u>-</u>	NA	NA	3495,4	ZXMEAN
	MW48	1290	<del></del>	NA	NA	3495,4	
			2				2XMEAN
		677		RIA.	N.L.	9.402.4	A viaC - · ·
	MYV49 MWS1	<u>527</u> 1440		NA NA	NA	3495.4 3495.4	2XMEAN 2XMEAN

#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS DEFENSE DETREMINING DEPET ADJESTING, TENDESETE

		Concentration					1
Paramatar	Well	(ug/L)	<u>a</u>	PRG (ug/L)	PRG Basta	Background (ug/L)	Background Basis
	MW53	2230	J	NA	NÁ	3485.4	2XMEAN
	MW55	1290	j j	NA	NA	3495.4	2XMEAN
SODIUM	MW02	14300	i =	NA	NA	106650	2XMEAN
	MW03	17500	1 =	NA	NA	106650	2XMEAN
	MWD4	14600	l J	NA	NA	106850	2XMEAN
	MW05	29700	-	NA	NA	106650	2XMEAN
	NW08	25100		NA	NA	106650	2XMEAN
	MW07	20200	•	NA	NA	106650	2XMEAN
	MW08	26900	-	I NA	NA	105650	2XMEAN
• • • • • • • • • • • • • • • • • • • •	NW09	16000	J	I NA	NA	106650	2XMEAN
	MW10	26000	-	I NA	NA	106650	2XMEAN
	MW11	16800		E NA	NA	106650	ZXMEAN
	MW12	16900	-	NA	NA	106650	ZXMEAN
	MW13	18100	J	NA	NA	108650	2XMEAN
	MW14	10700	Ĵ	NA	NA	106650	2XME AN
	MW15	12500	J	NA	NA	106650	2XMEAN
	MW16	46000	<u> </u>	NA	NA NA	106650	2XMEAN
	MW19	10800	j	NA	NA	106850	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW20	14000	1	NA	NA	100650	2XMEÁN
	MWZI	15600		NA	NA	1 106650	2XMEAN
	MW22	40300	j	NA	NA	106850	2XMEAN
	MW23	14500		NA	NA	106650	2XMEAN
· · · · · · · · ·	MW24	19100	. <u>.</u> I J	NA	NA	106650	2XMEAN
	MW25	13400	Ĵ	NA	NA	106650	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MNY28	30300	<b>_</b>	NA	NA	106850	ZXMEAN
	MW28	13700		NA	NA	106850	2XMEAN
	MW29	29500	1	NA	NA	106650	ZXMEAN
	MW30	23900		NA	NA	106850	ZXMEAN
	MW31	23300	····	NA NA	NA	108550	2XNEAN
	MWJZ	20600		I NA	NA	106850	ZXMEAN
	MW33	17500	J	NA NA	NA	106650	ZXMEAN
	MW34	9650		NA	NA	106650	2XMEAN
	MW35	15500	•	NA	NA	106650	2XMEAN
	MW38	2210	<b>,</b>	NA	NA	106850	2XMEAN
	<b>MW37</b>	7010	J	NA	NA	105650	2XMEAN
	MW38	10600		NA		106650	2XMEAN
· · · · · · · · · · · · · · · · · · ·	MW39	24200	ć.	NA		100650	2XMEAN
	MW41	19500	1	NA	NA	106850	ZXMEAN
	WW45	15800	L	NA	NA	106650	2XMEAN
	NW48	25500		NA	NA	106650	2XMEAN
	MW47	24300	-	NA		106650	2XMEAN
	MW48	20300	J	NA	NA	105550	2XMEAN
	MW49	11900	J	NA	NA	108650	2XMEAN
	MW50	55600	J	NA	NA	105850	2XMEAN
	MWS1	17000	J	NA	NA	106650	ZXMEAN
· · · ·	MW52	85600	J	NA	NA	106550	2XMEAN
	MW53	32500		NA	NA	106650	2XMEAN
	MW34	16300	J	NA	NA	106850	2XMEAN
	_MW55	14200	J	NA	NA	106850	2XXEAN
TRACHLOROETHYLENE(PCE)	MW03	33		0.63	С	1	MAX_DET
	MW04	74		0.63	C	1	MAX_DET
•	MW05			0.60	C	1	MAX DET
	MW08	4	J	0.63	с <u>—</u>	1	MAX_DET
	_MW07	11	<b>#</b>	0.80	C	1	MAX_DET
	MW08	16		083	C .	1	MAX_DET
	MW09	. 7	J	0.83	С	1	MAX_DET
	MW10	110 (	•	0.83	C	1 1	MAX_DET
	MW11	10		0.83	C	1	MAX_DET
	AW12	74	J	0.83	C	1	MAX_DET
	MW13	7	J	. 0.87	<u> </u>	1	MAX_DET
	MW15	7		0.83	C	1	MAX_DET
· ···	MW21	<b>C</b>	•	D.83	C	1	MAX_DET
	MW25	4	L	0.60	C	1	MAX_DET
	MW26	12		0.83	<u> </u>	1	MAX_DET
	MW29	38	·	0.83	C	1	MAX_DET
	MW31	67		0,60	<u> </u>	1	MAX_DET
	MW32	2	J`	28.0	<u> </u>	1	MAX_DET
	MW35	2	J	0.83	C	1	MAX_DET
	NW39	8	J	0.83	C	1	MAX_DET
	<b>NW47</b>	2	J	0.83	<u> </u>	1	MAX_DET
	MWS1	. 1	J	0.63	C	1	MAX_DET
	MW52	4	u	0.63		- 1	MAX_DET
DTAL 1.2-DICHLOROETHENE	MW03	12		1643 1	S	NA	NA
	MW05	2 :		16 43	<u></u> <u>s</u>	NA	
	MWOB	410		16.43	3	NA	NA
	MW10	280		16.43	<u> </u>	NA	NA
	MW11	34		16.43	- <u>-</u>		NA
	MW12	250	<b>;</b>	16.43		NA I	
							NA
		R 1					
	MWIS	- <u></u>	J		<u> </u>	NA NA	NA NA



#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTS DEFENSE DESTRIBUTION DEPOT-MEMPHS, TENGESSEE

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Persmeter	Well	Concentration (ug/L)	a	PRG (ug/L)	PRG Basia	Beckground (ugA.)	Beckground Basis
	MW35	11		1 16.43	5	NA NA	NA
	MW44	2		18.43	S S	NA	NA
	MW52	1		\$8.43	5	NA NA	
	MW54	4	J	18,40	5	NA NA	NA
lotal Xylenea	MW12	54	j	2200.00	5	NA NA	NA
RICHLOROETNYLENE (TCE)	MW03	N I	1 =	3.87	C	1	MAX_DET
	MW04	2	1 1	3.87	C	1	MAX_DET
	MW05	<b>•</b>	<u>!</u>	3.87	C	1	MAX_DET
	MWDE	250	-	3187	<u> </u>	1	MAX_DET
	MW07	16	<u> </u>	3.57	<u>c</u>	1	MAX_DET
	MW08 MW09	•	÷	3,47	<u> </u>	1	
	MOV10	450	<u> </u>	3.67	<u> </u>	1	MAX_DET
	MW11	38		3.87	····	1	MAX_DET
	MW12	5900		3.67	i c	1	MAX_DET
	MW15	99	· · · · · · · · · · · · · · · · · · ·	107	i č	1 1	MAX_DET
	MW21	14		3.87		i i	MAX_DET
	MW22	2	J J	3.87		1 1	MAX_DET
	MWZ0	2	1 1	3.67	C	1	MAX_DET
	I MW20	16	-	3.67	C	1	MAX_DET
	I MW31	7B	<u> </u>	3.67	<u> </u>	1	MAX_DET
	AW3Z	93	-	3.87	<u> </u>	1	MAX_DET
	MW35	160	•	3.67	C C	1	MAX_DET
	MW39	4	J	3.67	<u> </u>	· · · · · · · · · · · · · · · · · · ·	MAX_DET
	MW51	5	JJ	3.87	C C	1	
	MW54 i	58	<u>_</u>	3.87	C C		MAX_DET
ANADIUM	MW02 i		<u> </u>	25.55	<u> </u>		
	MW03	126		25.86	5 B	6	2XMEAN
	MW04	295		25.55	<u> </u>	<u> </u>	2XMEAN
	MW05	49.6	1	25.55	\$	6	2XMEAN
	MW06	1,4	j	26.55	B	6	2XMEAN
	MW07	\$9.7		25.55	5	6	2XMEAN
	MW08	68.3	-	25.55	5	6	ZXMEAN
	MW09	32.2	1 1	25.55	5	6	2XMEAN
	MWIO	2.3	<u> </u>	25.55	S	6	2XMEAN
	MW11 MW12	10.3	J	25.55	<u> </u>	6	2XMEAN
	MW12 MW13	<u>10.3</u> 25.3	J	25.55	<u>s</u> 5	6	2XMEAN
	MW14	28.1	<u> </u>	25.54		6 1 6	2XMEAN 2XMEAN
	MW15	64.3			i s	i B	2XMEAN
	MW18	0.44	- <u>-</u>	25.55	i <u>s</u>	5	2XMEAN
	MW19	5	i j	25.55	i ŝ	i <u> </u>	2XMEAN
	MW20	15.6	J J	25.55	1 5		2XXEAN
	1 MW21	0.69		25.55	i s	6	2XINEAN
	1 MW22	10.2		25.55	<u> </u>	6	2XMEAN
	1 MW29	0.7	<u> </u>	25 65	<u>s</u>	B	2XMEAN
	MW24	148	<u> </u>	25.55	S	8	2XMEAN
· · · · · · · · · · · · · · · · · · ·	AW25	30.0		25.66	<u> </u>		2XMEAN
	MW28	7,4	• J	25,55	<u>\$</u> 9		2XMEAN
	MW29 1	110	<b>J</b>	23.55	<u> </u>	5 5	2XXEAN 2XXEAN
	MW30			25.55	S	8 6	2XMEAN
	MW31	8.3	j	25.55	5	e	2XMEAN
	MW32 1	36	Ĵ	25.55	s	· · · · · · · · · · · · · · · · · · ·	2XMEAN
	MW33	11.4		25.55	S	6	2XMEAN
	MW34	5.3	J	25.65	8	8	ZXMEAN
	MW35	1.4	J	25.55	S	6	2XMEAN
	MW36	8.0	J	25.55	8	6	2XMEAN
	MW37	4,4	<u> </u>	25.55	5	6	2XMEAN
	MW38	2.4	<u>.</u>	25,55	3	8	2XMEAN
	- ( - <u>MW39</u> - MW41	2.4	J	25.55	S		2XMEAN
	MW45	P,3	<u> </u>	25.55	<u>5</u>	B	2XMEAN
<b></b>	MW46	12	J	25.55	·	- <del>6</del>	
	MW47	0.76	<u> </u>	25.55	<u> </u>		2XMEAN 2XMEAN
	MW48	1.0	· · · ·	25.55	5	6	2XMEAN
	MW48	0.65	J	25.55	5		2XMEAN
	MWSO	0.74	J	25.55	i š	8	2XMEAN
	MWS1	2.8		25.55	5	6	2XMEAN
	MW52	0.56	J	25.55	5	6	2XMEAN
	MW53	0.54	J	25.55		6	2XMEAN
	MW54	8.2		25.55	\$	6	2XMEAN
	MW55	16	<u> </u>	25.55	\$	6	2XMEAN
NC	MVV02	45.0		1095.00	<u>s</u>	NA I	NA
	NIV/03	130	•	1095.00		NA	NA
··	Miniba -	301	•	1095.00	8	NA NA	NA
	MW05	57.7	<b>=</b>	1095.00	<u><u>s</u></u>	NA	NA
	MW07	84.2		1095.00		NA	NA
	MW08	71,7 58.0	-	1095.00	<u> </u>	NA	NA

#### TABLE 3-2 DETECTED GROUNDWATER CONSTITUENTE GEFENSE DISTRIBUTION GEFOT HEMPISS, TEMPLESSEE

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1		Concentration		1		1	
Parameter	Well	(ug/L)	•	i PRG (ug/L)	PRG Basia	Background (ug/L)	Beckground Beel
1	MW13	41.8		1 1095.00	\$	NA NA	NA
1	MW14	43.3	*	1095.00	5	NA NA	NA
	MW15	100	-	1095.00	5	NA	NA
	MW21	E 69.8		1095.00	5	I NA	NA
	MW22	35.a		1095.00	5	NA	NA
	MW24	174	•	1095.00	S	NA	NĄ
	MW26	58.5		1095.00	5	NA	NA NA
	MW28	28.8		1095.00	Ś	NA	NA
	NW29	117		1095.00	S	NĄ	NĂ
	MW32	32		1095.00	S	NA	NA
	MW33	33.9	-	1095.00	5	NA	NA -
	MW36	115	-	1095.00	S	NÅ	NA
	NW37	44.3	-	1095.00	5	NA	NA
	MW38	<b>B</b> 1		1095.00	S	NA NA	NA
	MW39	68.9	•	1095.00	8	( NA d	NA
	MW42	48,4	•	1095.00	8	NA NA	NA
	MW45	44,1	-	1095.00	S	Î NA I	NA
3 - Pretiminary Remodiation Goal							
Asan - Background based on twice	a tha mea	n background conc	entration.				
= Not Available							
X_DET = Background based on m	aximum d	stacted backgroun	d concentration.			I I	

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[		TABLE 3-	3			
		L AQUIFER SUMM				
	No. of	No. af				Slandard
Analyte	Analyses	Detections	Min	Max	Average	Deviation
Inorganics						
Aluminum	52	52	8.20	105000	6704.16	15993.50
Antimony	56	3	2.50	3.90	3.37	0.80
Arsenic	56	25	2.50	107	15,54	21.70
Barium	52	52	56	686	148.68	99.70
Beryillum	56	13	0.54	14.90	3.53	4.50
Cadmium	56	19	2.40	60	12.54	15.60
Calcium	52	35	9030	132000	26866	19359.60
Chromium	56	28	8.20	219	38.03	41,40
Cobali	52	24	2.80	130	26.28	31.10
Copper	56		8.50	135	36.63	27.30
Iron	52	51	117	432000	32353.76	76107.70
Lead	56	42	1.00	124	15.74	21.90
Magnesium	52	52	4200	29500	10616.15	5618.10
Manganese	52	50	4.20	3150	366.80	640.50
Mercury	56	50	0.06	0.65	0.21	0.20
Nicket	56	25	4.90	96	21.98	21.00
Potassium	52	44	361	22500	3882.91	3609.50
Sodium	52	52	1950	85600	20679.81	13479.30
Vanadium	52	52	0.44	298	27.56	52.00
Žinc	56	29	28.80	301	81.54	56.30
VOCs	<b></b>	· · · · · · · · · · · · · · · · · · ·	<u>h · · · · · · · · · · · · · · · · · · </u>		·	
1,1,1-Trichloroethane	54	3	1.00	8.00	3.67	3.80
1,1,2,2-Tetrachloroethane	54	9	2.00	540.00	92.67	172.00
1,1.2-Trichloroethane	54	2	5.00	7.00	6.00	1.40
1,1-Dichloroethane	54	4	1.00	2.00	1.75	0.50
1,1-Dichloroethene	54	6	2.00	48.00	21.25	15.30.
1.2-Dichloroethene (total)	54	15	1.00	410.00	85.87	140.40
Carbon tetrachloride	54	11	1.00	45.00	12.45	14.60
Chlorobenzéné	54	1	1.00	1.00	1.00	ND
Chloroform	54	16	1.00	300.00	28.13	73.90
Ethylbenzene	54	1	2.00	2.00	2.00	ND
Methyl Isobutyl Ketone	54	2	3.00	4.00	3.50	0.70
Tetrachloroethene	54	24	1.00	110.00	26.04	30.80
Trichloroethene	54	24	2.00	5900.00	311.00	1195.20
Xytenes (total)	54	2	9.00	54.00	31.50	31.80
			<u> </u>			61165

ND = Standard Deviation not defined (must have at least three values)

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TABLE 3-4	CORRELATION BETWEEN TURBIDITY AND CONCENTRATION	DEFENSE DISTRIBUTION DEPOT-MEMPHIS, TENNESSEE
	TABLE 3-4	TABLE 3-4 CORRELATION BETWEEN TURBIDITY AND CONCENTRATION

	10.4	<u>ب</u>	4.6	Ξ	89.8	<del>م</del> ا	4.3	11.4	6.1	6.1	57.7	14.8	10.3	ß	14,9	33.9	10.7	14.3	48.4	91	15.3	44.1	45.9	16.7	69.9	17.6	23.9	44.3	26	115	19.5	25.8	ŝ	ē	ŝ	84:2
			1	-	1					2.8		1.4		1,8	2.3 1	11.4 3	-	1.2		ł		9.3					10.3 2		8.2							99.7 B
MUIGANAY	<u> </u>	3 0.58			4 0.89		3 0.76	3 0.74	4 0.54		3 49.B		4 0.65			L																		``I		
	ļ	[	[	2.7		2.3		2.3	2.4	2.3	2.3	2.3			2.3		2.9													23			i l	23		1
wnidos	46000	85600	14500		15600		24300	56600	32500	17000	29700		11900	20300	26000	17500	23900		:	10600						<u> </u>	_	7010	16300	· · ·	13400		_		<u> </u>	20200
SILVER	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0,57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
צברבאותא צברבאותא	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.71	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3,7	37	3.7
MUISSATO9	4170	4360	1960		1290		2120	4560	2230	1440	4590	1580	627	1290	2750	1290	1510	361	:	4370	1290	1360	5590	1290	2300	165 26	1410	8760	1290	5270	1550	3120	7080	٩l		4980
	2.5	0.89	8,	3	2.6	3.4	3.4	3.4	1.B	2.2	18.5	4,2	4.1	2	5.5	2	7.8	4.9	14.8	11.2	3.8	5.1	49.8	5.7	9.	4	16.5	6	5.4	\$	7.2	8.5	45.7		14.6	
мевсиях	990	0.06	0.06	0:08	0.08	0.08	0.07	0.07	0.08	0.08	0.35	0.08	0.06	0.06	0.06	00	0.06	0.06	0.06	0.06	0.1	0.11	0.2	80	80	200	0.07	0.06	0.06	0.09	60.0	80.0	0.2	80	8	7
ANGANE\$E	40.9	4.0	5.8		4.2		11.6	30.6	17.4	3.9	202	18.2	2:2	8	22.2	61.8	7.7	8.6		159	19.4	ຮ	2380	• •	I	55.2	159	217	28.6	147	648	218			e31	407
MUISƏNƏAM	18500	23200	11200		7970		13400	20100	18400	10500	7900	7250	6680	<b>B130</b>	12500	4380	14500	B230		4960	6060	15200	23500	5590	0808	1.60	6 <u>6</u> 20	14200	7110	4280	9580	7040	12500	10100	26800	107001
רבעס	- 5	-	1.6	-	2.5	Ż	1	1.8	1.7	1	18.1	-	14	1.4		7.4		1.2	6.4	6.8		-12		5.4	<b>46.7</b>	<u> </u>			2.3	13.6	7.6				20	
NORI	117	46.E	202		349	_	585	322	416	1360	53300	1640	1 <u>6</u> 2	1630	2190	9820	294	1590		1750	3680	9740	<u>8</u> 10	4790	9 2	12400	14400	6610	12700	6270	22500	9810	135000	432000	<u>8</u>	97500
СОРРЕВ	8	0.59	0.59	4.4	3.4	5.5	0.59	10.2	1.B	2.7	19.2		5,1	0.59	5.6	22.4	6.4	12.2	31.7	35.3	5.2	8.9	23.4		~			5.6	27.2	44.1	19,4	20.2	47.7	135		42.5
COBALT	0.41	0.41	0.47		0.71		2.1	0.78	1.1	0.89	15.2	2.2	0.72	0.73	1.4	2.1	1.3	0.89		2	0.64	2.†	18.7	2	7.9	2.7	11.8	2.1	1.2	6.3	13,	6	42	ŝ	2	53.3
снвоміли, тотац	100	1.7	2.7	5.9	3.3	2.8	8	2.4	1.7	4.6	35.1	3.8	2.5	4.6	Ľ,	~	4	9	2	11.2	G	11.7	20.3	8.7	12.7	2	18.9	6.4	18.5	50.5	9.7	9.5	74.6	219	5.8	48.8
CALCIUM	43500	48400	29200		15200		26900	45900	31300	22300	15700	15100	13800	15600	25300	9030	28200	16500		28100	13500	29500	20083	12600	818	23600	13300	40600	14200	32400	17900	14500	24700	16700	132000	20022
MUIMQAD	0.15	0.15	0.15	0.15	E.†	0.15	1.8	0.15	0.15	0.15	0.43	0.28	0.19	0.18	0.56	7 7	0.18	0.69		50.6	ន	0.68	0.81	2	-	9.9	4	0.8	0.86	9.6	2.1	11,9	0.96	D, j	άOI	
MULTYYE	0.05	0.05	0.09	0.1	0.09	0.05	0.09	0.05	0.05	0.05	2	0.25	0.17		0.23	0.27	0.12		0.31		5				2			0.31	0.06	0.38	0.38	0,4	4.5	14.9		3.5
พบเสลย	57.5	88	67.9		58		113	227	68.7	84.4	101	124	79.2		112	62.3	146	64.5		63.6								686		243	135	96	203	R	51	122
	च लं	2.4	3.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	15.7	3.3	2.4		3.2	5.8	2.4	6 8 1	ম	ন ম	5	4.4	28.8	Ч.	4			2.4	2.4	2.4	4.3	2.4	33.4	10	15 N	24.3
YNOMITNA	5	24	24	2.4	2.4	2.4	2.4	2.4	2	2	3.8	2.4	2.4	2.4	24	24	2.4	2,4	2.4	8		2.4	S 0	2	2	2	8.8 1	5.4	2.4	3.9	2.4	2.4		4	7	7.9
млиімита	112	8.2	60.2		127		158	176	30.4	1760	12700	306	39.3	426	754	2210	101	129		553	223	1470	15500	5	677	1450	2320	2150	1750	4660	2860	2650	23300	105000	420	13300
(UTN) үлівіфія	1.93	2.5	5.15	6.2	8.25	8.8	9.55	11	16.5	21.3	25.5	25.5	26.7	26.2	28	8	39.2	60.7	80.2	ន	8	103.5	109.5	113.8	115	123.4	2 2	176	186	193	194.5	199.2	999		666	666
Well	MW16	MW52	MW23	MW44	MW21	MW40	MW47	MW50	MW53	MW51	MW05	MW35	MW49	MW48	01WM	MW33	MW30	MW46	MW42	MW3B	MW34	MW45	MW02	MW19	MW39	MW31	MW12	MW37	MW54	MW36	MW25	MW11	MW03	MW04	MW06	MW07

TABLE 3-4.XLS

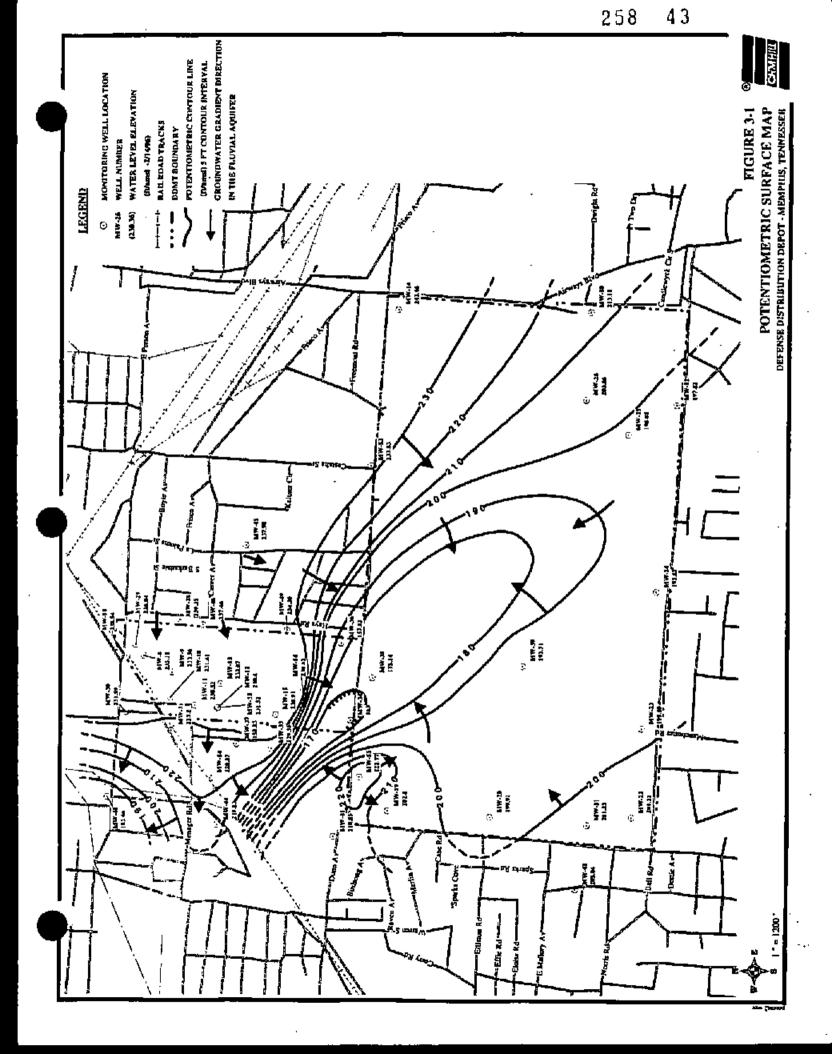


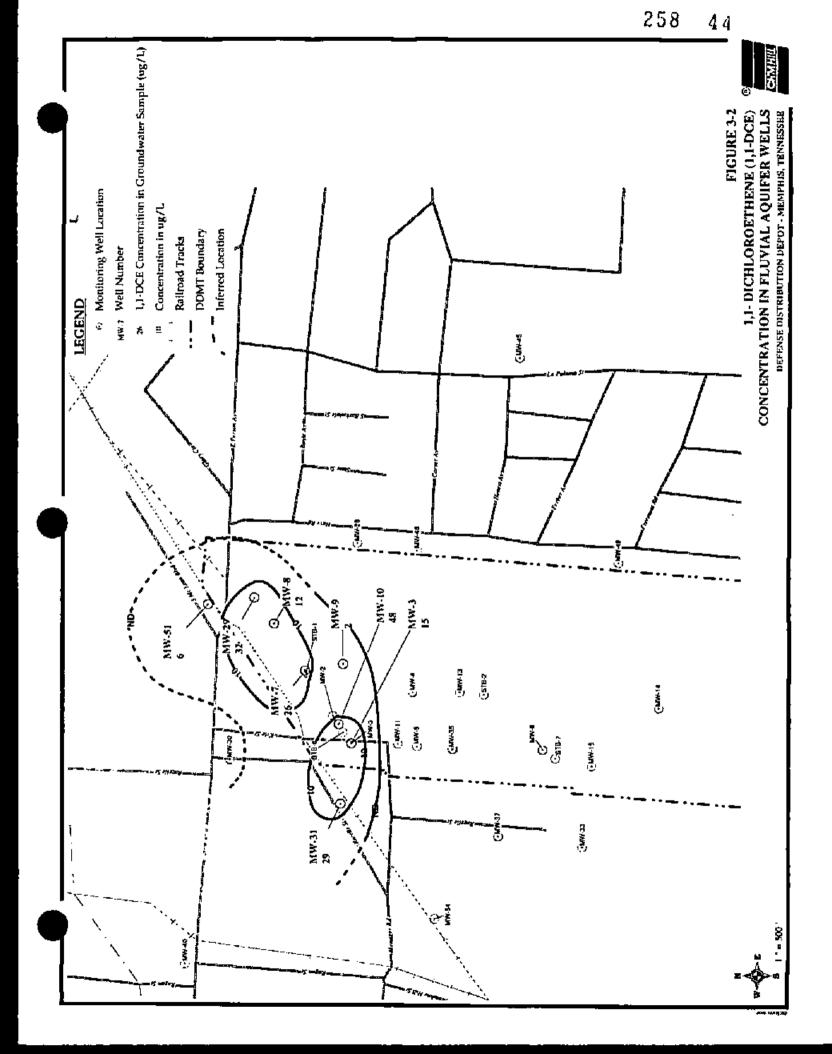
•

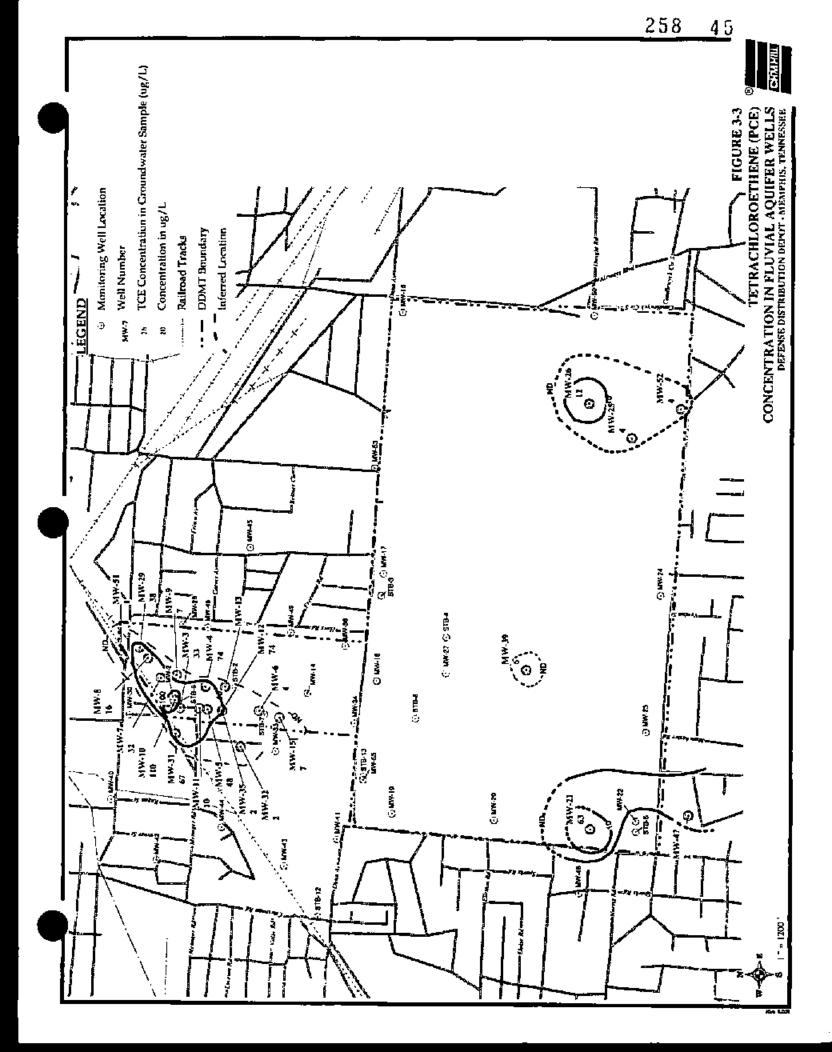
# TABLE 3-4 CORRELATION BETWEEN TURBIDITY AND CONCENTRATION DEFENSE DISTRBUTION DEPOT-MEMPHIS, TENNESSEE

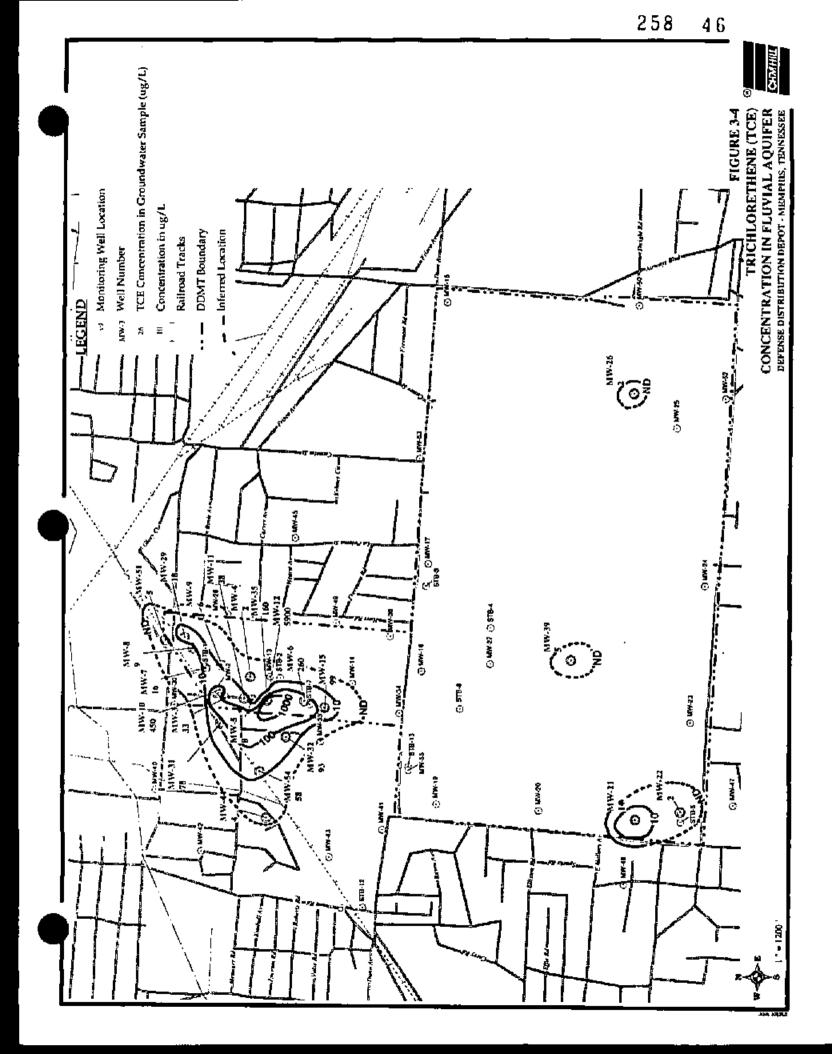
·····			10			-	-			-				ο.
SNIZ	71.7	58.9	41.6	43.3	100	25.3	35.3	174	58.5	28.8	;	8	16.7	6. 19. 19.
MUIGANAV	68.3	32.2	25.3	28.1	84.3	15.6	10.2	148	66.1	7.4	119	ä	-	1.6
МЛЦЈАНТ	2.3	23	2.3	2.3	2.3	2.5	2.3	2.3	2.3	4	2.3	2.3	2.3	2.6
Wnidos	26900	18000	18100	10700	12500	14000	40300	19100	30300	13700	28500	20600	19500	14900
	0.57 2	0.57 1	0.57 1	0.57	0.57	0.57	0.57 4	0.57 1	0.57 3	0.57	0.57 2	0.57 2	0.57 1	0.57
WOINETES	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
MUISSATO9	5780	3790	1290	2490	4160	4380	5410	10000	3520	1710	5320	5930	3480	1290
	24.3	1.3	9.9	7.6	20.1	7.8	6.2	32.2	9.1	6.2	32.6	12	5.7	3.6
<b>У В И С В В В В В В В В В В В В В В В В В</b>	0.18	0.08	0.11	0.1	0.17	0.08	0.06	0.63	0.13	0.11	0.16	0.65	0.06	0.06
BSBNADNAM	491	341	177	419	415	96.5	48.1	1270	568	580	325	2240	8	
MUISENDAM	0162	19000	6240	6890	6740	7340	13300	7190	10500	6900	13800	15400	9560	4210
LEAO	21.7	24.7	12.5	13.1	23	7.1	7	34.5	10.2	3.3	26.8	13.8	1.3	5.1
иоя	67100	25200	25200	23800	70600	8670	14600	313000	47100	3200	100000	26400	871	734
COPPER	55.5	30.8	34.6	10.1	47	18.3	47.4	72.3	38.7	15.9	67	1.2	10.4	-
TJABOD	23.9	1	13.2	17.6	IE	2.8	2.4	108	14.7	35.8	16	₽ 20	1.3	1.3
IATOT ,MUIMORHO	47.4	24.4	15.1	18.2	43.5	8.2	16.8	67.8	13.6	3.5	74.5	16.6	3.3	4.1
WNIDTAD	17400	36100	12300	18700	14200	20100	25800	13800	21700	19000	29100	68300	29200	12000
MUIMQAD	1.6	15.2	4	5.6	0.71	11.9	6.9	1.8	0.37	11.8	3.7	2,8	2.4	0.88
W01777838	1.8	0.63	0.82	0.54	8	0.31	0.2	11.4	1.2	0.41	2.2	0.7	6	0,14
MUIAA8	149	115	71.5	170	133	82	107	252	264	151	EOS	242	151	68.5
SINERAL	16.7	80	9.0	01	25	6.0	2.4	10.8	5'8	2.8	33.8	10.1	2.4	2.4
YNOMITNA	2.9	<u> </u>	4	2.4	3.9	24	4.6	5.2	2.4	2.4	3.7	<b>T</b>	2.4	2.4
	21600	6400	5640	5240	11300	4230	2460	39600	5190	118	27900	5680	88.1	339
(UTN) չքիններաT	666	666	666	666	666	666	666	666	666	666	666	666		
Mel Mel	MW08	60MM	MW13	MW14	MW15	MW20	MW22	MW24	MW26	MW28	MW29	MW32	MW41	MW55

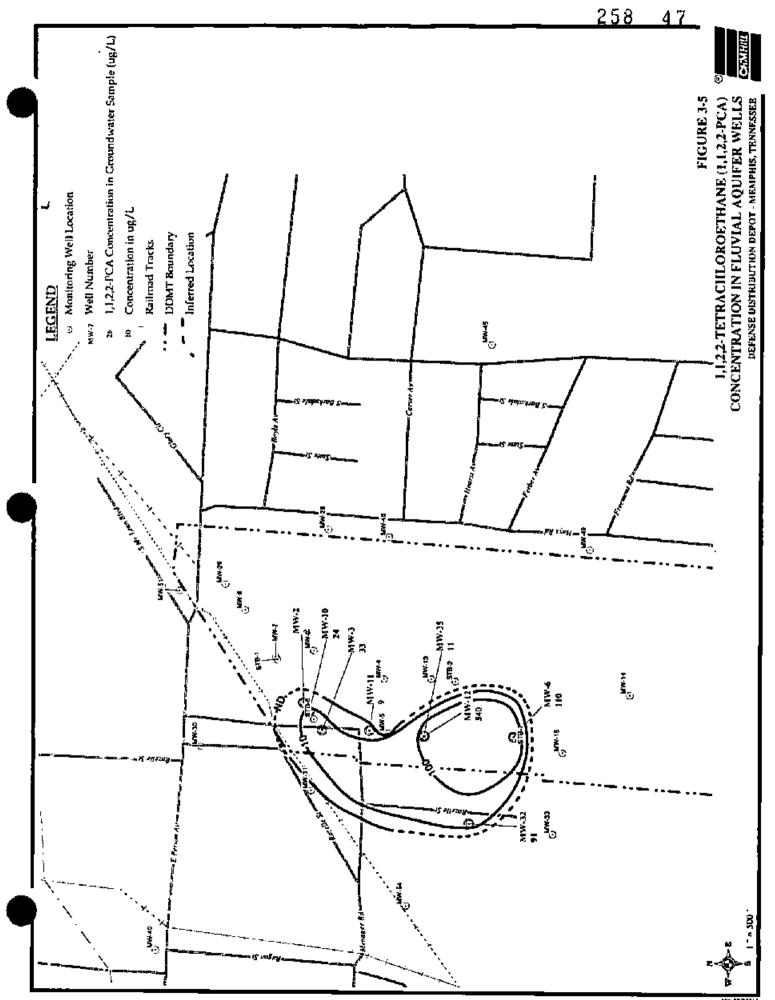
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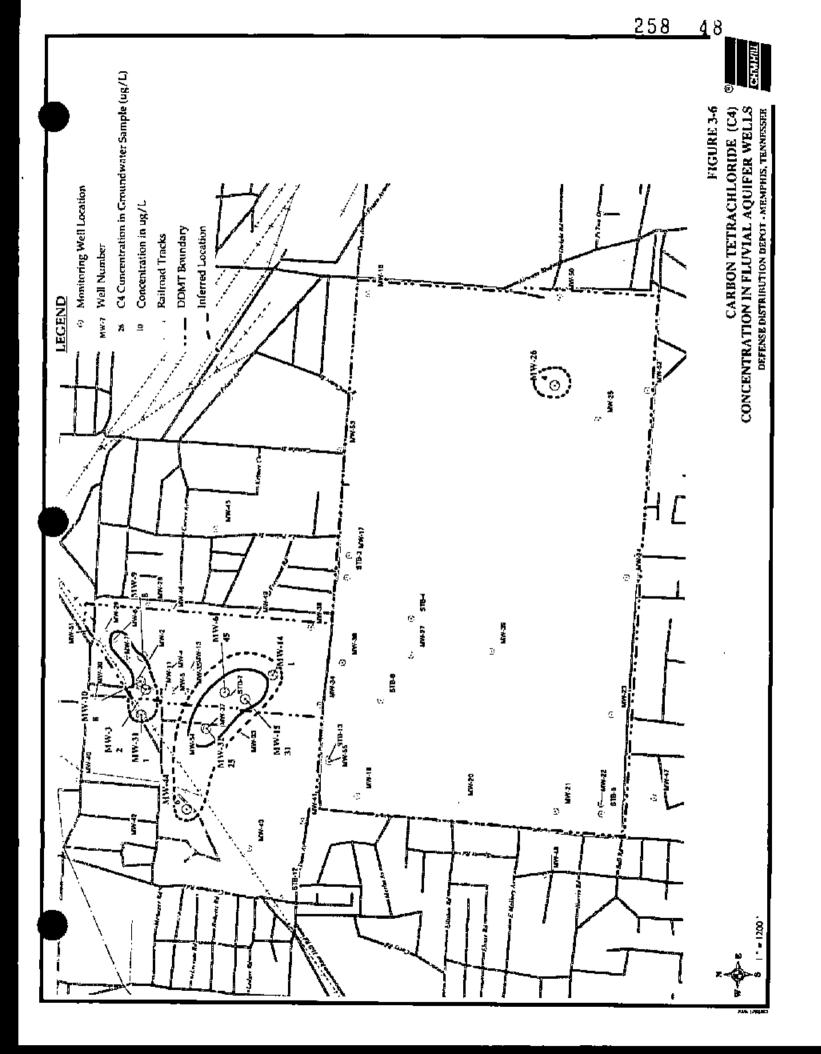


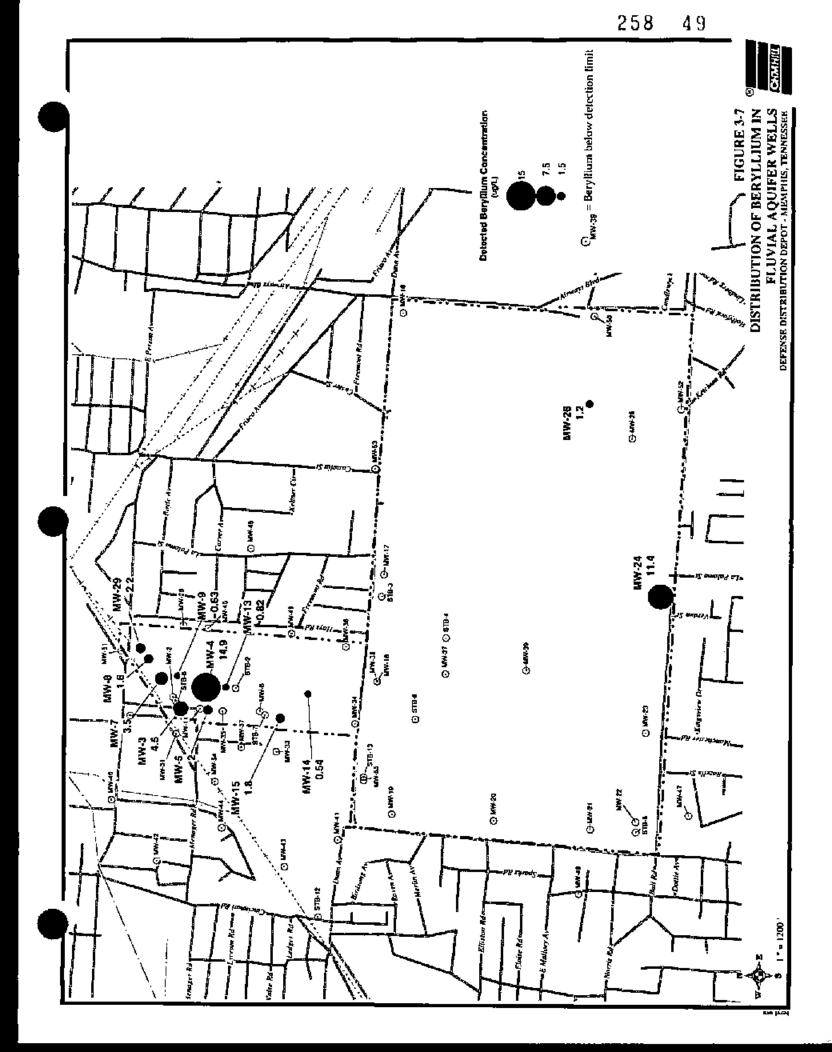


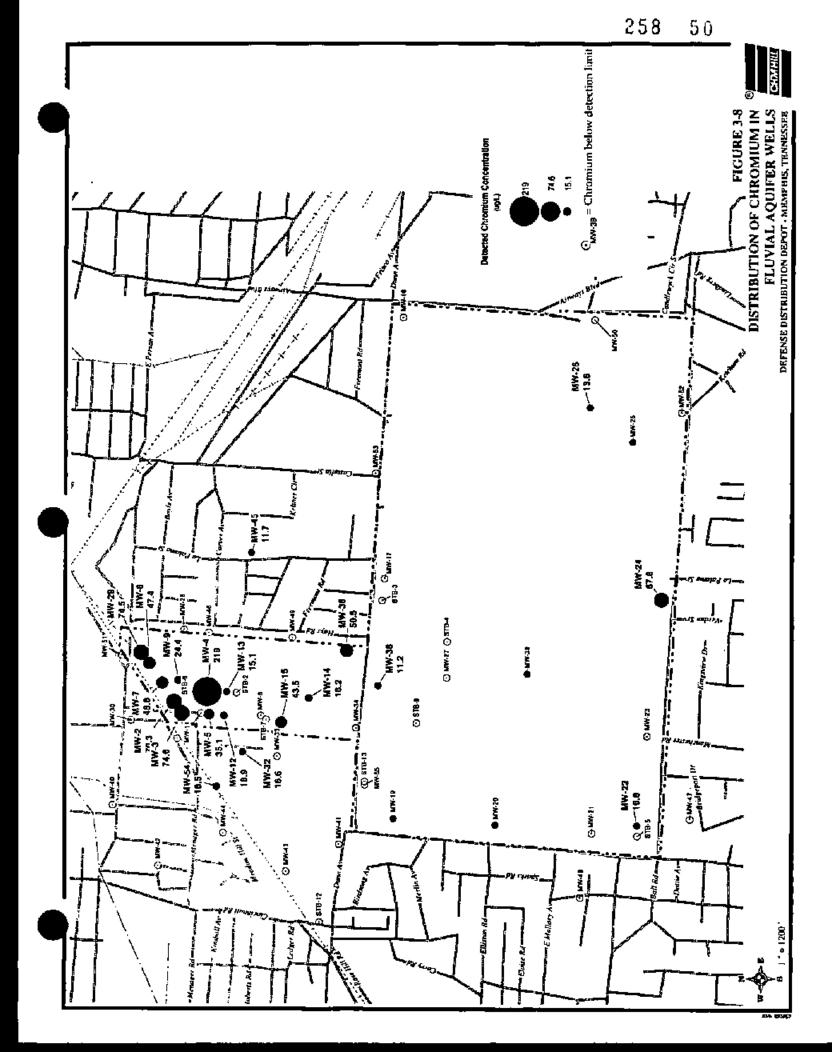


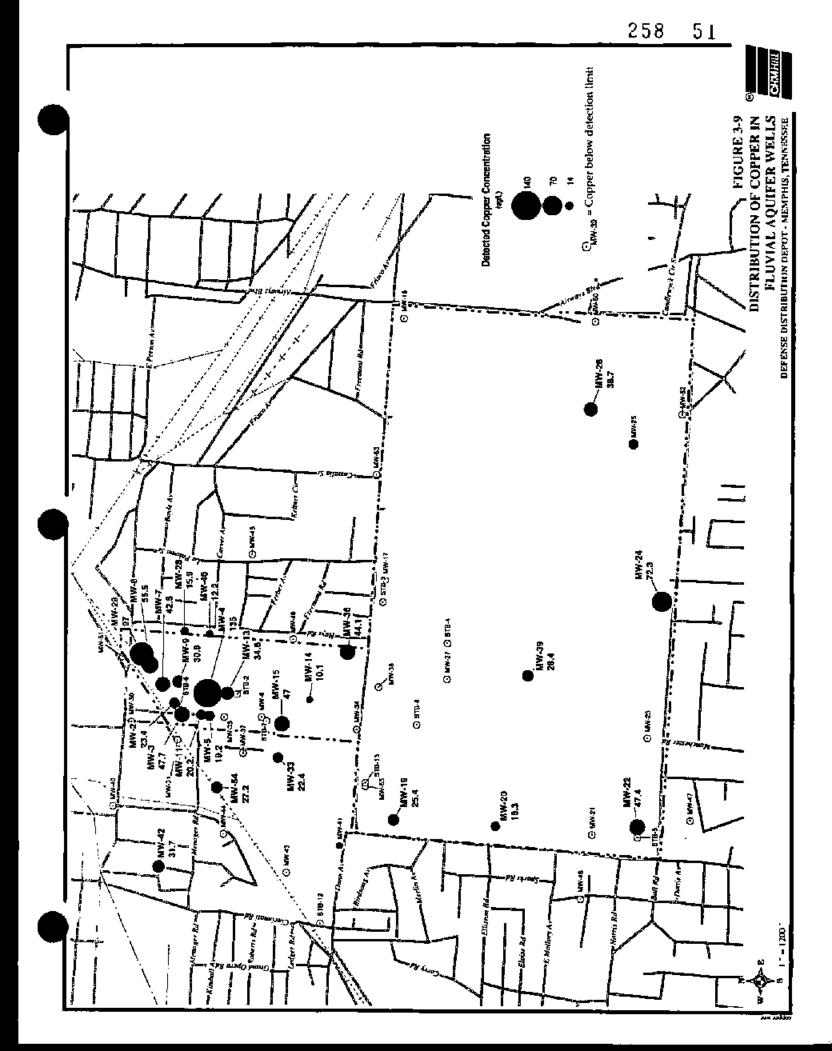


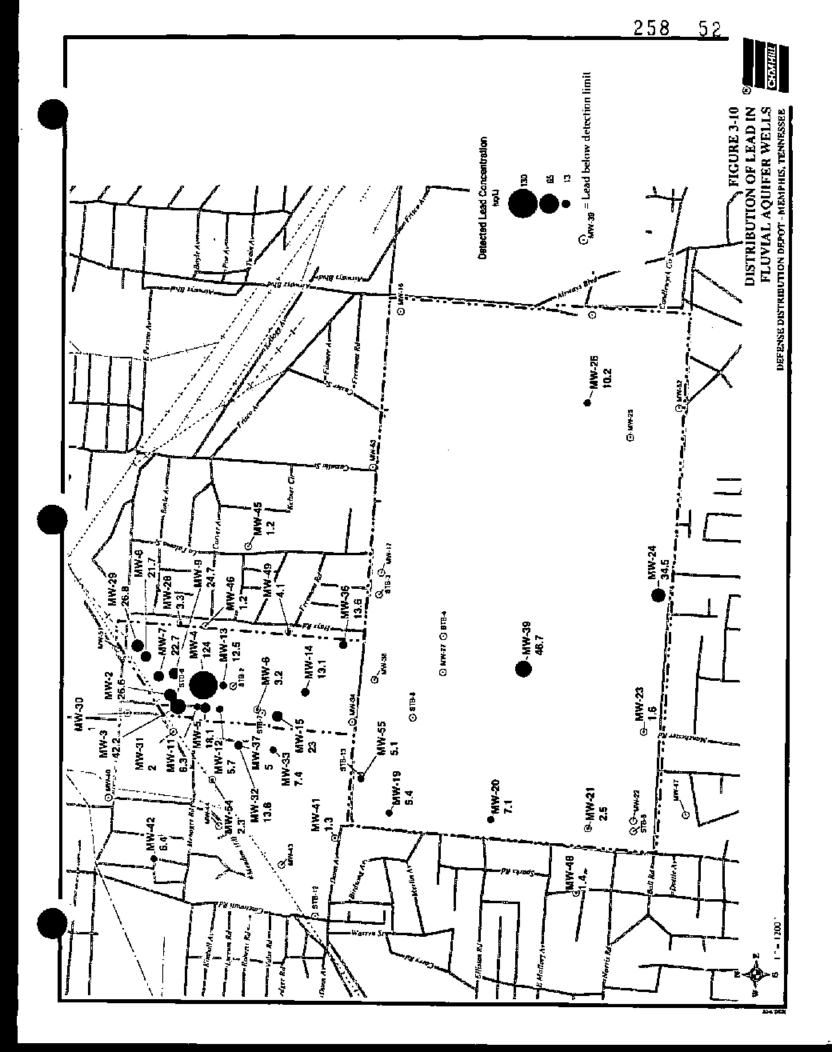
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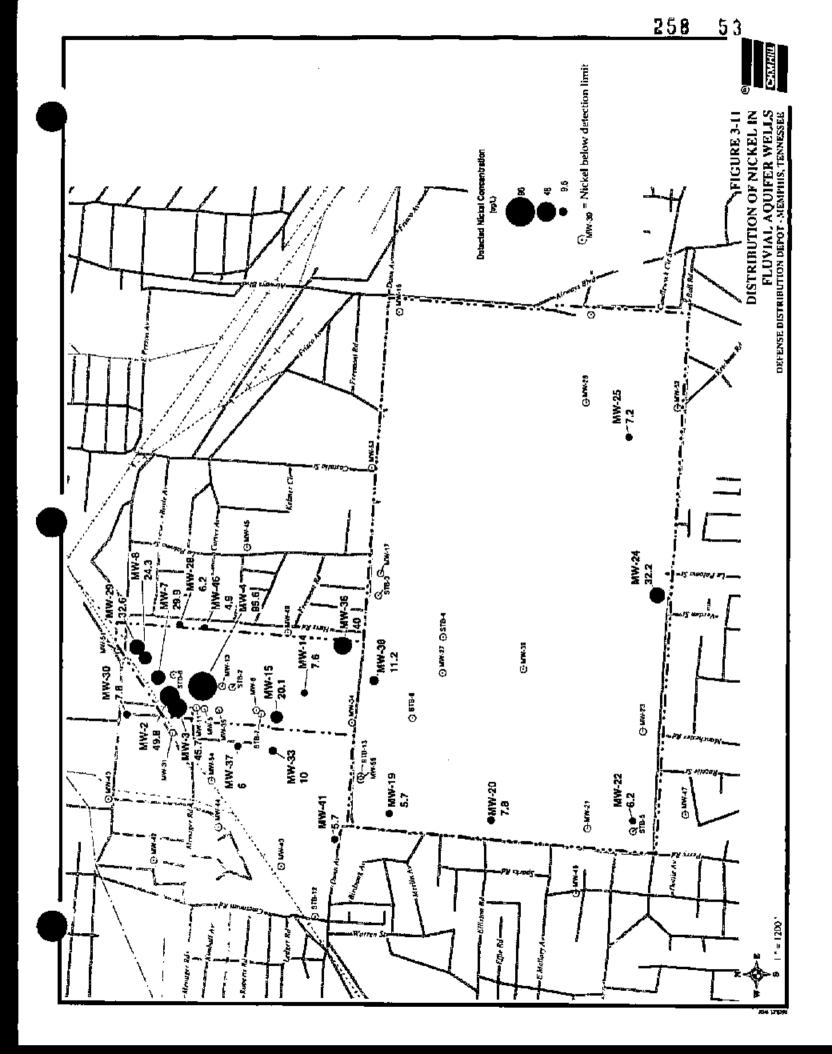


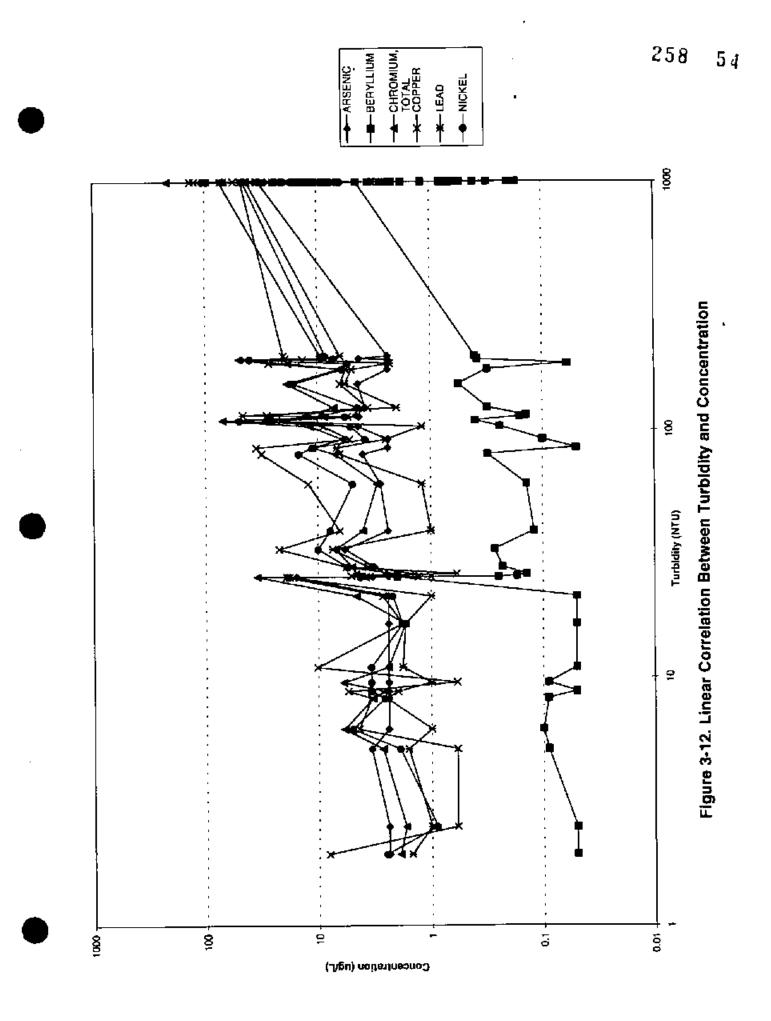


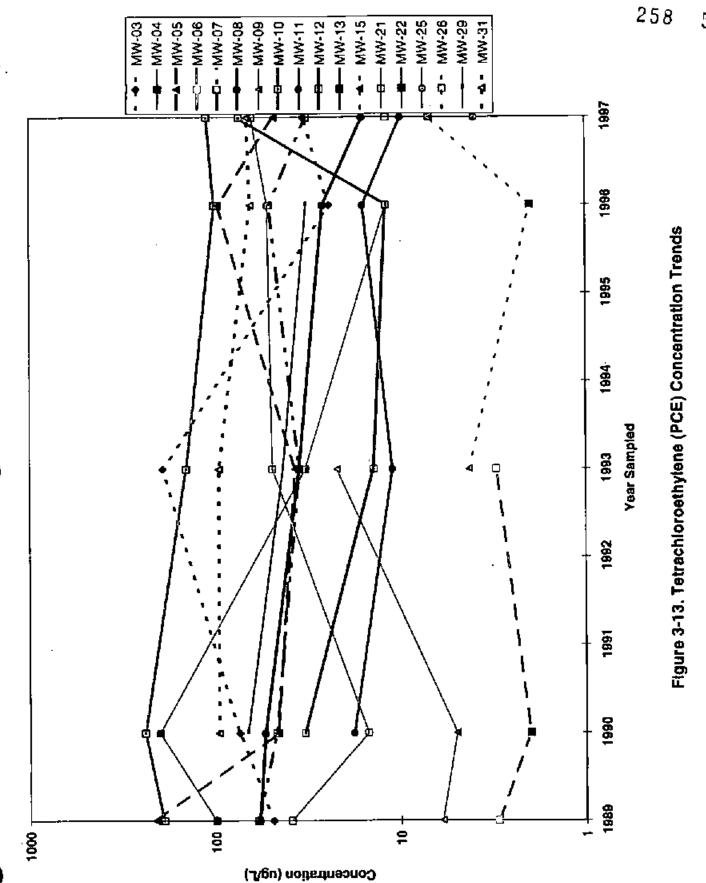


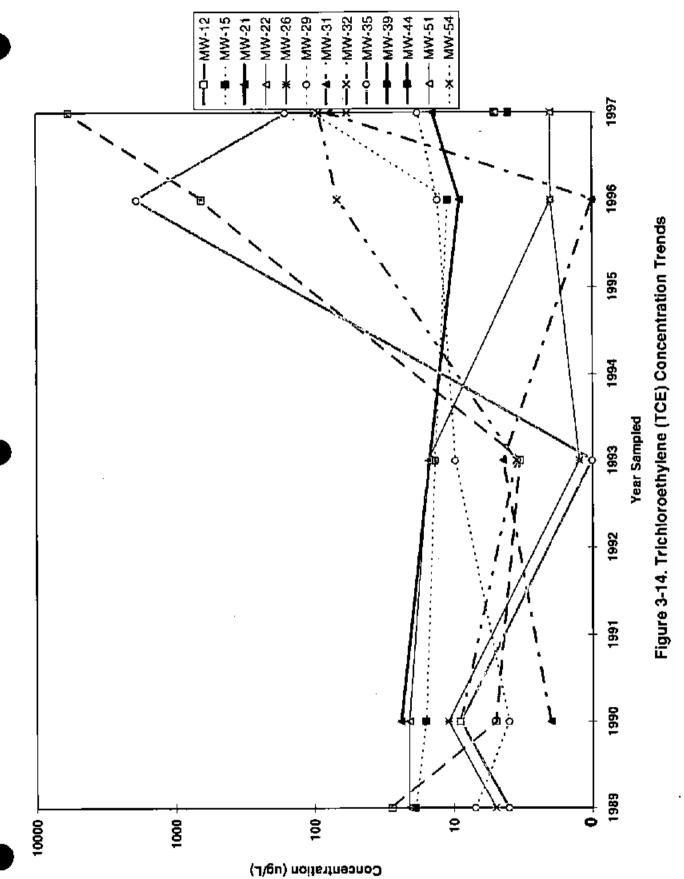


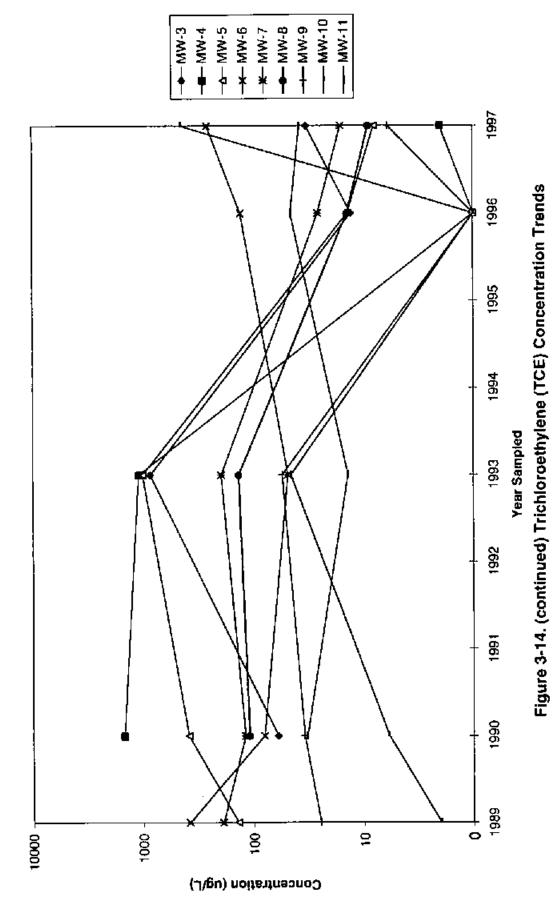


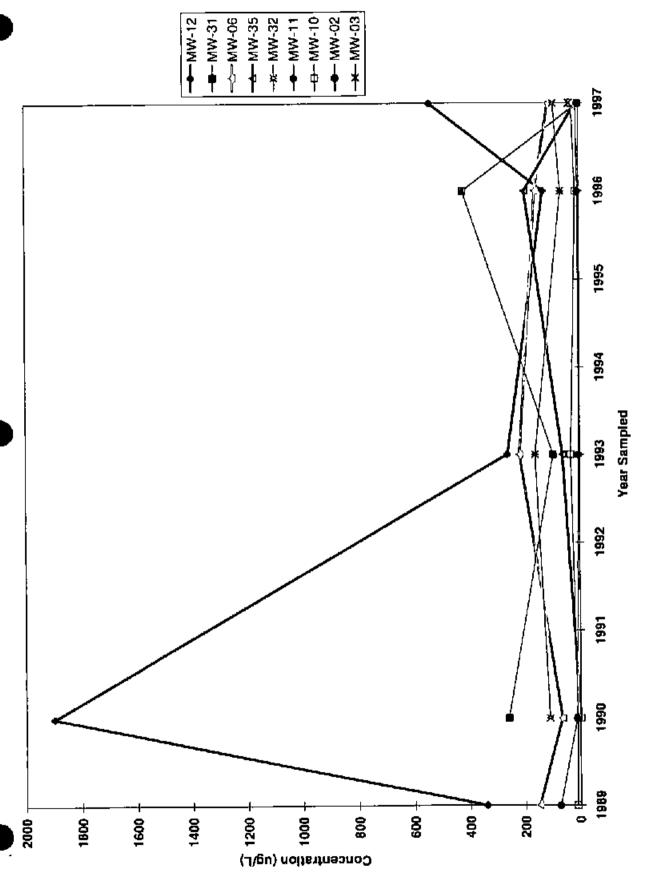




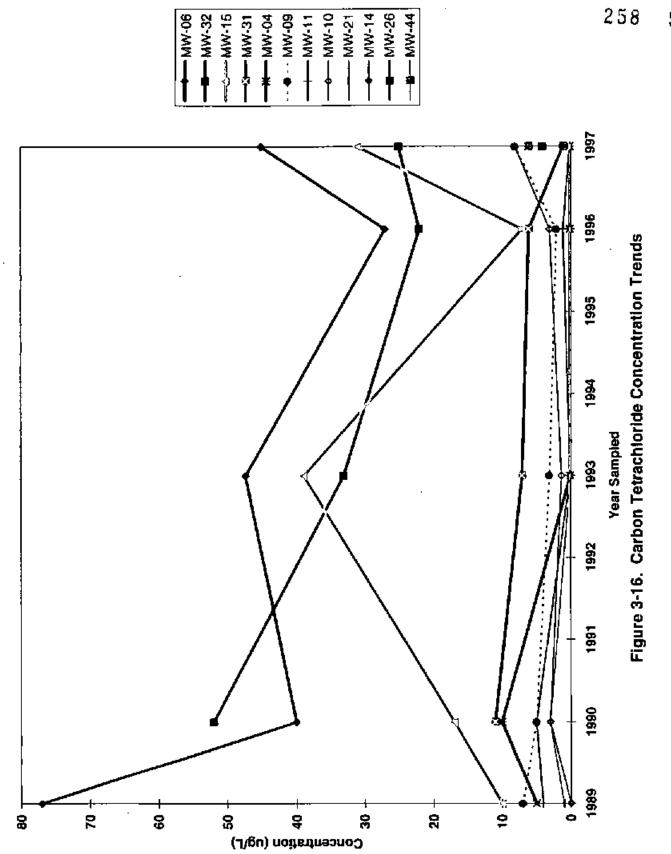












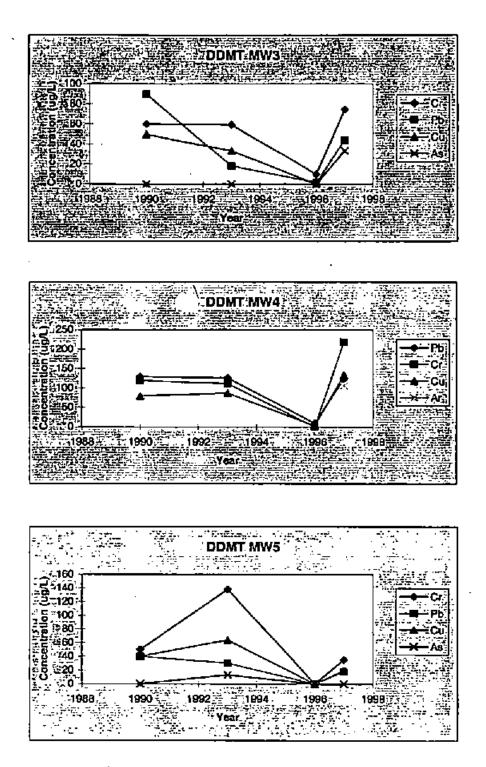


Figure 3.17 Temporal Trends in Metals Concentrations

3 14 CDDMT MW6 100 (280 (171 it the s 5 Ci Concentration - 60 = P|-440 55 120 5 19887 5 19887 1990 A9 19927 1994 1996 7 1998 Year Ministry 1996 .... Year DDMT MW7 ie na r<del>e y</del>i 400 тр Д :300 200 Concentration ----Pb 100 Cř 8 8 9 9 9 9 19 -Cΰ 1892 1994 Year 1988 1990 ÷ स्वत<u>्त्र प्रा</u>त्तन्त्र व्याप्त प्र - 74 DDMT MW8 ÷ 2<sup>-</sup> 2 E\_4 . 7 300 Concentration (ug/L) 250 Pb 200 Cr 150 Cù 100 :50 -0 1988 1992 1994 Year 1990 1896 X 1998 ť -12 ۰. . Ţ,

Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

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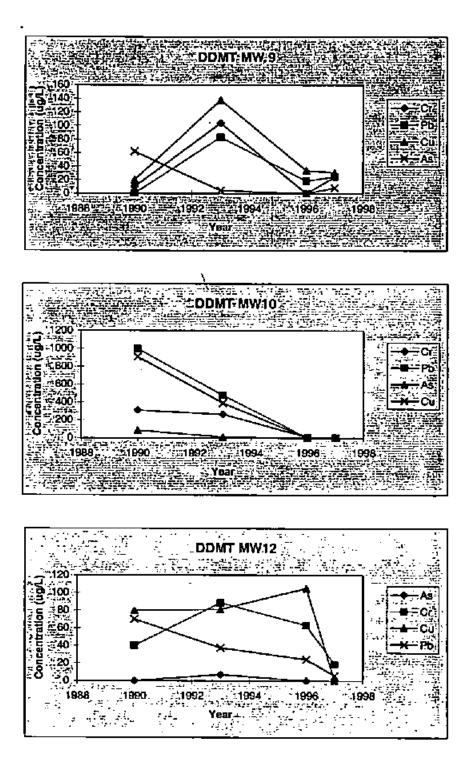


Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

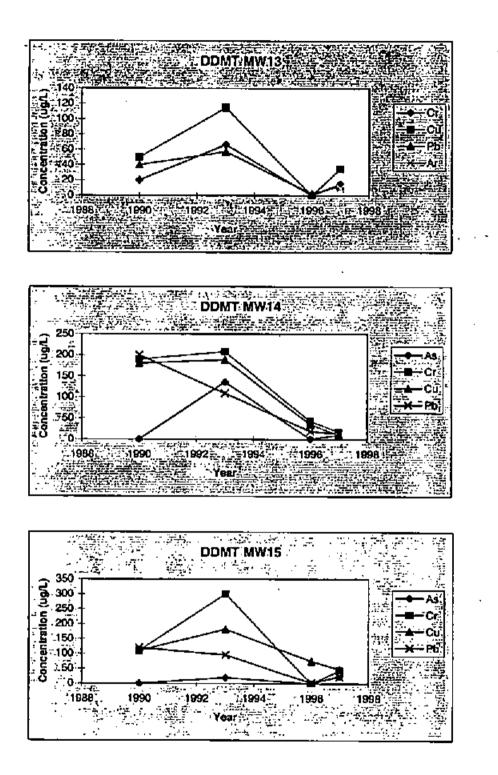


Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

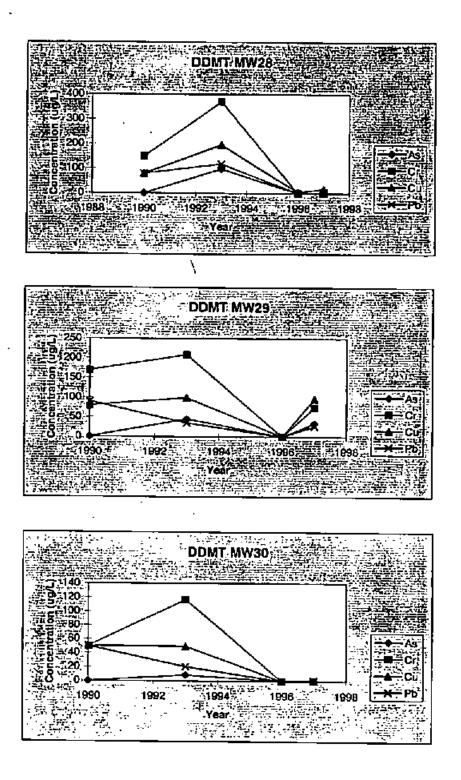


Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

DDMT MW31 X. .... 7. -1250 3 200 1 61 160 1 61 160 1 61 100 , 50 1 0 1992 (1990) 1994 11998 2 4 11998 -Year 15 P II 1.1 Ballen in Children and η**π**, -DDMT:MW32 ٠. بين 44 Č Cu 0, 0, 1990, 1992, 1994 1988, 1990, 1992, 1994 Year 1996 РЬ 1998 нų, . --\* 1 DDMT MW33 -ندن ک 9 1998 \_ .... ÷., 1892 -1894 ÷.,. -1 1990 :1996 it yi y -Year - 25 ..... ÷..... .

Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

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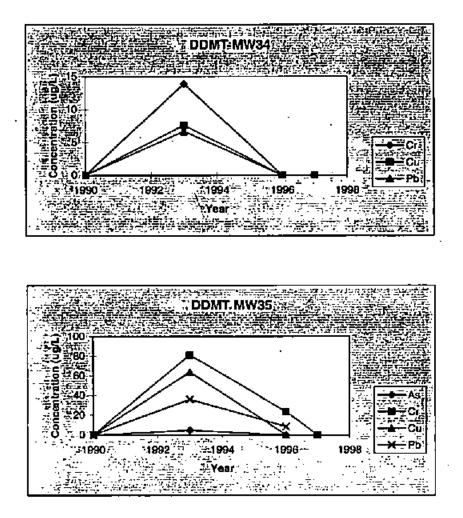


Figure 3.17 Temporal Trends in Metals Concentrations (Continued)

Based on the groundwater data collected during June 1997, the following conclusions have been drawn:

- Test borings and well installations west of Dunn Field have provided a general configuration of the base of the Fluvial Aquifer showing the trend of the previously identified depression in the clay surface (Law, 1990).
- In June 1997, groundwater elevations underlying Dunn Field were on average 2.18 feet higher and groundwater elevations underlying the main installation were 0.68 foot lower than observed in the February 1996 sampling event. The maximum difference in water elevation was observed in MW-37, where the water level increased 5.19 feet between February 1996 and June 1997. Based on the variability of the water levels and the hydraulic gradients measured in the Fluvial Aquifer, the hydraulic conditions appear to be highly variable and will be important in understanding the chemical trends observed in this aquifer system.
- In the northern portion of the site, the hydraulic gradients of the Fluvial Aquifer are consistent with the surface gradients of the basal clay confining unit: the lower hydrologic boundary of the water-table aquifer system.
- Groundwater flow on the eastern portion of the study area is west to southwest, where it converges along the northwest-southeast trending paleochannel feature. Groundwater flow on the western portion of the study area is east to northeast, where it converges along the paleochannel feature. There is groundwater movement away from the site (northwest flow) along the northwestern boundary of the study area. In general, there is a potentiometric low centered around MW-38, and the groundwater hydraulic gradients indicate convergence of flow to this low point.
- Overall, the trend analysis comparing the February 1996 and June 1997 sampling data indicates a moderate increase in organic and inorganic constituents detected in the Fluvial Aquifer. However, the levels observed in the 1997 data are lower than those reported in 1993, indicating temporal trends in the chemical conditions observed at the site.
- The 1997 data confirmed a detection of 2 ug/L of 1,1 dichloroethane in MW-40, a
  degradation product of DCE which had not previously been reported at this location.
  This low-level detection may be due to a change in chemical mass flux and plume
  geometry, an indication that the groundwater plume may no longer be bound by MW40 in this direction. Obviously, additional quarterly groundwater data will be required
  to fully assess the fate and transport of chemicals in this area.
- TCE and PCE were not detected in MW-34 during the 1997 sampling event. Both of these compounds were detected in this well in the February 1996 sampling event.
- TCE was not detected in MW-47 or MW-53 in the June 1997 sampling event; however, it
  was detected in both of these wells in the February 1996 sampling event. Similarly,

1,1,2,2 PCA was not detected during the 1997 sampling event, but was detected at 420 ug/L in the February 1996 sampling event.

- The 1997 sampling data confirmed the presence of carbon tetrachloride in MW-08, MW-14, and MW-44, whereas this compound was not detected in the 1996 sampling event.
- Based on the 1997 sampling data, geometries of the organic and inorganic contaminant plumes have changed compared to the 1996 plumes. To fully assess weather these observed changes represent temporal variations, additional quarterly groundwater sampling data are required.
- The most significant change in groundwater chemistry occurred in MW-12, where the concentration of TCE increased from 650 ug/L to 5,900 ug/L between February 1996 and June 1997. During this same period, the concentrations of TCE decreased in MW-31 and MW-35 by 1,100 ug/L and 1,900 ug/L, respectively.
- Additional quarterly water level and groundwater data will be required to assess the extent of chemical migration and the potential for chemical migration due to the temporal variations in groundwater chemistry and hydraulic conditions in the Fluvial Aquifer.
- Inorganic constituents of concern (beryllium, lead, arsenic, chromium, copper, and nickel) are elevated at Dunn Field and the northwestern portion of the main installation area. Off-site concentrations are below detection or significantly reduced. Overall, the inorganic concentrations are slightly elevated compared to the 1996 data, as suggested by temporal trend analysis. These trends may be temporal; however, their exact nature cannot be determined until additional groundwater quality data are collected.
- All metal samples reported herein were unfiltered and therefore sensitive to sampling techniques that influenced the amount of sediment in the sample. Use of low-flow down-hole pumps may have resulted in lower sediment concentrations than those of previously collected samples. The turbidity analysis and correlation presented in Section 3.2.3 indicates that there is a positive correlation between sample turbidity and metals concentration.

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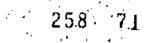
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# TAB

Appendices



Appendix A

QA/QC Summary

# Data Quality Evaluation Section-DDMT Task 23 Sampling Effort - June 1997

The purpose of the data quality evaluation process is to assess the effect of the overall analytical process on the usability of the data. The two major categories of data evaluation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance with the method requirements; either the laboratory did, or did not, analyze the samples within the limits of the analytical method. Evaluation of matrix interferences is more subtle and involves the analysis of several areas of results including surrogate spike recoveries, matrix spike recoveries, and duplicate sample results.

## A.1 Introduction

Before the analytical results were released by the laboratory, both the sample and QC data were carefully reviewed to verify sample identity, instrument calibration, detection limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. Additionally, the QC data were reduced and the resulting data were reviewed to ascertain whether they were within the laboratory-defined limits for accuracy and precision. Any non-conforming data were discussed in the data package cover letter and case narrative.

Data package deliverables for DDMT Task 23 were similar to an EPA Level II deliverable. Areas not reviewed included calibrations, instrument tuning, internal standard areas, interference check standards, serial dilutions, postspike recoveries, and calibration blanks. These areas were not reviewed because they are not a part of the Level II data package deliverable. Areas of review included holding time compliance, spiked sample results, surrogate recoveries, field and method blank results, and field duplicate precision results. The data packages were reviewed by the project chemists using applicable sections of the process outlined in the Environmental Protection Agency (EPA) guidance document Functional Guidelines for Evaluating Data. The data review and validation process is independent of the laboratory's checks and focuses on the usability of the data to support the project data interpretation and decision-making processes. A data review worksheet was completed for each data package.

Samples that were not within the acceptance limits were indicated with a qualifying flag, which consists of a single or double-letter abbreviation that indicates a QC nonconformance with the data. Although the qualifying flags originate during the data review and validation process, they are included in the data summary tables so that the data will not be used indiscriminately. The following flags were used in this text:

 U Undetected. Analyte was analyzed for but not detected above the method detection limit.

- UJ Detection limit estimated. Analyte was analyzed for but qualified as not detected. The result is estimated.
- J Estimated. The analyte was present, but the reported value may not be accurate or precise.
- R Rejected. The data are unusable. (NOTE: Analyte/compound may or may not be present.)

Numerical sample results that are greater than the method detection limit (MDL) for organic (or the instrument detection limit (IDL) for inorganics) but less than the contract required detection limit (CRDL) are qualified as estimated, "J", as required by the EPA Functional Guidelines to Evaluating Data Quality.

Once the data review and validation process were completed, the entire data set was reviewed in aggregate for chemical compound frequencies of detection, dilution factors that might affect data usability, and patterns of target compounds distribution. The data set was also evaluated to identify potential data limitations, uncertainties, or both in the analytical results.

## A.2 Potential Field Sampling and Laboratory Contamination

Three types of field blank samples were used to monitor potential contamination introduced during field sampling, sample handling, and shipping activities.

- Trip Blank: A sample of ASTM Type II water that is prepared in the laboratory prior to the sampling event. The water is stored in 40 mL VOC sample containers, is not opened in the field, and accompanies the field samples back to the laboratory for VOC analysis. This blank is used to monitor the potential for contamination during sample shipment. One trip blank was included in each cooler that contained samples for VOC analysis (a total of six were collected).
- Equipment Rinsate Blank: A sample of the target-free water used for the final rinse during equipment decontamination. This blank sample is collected by rinsing a piece of equipment after decontamination and is analyzed for the same analytical parameters as the corresponding samples. This blank monitors potential contamination caused by incomplete equipment decontamination. Two equipment rinsate blank s were collected and analyzed during this field effort.
- Field Blank: A sample of the water used to decontaminate equipment, which is collected directly from the decontamination water source. This blank monitors contamination that may be introduced from the water used for decontamination. One field blank sample was collected from the source of decontamination water and was analyzed for the same parameters as the corresponding samples.

Laboratory method blanks were also analyzed. A laboratory method blank is ASTM Type II water that is treated as a sample in that it undergoes the same preparation and analytical process as the corresponding field samples. Method blanks are used to monitor laboratory performance and contamination introduced during the analytical procedure. One method

blank was analyzed for every twenty samples, or one per analytical batch, whichever was more frequent.

According to the EPA Functional Guidelines, concentrations of common contaminants detected in samples at less than 10 times the maximum concentration in the blanks can be attributed to field sampling and laboratory contamination rather than environmental contamination from site activities. Common contaminants include acetone, methylene chloride, and phthalates. Concentrations of less common contaminants (and elemental analytes) are multiplied by five rather than ten as required by the Functional Guidelines. Blank results were applied globally to the field sample data. Results reported at concentrations less than the maximum blank value multiplied by EPA's ten (or five) times rule were qualified as not detected, "U". Summarized in Table 1 are the target compounds and analytes detected in the field and laboratory QC blanks.

Acetone and methylene chloride are used as extraction solvents in the laboratory and are common laboratory contaminants. Additionally, acetone and 2-butanone are often contaminants associated with equipment rinsate solvents, such as methanol. All field samples were qualified as not detected for all three of these compounds. Thus, acetone, 2butanone, and methylene chloride can most probably be attributed to field sampling and laboratory contamination.

Phthalates, the most common of which is bis(2-ethylhexyl)phthalate (BEHP), are used as plasticizers and are often introduced into samples during handling. The field samplers wear tatex gloves while collecting samples. Additionally, laboratory extractions personnel wear gloves while preparing samples. These latex gloves are coated with plasticizers such as BEHP to facilitate release of the gloves from the skin. Therefore, BEHP and di-n-butylphthalate can be attributed to field sampling and laboratory contamination. Thus, all field sample results were qualified as not detected due to field sampling and laboratory contamination rather than environmental conditions.

In many instances, metals were detected in the field and laboratory blanks at concentrations at, or near, the IDL. Results reported at less than five times the IDL should be considered as false positives due to instrument noise and background shifts. Several elements were reported at concentrations above five times the IDL and are ubiquitous. These elements include calcium, copper, iron, manganese, nickel, and zinc. Zinc is used in the galvanization of steel and as a catalyst in many chemical and/or manufacturing processes. Copper, nickel, manganese, and iron are common elements used alone or as alloys in the construction of pipes, tubing, sinks, faucets, laboratory ventilation hoods, and many other tools or equipment used on a day to day basis. Calcium is a common cation for most "salts" and is frequently found at this level in acids used for sample digestion. Sample values found to be less than five times the maximum blank contaminant level were qualified as not detected.

## A.3 Matrix Effects

### A.3.1 Surrogate Spike Recovery

Surrogate spike compounds were added to every sample analyzed for the organic parameters, including field and laboratory blanks as well as field environmental samples.

Surrogate spike compounds are the structural homologs of target compounds and are therefore expected to behave in a similar manner during analysis.

Surrogate spike recoveries were used to monitor both laboratory performance and matrix interferences. Surrogate spike recoveries from field and laboratory blanks were used to evaluate laboratory performance because the field blanks represent an "ideal" sample matrix. Surrogate spike recoveries for field samples were used to evaluate the potential for matrix interferences. For field samples, when the surrogate spike recoveries fell outside the method target acceptance windows, the samples were re-analyzed. If the surrogate spike recovery was still outside the acceptance window for the re-analyzed sample, then the sample results were qualified as affected by matrix interferences.

The VOC surrogate recoveries were clustered within a window of about 93 to 113 percent, which is within the method target acceptance limits. A greater variation (and hence broader range of recoveries) for surrogate spike recoveries was observed for the semivolatile (SVOC) organic analyses, but this is typical of this method and is reflected by the broader method target acceptance limits. The SVOC recoveries ranged within 25 to 99 percent, also within method control limits. These results indicate that the specific sample matrix did not interfere with the analytical process or the final numerical sample result.

#### A.3.2 Matrix Spike Recoveries

For inorganic matrix spikes, three aliquots of a single sample were analyzed: one native sample, one native duplicate, and one sample spiked with target elements. Spike recovery is used to evaluate potential matrix interferences as well as accuracy. Precision is evaluated by the comparison between the native sample and native duplicate results for each target analyte. However, the Level II deliverable does not include laboratory duplicate results. Therefore, laboratory precision cannot be evaluated for these data. Three aliquots of a single sample are also analyzed for organic compounds, utilizing one native and two spiked aliquots. Unlike the surrogate spike compounds, organic matrix spike compounds are found on the method target compound list. Spike recovery is used to evaluate potential matrix interferences as well as accuracy. The duplicate spike results (MS/MSD) are compared to evaluate precision.

Samples are not qualified for organic methods based upon MS/MSD results alone. All MS/MSD recoveries, with the exception of pentachlorophenol in one sample, met method criteria for precision and accuracy. Acid surrogate recoveries associated with the pentachlorophenol MS/MSD exception were within criteria. Thus, no qualifiers were applied to the data based upon organic MS/MSD results. All metallic matrix spike recoveries met control limit criteria. These data indicate that the specific sample matrix did not influence the overall analytical process or the final numerical sample result.

### A.4. Field Duplicate Sample Results

Approximately one duplicate field sample was collected for every ten field samples. Both the native and duplicate samples were analyzed for the same parameters. Precision results for water samples outside the 20 percent relative percent difference (RPD) control limit for waters are summarized in Table 2. The majority of these outliers are associated with the metals. The higher RPD values suggest some heterogeneity of the matrix and may be

attributed to suspended or settleable solids differences between the samples. Organic values were well within criteria for almost all samples. Data is not qualified based upon field duplicate precision.

# A.5. Sample Results for Metals Near the Instrument Detection Limit (IDL)

The samples were analyzed for the EPA CLP TAL list of metals. As stated above, concentrations of metals near the IDL were reported for many of the target metals.

The IDL is the constituent concentration that produces a signal greater than five times the signal/noise ratio of the instrument and is a calculated value rather than an experimentally demonstrated value; therefore, sample results at, or near, the IDL may be caused by instrument noise or low level background shifts rather than a true analyte signal. The sample results were reported in terms of the EPA CLP CRDL. Sample results that were above the IDL, but less than the CRDL, were appended with a "J" qualifier, as an estimated value. The CRDL is an EPA established value and is not associated with the IDL statistically. Accuracy and precision for these methods increase as values approach ten times the IDL.

### A.6 PARCCs

Precision-defined as the agreement between duplicate results, and was estimated by comparing duplicate matrix spike recoveries and field duplicate sample results. Agreement between matrix spike recoveries was less than 20 percent RPD. In general, the RPDs between duplicate field sample results for organic compounds were less than 20 percent for water samples, indicating that the sample matrix did not interfere with the overall analytical process. However, field duplicate precision for metals analytes indicated some heterogeneity.

Accuracy-a measure of the agreement between an experimental determination and the true value of the parameter being measured. For the organic analyses, each of the samples was spiked with a surrogate compound, and for inorganic analyses each sample was spiked with a known reference material before digestion. Each of these approaches provides a measure of the matrix effects on the analytical accuracy. More than 95 percent of the spike recoveries were within the method acceptance limits; therefore, there was no evidence of significant matrix interferences which would bias the data high or low.

Representativeness—a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness was demonstrated by providing full descriptions in the project scoping documents of the sampling techniques and the rationale used for selecting sampling locations.

Completeness-the percentage of measurements that are judged to be valid compared to the total number of measurements made. None of the data (other than reextractions or

dilutions) were rejected during the data quality evaluation process; therefore, the goal of 95 percent usable data was met.

Comparability-another qualitative measure designed to express the confidence with which one data set may be compared to another. Factors which affect comparability are: sample collection and handling techniques, sample matrix type, and analytical method. Comparability is limited by the other PARCC parameters because data sets can be compared with confidence only when precision and accuracy are known. Data from this investigation are comparable with other data collected at the site because only EPA methods were used to analyze the sample and Level 2 QC data are available to support the quality of the data.

### **B.7 Summary and Conclusions**

Conclusions of the data quality evaluation process include:

- The laboratory is assumed to have analyzed the samples according to the EPA methods stated in the work plan.
- Concentrations of acetone, methylene chloride, phthalates (including BEHP, dibutylphthalate), and 2-butanone can be attributed to field sampling and laboratory contamination rather than environmental contamination.
- Sample results for metals above the IDL but less than five to ten times the IDL may be attributed to instrument noise and not site-related activities.
- Sample results for organics above the MDL but less than the CRDL should be considered as uncertain but indicative of the presence of that compound at an estimated concentration.
- MS/MSD precision and accuracy results indicate that the specific sample matrix did not interfere with the analytical process.
- Field duplicate sample results for metals indicate some heterogeneity in the matrix.

None of the analytical data (other than dilutions or reextractions) were rejected during the data review and validation process. The data can be used in the project decision-making process without further qualification.

### Table 1 - Maximum Contaminant Level Reported in Laboratory and Field Blanks

Contaminant	Units	Highest Concentration	Detection Limit	Source
2-BUTANONE	UG/L	8	10	ERB
ACETONE	UG/L	48	10	ERB
ARSENIC	UG/L	3.68	2.35	Lab Blank
BARIUM	ŲG/L	0.83	0.16	Field Blank
BERYLUUM	UĞ/L	0.18	0.046	ERB
DE(2-ETHYLHEXYL) PHIMALATE	UG/L	5	10	ERB
CADMIUM	UG/L	0.42	0,15	Fleid Blan
CALCIUM	UG/L	125	8	ERB
CHROMIUM. TOTAL	UG/L	2.85	0.793	Lab Blank
COBALT	UG/L	0.87	0.41	Lab Blan)
COPPER	UGA	3	0.59	ERB
DI-n-BUTYL PHTHALATE	UG/L	4	10	Lab Blan
IRON	UG/L	36.5	1.8	ERB
MAGNESIUM	UG/L	12.9	4.3	ERB
MANGANESE	UG/L	2.2	0.063	ER8
METHYLENE CHLORIDE	UG/L	2	10	Trip Blank
NICKEL	UG/L	4.1	0.44	ERB
SODIUM	UG/L	134	112	ERB
THALLIUM	UG/L	2.8	2.3	Field Blan
ZINC	UG/L	6.91	0.528	Lab Bian

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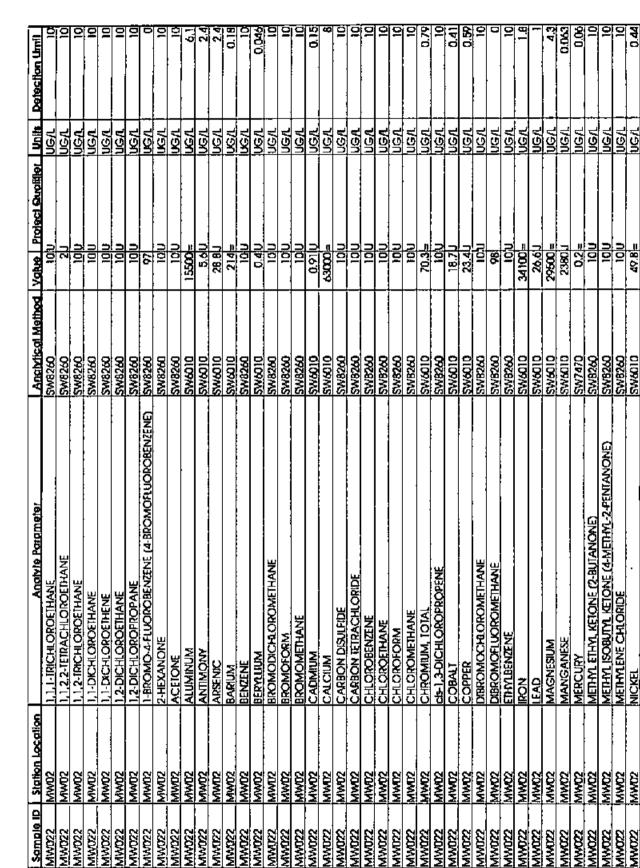
Sample ID MW422				Units	Result		RPD
	MW422DUP	SW6010	CADMIUM	UG/L	1.3	13.9	165.8%
		5W6010	COPPER	UG/L	31.7	13.3	61.8%
MW392	MW392DUP	SW6010	IRON	UG/L	2210	7330	107.3%
		SW6010	CHROMIUM, TOTAL	UG/L	12.7	41.9	107.0%
		SW6010	NICKEL	UG/L	<b>9</b> .1	28.6	103.4%
	•	5W6010	ALUMINUM	UG/L	977	2770	95.7%
		5W6010	MANGANESE	UGA	189	4)1	74.0%
		SW6010	ZINC	UG/L	68.9	130	<b>61.4%</b>
		5W6010	BARIUM	UG/L	79	129	48,1%
		SW6010	LEAD	UG/L	46.7	60.8	26.2%
MW382	MW382DUP	SW6010	LEAD	UGA	6.8	19.5	96.6%
		SW6010	IRON	UG/L	1750	4050	79.3%
		SW6010	ALUMINUM	ŰGΛ	653	1500	78.7%
		SW6010	CHROMIUM, TOTAL	UGA	11.2	25.6	78.3%
		SW6010	BARUM	UGA	63.6	124	54,4%
		SW6010	NICKEL	UG/L	11.2	19.9	55.9%
		SW6010	COPPER	UG/L	35.3	50.5	35.4%
		SW6010	ZINC	UG/L	91 	119	26.7%
		SW6010	MANGANESE	UG/L	159	19B	21.6%
MW362	MW362DUP	SW6010	COPPER	UG/L	44.1	26	51.6%
		50000	ALUMINUM	UG/L	4660	3370	32.1%
MW352	MW352DUP	SW8260	1.1.2.2-TETRACHLOROETHANE	UG/L	11	14	24.0%
		5W8260	1,2-DICHLOROETHENE (TOTAL)	UG/L	11	14	24.0%
		SW6010	ALUMINUM	UG/L	306	243	23.0%
		5W8260	TRICHLOROETHYLENE	UG/L	160	200	22.2%
MW142	MW142DUP	SW6010	POTASSIUM	UG/L	2490	1660	40.0%

# Appendix B

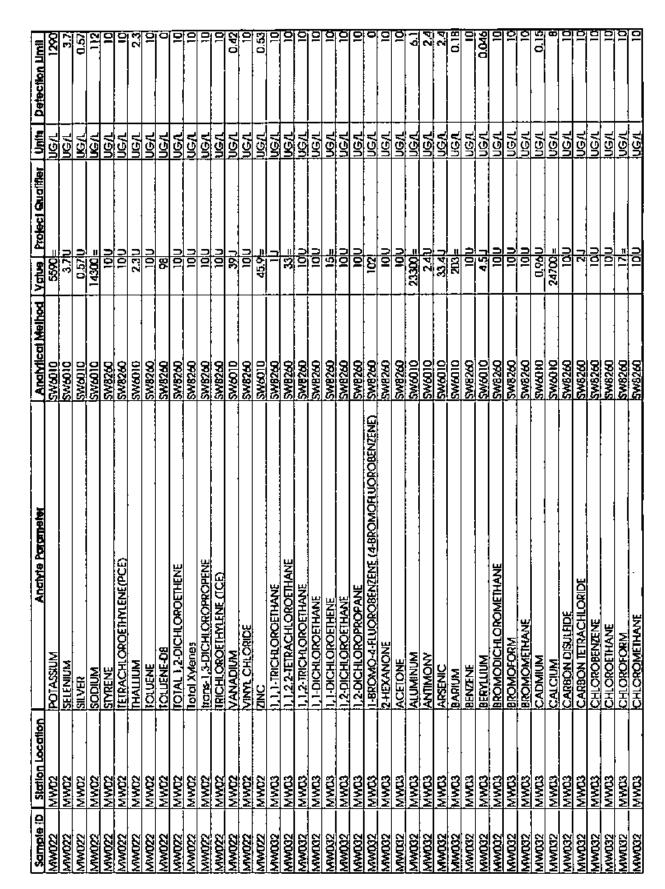
## Analytical Data Summary

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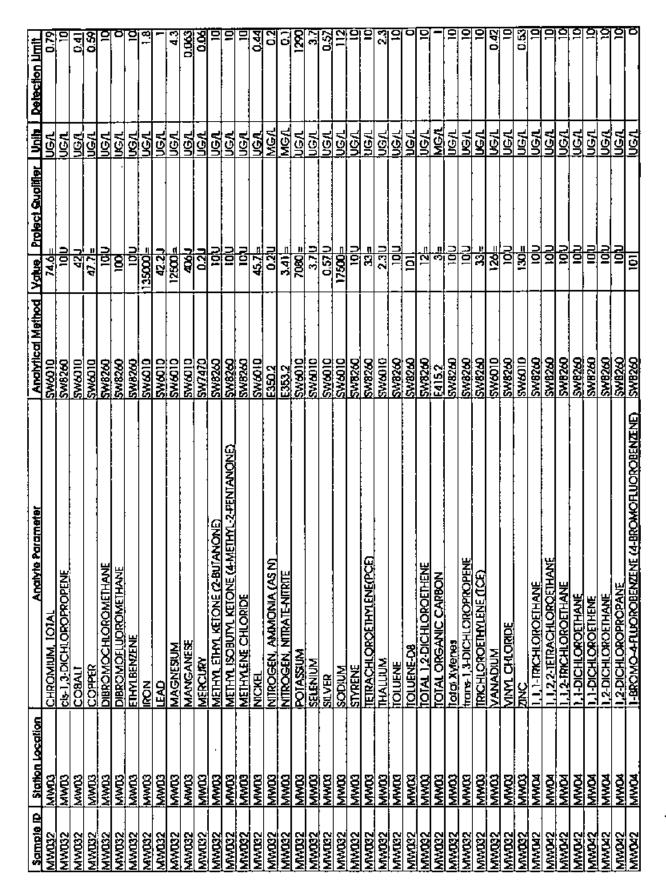
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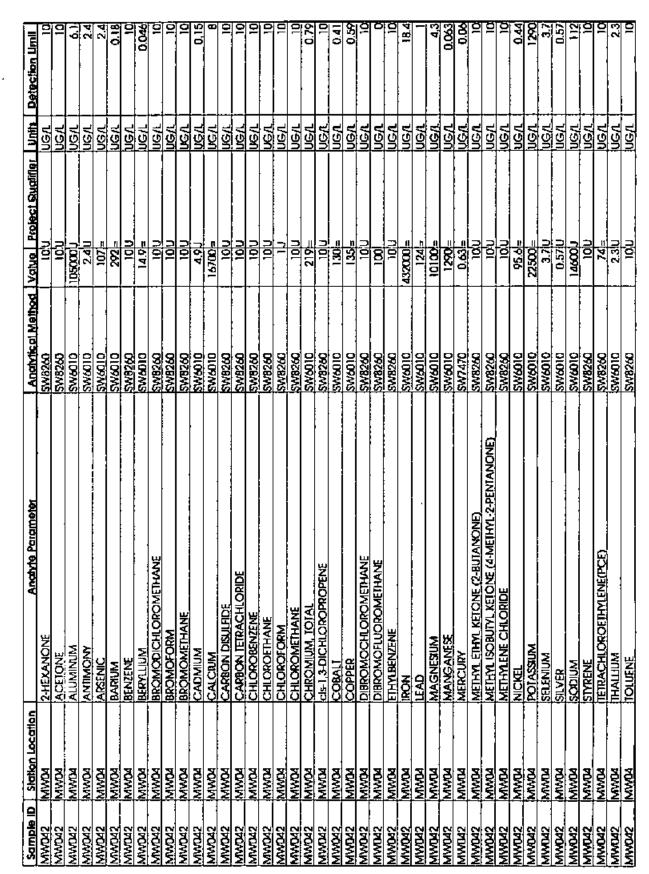


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	WD4 WD4 WD2 WD2 WD2 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5	L 1,2-DICHLOROETHENE Xyteres Xyteres -1,3-DICHLOROPROPENE -1,3-DICHLOROPROPENE -1,1-OROETHANE ADIUM L CHLOROETHANE -TRICHLOROETHANE	SW8260 SW8260 SW8260 SW8260 SW8260 SW8260		nGA UGA	
	WD4 WD2 WD2 WD2 WD2 WD2 WD2 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5	Xyteras -1.3-DXCHLOROPROPENE -1.1-DXCHLOROPROPENE ADIUM CALOROETHANE -TRICHLORO	SW8260 SW8260 SW8260 SW6010 SW8260		NGA UGA	292
	W04 W04 W04 W05 W05 W05 W05 W05 W05 W05 W05 W05 W05	-1.3-DXCHLOROPROPENE -L.CRLOROFINT ENE (TCE) ADIUM L.CRLORDETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE	SW8260 SW8260 SW6010 SW8260			22
	WD4 WD2 WD2 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5 WD5	-IL CRLOETHYLENE (TCE) ADIUM L CALORIDE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE -TRICHLOROBENZENE	SW8260 SW8260 SW8260	22		5
	W02 W02 W05 W05 W05 W05 W05 W05 W05 W05 W05 W05	adium L Chrorie - Trichloroethane - Trichloroethane - Trichloroethane - Trichloroethane - Trichloroethane - Trichloroethane - Trichloroethane - Sichloroethane - Sichloroethane - Sichloroethane - Sichloroethane	SW6010 SW8260	21	NG/L	2
	WD4 W05 W05 W05 W05 W05 W05 W05 W05 W05 W05	L CHLORIDE -RICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE ICHLOROETHANE ICHLOROETHANE -TRICHLOROBENZENE -TRICHLOROBENZENE ICHLOROBENZENE ICHLOROBENZENE ICHLOROBENZENE ICHLOROBENZENE ICHLOROBENZENE ICHLOROBENZENE	SW6260	298=	UGA	0.42
	WOX WOS WOS WOS WOS WOS WOS WOS WOS WOS WOS	-TRICHLOROETHANE -TRICHLOROETHANE -TRICHLOROETHANE ICCHLOROETHANE ICCHLOROETHENE -TRICHLOROBENZENE -TRICHLOROBENZENE ICCHLOROBENZENE ICCHLOROBENZENE ICCHLOROBENZENE ICCHLOROBENZENE ICCHLOROBENZENE ICCHLOROBENZENE		Ulat	1/9/I	ē
	WOS WOS WOS WOS WOS WOS WOS WOS WOS WOS	HANE E	SW6010	301=	UC/L	0.53
	WOG WOG WOG WOG WOG WOG WOG WOG WOG WOG	HANE	SW8260	101	UGAL	2
	wos mos mos mos mos mos mos mos mos mos m		SW8260	10(0	UG/L	D
	MUS MOS MOS MOS MOS MOS MAS MAS		SW8260	ומיו	UGA	0
	wos myos myos myos myos myos myos mars		SW8260	IQU	NGA	2
	WOS MOS MOS MOS MOS MAS		SW8260	Joi	NGA	0
	WCS IMOS IMOS IMOS IMOS IMOS		SW8270	100	NGA	2
	wcs mcs mcs mcs mcs mcs		SW8270	10 0	uc <i>r</i>	01
	W05 IM05 IM05 IM05 IM05		SW8260	100	UGA.	0
	MO5 MO5 MO5		SW8260	Utor	NG/L	a
	MOS MOS MATS	1/2ENE	SWB270	1010	NG/L	01
	IMU5 IMU5		SW8270	10 0	UGA.	0
	DATE:	NZENE (4-BROMOFLUOROBENZENE)	SW8260	102	nGA -	8
1		2, 2-OXYBIS(1-CHLORO)PROPANE	SW8270		100	0
	MWOS	2,4,5-TRICHLOROPHENOL	SW8270	60 U	10A	8
	MWDS	2,4,6-TRIBROMOPHENOL	SW8270	62	NG/L	0
	MWD5	2,4,6-TRICHLOROPHENOL	SW8270	101	ЧСЛ	01
	MM05	2,4-DICHLOROPHENOL	SW8270	NOI	UG/L	2
	MWD5	2.4-DIMETHMPHENOL	SW8270	101	ICGAL :	
	MW05	2.4-DINITROPHENOL	SW8270	solu	NG/L	50
	MW05	2,4-DINTROTOUENE	SW8270	10 0	NGA	01
	MW05	2,6-DIMIROTOLUENE	SW8270	101	NGA	10
MW062 M	MW05	2-CHLORONAPHIHALENE	5W8270	101	- NGA	2
MW052 M	MW05	2-CHLOROPHENOL	SW8270	101	UCL	0
MW052 M	MW05	2-RUOROBIPHENN	SWB270	2		0
MW052 M	MW05	2-RUOROPHENOL	SW8270	8	1/9/I	ð
	MW05	2-HEXANONE	SW8240	U01	UGA	
	MW05	2-METHYUNAPHTHALENE	SW8270	101	UG/L	01
i	MW05	2-METHYLPHENOL (O-CRESOL)	OV2BWS	10(	UGA.	0
	MW05		SW8270	soju	NGA	3
Γ	MW05	2-NITROPHENOL	SW8270	1001	NGA	Þ
	MM05	3.3'-DICHLOROBENZIDINE	SW8270	2010	hGA	8
	MWD5		SW8270	50U	<u>– IUG/L</u>	99
	MMOS	4,6-DXNITRO-2-METHYLPHENOL	SW8270	5010	ILC/L	8
	MWDS	4-BROMOPHENYL PHENYL ETHER	SW8270	NON	NGA	10
MW062 M	MW05	A-CHLORO-3-METHYLPHENOL	SW8270	utor	ING/L	01

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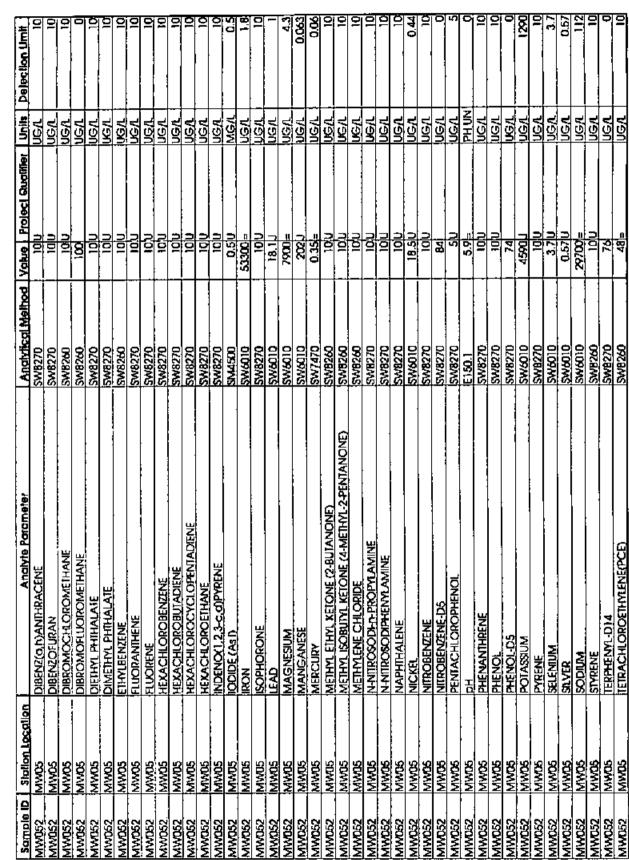
Sample ID	Station Location	Andhria Parameter	Anatytical Method	Vatue Project Qualifier	Unth	Detection Limit
MW052	_	4-CHLOROANLINE	SW8270	nol	цGЛ	10
MW052	MW05	A-CHLOROPHENNL PHENNL ETHER	SW8270		UGA	10
MW052	MW05	4-METHYLPHENOL (p-CRESOL)	SW8270		UG/L	101
MW052	MWD6		SW8270	sch	NG/L	50
MW052	MW05	4-NITROPHENOL	SW8270	soluu	UGA	8
MW052	MW05	ACENAPHTHENE	SW8270			01
MW052	MWDS	ACENAPHTHYLENE	SW8270		JUG/L	10
MW062	MW05	ACETONE	SW8260	100	UG/L	10
MW052	MW05	ALUMINUM	SW6010	12700=	NG/L	6.1
MW052	MWC5	ANTHRACENE	SW8270	101	UG/L	01
MW052	MW05	ANTIMOMY	SW6010	3.8 0	UG/L	2.4
MW052	MW05	ARSENIC	SW6010	15.7 U	NG/L	2.4
MW052	MWD5	BARIUM	0109MS	LI01	UGAL	0.18
MW052	MW05	BENZENE	SW8260	nol	UGЛ	01
MW052	MW05	BENZO(D)ANTHRACENE	SW8270	101	UGA	10
MW052	MWDS	BENZO(a)PYRENE	SW8270	njol	ηGΛ	<u>D</u>
MW052	MW05	BENZO(b)FLUORANTHENE	SW8270	1010	UGA I	ē
MW052	MW05	BENZOX(g, h, i)PERVLENE	SW8270			0
MW052	MW05	BENZOXKJELUORANTHENE	SWB270	1 10 0	luc/L	10
MW052	MW05	BENZM, BUTM, PHITHALATE	SW8270	) Þ01	UG/L	01
MW052	immo5	BERYLLUM	SW6010	20	1/9/	0.046
MW052	MWD5	DISC2-CHLOROETHOXY) METHANE	SWB270	100	UG/L	10
MW052	MW05	DIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SWB270	1010	NG/L	10
MW052	MW05	bis(2-EIHYLHEXYL) PHIHALATE	SW8270	아이	UG/L	01
MW052	MW05	BROMODICHLOROMETHANE	SWB260	101	1/9/	10
MW052	MWD5	IBROMOFORM	SW8260	טוסו	UC/L	01
MW052	MW05	BROMOMETHANE	SW8260	101	ЧGЛ	01
MW052	MW05	CADMIUM	SW6010	0,43U	ING/L	0,15
MWD62	MWU5	CALCIUM	SW6010	15700=	UC/L	B
MW052	MWD5	CARBAZOLE	SW8270		UGA 1	10
MW052	MM05	CARBON DISULADE	SW8260	10 0	- Von	01
MW052	MWD5	CARBON TETRACHLORIDE	SW8260	idu	WGA_	10
MW052	MM05	CHLOROBENZENE	SW8260	100	UGA	10
MWD52	MWD5	CHLOROETHANE	SW8260	100	UGA	10
MW052	MMUS	ICHLOROFORM	SW8260	5,0	UGA	10
MW052	MWDS	<b>ICHLOROMETHANE</b>	SW8260		UGA	10
MW052	IMMOS	CHROMIUM, TOTAL	SW6010	j 35.1⊨	UGA -	0.79
MW052	IMW05	CHRYSENE	SW8270		UG/L	01
MW052	MW05	CI-1, 3-DICHLOROPROPENE	SW8260	IOU	UGA.	10
MW052	RWD5	COBALT	SW6010	15.20	UGAL	0.41
MW062	MM05	COPPER	5W6010	[ 19.2]J	UG/L	0.59
MW052	MMD5	DH-HBUTYL PHTHALATE	SW8270		NGA	10
MW052	IMW05	DHA-OCTMPHTHALATE	SW8270	10,0	UG/L L	01

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MW052	4	IHALLIUM	SW6010		Juen	2.3
MW052	MMD5	TOLUENE	SW8260	1	UG/L	10
MW052	MW05	IOLUENE-DB	SW8260	103	NG/L	0
MW052	MWOS	TOTAL 1, 2-DICHLOROETHENE	SW8260	21	NG/L	0
MW062	MWD5	Iotal Xylenes	SW8260	101	UGA.	0
MW062	MWD5	Indra-1, 3-DICHLOROPROPENE	SW8260	101	UGAL	2
MW062	MWD5	IRICHLOROETHYLENE (ICE)	SW8260	Del 1	UGA	10
MW052	MWDS	NANADIUM	SW6010	49.61	NGA	0.42
MW062	MWD6	MNM CHLORIDE	SW8260		UG/L	10
MW062	MW06	ZINC		57.7 <del> </del>	uGΛ	0.53
MW062	MW06	1,1,)-TRICHLOROETHANE	SW8260	2010	UG/L	20
MW062	MW06		SW8260		ЧGЛ	R
MW062	MW06	1.1.2-TRICHLOROETHANE	SWB260	<u>[</u>	UG/L	8
MW062	MW06	1,1-DICHLOROETHANE	SWB260	2010	NGN	DZ
MW062	MW06	1.1-DICHLOROETHENE	SW8260	20(1	UG/L	8
MW002	MW06	1,24-TRCHLOROBENZENE	SW8270	10/01	UG/L	10
MW062	MWD6	1,2-DICHLOROBENZENE	OZEWS	nijoi I	UG/L	10
MW062	MW06	1,2-DICHLOROETHANE	SW8260	2010	UG/L	8
MW062	MW06	1,2-DICHLOROPROPANE	D9ZBMS	2010	UGA L	8
MW062	MW06	1,3-DICHLOROBENZENE	SW8270	101	UG/L 1	01
MW062	MW06	1,4-DICHLOROBENZENE	SW8270	101	UGA.	9
MW062	MW06	1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE)	SW8260	8	UG/L	0
MW062	MW06	2,2 - OXYBIS( I-CHLORO) PROPANE	SW8270	ומו	UG/L	0
MW062	MW06	2,4,5-TRICHLOROPHENOL	SW8270	50 U	NGA	3
MW062		2,4,6 TRIBROMOPHENOL	SW8270	15	ч У	0
<u>MW062</u>	JMW06	2,4,6-TRICHLOROPHENOL	SW8270	101	1001	9
MW062	MW06	2,4-DICHLOROPHENOL	SW8270	101	τ <sup>2</sup> Ο	01
<u>MW062</u>	MW06	2,4-DIMETHYLPHENOL	SWB270	101	- NGV	10
MW062	MWD6	2,4-DINITROPHENOL	SW8270	50[U	UG/L	5
MW062	MW06	2,4-DINITROTOLUENE	SW8270	101	NGA	01
MW062	MW06	2,6-DINITROTOLUENE	SW8270	U(0)	UG/L	
MW062	MW06	2-CHLORONAPHTHALENE	SW8270	10 <sup>0</sup> 1	NG/L	10
MW/062	MWD6	2-CHLOROPHENOL	SWB270	101	UG/L	Q
MW062	MW06	2-FLUOROBIPHENM	SW8270	8	- NG/I	0
MW062	MWD6	2-FLUOROPHENOL	SW8270	11	nG/L	0
MW062	MW06	2-HEXANONE	SWB260	20\U	ING/L	8
MW062	MW06	2-METHYLNAPHTHALENE	SW8270	101	NG/	0
MW062	MW06	2-METHYLPHENOL (0-CRESOL)	SW8270	10 <mark>1</mark>	nG/L	Ö
IMW062	MWD6	2-NITROAMIENE	SW8270	5010	IIG/L	3
MW062	MW06	2-NITROPHENOL	SW8270	00	ЦĞ	Ō
MW062	MWD6	3,3-DICHLOROBENZIDINE	SW8270	2010	ЦGA	8
MW062	MW06	(J-MITROAMILINE	SW8270	50U	Ч	3
MW062	MW06	4.6-DINITRO-2-METHALPHENOL	SW8270	50U	NGA NGA	50



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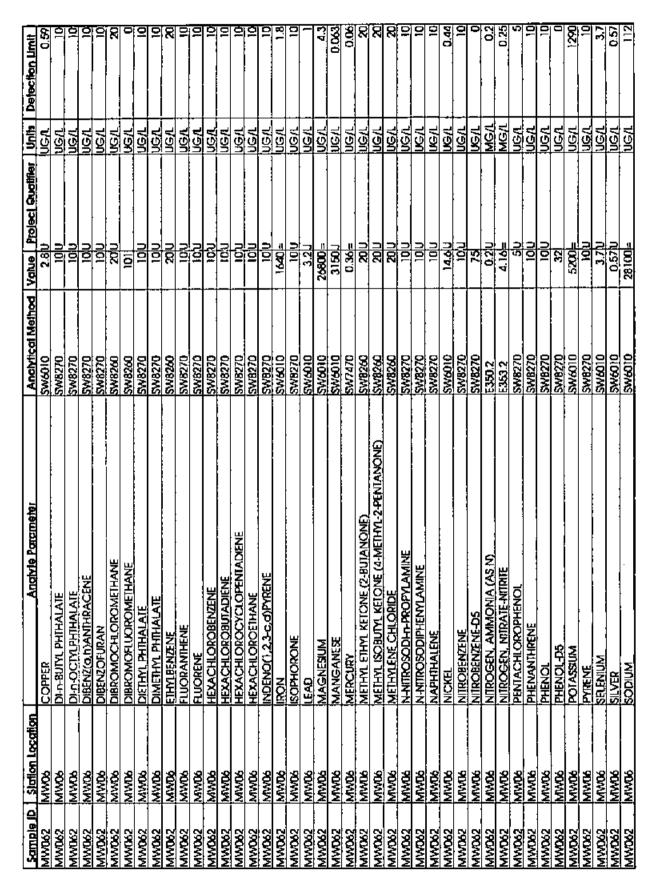
MW062 MWW062 MWWW062 WWWW062 WWWWW062 WWWWW062 WWWWW062 WWWWW062 WWWWW062 WWWWW062 WWWW	MW06 MW06 MW06 MW06 MW06 MW06 MW06 MW06	4-CHLORO-3-METHYLPHENOL	SW8270	N <mark>O</mark>	UC/I	Q
	\$\$\$\$\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					
	හිති හි ති		SW8270	100	UG/L	Ŭ
	හිති හිති හිති හිති හිති හිති හැකි හැකි හැකි හැකි හැකි හැකි හැකි හැක		SW8270	101	ING/L	0
	222 222 222 222 222 222 222 222 222 22	4-CHLOROPHENVL PHENVL ETHER	SW8270	10 0	1/9/I	õ
	200 200 200 200 200 200 200 200 200 200	4-METHYLPHENOL (D-CRESOL)	SW8270	100	лел	D
	909 909 909		SW8270	solu	<u>UGA I</u>	8
	A06 A06 A06	A-NIROPHENOL	SW8270	solu	NGN	8
	A06 M06	ACENAPHTHENE	SW8270	101	UG/L	10
	MD6	ACENAPHIHMENE	SW827D		UGA	10
		ACEIONE	CM826O	2010	UG/L	8
	MW06	ALUMINUM	SW6010	420	UG/L	6.1
	MW06	ANTHRACENE	SW8270	noin	NG/L	10
	MWD6	ANTIMONY	SW6010	2.40	UGA L	2.4
	MW06	ARSENIC	0109MS	2.50		2.4
	MW06	BARIUM	SW6010	270=		0.18
	MW06	BENZENE	SW8260	20 0	UGAL 1	8
	MW06	BENZO(d)ANIHRACENE	SW8270	101	UG/L	01
	MW06	BENZO(0)PYRENE	SW8270	10 0	ЧЭЛ	0
	MW06	BENZO(b)FLUORANTHENE	SW8270		NG/L	10
	MWD6	BENZO(g,h,0PERVLENE	SW8270	10/0	UGA	10
MW062 MV	MW06	BENZO(k)FLUORAMIHENE	SW8270		<b>V</b> SU	10
	MW06	BENZYL BUTYL PHIHALATE	SW8270	10/01	NG/L	10
	MW06	BERMULUM	SW6010	0,1710	NG/L 1	0:046
MW062 MV	MW06	bis@-CHLOROETHOXY) METHANE	SW8270	10I	NG/L	10
MW062 MV	MW06	bis(2-CHLOROETHAL) ETHER (2-CHLOROETHAL ETHER)	SW8270	NOU	NG/L	01
MW062 MV	MWD6		SW8270	101	1/G/I	0
MW062 MV	MWD6	BROMODICHLOROMETHANE	SW8260	2010	ЦGЛ	8
	MW06	BROMOFORM	SW8260	2010	Ч NGV	20
	MWD6	BROMOMETHANE	SWE260	2010	ИGЛ	8
MW062 MV	MW06	CADMIUM	SW6010	0.80	NGA	0.15
	MWD6	CALCIUM	SW6010	132000±	NG/N	80
MWD62MV	NW06	CARBAZOLE	SW8270	løu	UGA	2
MW062 MW	MW06	CARBON DISULADE	SW8260	20U	<b>VSN</b>	20
MWD62 MW	MWD6	CARBON TETRACHLORIDE	SW8260	45=	NGA	8
MW062 MW	MWD6	CHLORIDE (AS CL)	E325.1	305=	MGL	8
MW062 MN	ANMOG	CHLOROBENZENE	SW8260	2010	NGA	8
ľ	MWD6	CHLOROETHANE	SW8260	20,0		8
	MM06	CHLOROFORM	SW8260	16J	NG/L	8
MW062 MI	MW06	Ę	SW8260	<mark>%</mark> (	UG/L :	20
MW062 MI	MWD6	CHROMIUM, IOTAL	SW6010	2.BU	UG/L	0.70
MW062 MI	MW06	CHRYSENE	SW8270	10U	NGAL	9
MW062 MM	MW06	cs-1,3-CHCOROPROPENE	5WB260	2010	nGA	8
MW062 MM	MW06	COBALT	SW6010	1 2.3U	NG/L	0.41

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<<<<<<<>	MW06 MW06	STYRENE SUITEATE (AS SOA)	SW8260 F375.4		UG/L	8
	uwn6	CUILEATE (AC COA)	ICATE A	105	- 1 -	
			E010.4		MGA	2
	MW06	TERPHENYL-D14	SW8270	65	NGA	Ö
	MWD6	TETRACHLOROETHYLENE(PCE)	SW8260	d)J	UGA	8
	MW06	THALLUM	SW6010	2.3 U	UG/L	2.3
	MW06	TOLUENE	SW8260	zolu	NG/L	8
	MWD6	ITOLUENE-D8	SW8260	102	UG/L	0
	MW06	TOTAL 1.2-DICHLOROFTHENE	SWB260	i 410 <u>–</u> – – – – – – – – – – – – – – – – – –	NGA	8
	MW06	TOTAL ORGANIC CARBON	E415.2	5.6=	MG/L	
	MW06		SW8260	2010	NGA.	8
	MWD6	hars-1.3-DICHLOROPROPENE	SW8260	20 0	UGAL	20
Ī	MWD6		SW8260	260=	UG/L	8
VI 290MM	MWD6		SW6010	1.4,1	UGA	0.42
	MW06	VINYL CHLORIDE	SW8260	200	UGA_	8
]	MW06	ZINC	SW6010	13.4U	UGA.	0.53
}	MWD7	1.1.1-TRICHLOROETHANE	SW8260	UOL	UGA	10
	MWD7	1.1.2.2-TETRACHLOROETHANE	SW8260	101	NGA	10
	MWD7	1.1.2-TRICHLOROETHANE	SW8260		ЦGЛ	01
	MWD7	1.1-DICHLOROETHANE	SW8260	01		0
	MW07	1. I-DICHLOROETHENE	SWB260	26=	UG/L	10
	MWD7	1.24-TRICHLOROBENZENE	SW8270	100	UG/L	10
	MW07		SW8270	Not	UGA	01
	MW07	1,2-DICHLOROETHANE	SW8260		UGA	0
	MW07	1,2-DICHLOROPROPANE	SW8260	1010	UGA.	Q
	MW07	11.3-DICHLOROBENZINE	SW8270	100	NGU	10
	MW07	1,4-DICHLOROBENZENE	SW8270	10 0	NGA	10
	MW07	1-BROMO-4-FLUOROBENZENE (4-BROMORLIOROBENZENE)	SW8260	107	ЧGЛ	0
	MWD7	2.2-OXYBIS(1-CHLORO)PROPANE	SW8270	10/01	UG/L	0
	MW07	2,4,5-TRICHLOROPHENOL	SW8270	solu	UG/L	50
	MWD7	2,4,6-TINBROMOPHENOL	SW8270	32	LG/L	
	20MW	2,4,6 TRICHLOROPHENOL	SW8270	101	חפע	10
	70MW	2,4-DICHLOROPHENOL	SW8270	101	NGM	01
Γ	MW07	2,4-DIMETHMIPHENOL	SW8270	101	UG/L	01
	10M07	2,4-DINTIROPHENOL	SW8270	50)1	UG/L	3
	MW07	2,4-DINFIROTOLUENE	SW8270		NG/L	0
	VW07	2.6-DINTIPOTOLUENE	SW6270	101	UG/L	01
	MW07	2-CHLORONAPHTHALENE	SW8270	10/0	UG/L	0
	MW07	2-CHLDROPHENOL	SW8270	10IU	ЧGЛ	01
	MWD?	2-FLUOROSIPHENM	SW8270	58	ηGΛ	0
	MW07	2-FLUOROPHENOL	SW8270	8	ЧGЛ	0
	MW07	2-HEXANONE	SW8260	<u>UOL</u>	NGA	01
MW072	MW07	2-METHYLNAPHTHALENE	SW8270	<u>001</u>	<u>luen</u>	2
MW072	MW07	2-METHYLPHENCA (O-CRESOL)	SW8270	Ulat	UGA	0

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MMW072         MMW072<		SW8270         50           SW8270         10           SW8270         10	200 200 200 200 200 200 200 200 200 200		858885555
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		SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270	<u>988 85555555555555555555555555555555555</u>		8885555
		SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270	900 900 900 900 900 900 900 900 900 900	VGA VGA VGA VGA VGA VGA VGA VGA VGA VGA	88555
		SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270 SWB270	<u>) 100 100 100 100 100 100 100 100 100 100</u>	NGA UGA UGA UGA UGA UGA UGA UGA UGA	<u>898</u> 8
		SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
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		0109/01 0109/01 0109/01 01/28/WS 01/28/WS 01/28/WS 01/28/WS 01/28/WS 01/28/WS	101 101 100 100 100 100 100 100 100 100		
		SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270 SW8270	10 20 100 100 100 13 200 13 20 13 20 13 20 13 20 13 20 10 10 10 10 10 10 10 10 10 10 10 10 10	NGA NGA NGA	
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	4-NITROPHENOL ACENAPHTHENE ACENAPHTHYLENE ACETONE ALLUMINUM	SW8270 SW8270 SW8270 SW8270 SW8200 SW8210	10 10 100 13 20 13 20 13 20 13 20 13 20 10	UGA UGA	50
	ACENAPHTHENE ACENAPHTHYLENE ACETONE ALUMINUM	SW8270 SW8270 SW8200 SW6010	10U 10U 13800= 13800=	IUGA,	3
	ACENAPHIHYLENE ACETONE ALUMINUM	0109WS	10U 10U 13200=		9
	ALUMINUM	SW8260 SW6010	10U 13300= 	UG/L	10
	ALUMINIM	0109/WS	13300=	NGA	9
				NG/L {	6.1
	ANTHRACENE	SW6270	10(0	NG/L	10
	ANTIMONY	SW6010	7.9\U	UGA	2.4
	ARSENIC	2W6010	24.3U	UGЛ	2.4
	BARIUM	SW6010	1221	NGA	0,18
	BENZENE	SW8260	lou	NGA	õ
	BENZO(0)ANTHRACENE	SW8270	101	NGA	0 2
	BENZO(o)PYRENE	SW8270	001	NG/L	Q
	BENZO(D)FLUORANTHENE	SWB270	10 <u>U</u>	NG/L	Þ
	BENZO(g,h,n)PERYLENE	SW8270	101	UGA_1	2
		SW8270			2
MW072 MW07	BENZYL BUTYL PHITHALATE	SW8270	10J	NGA.	2
MWD72 MWD7	BERYLIUM	SW6010	3.5U	NG/L	0.046
MW072 MW07	bis/2-CHLOROETHOXY) METHANE	SW8270	101	<u>UGA</u>	01
MWD72 MWD7	bis/2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SW8270	100	NGA	0
MW072 MW07	DIS(2-ETHYLHEXYL) PHITHALATE	SW8270	10/0	UGA	0
MW072 MW07	BROMODICHLOROMETHANE	SW8260	101	NGA	2
MW072 MW07	BROMOFORM	SW8260	nloi	NGA NGA	Ü.
MW022 MW07	BROMCMETHANE	SW8260		UGA	10
MW072 MW07	CADMIUM	SW6010	0.41U	UG/L	0.15
MW072 MW07	CALCIUM	SW6010	22000-	UGA	æ
(MW072 jMW07	CARBAZOLE	SWB270	lotu	NGA	01
	CARBON DISULFIDE	SWB260	101	NG/L	01
	CARBON TETRACHLORIDE	SWB260	100	UGA	01
MW072 MW07	CHLOROBENZENE	SW8260	101	UGA	2
MW072 MW07	CHLOROETHANE	SW8260	101	UG/L	0
MW072 NW07	CHLOROFORM	SWB260	81	UGA	2
MW072 [MWD7	CHLOROMETHANE	SW8260	10/0	NG/L	þ

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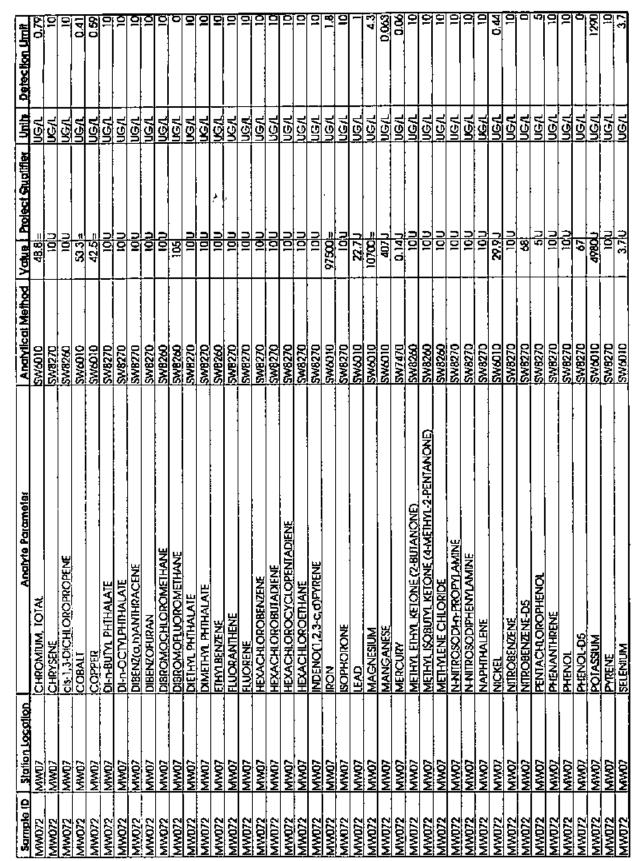


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Sample ID	Station Location	Anatyte Parameter	And Nicol Method	Vatue   Project Suglifier	er Unita	Detection Limit
MW072	MW07	silver	SW6010	0.57U	UG/L 1	0.57
MW072	MW07	NUDOS	SW6DIO	20200=	UGA	112
MW072	MW07	SIYRENE	SW8260	101	NG/	2
MW072	MW07	TERPHENWL-D14	SW8270	72	UGA	0
MW072	MW07	TETRACHLOROETHYLENE(PCE)	SW8260	321=	NGA.	10
MW072	MW07	THALLUM	SW6010	2.30	UG/L	2.3
MW072	MW07	TOLUENE	SW8260	100		01
MW072	MW07	TOLUENE-D8	SW8260	105	UGA	o
MW072	MW07	TOTAL 1,2-DICHLOROETHENE	SW8260	101	UG/L	
MW072	MW07		SW8260	DO1	NGA	10
MW072	MW07	hans-1.3-DICHLOROPROPENE	SW8260	n ai	חפיר ן	01
MW072	MWD7		SW8260	±61=	NG/L	01
MW072	MW07		SW6010	<del>9</del> 0.7=	NG/L	0,42
MW072	MWDZ	MINYL CHLORIDE	SW8260	10 01	UG/L	
MW072	MW07	ZINC	0109/MS	B4.2 =	UG/L	0.53
MW082	MW08	1,1,1-TRICHLOROETHANE	SW8260	101	UG/L	10
MW082	MW08		SWB260	niot i	NG/L	01
MW082	MWD8		SW8260		UG/L	101
MW082	MW08		SWB260	טןסנ	UG/L	01
MW082	MW08	1,1-DICHLOROETHENE	SW8260	12 <u> -</u>	UGA	10
MW082	MWOB	1,2,4-IRICHLOROBENZENE	SWB270	ומנ	UGA	10
MW082	MWOS	1,2-DICHLOROBENZENE	SWB270	10¦01	INGA	10
MW082	MWD8	1,2-DICHLOROETHANE	SW8260	100	νgη	01
MW082	MW08	1,2-DICHLOROPROPANE	SWB260	1010	NGA	10
MW082	MW08	1, 3-DICHLOROBENZENE	Sw8270	100	UGA_	10
MW082	MW08	1,4-DICHLOROBENZENE	SW8270	i loju	NGA	01
MW082	MWD8	1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE)	SW8260	103	NG/L [	0
MW082	MW08	2.2-OXYBIS(1-CHLORO)PROPANE	SW8270	100	UGA	10
MW082	MW08	2,4,5-TRICHLOROPHENOL	SW8270	50U	UG/L	50
MW082	MWD8	2,4,6-TRIBROMOPHENOL	SWB270	62	NG/L	0
MW082	MWD8	2,4,6-TRICHLOROPHENOL	SW8270	NON	UG/L	0
MW082	MW08	2.4-DICHLOROPHENOL	SW8270	ŊOI	NG/L	01
MW082	MW08	2,4-DIMETHYLPHENOL	SW8270	00	1/9/	0
MW082	MW08	2.4-DINITROPHENOL	SW8270	501)	NG/L	33
MW082	MW08	2,4-DINITROTOLUENE	SW8270		UG/L	10
MW082	MW08	2,6-DINITROTOLUENE	SW8270	10 0	UGA	
MW082	MW08	2-CHLORONAPHTHALENE	SW8270	10 0	UGA	10
MW082	MW08	2-CHLOROPHENOL	SW8270	100	NGИ	2
MW082	MW08	2-RUOROBIPHENM	SW8270	17	NGA	0
MW082	MWC8	2-FLUOROPHENOL	SW8270	67	UGA.	0
MW082	MWD8	2-HEXANONE	SW8260	100	NGЛ	0
MW082	MWCB	2-METHYUNAPHTHALENE	SW8270	1 <mark>0</mark> 1	NGЛ	2
MW082	MWDB	2-METHYLPHENOL (o-CRESOL)	SW8270	10 0	LIGA.	2

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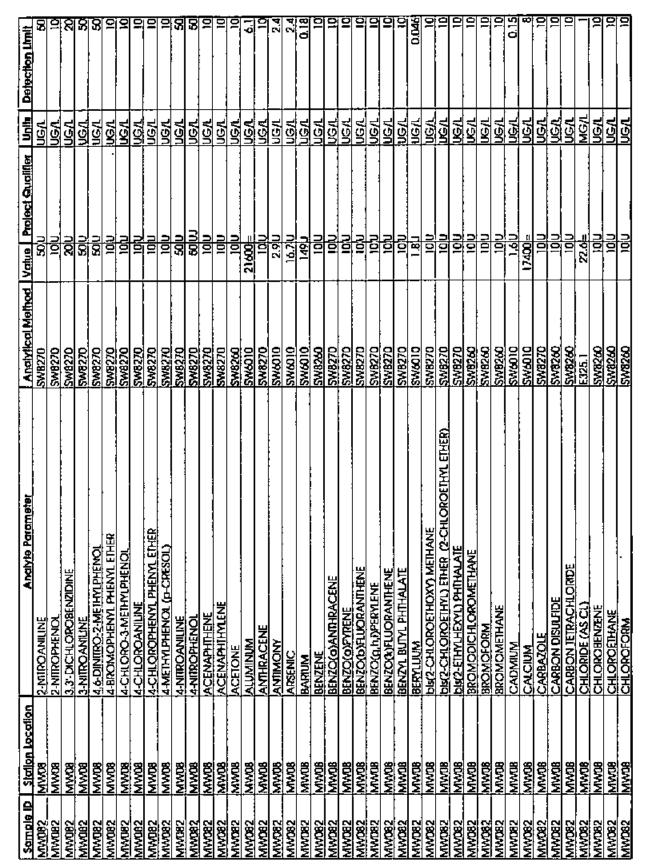
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<u>Sample (D</u>	Station Location_	Anatyte Parameter	) Analytical Method	Value Project Qualifier	ier J Unita	
MW082	1	CHLOROMETHANE	SW8260	101	NGA	
MW082	MW08	CHROMIUM, TOTAL	0109WS	47.4=	NGA	0,79
MW082	MW08	CHRYSENE	SW8270	100	NGA	1
MW082	MWD8	cis-1, 3-DICHLOROPROPENE	SW8260	1010	NGA	-
MW082	IMW08	COBALT	0109/05	23.9.1	1/C/L	0.41
MW082	MWDB	COPPER	SW6010	55.5=	NOIL	0.59
MW082	BOWM:	DI-n-BUTYL PHTHALATE	SW8270	lou	NG/L	Ĭ
MW082	MW08	DI-n-OCTMPHTHALATE	SW8220	100	NGA	X
MW082	BOWW		SW8270	Not	<b>V</b> ON	10
MW082	MMOB	DIBENZOFURAN	SW8270	non	NGN	0
MW082	MWOB	DIBROMOCHLOROMETHANE	SW8260	njot	UGA	10
MW082	MW08	DIBROMOFLUOROMETHANE	SW8260	1001	NG/	
MW082	MW08	DIETHYL PHIHALAJE	SWB270	10/01	Nen	0
MW082	MWOB	DIMETHYL PHRHALATE	SW6270	10 01	UGA_	01
MWD82	MW08		SWB260	101	NG/L	01
MW082	MWOB	FLUORANTHENE	SW8270	10 01	UC/L	10
MW082	MW08	FLUORENE	SW8270	101	NGA	01
MW082	MWDB	HEXACHLOROBENZENE	SW8270	101	NG/	
MW082	MW08	HEXACHLOROBUTADIENE	SW8270	Ulat	ЦGЛ	01
MW082	MW08	HEXACHLOROCYCLOPENIADIENE	SW8270	10U	nG/L	10
ZBOWIM	MWDB	HEXACHLOROETHANE	SW8270	10ju.	NGA	2
MW082	MW08	INDENC(1,2,3-c,d)PYRENE	SW8270	UID1	<u>NG/T</u>	
MW082	MWDB	IRON	SW6010	67100=	NGAL	-1
MW082	MW08	ISOPHORONE	SW8270	D	UG/L	2
MW082	MW08	(EAD	SW6010	21.7J	NGA	
MW082	MWDB	MAGNESIUM	SW6010	7910=	UGA.	4.
MW082	MWDB	MANGANESE	SW6010	4010	NGN	0.063
MM082	MWDB	MERCURY	SW7470	0.18/J	NGA	0.0
MW082	MMUB	METHYL ETHYL KETONE (2-BUTANONE)	SWB260	ŊQI	NGA	_
MW082	MWDB	METHAL ISOBUTAL KETONE (4-METHAL-2-PENTANONE)	SW8260	NOI I	NGA	
MW082	BOWW	METHYLENE CHLORIDE	SWB260	101	NGA	_
MW082	MWDB	N-NITROSODH-P-PROPYLAMINE	SW8270	101		
MW082	BOWIN	N-NITROSOD7PHENYLAMINE	SW8270	101		0
MW082	MWDB	NAPHTHALENE	SW8270	101	NG/L	
MW082	MWDB	NICKEL	SW6010	24.31	NGA	0.44
MW082	MWD8	MIROBENZENE	SW8270		ЧCЛ	91
MW082	MWDB	NITROBENZENE-D5	SW8270	82	NGU	
MW082	MWD8	NITROGEN, AMMONIA (AS N)	E350.2	0.20	MGA	0.2
MW082	MW08	NITROGEN, NITRATE-NITRITE	E353.2	1.75=	MG/L	000
MW082	MW08	PENTACHLOROPHENOL	SW8270	50	NGΛ	
MW082	MW08	PHENANTHRENE	SW8270	101	UGN	9
MW082	MWDB	PHENOL	SW8270	NO1	NGЛ	-
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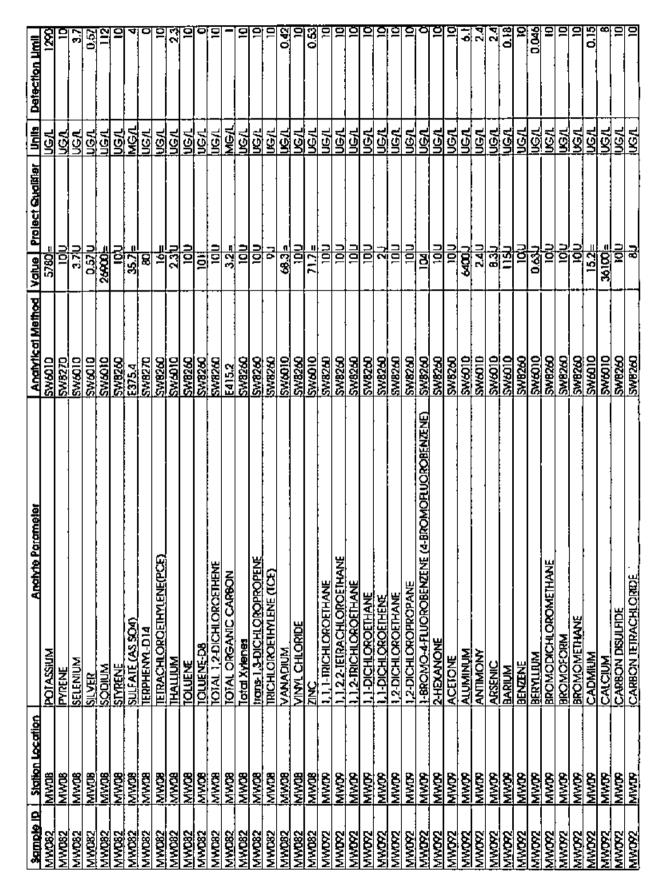


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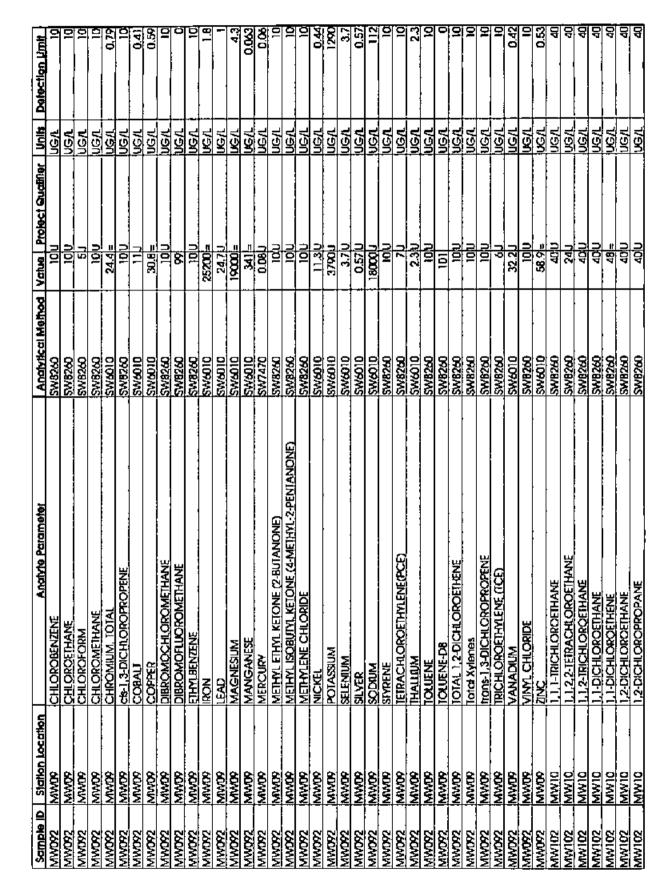
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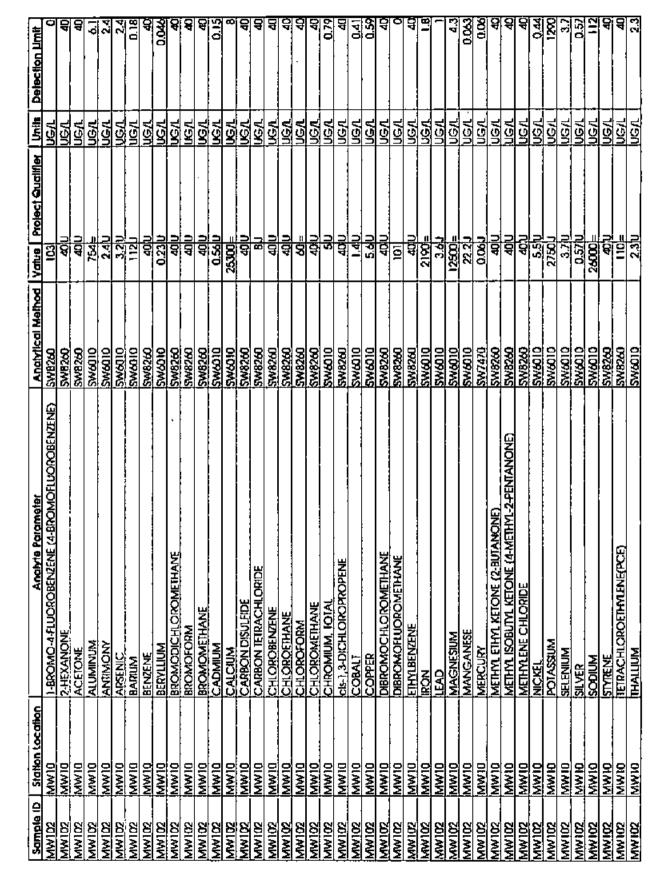


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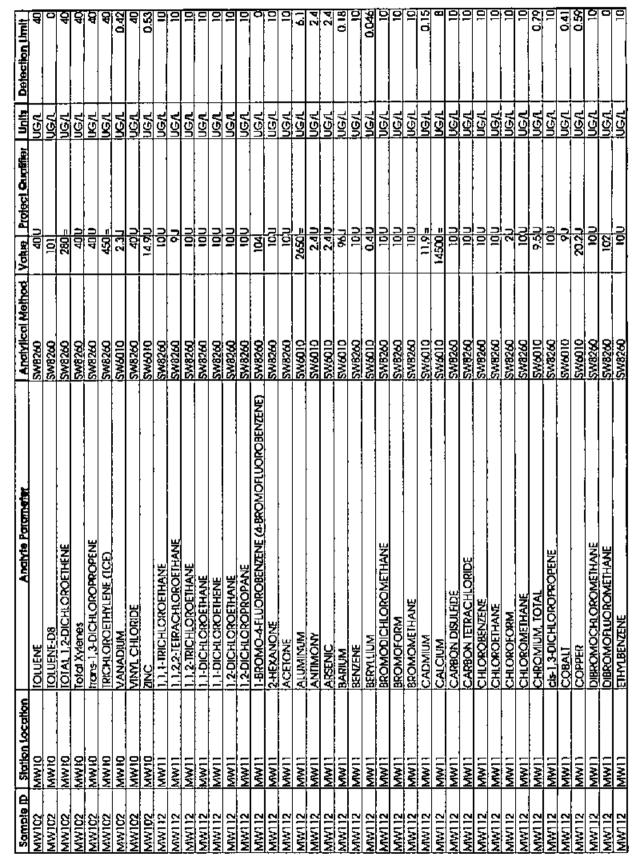
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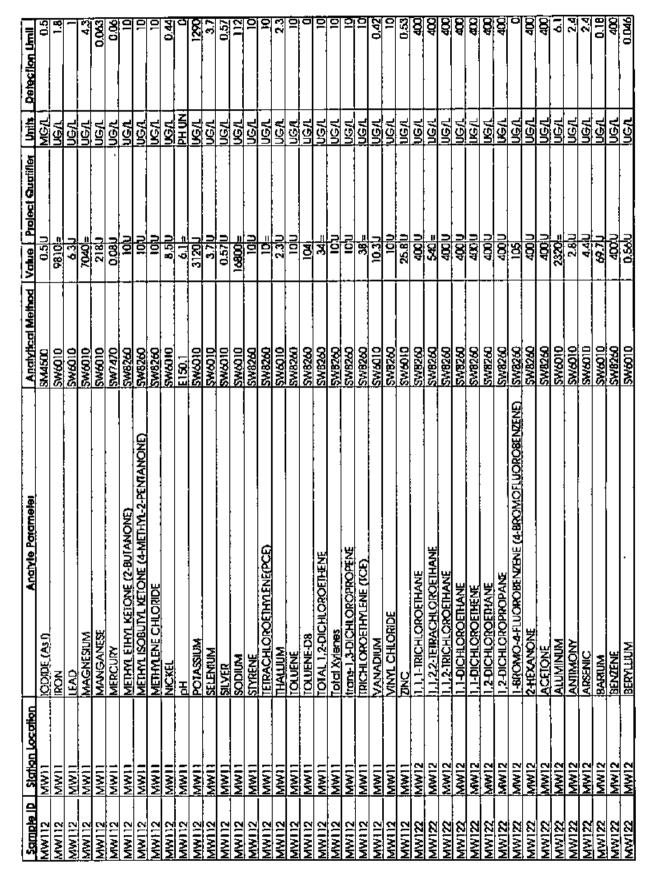


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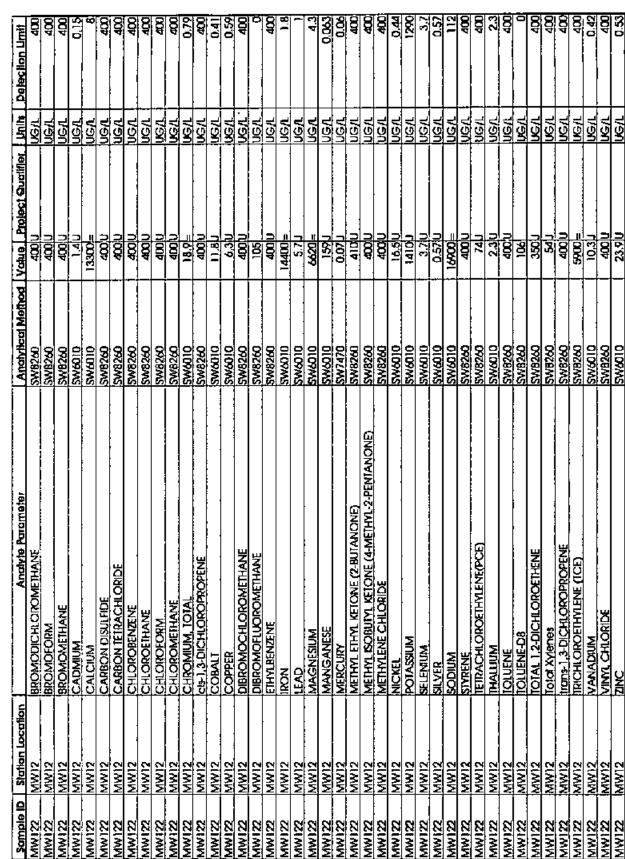


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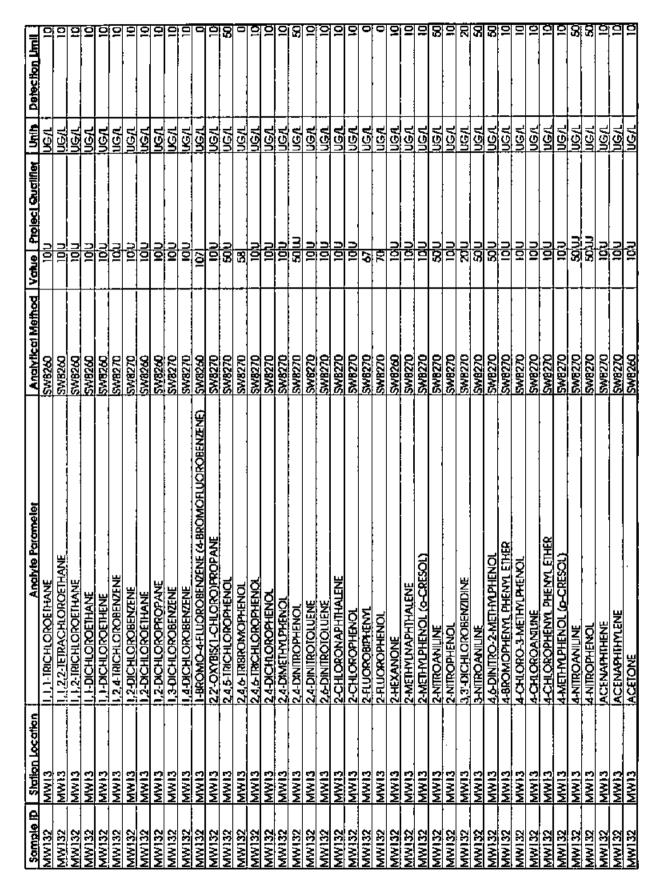
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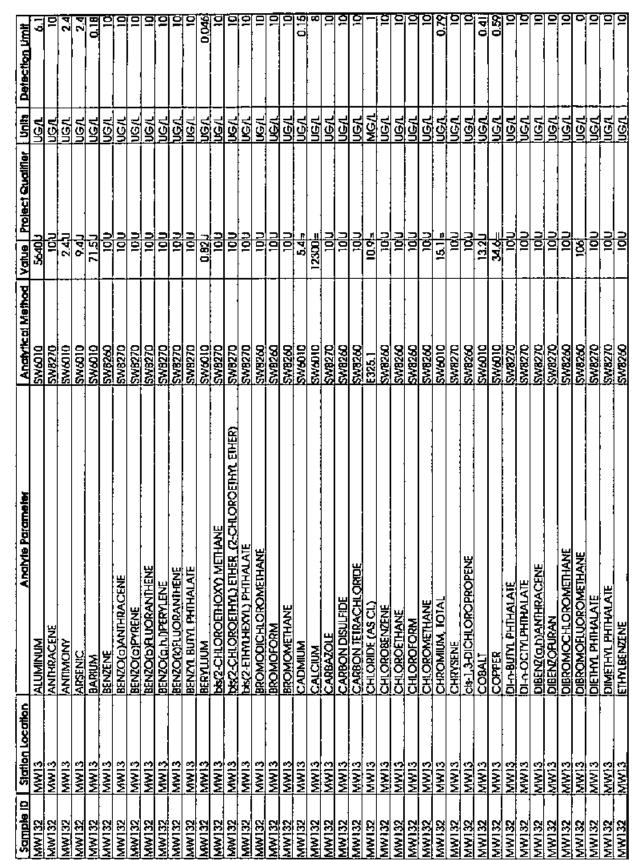


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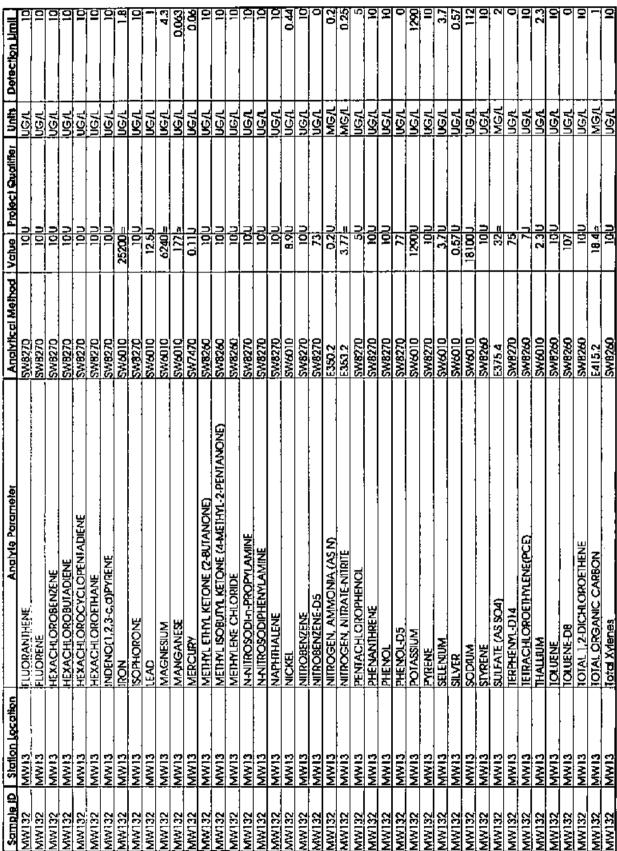


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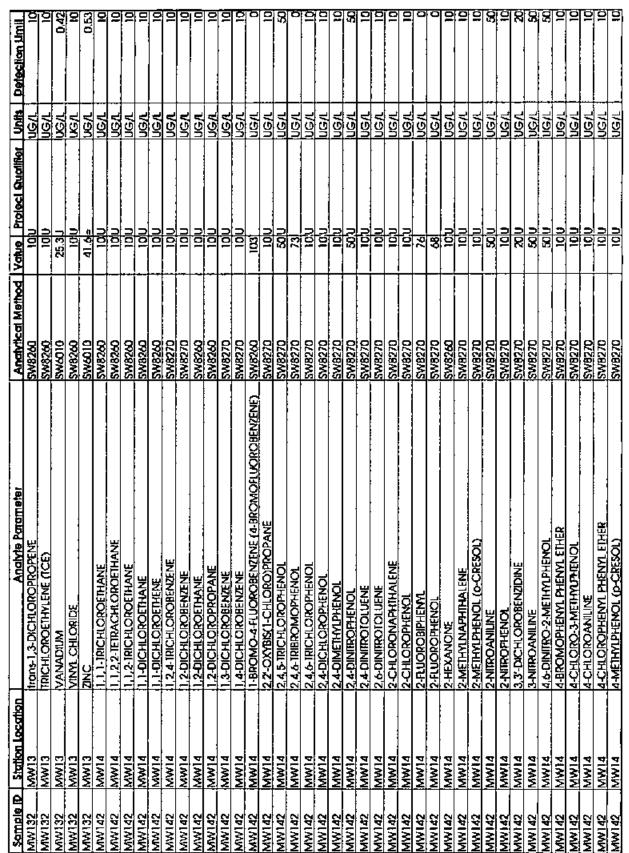


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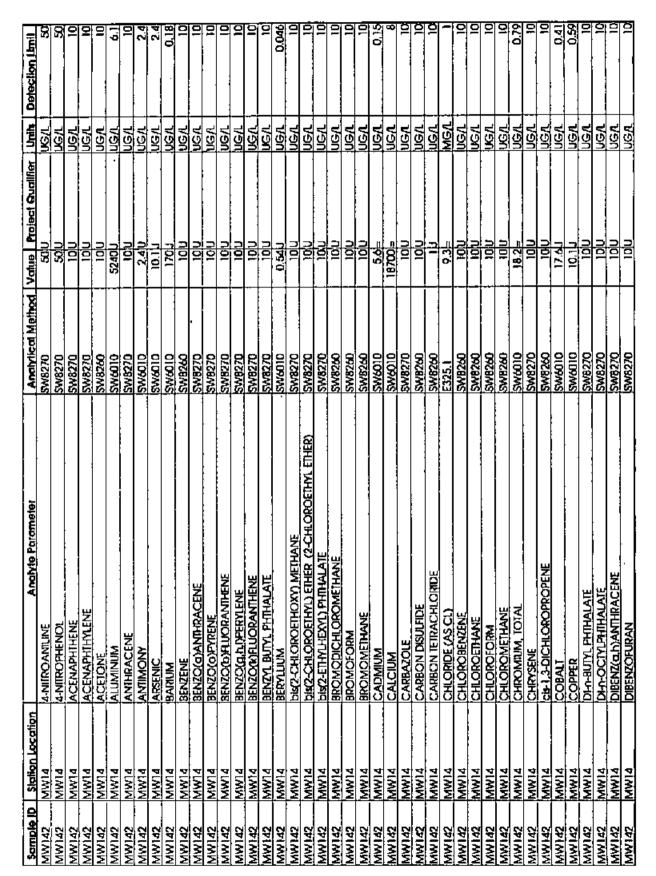
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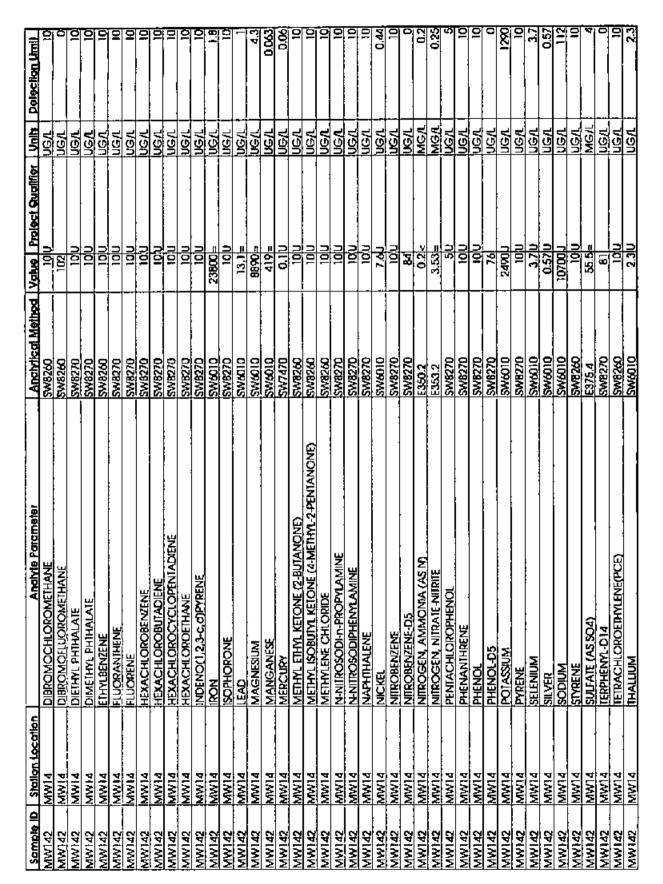


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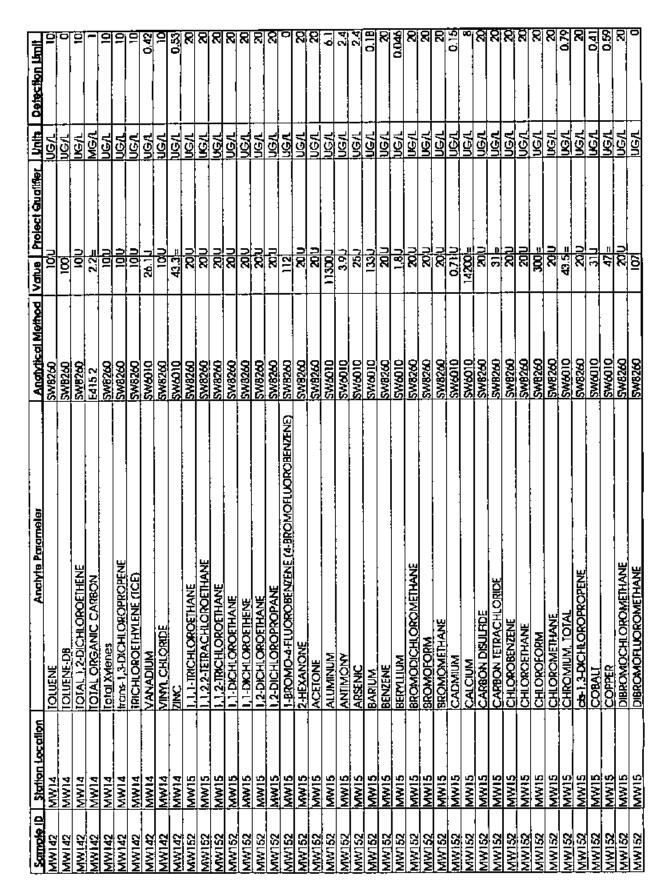


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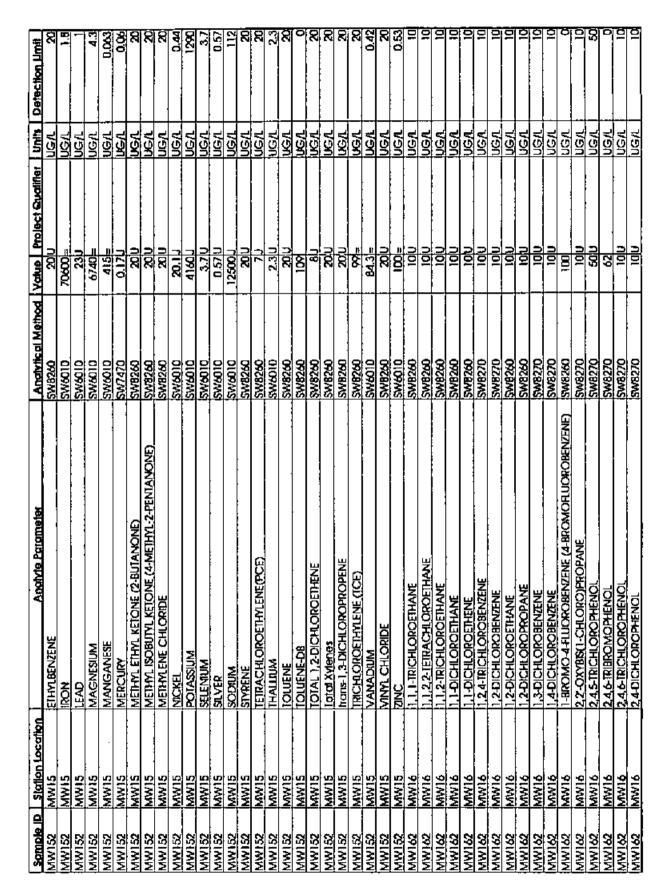


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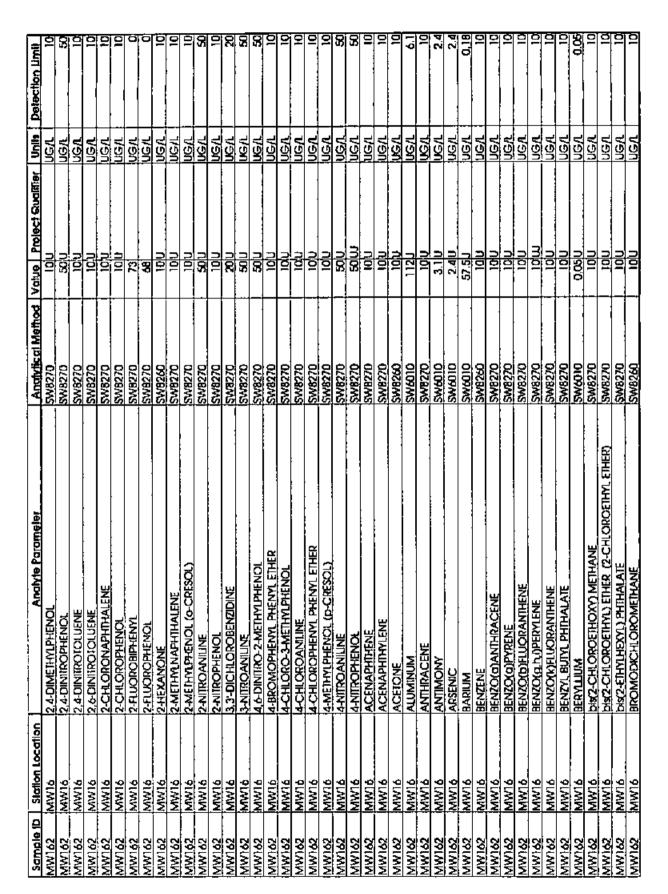


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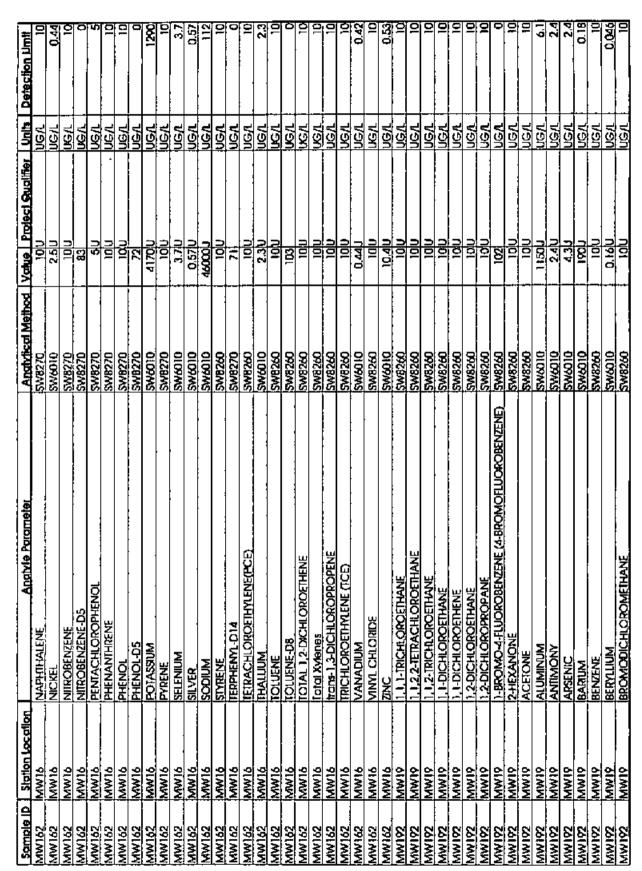
MW162 MW162 MW162 MWW162 WWW162 WWW162 WWW162 WWW162 WWWN162 WWWN162 WWW162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWN162 WWWWN162 WWWWN162 WWWN162 WWWN162 WWWWN162 WWWWN162 WWWN162 WWWWWWN162 WWWWN162 WWWWN162 WWWWWN162 WWWWN162 WWWWN16	MWIS	BROMOFORM			-	
			SW8260	101	100/	
	MW16	BROMOMETHANE	SW8260		NG/L	01
	MWIA	CADMIUM	SW6010	0.15U	UG/L	0.15
	MWIA	CALCIUM	SW6010	43500=	lu⊖∧L Í	20
	MW16	CARRAZOLE	SW827D	IOU	UGAL	01
	MW15	CARBON DISULFIDE	SW8260	, jo¦u		101
	MWI6	CARBON TETRACHLORIDE	SW8260	lindu	UGA	10
	MWIS	CHLOROBENZENE	SWB260		UGA_	01
MW162 N	MWIS	<b>CHLOROETHANE</b>	SW8260	101	UGA	01
MW162 N	MW16	CHLOROFORM	SWB260	1010	UGA	10
	MW16	<b>CHLOROMETHANE</b>	SW8260	101	NGA	0
	MW16	CHROMIUM, TOTAL	0109MS	1.90	NGA	0.79
MW162 N	MWI6	CHRYSENE	SW8270	001	NGN	
MW162	MWIG	CIS-1, 3-DICHLOROPROPENE	SW8260	10U	UGA	
	MW16		0(09/MS	0,14,0	nG <b>n</b>	0.41
	MW16	COPPER	SW6010	8.10	NGA	0.50
	MW16	DI-T-BUTYL PHTHALATE	SWB270	1 100	וופע ן	
MW162 N	MW16	DI-P-OCTYUPHINALATE	SW8270		IUG/L	0
	MW16	DIBENZ(a,h)ANTHRACENE	SW8270	ioluu	luc.	10
MW162 N	MW16	DIBENZOFURAN	SW8270	Not	NG/L	0
MW162 N	MW16	DIBROMOCHLOROMETHANE	SW8260	101	NG/I	0
MW162 N	MW16	DIBROMOFLUOROMETHANE	SWB260	102	NG/L	0
MW162 N	MW16		SW8270	101	NG/L	9
MW162 N	MW16	DIMETHYL PHTHALATE	SW8270	101	UG/L	9
MW162 N	MW16	ETHYLBENZENE	SW8260	1010	UG/L	01
MW162 N	91.MM	FLUORANTHENE	SW8270	1010	UGAL 1	10
	MW16	FLUORENE	SW8270	10 0	UG/L	10
MW162 N	MW16	HEXACHLOROBENZENE	SW8270	100	UGA	10
MW162 N	WW16	HEXACHLOROBUTADIENE	SW8270	10/0	UGA	01
MW162 N	MW16	HEXACHLOROCYCLOPENTADIENE	SW6270	100	NGA	10
MW162 N	MW16	HEXACHLOROETHANE	SW8270	100	ЧGЛ	10
	MW16	INDENO(1,2,3-c,d)PYRENE	SW8270	Inlat	NGN	0
MW162 N	<u>MW16</u>	IRON	SW6010	-117-	NGN	9.1
MW162 N	MW16	<b>ISOPHORONE</b>	SW8270	10 U	NGA	Ö
MW162 N	MW16	lead	SW6010	1.50	NG/L	1
MW162 N	MW16	MAGNESIUM	SW6010	18500=	UG/L	4.3
MW162 N	MW16	MANGANESE	SW6010	40.9	UG/L	0.063
MW162 N	MW16	MERCURY	SW7470	0.0610	UG/L	0.06
MW162 N	MW16	<u>(Methyl ethyl ketone (2-buianone)</u>	SW8260	101	NG/L	0
MW162 N	MW16	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	SW8260		UG/L	
MW162 N	MW16	METHMENE CHLORIDE	SW8260	5 2	ng/L	0
	<u>MW16</u>	N-NITROSODI-0-PROPYLAMINE	SW8270	101	<u>NGN</u>	01
MW162 N	MW16	IN-NITROSODIPHENYLAMINE	SW8270		NG/L	01

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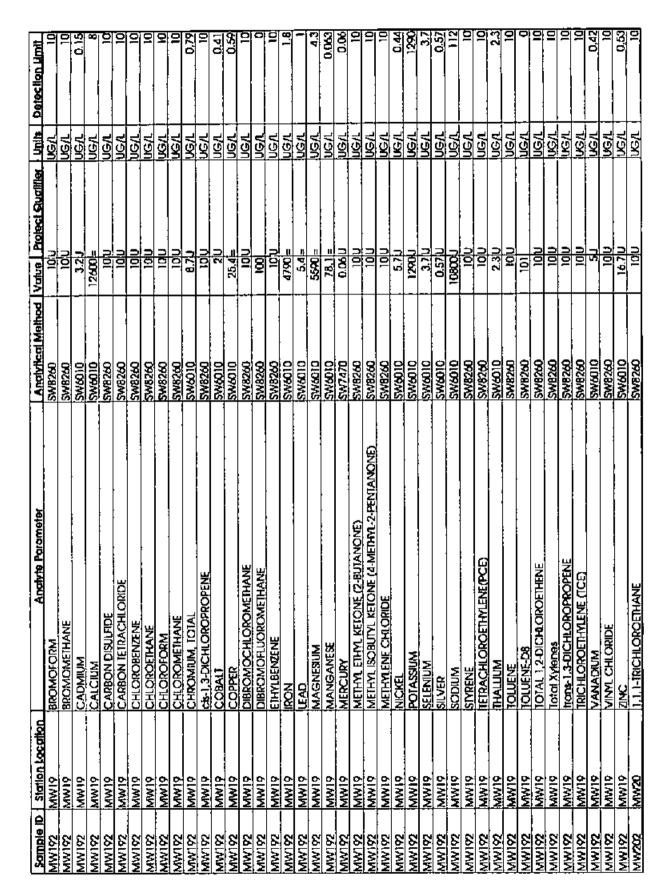
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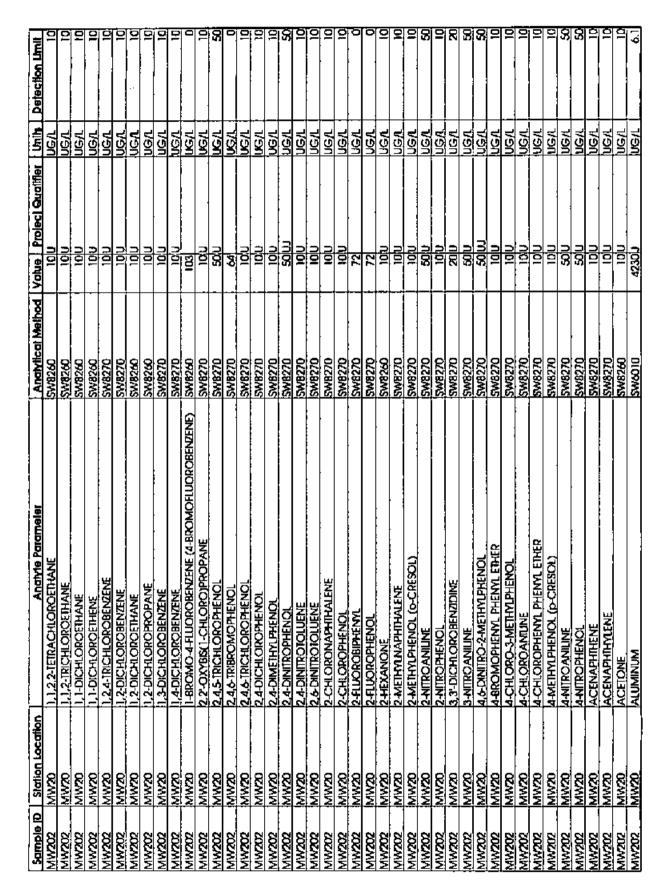
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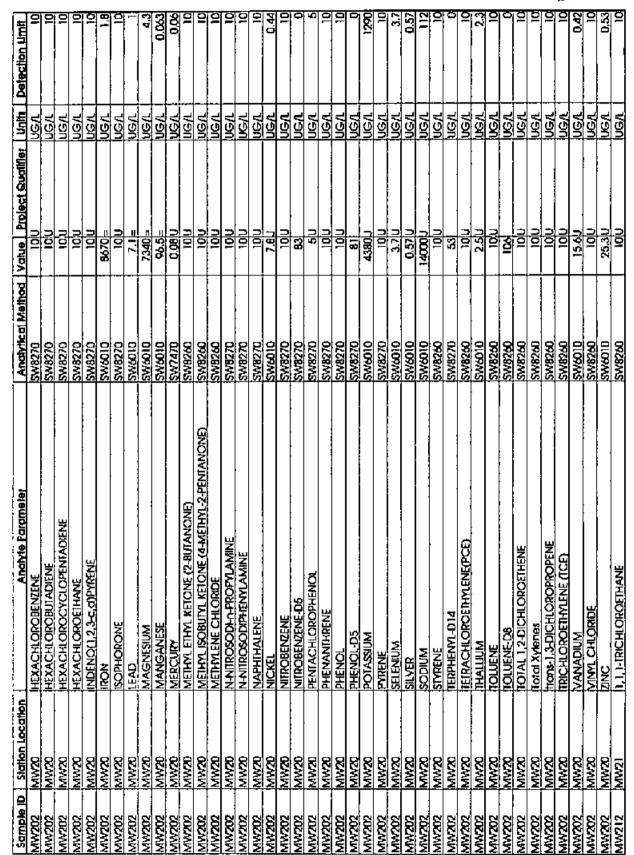




Analytical Results
1997 Quarterly Groundwater Sampling A
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Sample (D	Station Location	Andrite Parameter	Analytical Method	Votue Project Qualifier	L Unita	Detection Limit
MW202	-<	ANTHRACENE	SW8270	10h	NGA 1	10
MW202	0Z/WW	ANTIMONY	SW6010	2,40	UGAL	2.4
MW202	MW20	Arsenic	SW6010	6.9 J	UG/L	2.4
MW202	MW20	BARIUM	SW6010	B2 L	UG/L	0.18
MW/202	MW20	BENZENE	SW8260		UG/L	0
ZOZWW	MW20	BENZO(O)ANTHRACENE	SW8270	10 U	UGA	0
MW202	MW20	BENZO(0)PYRENE	SW8270	10/1	NGA	01
MW202	MW20	BENZOCDJELUORANTHENE	SW8270	njot	UGA	10
MW202	MW20	BENZO(G, h, DPERYLENE	SW8270	ומט	UG/L	10
MW202	MW20	BENZORIJELUORANTHENE	SW8270		UG/L	סנ
MW202	MW20	BENZYL BUTYL PHTHALATE	SW8270	וסו	UG/L	101
MW202	MW20		SW6010	0.31[U	UG/L	0.046
MW202	MW20	bis(2-CHLOROETHOXY) METHANE	SWB270	UOI	I/C/I	01
MW202	MW20	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SWB27D	100	NG/L	0
MW202	MW20	DIS(2-ETHYLHEDXVL) PHITHALATE	SWB270	101	UG/L	õ
MW202	MW20	BROMODICHLOROMETHANE	SW8260	101	UGA	Þ
MW202	MWZO	BROMOFORM	SWB260	100	ЧGЛ	ō
MW202	MW20	BROMOMETHANE	SW8260		NGA	0
MW202	MW20	CADMIUM	SW6010	11.9=	UGA.	0.15
MW202	MW20	CALCIUM	SW6010	20100	UG/L	8
MW202	MW20	CARBAZOLE	SW8270		UG/L	10
MW202	MWZO	CARBON DISULFIDE	SW8260	100	UG/L	10
MW202	MW20	CARBON TETRACHLORIDE	SW8260	100	NG/L	2
MW202	MW20	CHLOROBENZENE	SW8260	101	NG/L	10
MW/202	MW20	CHLOROETHANE	SW8260	1010	7 DOV	0
MW202	MW20	CHLOROFORM	SW8260		UG/L	01
MW202	MW20	CHLOROMETHANE	SW8260	101	UG/L	01
MW202	MW20	CHROMIUM, TOTAL	SW6010	8.2/J	NG/L	0.70
MW202	MW20	CHRYSENE	SW8270	10/01	11G/L	0
MW202	MW20	Cts-1,3-DICHLOROPROPENE	SW8260	101	UG/L-	9
MW202	MW20	COBALI	0109MS	2.8.1	1/9/1	0.41
MW202	MW20	COPPER	SW6010	18.3,1	NG/L	0.50
MW202	MW20	DI-n-BUTYL PHTHALATE	5W8270	10/1	UG/L	10
MW202	MW20	DI-n-OCTYUPHTHALATE	SW8270	101	NGA	2
MW202	MW20	DIBENZ(O,h)ANTHRACENE	SW8270	101	NGЛ	9
MW202	MW20	DIBENZOFURAN	SW8270	101	NGN	0
MW202	MW20	DIBROMOCH.OROMETHANE	SW8260		NGA	01
MW202	MW20	DIBROMOFLUOROMETHANE	SW8260	104	ЧЭЛ	0
MW202	MWZO	DIETHYL PHIHALATE	SW8270	101	NG/L	
MW/202	MW20	DIMETHAL PHTHALATE	SWB270	10[U	UGA_	0
MW202	MW20	ETHMLBENZENE	SWB260	101	UG/L	0
MWZ02	MW20	RUORAMIHENE	SW8270	U[01	NG/L	
MW202	MW20	I LUORENE	SWB270	IQU	NG/L	01

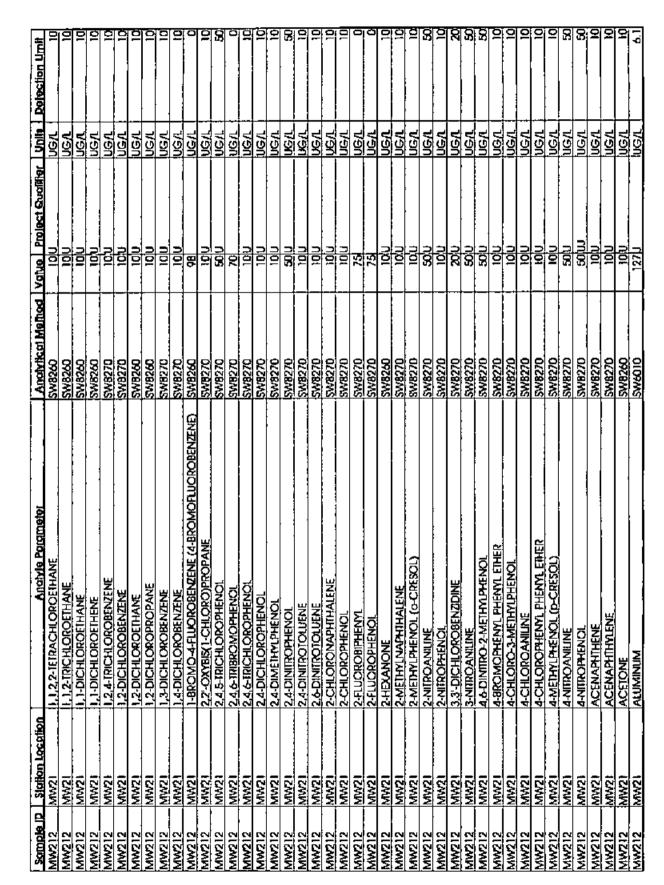
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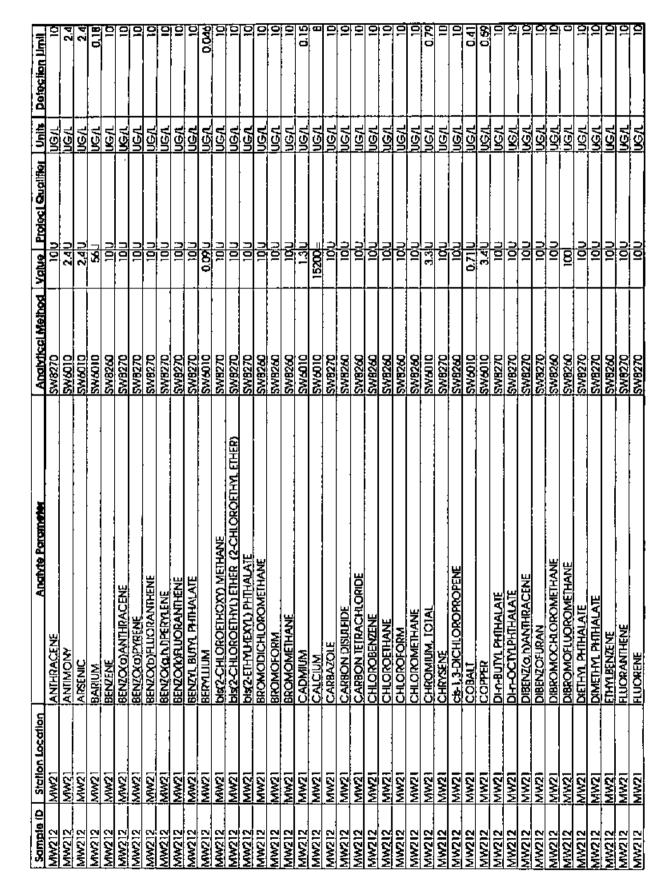


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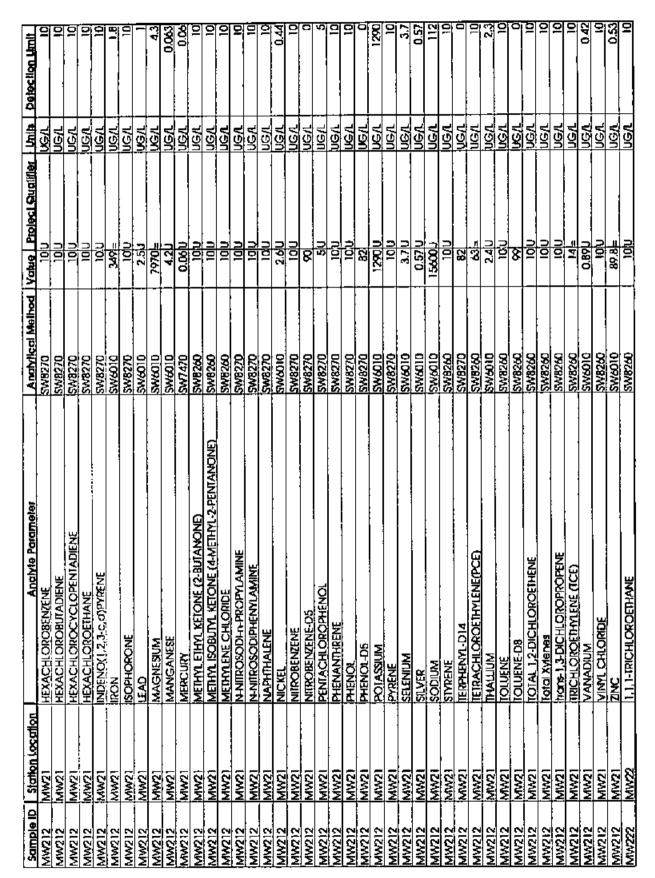
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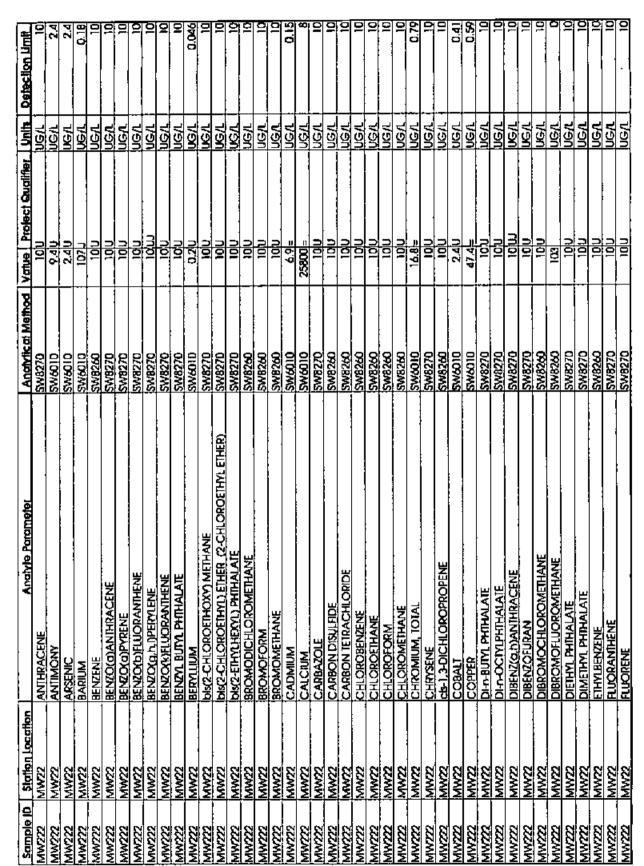
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Sample ID	Station Location	Anchyte Porcemeter	Anchriscal Melhod	Vatue Projec	Project Qualifier	Unih	Detection Limit
MW222	MW22	1,1,2,2-TETRACHLOROETHANE	SW8260			UG/L	
MW222	MW22	1,1,2-TRICHLOROETHANE	SW8260	101	_	UG/L	
MW222	MW22	II, 1-DICHLOROETHANE	SW8260	л <mark>о</mark> г		UGA	
<u>MW222</u>	MW22	1,1-DICHLOROETHENE	SW8260	10[U		ηGΛ	
MW222	MW22	11, 2.4. TRICHLOROBENZENE	SW8270	njoi		<b>V</b> SU	
MW222	MW22	11.2-DICHLOROBENZENE	SW8270	101		1 UON	
MW222	MWZZ	11,2-DICHLOROETHANE	SW8260	njoi		NG/L	01
MW222	MW22	1,2-DICHLOROPROPANE	SW8260			UGA.	01
MW222	MW22	1, 3-DICHLOROBENZENE	SW8270	10 <u>1</u>		UGA NGA	01
MW222	MW22	11.24DICHLOROBENZENE	SW8270	100		NGA	01
MW222	MW22	1)-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE)	SW8260	8		UGA.	0
MW222	MW22	2, 2-OXYBIS(1-CHLORO)PROPANE	SW8270	⊡		NG/L	01
MW222	MW22	2,4,5-TRICHLOROPHENOL	SW8270	SOL		UG/L	8
MW222	MW22	2,4,6-TRIBROMOPHENOL	SW8270	<u>د</u>		NGA	0
MW222	MW22	2.4.6 TRICHLOROPHENOL	SW8270			NG/L	01
MW222	MW22	2 4 DICHLOROPHENOL	SW8270		-	UGA	10
MW222	MW22	2.4-DIMETHYLPHENOL	SW8270	ηοι		NGA	01
MW222	MW22	2,4-DINITROPHENOL	SW8270	SOLU		uG/L	8
MW222	MW22	2,4-DIMITROTOLUENE	SW8270			NG/L	10
MWZ22	MW22	2,6-DINITROTOLUENE	SW8270			UG/L	01
MW222	MW22	2-CHLORONAPHTHALENE	Sw8270	noi		UG/L }	01
<u>MW7222</u>	MW22	2-CHLOROPHENOL	SW8270	100		NG/L	10
MW222	MW22	2-FLUCROBIPHENYL	SW8270	57		UG/L	0
MW222	<u>MW22</u>	2-FLUCROPHENOL	SW8270	57			0
MW222	MW22	2-HEXANONE	SW8260			llG/L]	10
MW222	MW22	2-METHYLNAPHTHALENE	SW8270	100			õ
MW222	22MM	2-METHYLPHENOL (O-CRESOL)	SW8270	lotu		uG/L	01
MW222	MW22	2-NITROANILINE	SW8270	500		ne/r	8
MW222	MW22	2-MITROPHENOL	SW8270			UG/L	10
MW222	ZZMW	3,3-D*CHLOROBENZIDINE	SW8270	2010		ЧGЛ	8
<b>MW222</b>	MW22	3-NITROANIUNE	SW8270	50 <sup>U</sup>	-	uer I	50
MW222	MWZZ	4,6-DINITRO-2-METHYLPHENOL	SW8270	501		NG/L	50
MW222	MW22	4-BROMOPHENNL PHENNL ETHER	SW8270	njoi		NG/L	10
MW222	MW22	4-CHLORO-3-MEINYLPHENOL	SW8270	100		NG/L	<u>ot</u>
MW222	MW22	4-CHLOROANILINE	SWB270	10 01		NG/L	õ
MW222	MW22	4-CHLOROPHENNL PHENYL ETHER	SW8270	10 0		UG/L	
MW222	MW22	4:METHYLPHENOL (p-CRESOL)	SW8270	100		NG/L	01
MW222	MW22	A-NITROANILINE	0/28/WS	2010		1/SN	8
MW222	MW22	4-NITROPHENOL	SW8220	50(UJ		NG/L	8
MW222	MW22	ACENAPHIMENE	SWB270			NG/L	01
MW222	MW22	ACENAPHIMIENE	SWB270			UG/L	0
MW222	MW22	ACETONE	SW8260			NG/L	10
MW222	MWZZ	ALUMINUM	SW6010	2460U		ue/L	<u>6.1</u>



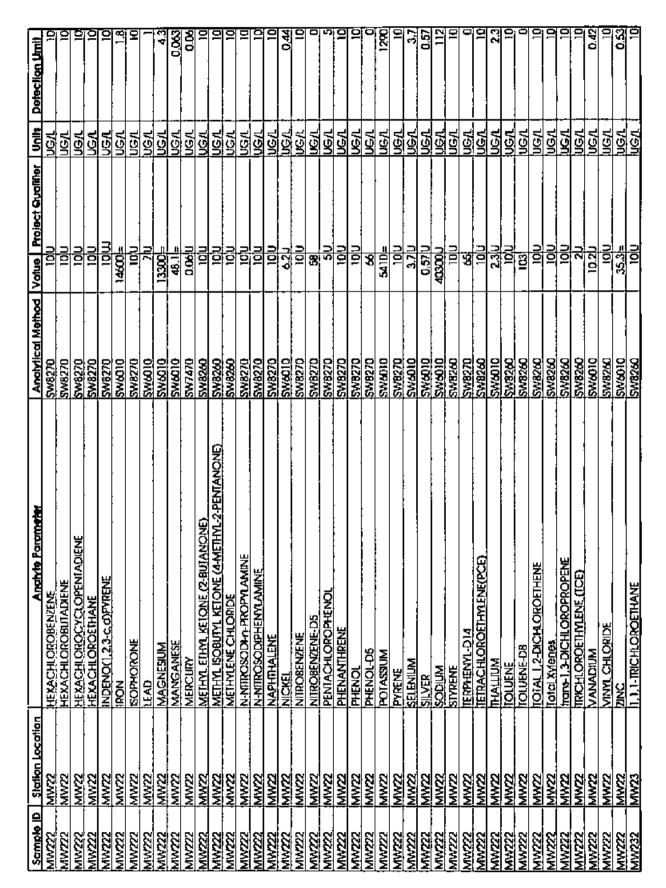
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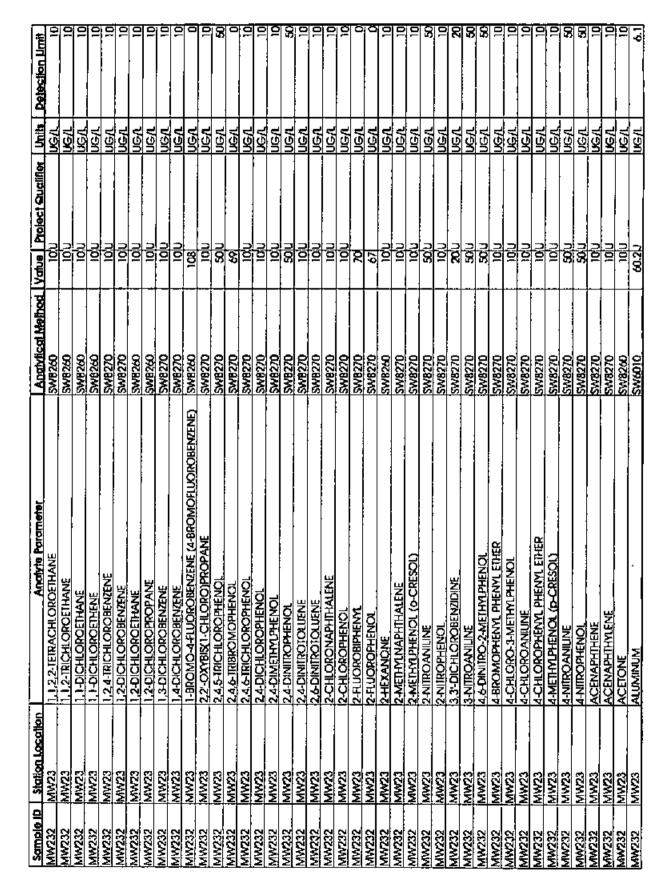


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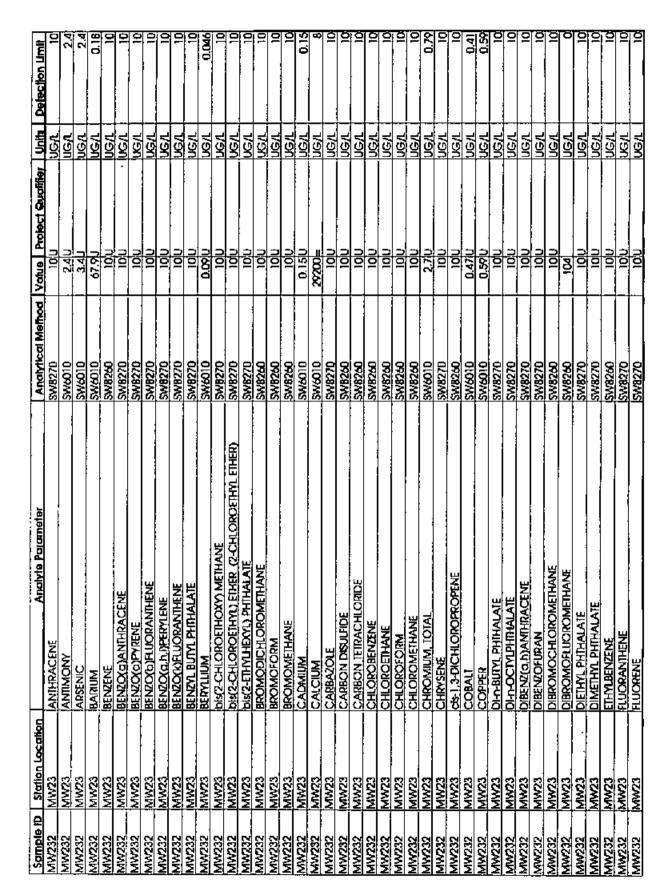


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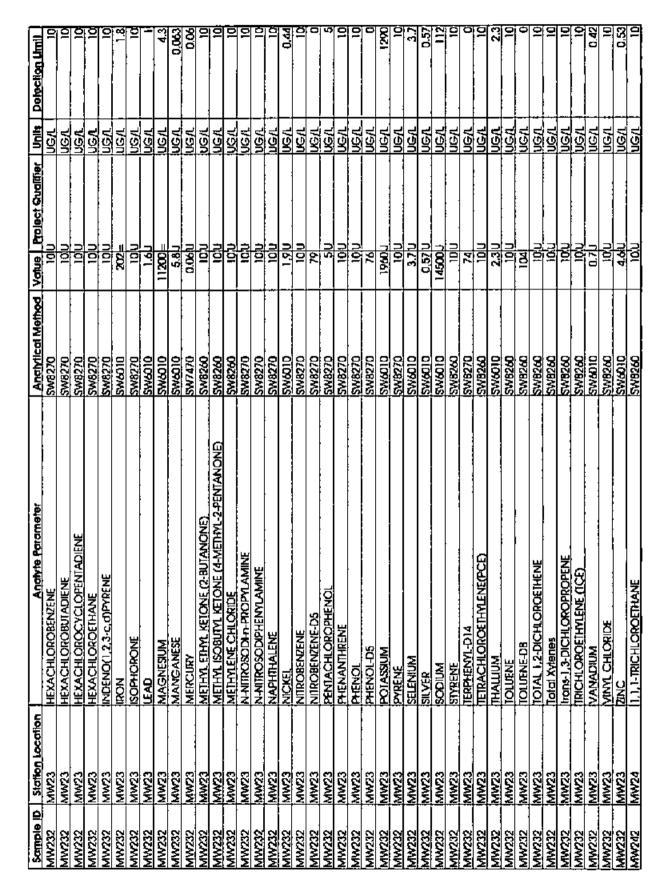
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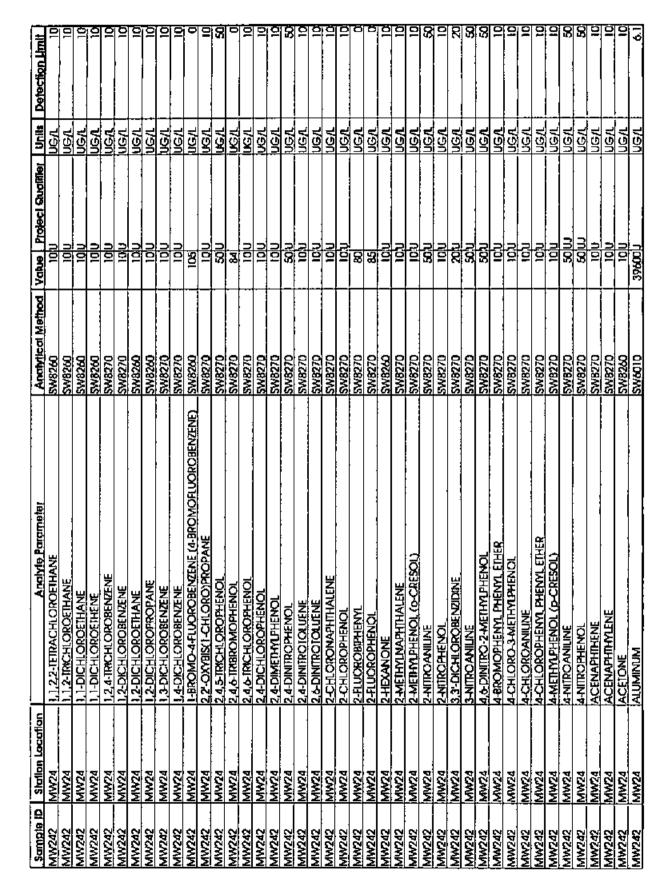
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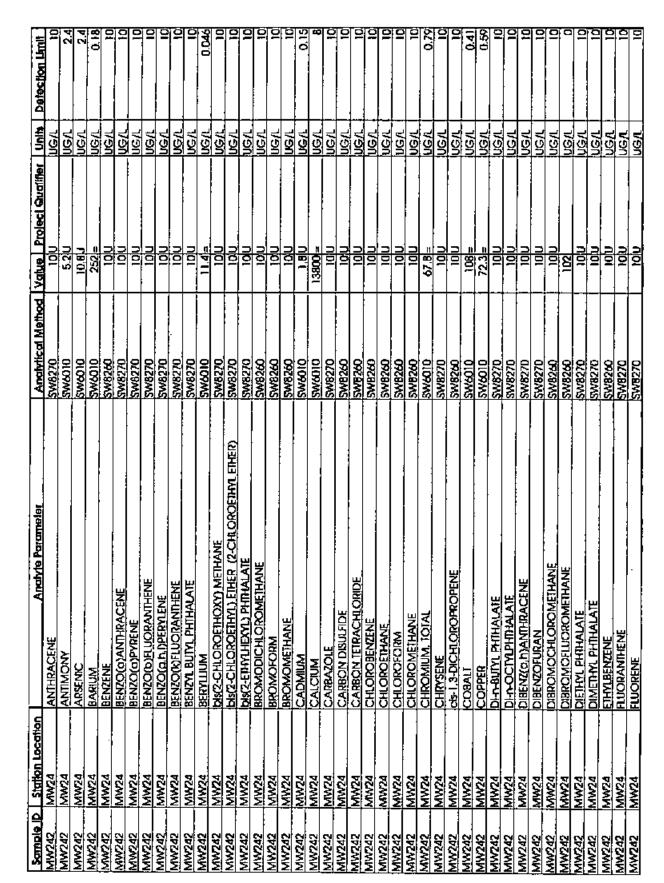


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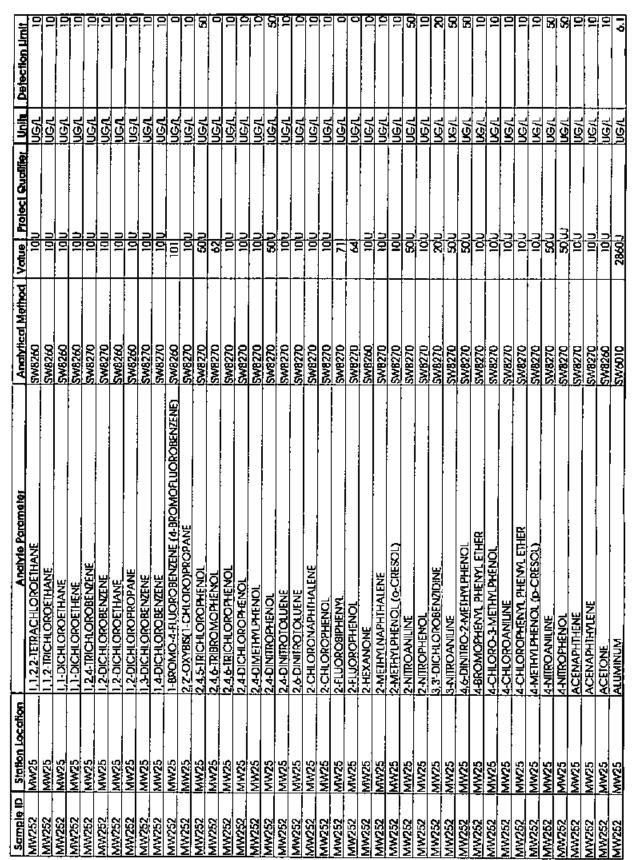
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HEXACHLOROBENZEI	SW8270		ИGЛ	01
HEXACHLOROBUTADIENE	SW8270	njai	UG/L	2
HEXACHLOROCYCLOPENIADIENE	SW8270	10,01	nG/L	2
HEXACHLOROETHANE	SW8270	101	NG/L	0
INDENO(), 2, 3-c, d)PYRENE	SW8270	njot	NG/I	9
IRON	SW6010	313000=	INGA	18.4
ISOPHORONE	SW8270	loi	NG/L	2
lead	SW6010	34.51	NG/L	
IMAGNESIUM	0109MS	-190 <u>-</u>	L L SU	4.5
MANGANESE	SW6010	1270=		0.063
MERCURY	SW7470	0.63=	UGAL	900
METHYL ETHYL KETONE (2-BUTANONE)	SW8260	101	NG/L	0
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	SWB260	101		2
METHMENE CHLORIDE	SW8260	0 DI	ne/L	
N-NITROSODH-PROPYLAMINE	SW8270	100	ING/L	10
N-MITROSODIPHENYLAMINE	SW8270		UG/L	10
INAPHTHALENE	SW8270	10 0	UG/L	01
[NiCKEL	SW6010	32.2	UG/L	0.44
NI ROBENZE NE	SW8270	10 01	UG/L	10
NITROBENZENE-D5	SW8270	18	UGA	
PENTACHLOROPHENOL	SWB270	50	UG/L	5
PHENANTHRENE	SW6270	101	UGA	10
PHENOL	SW8270	101	UGA	10
PHENOL-D5	SW8270	06	UG/L	0
POTASSIUM	SW6010	10000=	UGA.	1290
PYRENE	SW8270	001	UG/L	<u>10</u>
SELENIUM	SW6010	3.7 0	UGA	3.7
SILVER	SW6010	0.57	UGA	0.57
SODIUM	SW6010	r 00161 ]	NGA	112
STYRENE	SWB260	U 01	UGA	10
TERPHENYL-D14	SW8270	ES ES	nen	0
TERACHLORGETHYLENE(PCE)	SWB260		NGA	10
THALLUM	SW6010	2.3 U	NGA	2.3
TOLUENE	SW8260	10 U	UGA	10
TOLUENE-D8	SW8260	103	UGA	0
TOTAL 1,2-DICHLOROETHENE	SW8260	DIDI	UGA	10
Totat Xylenes	SW8260		UGA	10
frame-1,3-DICHLOROPROPENE	SWB260	<u> </u>	UGA	10
ITRICHLOROETHYLENE (TCE)	SW8260	טוסנ	NGA	10
VANADRUM	SW6010		NGA	0.42
VINYL CHLORIDE	SWB260		UGN NGN	
ZINC	SW6010	174=	UGA	0.53
I.J.J.FIRICHLOROETHANE	SW8260	10 U	NGA	
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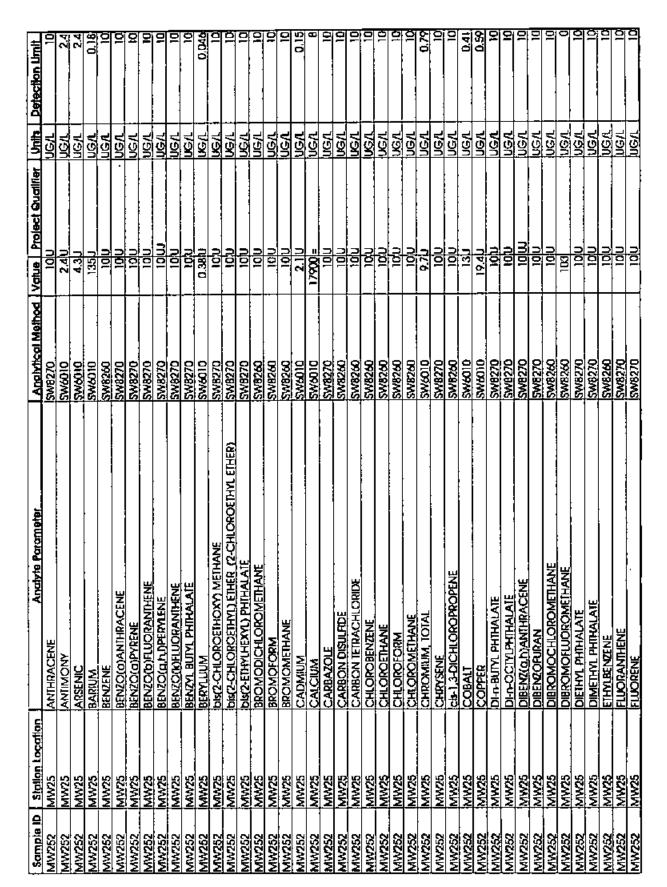
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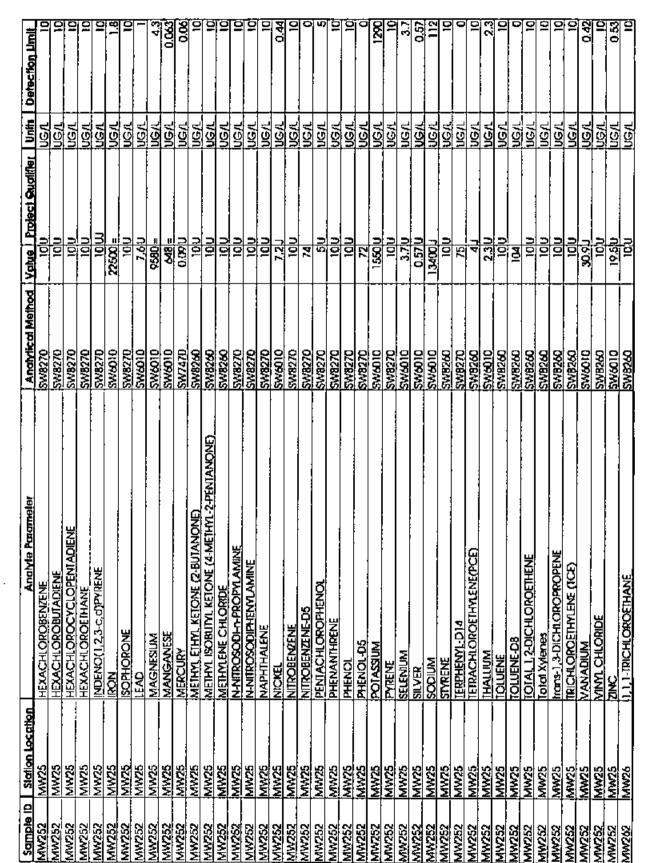
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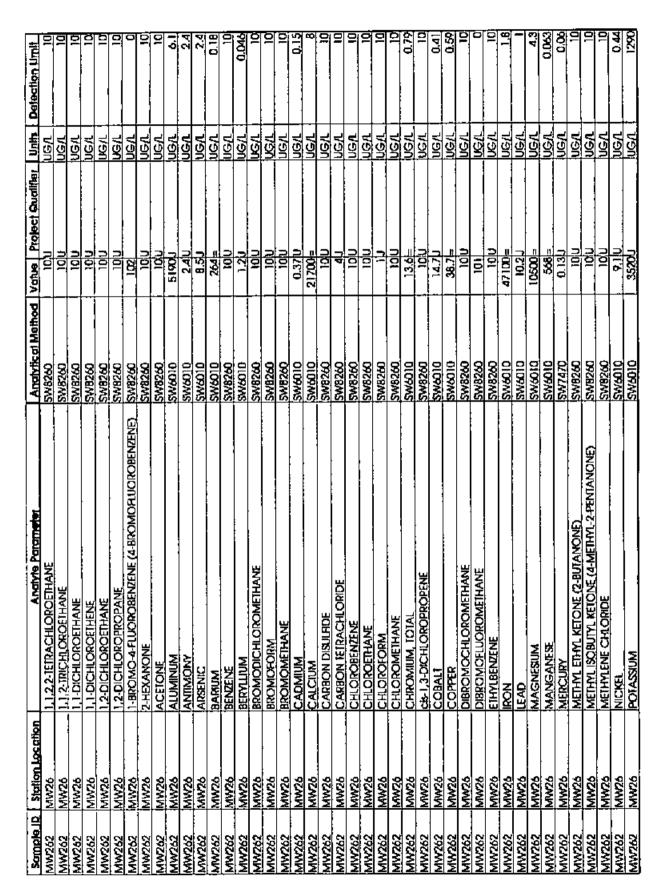


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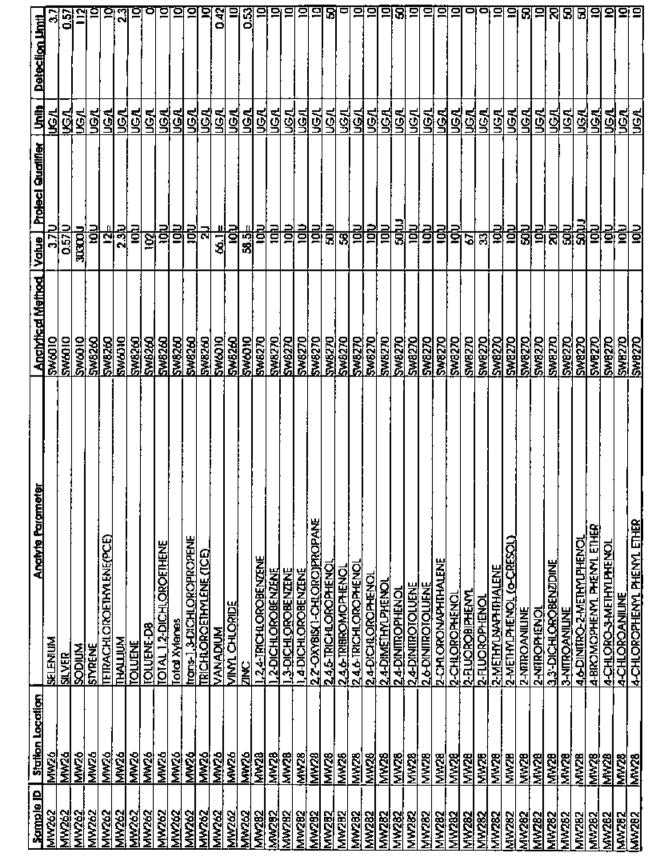
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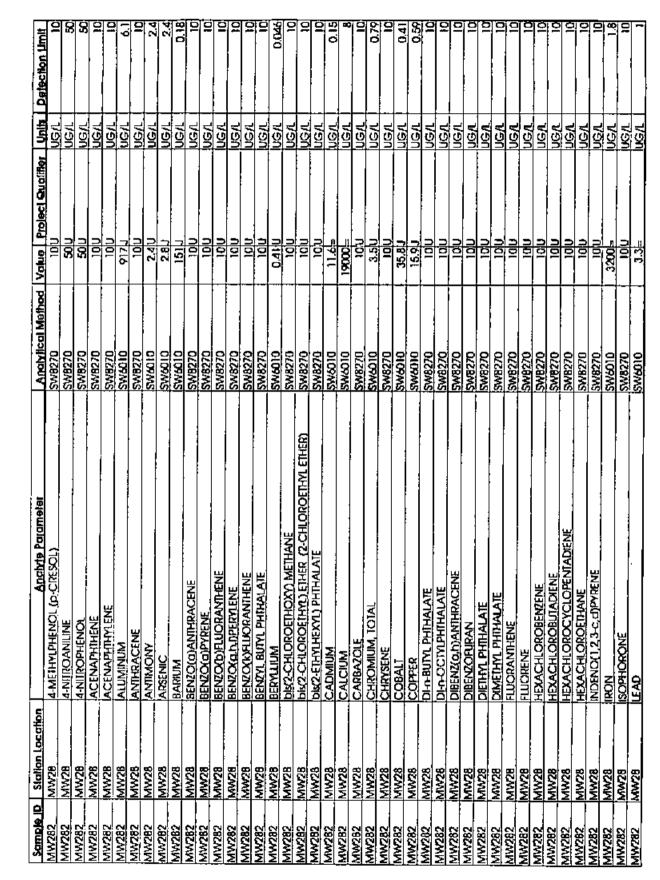
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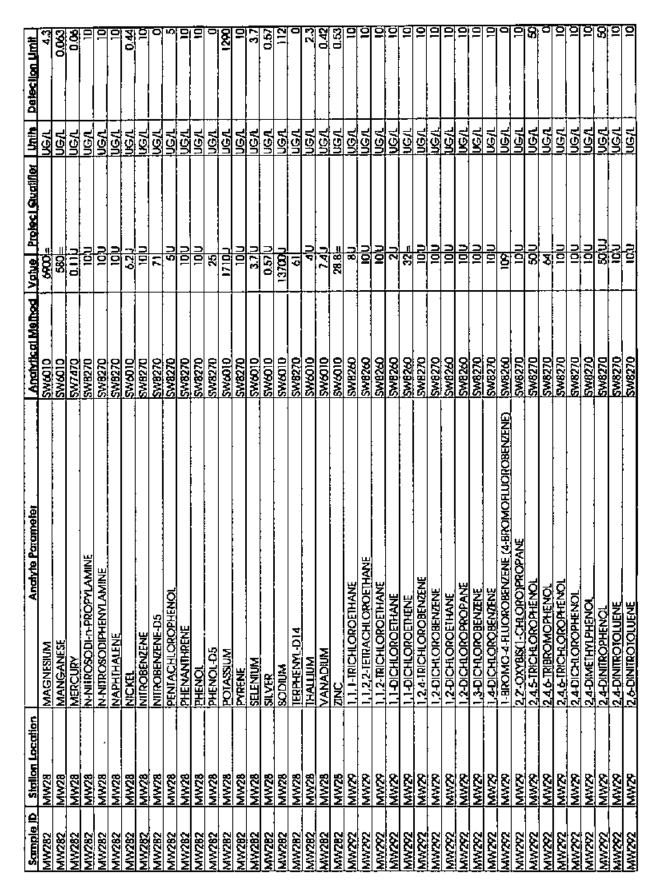


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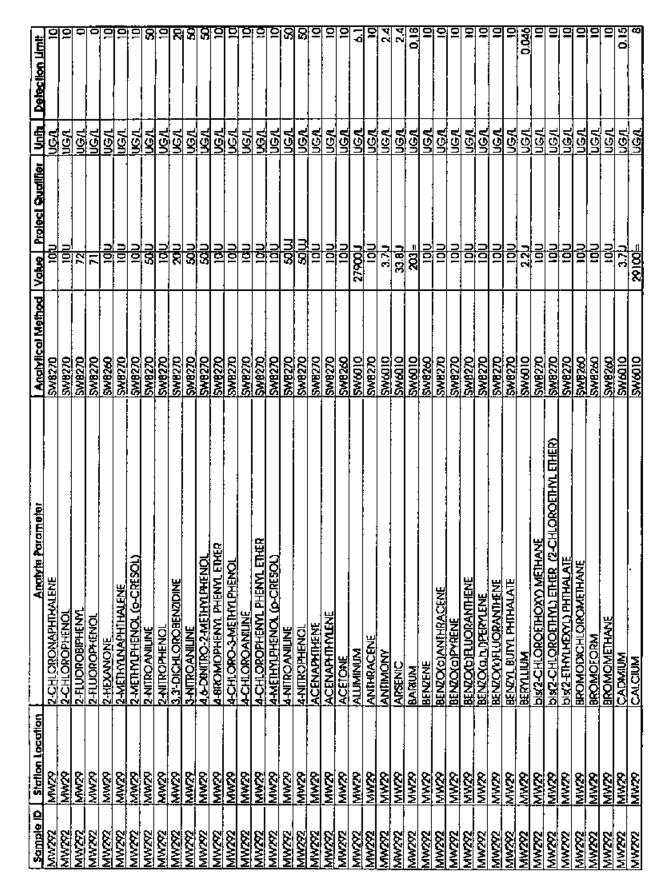
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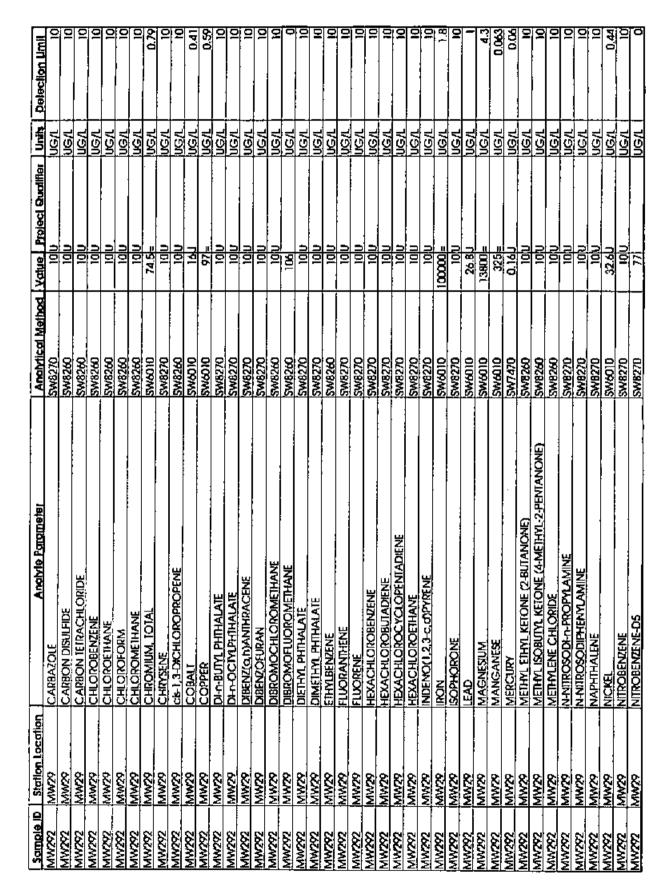
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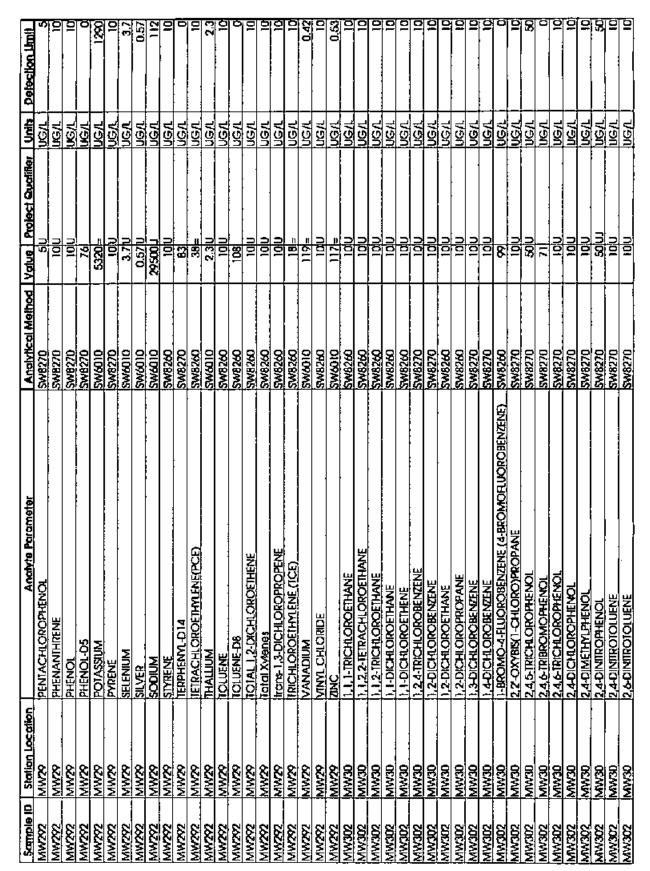
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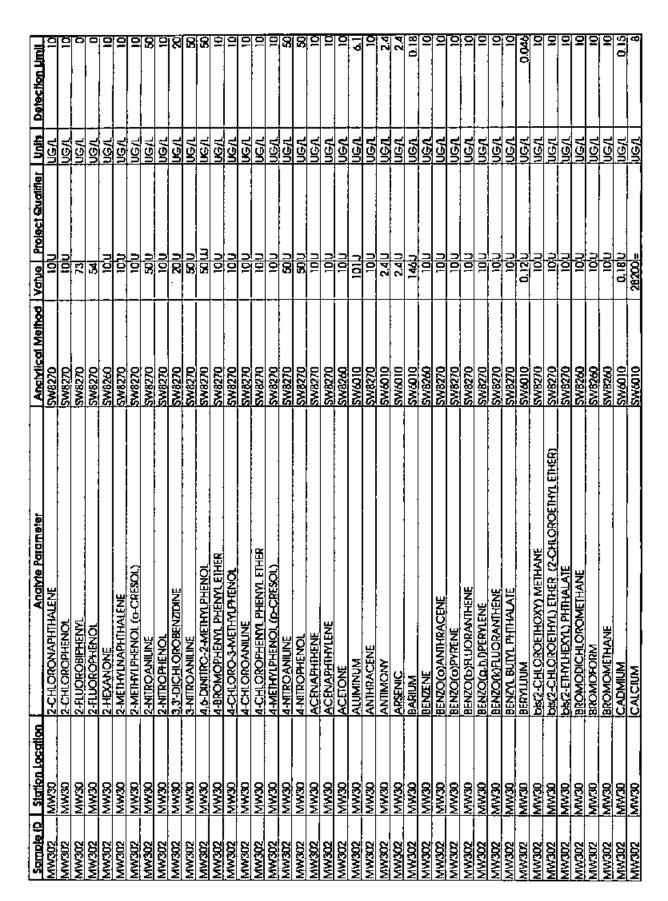


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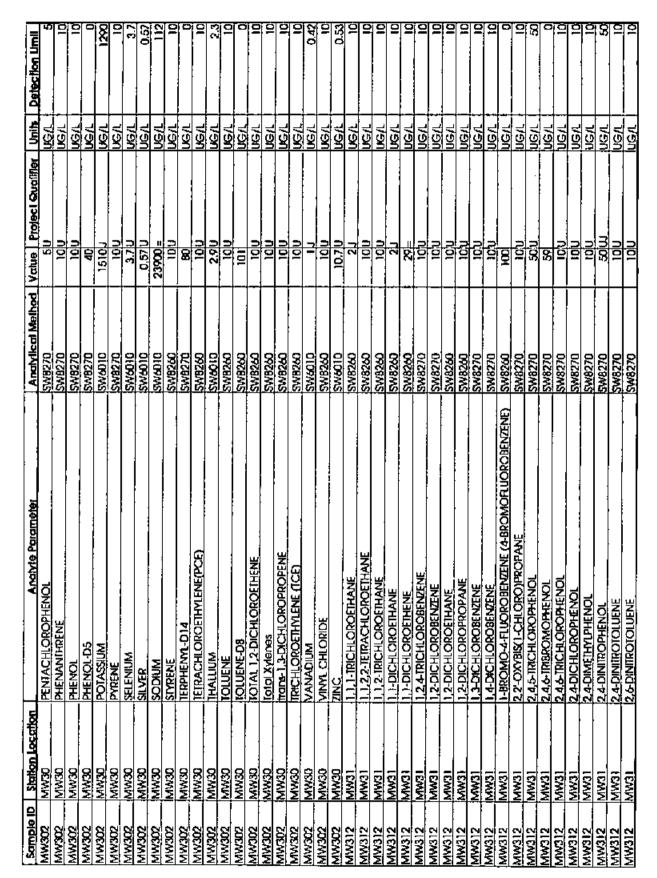
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Sample (D	Station Location	Analyte Parameter	Andryled Method	Value   Project Qualifier	E FE	Detection timit
MW302	MW30	CARBAZOLE	SW8270		NGU	10
MW302	MW30	CARBON DISULFIDE	SW8260	101	L V S N	
MW302	MW30	CARBON TETRACHLORIDE	SW8260	100	UGA	
ZDEWW	MW30	CHLOROBENZENE	SW8260	0 01		
MW302	IMW30	CHLOROETHANE	SW8260	101		
MW302	<u>IMW30</u>	CHLOROFORM	SW8260	lolu	<u>nci</u>	
MW302	MW30	CHLOROMETHANE	SW8260	100	NG/L	
MW302	DEWM	CHROMIUM, IOIAL	SW6010	40	UGA	0.79
MW302	<u>MW30</u>	CHRYSENE	SW8270	100	NG/L	
<u>MW302</u>	MW30	CS-1, 3-DICHLOROPROPENE	SW8260	lou	NG/1	
<u>MW302</u>	<u>ww30</u>	COBALT	SW6010	1.30	NG/L	0.41
MW302	MW30	СОРРЕР	5W6010	6.4U	nev	0.50
MW302	MW30	DH-n-BUTYL, PHTHALATE	SW8270	Jau	L U U U	10
MW302	MW30	DH-M-OCTYUPHTHALATE	SW8270	100		
MW302	MW30	DIBENZ(Q, h)ANTHRACENE	SW8270	Idu	- NON	
MW302	MW30	DIBENZOFURAN	SW8270	10.0	NGA UGA	
MW302	MW30	DIBROMOCHLOROMETHANE	SW8260	nol	NG/L	0
MW302	MW30	DIBROMOFLUOROMETHANE	SW8260	1001	LQ.	0
MW302	MW30	DIETHAL PHITHALATE	SW8270	1001	NG/L	
MW302	MW30	DIMETHYL PHTHALATE	SW8270	100		
MW302	MW30	ETHYLBENZENE	SW8260	100	NG/L	
<u>MW302</u>	0EWM	FLUORANTHENE	SW8270	not	UG/L	
MW302	0EWM	FLUORENE	SW8270	101	UG/L	9
ZOEWW	MW30	HEXACHLOROBENZENE	SW8270	IQU	UG/L	2
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MW302	MW30	HEXACHLOROETHANE	SW8220	10 01	NG/L	
MW302	MW30	NDENO(1,2,3-c,d)PYRENE	SWB270	101	ไป	2
MW302	MW30	NOI	SW6010	204 =	NG/L	1.8
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MW302	MW30	LEAD	SW6010	11	ופע	-
MW302	MW30	MAGNESIUM	SW6010	14500=	UG/L	4.3
MW802	MW30	MANGANESE	SW6010	L7.7	UGA I	0.063
MW302	MW30	MERCURY	<u>\$W7470</u>	0.06U	חפע ן	0.0
MW302	MW30	21	SW8260	1010	UGA.	01
MW302	MW30	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	SW8260	<u>ulot</u>	UG/L	01
MW302	MW30	METHYLENE CHLORIDE	SWB260	10/0	NG/L	2
MW302	MW30	IN-NITROSODI-IN-PROPYLAMINE	SW8270		UG/L	ā
MW302	MW30	N-NITROSODIPHENYLAMINE	SW8270	1010	UG/L	10
MW302		NAPHTHALENE	SW8270	101	NG/L	2
MW302	MW30	NICKEL	SW6010	7.8U	1 US	0.44
20EWM		NITROBENZENE	SW827D	100	NG/L	10
MW302	MW30	NI IROBENZENE-DS	SW8270	85	ИGЛ	D

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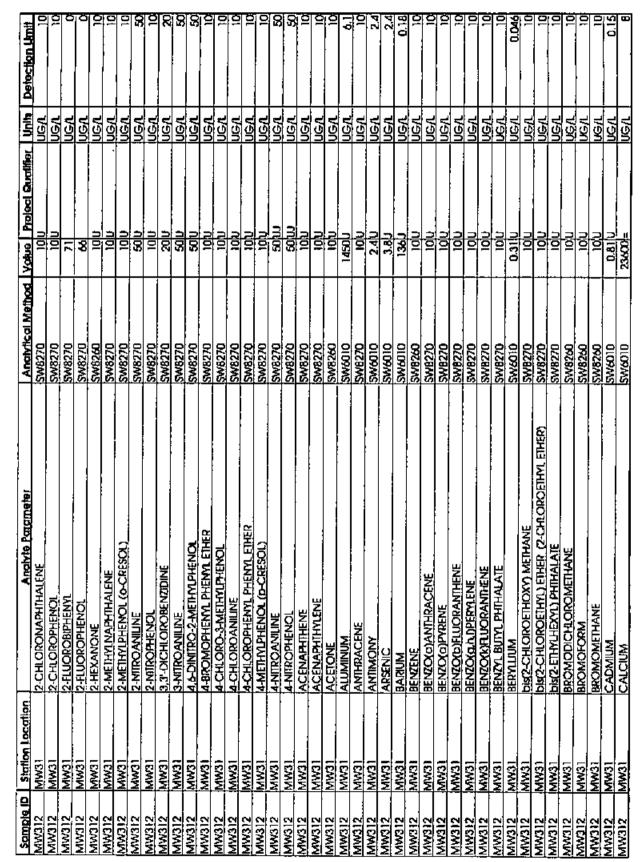
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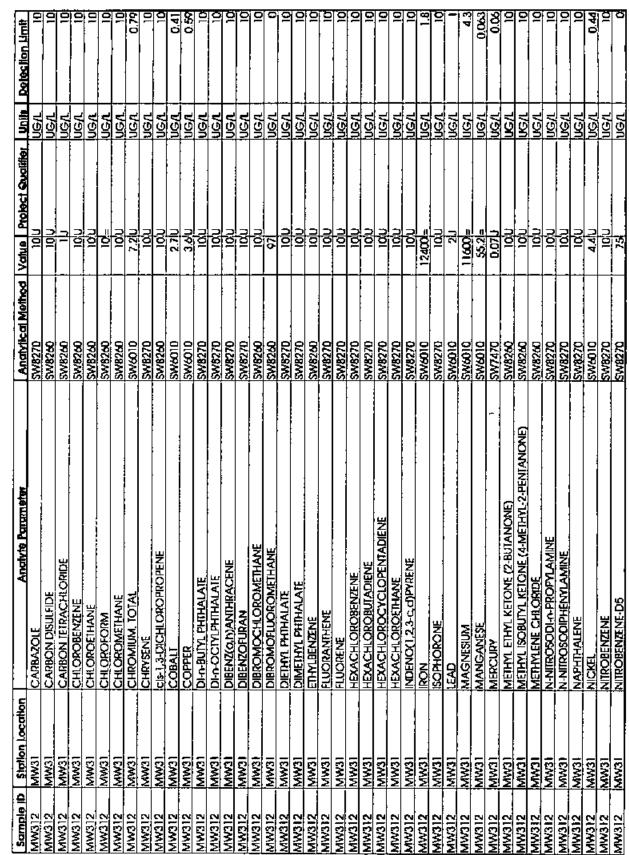
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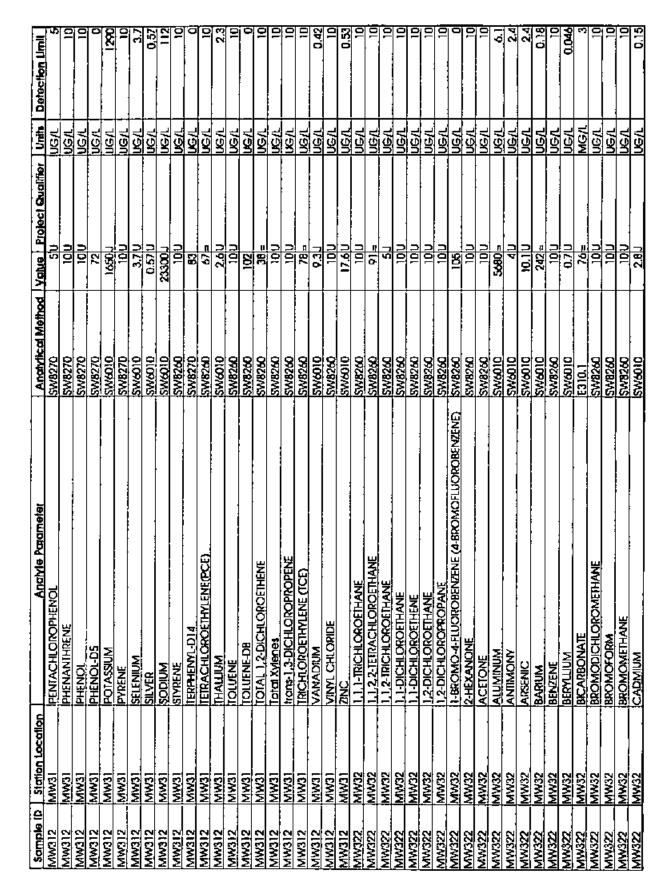
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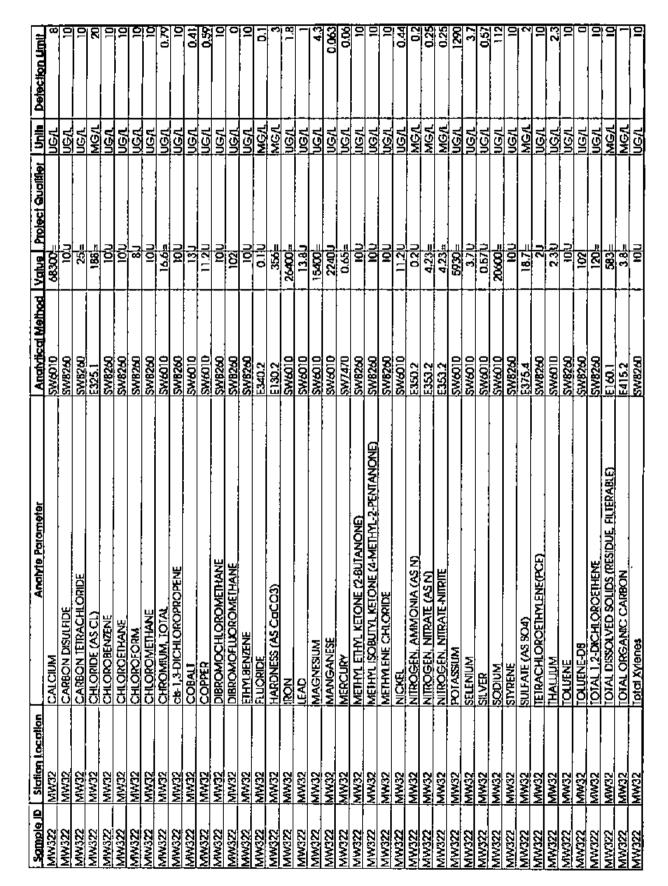




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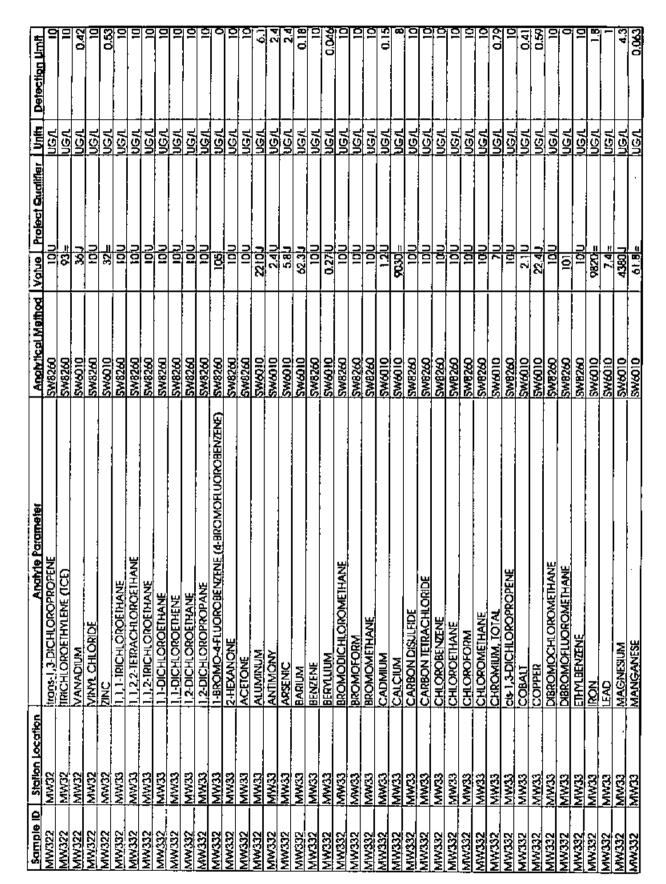
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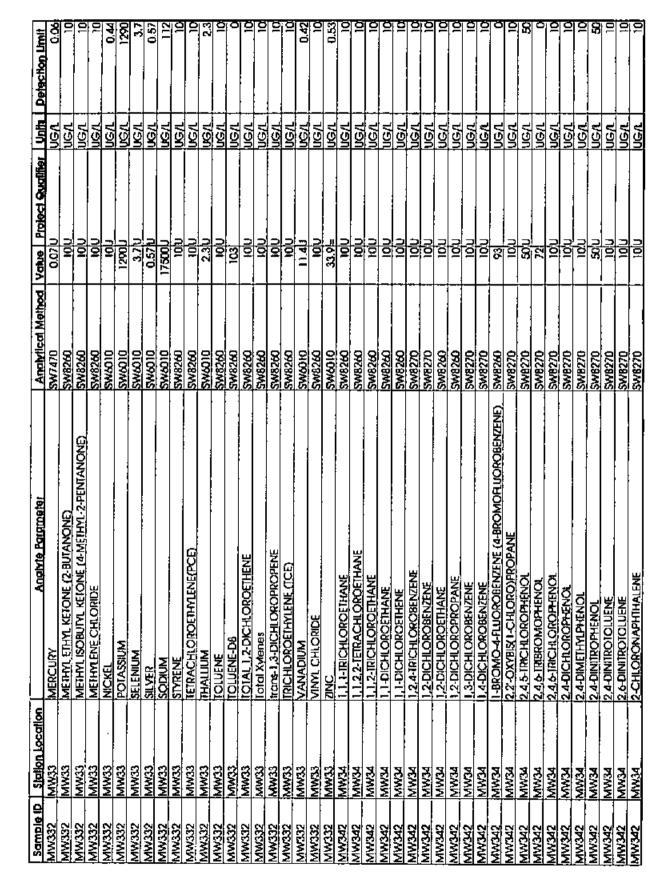
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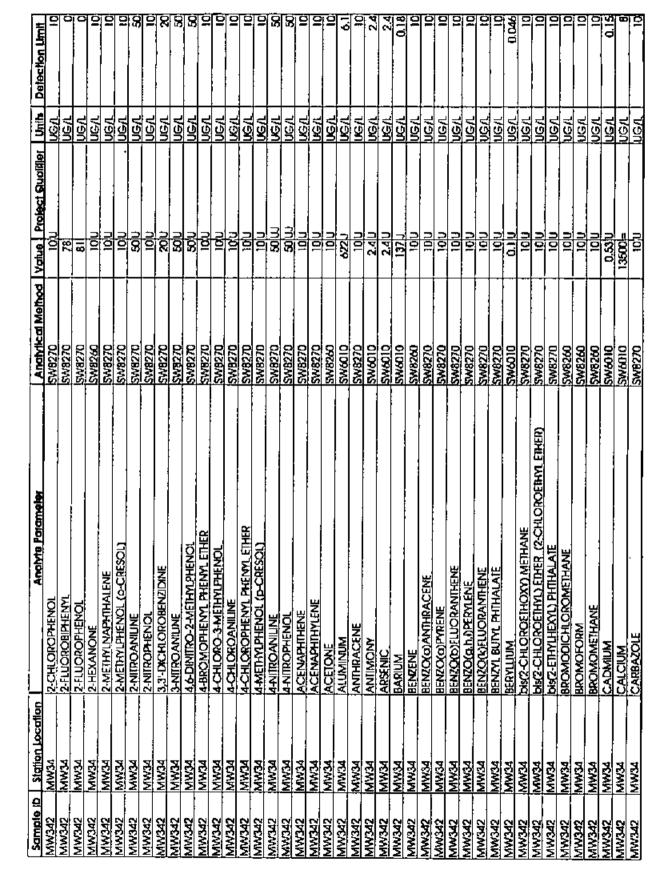
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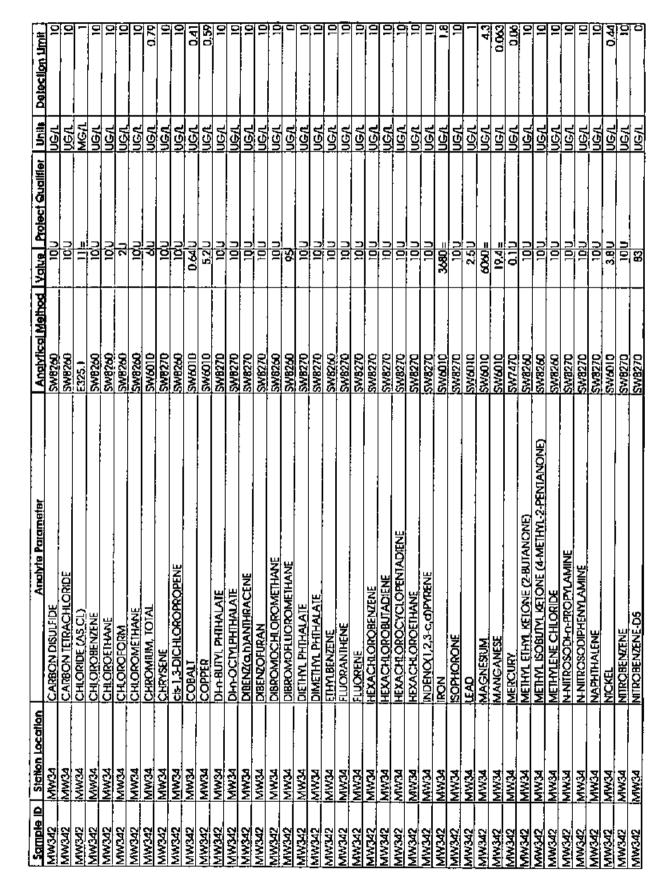
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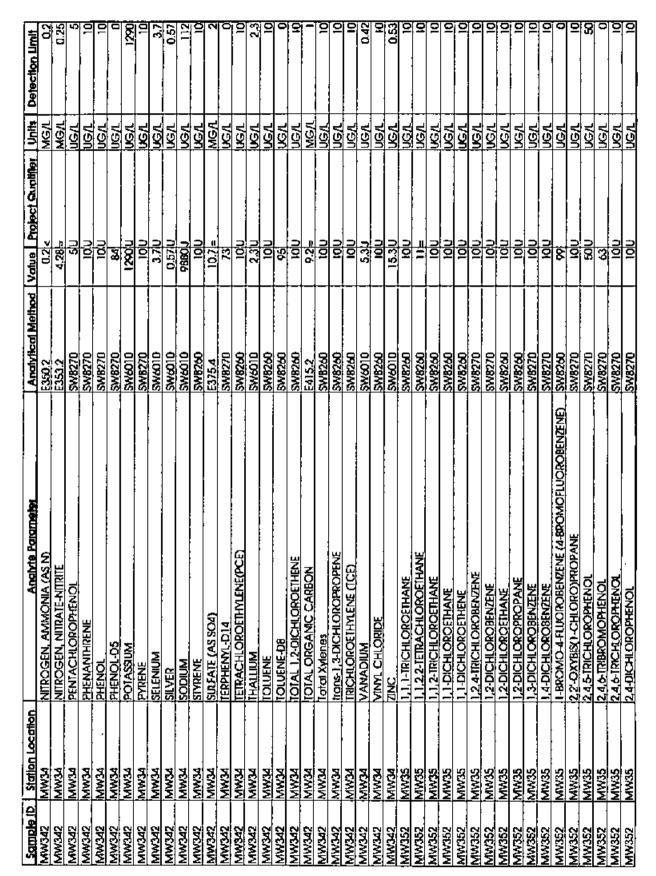
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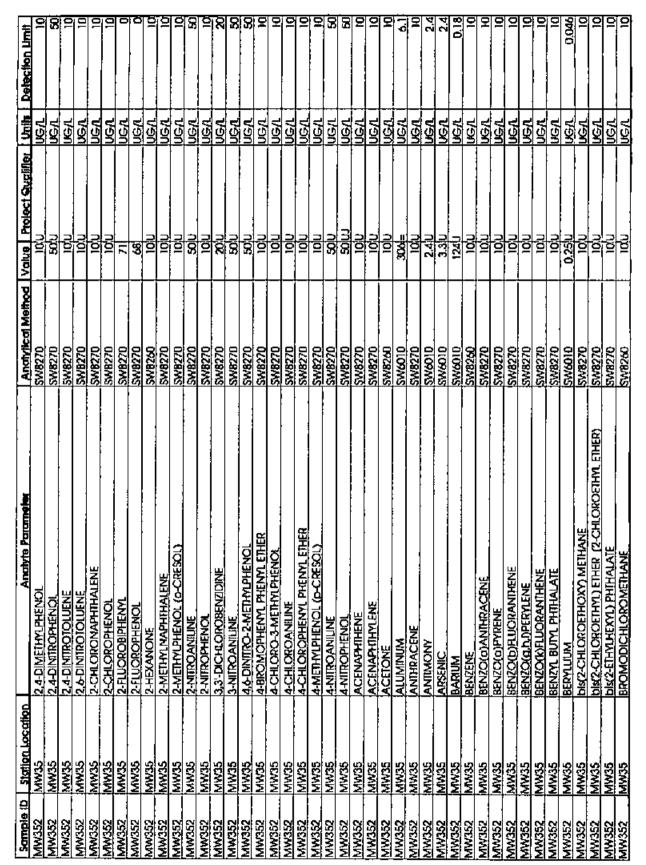
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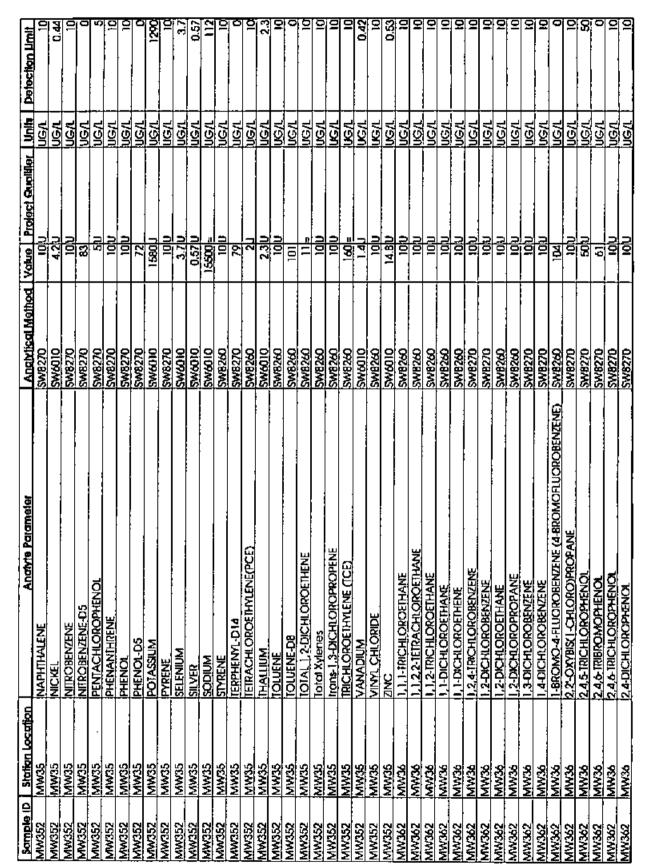
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MW352         MW352           MW352         MW355           MW3552         MW355			Sw8260 Sw8260 Sw6010 Sw6010 Sw6010 Sw8270	10 U 10 U 0.28 U	7/9/1 9/9/1	01
		ETHANE ETHANE BRACH DRANE ETHANE ETHANE ETHANE	Sw8260 Sw6010 SW8210 SW8270	10U D.28U	T Su	9
		E ERACHI DIANE DIANE DIANE DIANE DIANE DIANE DIANE	QLCBMS QLCBMS	0.2811	Ş	
		E ERACHI DIANE M. TOTALE	SW6010 SW8270		190	0.15
		E ERACH DIANE I TOTALE I TOTALE I TOTALE	SW8270	15100=	ne/r	. 40
		NULFID ELRACH ENZENE ORM I TOTAL		N01	NG/L	
		CIRACH CI	SW8260	N OI	UC/L	10
		ENZENE HANE IETHANE HLOROF	SWB260	noi	NG/L	
		HANE RETHANE M. TOTAL	SW8260	n'oi	UG/L	
		DRM IETHANE HLOROF	SW8260	njoi	NG/L	9
		M. TOTAL	SW8260		NG/L	
		N, TOIA	<u>5W8260</u>	Not	UG/L	101
		HLOROF	SW6010	3.8U	UG/L	0.79
			SW8270	nol	UG/L	
			<u>SW8260</u>	IOU	NG/L	0
			SW6010	2.20	VSN	0.41
			SW6010	1,3[U	NG/L	0.50
		UHTBUITLEHIHALAIE	SW8270	noi	NG/L	10
		DI-0-OCTVIDHIHAUATE	SW8270		UG/L	
		DIBENZ(Q,h)ANTHRACENE	SW8270	noi	UGA	
		DIBENZOFURAN	SW8270	noi	ne/r	
		DIBROMOCHLOROMETHANE	SW8260	101	UG/L	
		DUBROMOFLUOROMETHANE	SW8260	8	NGA	0
	ð	DIETHM, PHTHALATE	SW8270	10 0	ne/r	10
		dimethen. Phythalare	SW8270		UG/L	10
	H	ETHYLBENZENE	SW8260	IDIO	NG/L	
Ī	Ē	FLUORANTHENE	SW8270	10I	NG/L	01
		FLUORENE	SW8270	100	NG/L	10
	<u> </u>	HEXACHLOROBENZENE	SW8270	noi	NG/L	101
MW352 MW35	Ŧ	HEXACHLOROBUTADIENE	SW8270	0 D	ne/L	0
	Ĩ	HEXACHLOROCYCLOPENTADIENE	SW8270	1010	חפ/ר <u> </u>	10
	<u><u><u></u></u></u>	HEXACHLOROETHANE	SW8270	0 DI	NGA.	01
	Z	INDENO(1,2,3-c,d)PYRENE	SW8270	1010	UG/L	01
MW352 MW35	Ĕ	IRON	SW6010	1640=	NG/L	1.8
	X	ISOPHORONE	SW8270	0 DI	UG/L	10
	LE.	LEAD	SW6010	10	NG/L	1
	¥	MAGNESIUM	SW6010	7250=	ING/L	4.3
	W	MANGANESE	0109/MS	18.2		0.063
MW352 MW35	W	MERCURY	SW7470	0.06U	NG/L	0.06
-	W	METHAL ETHYL KETONE (2-BULANONE)	SWB260	100	NG/L	0
	N I	<u>METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)</u>	SWB260	101	NGA I	10
	×	METHMLENE CHLORIDE	SW8260	101	ING/L	10
	ź	N-NITROSODH-1-PROP/LAMINE	SW8270	101	UG/L {	10
MW352  MW35	ź	N-NITROSODIPHENYLAMINE	SWB270	1010		01

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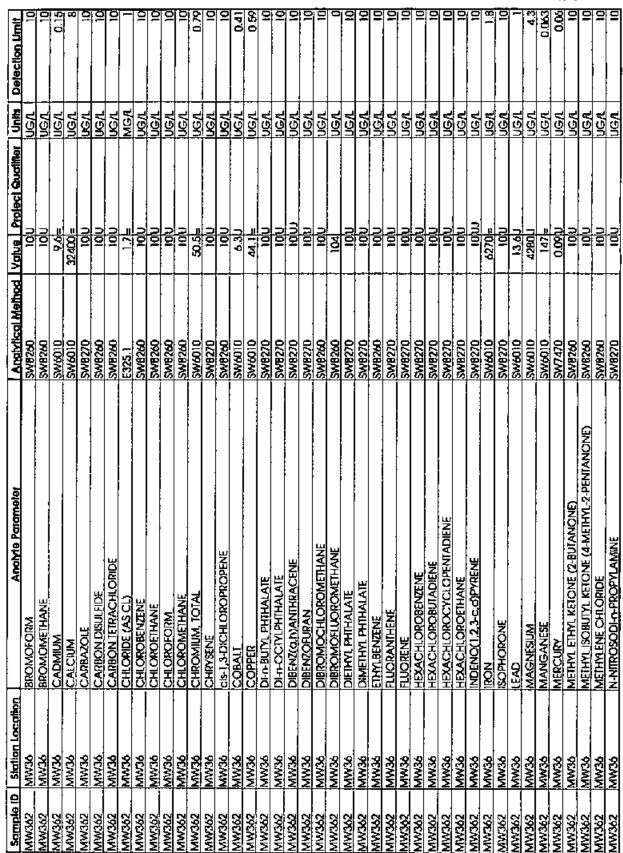
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Sample D	Sintin Location	Antilvta Principatar	Andrined Mathem	Votice Protect Orindifian	The second secon	Datactics Linei
MW362	-	2.4-DIMETHYLPHENOL	SW8270	4-22	1-	
MW362	MW36	2.4-DINITROPHENCA	CURO TO	E011		2
CAPANA	MWAA					
200AAAA	TUTIN		017000	<u>n :</u>	1	
ZOCANIAI	DCANA		DV29MC		NG/F	
29EWW	9EWW	2-CHLORONAPHIHALENE	SW8270	<u>101</u>	UG/L	0
<u>MW362</u>	MW36	2-CHLOROPHENOL	SW8270	10 0	UG/L	0
MW362	MW36	2-FLUOROBIPHENYL	SW8270	58	UGA.	0
29EMW	MW36	2-FLUOROPHENOL	SW8270	63	UGA	
MW362	MW36	2-HEXANONE	SW8260	<u>no</u>	NGA	
MW362	9EWW	2-METHYLNAPHTHALENE	SWB270	1010	L S	
MW362	9CMW	2-METHYLPHENOL (o-CRESOL)	SW8270	101	ЧЭN	
MW362	IMW36	1 1	SW8270	5010	ne <b>n</b>	33
MW362	MW36	2-NITROPHENOL	SW8270	KOT	UGN	
MW362	MW36	3,3'-DICHLOROBENZIDINE	SWB270	20D	L S L	8
MW362	MW36	<b>B-NITROANILINE</b>	SW8270	501)	NGN	5
MW362	MW36	4,6-DINITRO-2-METHYLPHENOL	SWB270	5010	ч Эл	3
MW362	MW36	4-BROMOPHENYL PHENYL ETHER	SW8270	1010	UGA	10
MW362	MW36	A-CHLORO-3-METHYLPHENOL	SW8270	NOI	ЧGЛ	0
MW362	MW36	4-CHLOROAMLINE	SW8270	101	NGA	10
MW362	MW36	A-CHLOROPHENYL PHENYL ETHER	SW8270	101	NG/L	0
MW362	MW36	A-METHYLPHENOL (D-CRESOL)	SW8270	ion j	UC/L	
MW362	MW36	4-NITROANILINE	SW8270	2017	nG/L	3
MW362	MW36	A-NITROPHENOL	SW8270	Solui	NG/	3
<u>MW362</u>	MW36	ACENAPHINENE	SW8270	nlot	nen.	0
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MW362	MW36	ALUMINUM	SW6010	4660	UG/L	<b>6</b> .1
MW362	MW36	ANTHRACENE	SW8270	100	UGA	0
MW362	MW36	ANTIMONY	SW6010	3.9 U	NGA	2.4
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MW362	MW36	BENZENE	SW8260	10 0	UGA	01
MW362	<b>DEWM</b>	BENZO(D)ANIHRACENE	SW8270	10 0	NGV	10
MW362	MW36	BENZO(a)PYRENE	SW8220	. 10 <mark>1</mark> 0	UG/L	10
MW362	MW36	BENZO(D)FLUORANTHENE	SW8270	101	UGA_	D
MW362	MW36	BENZO(Q.h.)PERYLENE	SW8270	Idu	UG/L	Ö
MW362	MW36	BENZOCKIFLUORANTHENE	SW8270	101	NGA	
MW362	MW36	BENZY, BUTYL PHTHALATE	SW8270	nor	UG/L	
MW362	MW36	BERYLUM	SW601D	0.38U	UGA	0.046
MW362	MW36	bis/2-CHLOROETHOXY) METHANE	SW8270	1010	NG/L	01
MW362	MW36		SW8270	10U	UG/L	01
296WM	MW36	bls(2-ETHYLHEXYL) PHTHALATE	SW8270	110	лсл	01
MW362	MW36	BROMODICHLOROMETHANE	SW8260	10 U	10G/L	10

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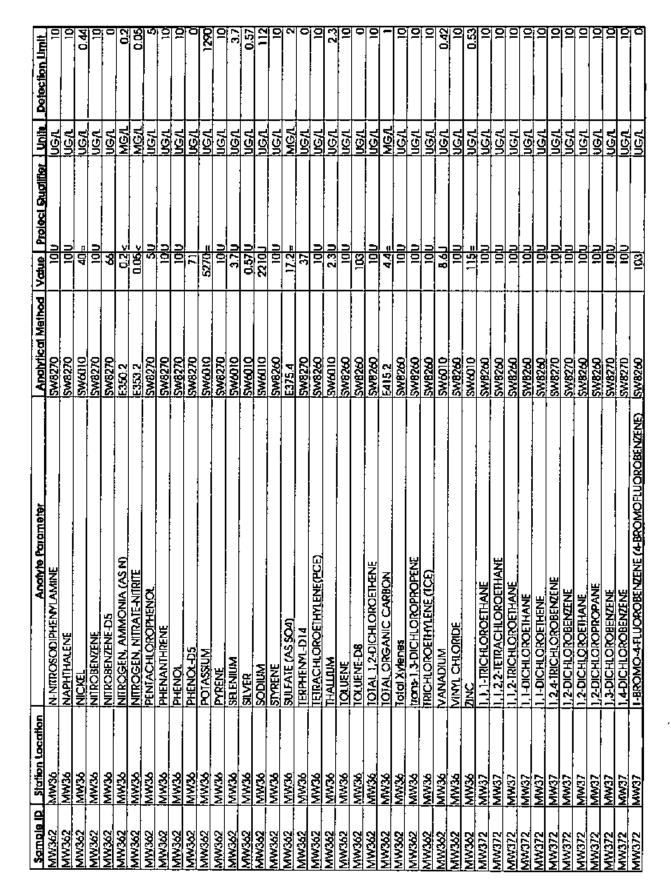
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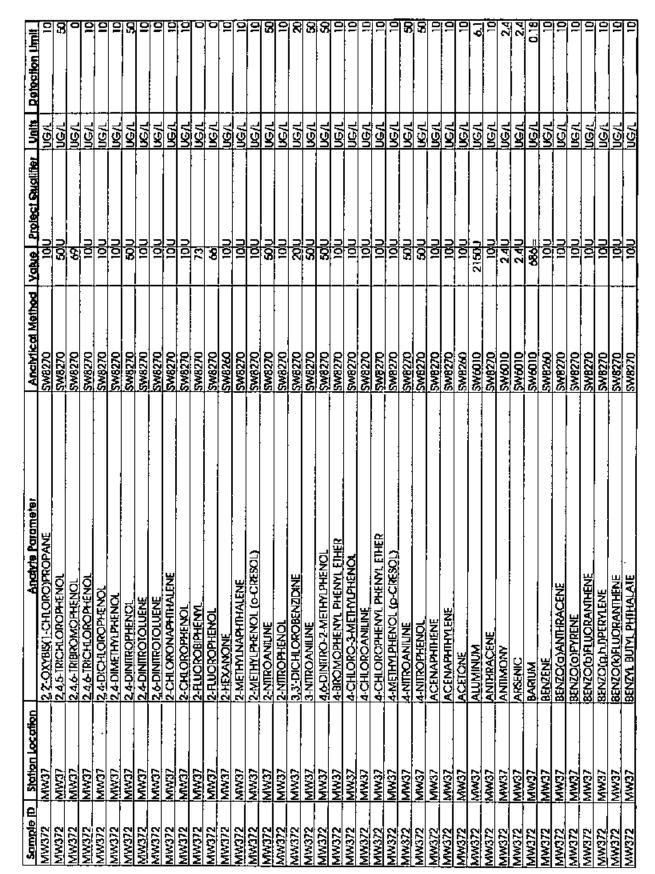
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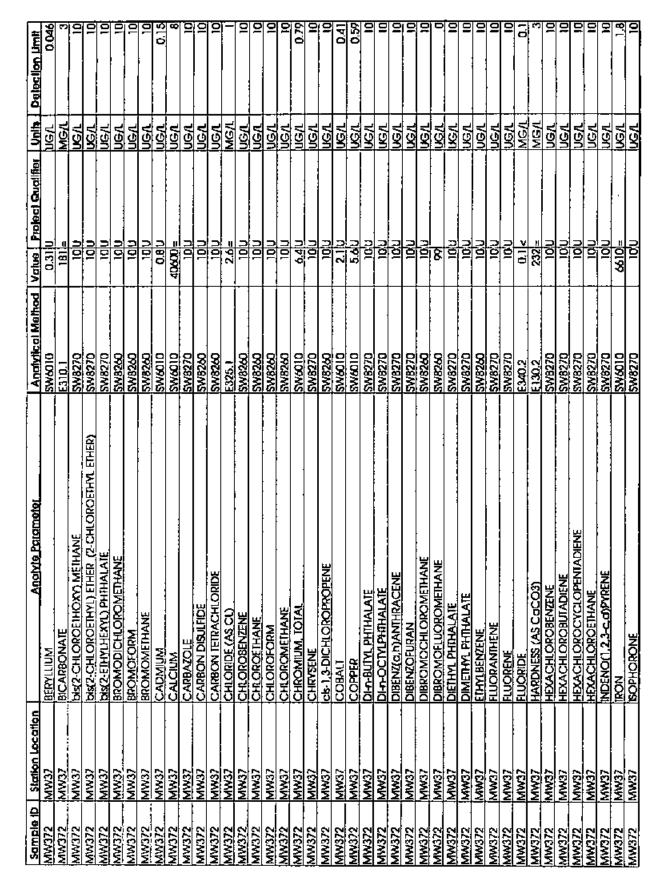


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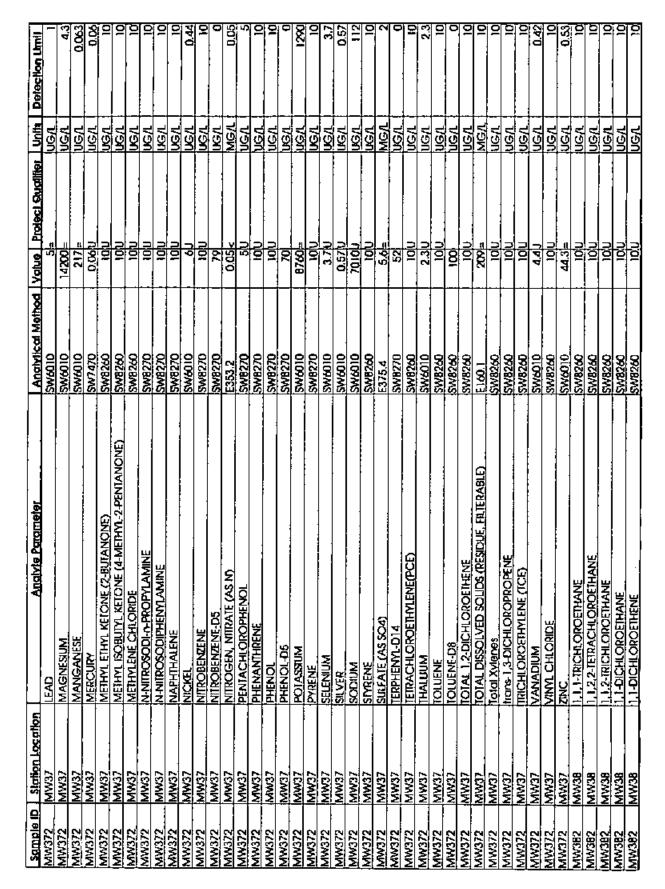
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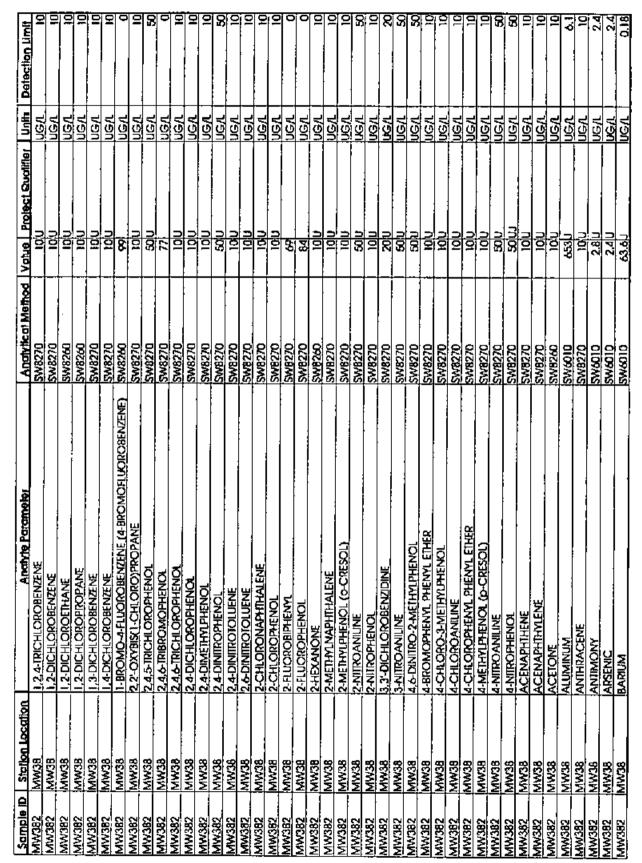


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Sample (D	Station Location	Analytie Parameter	Andivited Method	Votua Protect Sucilifier	India Data	Detection Itali
MW382	85WM	BENZENE	SW8260	_	╋	
MW382	MW36	BENZO(0)ANTHRACENE	SW822D	1011	100	
MW382	MW38	BENZO(a)PYRENE	SW8270		100	
28CWM	MW38	BENZO(D)FLUORANTHENE	SW8270			
MW382	BEWIM	BENZOKA, A, DPERMENE	SW8270			
<u>MW382</u>	8CWM	BENZO(X)FLUORAMTHENE	SW8270	101	IICU IICU	
<u>MW382</u>	MW38	H F	SW8270	C O1	nev.	10
<u>MW382</u>	MW38	BERYLLIUM	SW6010	0.06U		0.046
MW382	MW38		SW8270	101	UG/L	01
MW382	MW36	bis/2-chloroethyl) ether (2-chloroethyl ether)	SW8270	100	UG/L	
MW382	MW3B	DISC2-ERMLHEXML) PHTHALATE	SW8270	151	NGA	
<u>MW382</u>	MW38	BROMODICHLOROMETHANE	SW8260	101	UGA	
28CWM	MW38	BROMOFORM	SW8260	101	UG/L	
MW382	MW38	BROMOMETHANE	SWB260	101		
<u>MW382</u>	MW38	CADMIUM	0109///5	50.65	UGAL	0.15
<u>MW382</u>	<u>MW38</u>	CALCIUM	0109/WS	28100=	UGA.	
MW382	MW38	CARBAZOLE	SW8270	101	UG/L	
	MW38	CARBON DISULFDE	SW8260	101	UGA.	2
	MW38	CARBON TETRACHLORIDE	SW8260	lolu	UGA	2
	MW38	CHLORIDE (AS CL)	E325.1	10.2=	MGA	<u>}</u>
	MW38	CHLOROBENZENE	SW8260	lol	NGA	10
	MW38	CHLOROETHANE	SW8260	101	nen	
	MW36	CHLOROFORM	SW8260		UGA	
	MW38	<b>CHLOROMETHANE</b>	SW8260	101	UGA -	
	BEWM	CHROMIUM, TOTAL	SW6010	= 11.2=	UG/L	020
	MW38	CHRYSENE	SW8270	101		
	MW38	cis-1,3-DICHLOROPROPENE	SWB260	00	NG/L	: :
	BCWW	COBALT	SW6010	20	UG/L ]	0.41
	MW38	COPPER	SW6010	35.310	UG/L	0.59
	MW38		SW8270	10'0	UGA	01
		DI-n-OCTYLPHTHALATE	SW8270	10(1	NGA	2
Τ		DIBENZ(Q,h)ANTHRACENE	SW8270	10(U)	UGA	01
		DIBENZOHURAN	SW8270	UDI	NGA	10
Ĩ		DIBIROMOCHLOROMETHANE	SW8260	10[U	UGA	e
		DIBROMOFLUOROMETHANE	SW8260	100	UGA	
			SW8270	10[0	иел	9
		<u>DIMETHML PHTHALATE</u>	SW8270	10 0	UG/L	0
		ETHMLBENZENE	SW8260	Uat	UG/L	101
		FLUORANTHENE	SW8270	Ulat	UG/L	
		FLUORENE	SW8270	101	NG/L	
	İ	HEXACHLOROBENZENE	SWB270	100	uG/t	
		HEXACHLOROBUTADIENE	SWB270	001	UGIL	
MW382	IMW36	HEXACHLOROCYCLOPENTADIENE	SW8270	nlor	NGAL	2

Analytical Results
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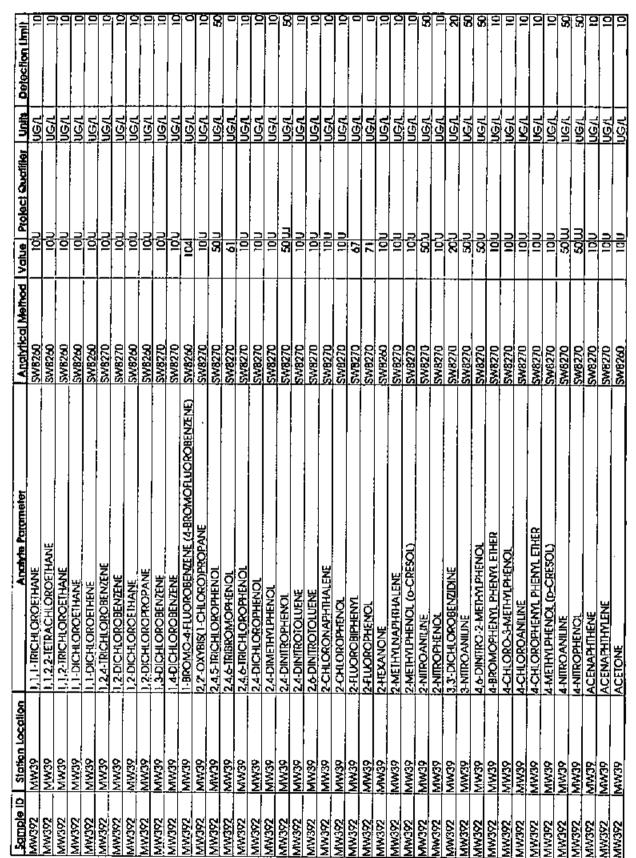
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<b>Ginnola</b> [D	Statton Location	Analyte Parameter	Anchriscel Method	Vatue Project Qualifier	udifier Units	Detection timit
<u>MW382</u>	MW38	HEXACHLOROETHANE	SW8270	10 0	-	
<b>MW382</b>	MW38	INDENO(1,2,3-c,d)PYRENE	SW8270	10101	NG/L	01
MW382	imw38	IRON	SW6010	1750=	NG/L	1.8
MW382	MW38	ISOPHORONE	SW8270	NOL	ILG/I	
MW382	MW38	LEAD	0109MS	6.8U	hG/L	
MW382	<u>MW38</u>	MAGNESIUM	SW6010	4960	NG/L	4.3
MW382	MW38	MANGANESE	0109/WS	159=	I/B/I	Ö
<u>MW382</u>	MW38	MERCURY	SW7470	0.06U	NG/L	
MW382	MW38	METHYL ETHYL KETONE (2-BUTANONE)	SW8260	0 D	NG/L	
MW382	9CMW	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	SW8260	UD1	NSU	
MW382	MW38	METHYLENE CHLORIDE	SWB260	101		
MW382	MW38	IN-NITROSODH-1-PROPYLAMINE	SW8270	nol	NG/I	
MW382	8EWM	IN-NITROSODIPHENYLAMINE	SW8270	10I	NG/L	
MW382	85WW	INAPHITHALENE	SWB270	101	NG/L	
MW382	BEWM	NICKEL	SW6010	11.2	NG/L	0.44
MW382	IMW38	NITROBENZENE	SW8270	1010	NG/L	01
MW382	MW38	NIROBENZENE-D5	SW8270	8	NG/I	
<u>MW382</u>	MW38	NITROGEN, AMMONIA (AS N)	E350.2	0.2 <	MGM	L 0.2
MW362	MW38	NITROGEN, NITRATE-NITRITE	E353.2	3.22=	MGA	L   0,1
<u>MW382</u>	MW38	PENIACHLOROPHENOL	SWB270		nevr	5
<u>MW</u> 382	MW38	PHENANTHRENE	SWB270	10 0	NG/I	
MW382	MW38	PHENOL	SW8270	0¦01		0
28EWM	MW38	PHENOL-DS	SWB270	61	NG/L	0
28EWM	MW38	POTASSIUM	SW6010	437010	hGA	0621
<u>MW382</u>	MW38	PYRENE	SW8270	1010	NG/L	
	MW38	SELENIUM	SW6010	3.710	UG/L	3.7
	<u>MW38</u>	SILVER	SW6010	0.57W	1/SU	0.57
MW382	MW38	SODIUM	SW6010	100901	IVON	112
MW382	<u>MW38</u>	STYRENE	SW6260	njor		
MW382	MW38	SULFATE (AS SO4)	E375.4	16.15	MG/L	2
<u>MW382</u>	<u>MW38</u>		SW8270	57	NG/I	. [ 0
MW362	MW38	ITETRACHLOROETHMENE(PCE)	SW8260	101	NG/I	10
<u>MW362</u>	MW38	THALLUM	SW6010	2.30	Nen	. 2.3
MW382	MMV38	TOLUENE	SW8260	noin	UGA	01
	MW38		SW8260	100	, JuGA	. 0
	BEWW	TOTAL 1,2-DICHLOROETHENE	SW8260	nor	NGЛ	01
	MW38	TOTAL ORGANIC CARBON	<u>E4</u> 15.2	= <b> 6</b> "11	MG/I	
MW382	MW38	Total Xytenes	SW8260	noi	NGN	10
	86WM	trans-1,3-DICHLOROPROPENE	SW8260		NGU	01 10
	MW38	TRICHLOROETHMENE (ICE)	SW8260		NGN	
	MW38	VANADIUM	SW6010	2,4U	nen.	. 0.42
	MW38	VINT CHLORIDE	SWB260	101	Nev	
MW382	<u>MW38</u>	ZNC	SW6010	-119-	NGA	. 0.53

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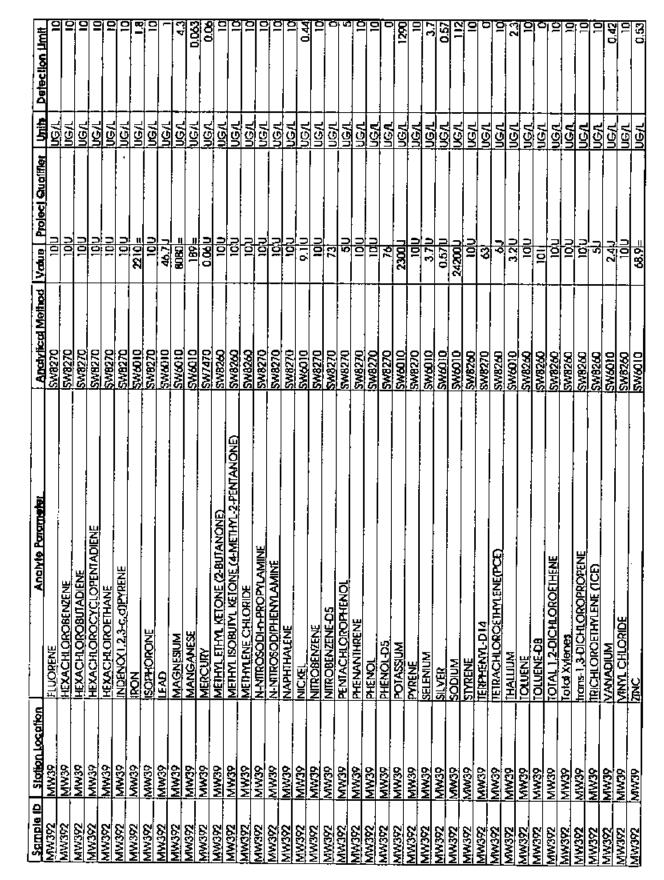
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Sample ID	Station Location	Andhta Powmator	Anthold Mathematics	Vation Biologi Chilling		
MW392	MW39	ALUMINUM	SWAND	42	┥	1 7 Tulin Unitsalar
20EWM	MW39	ANTARACENE	SWR270			
29EWIN	MW39	ANIIMONY	SWADIO	2411		
MW392	6EWM	ARSENIC	SWKOID			7 C
MW392	MW39	BARNUM	SWEDIO	70[]		177 1010
<u>MW392</u>	95WM	BENZENE	SW8260	101		
29EWM	96WM	BENZO(G)ANTHRACENE	SW8270		NGA.	
MW392	6EWW	BENZO(O)PYRENE	SW8270	101	hGA	
MW392	MW39	BENZO(b)FLUORANTHENE	SW8270	U01		
MW392	6EMW	BENZO(Q, h, D) FERVLENE	SW8270	101	10h	
MW392	6EMM	BENZO(k)RUORANTHENE	SW8270	0,01	L C D	
MW392	6EWM	BENZYI, BUTYL PHTHALATE	SW8270	1001	UGA	
MW392	MW39	BERYLLUM	0109MS	0.14U	ner l	0.046
26EWM	MW30	bis/2-CHLOROETHOXY) METHANE	SW8270	101	UGA -	01
MW392	MW39	DISC-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SW8270	10L	NG/L	01
20CWM	MW39	IDIS(2-ETHYLHEXYL) PHTHALATE	SW8270	001	NG/L	01
295WM	MW39	BROMODICHLOROMETHANE	SWB260	nai	UG/L	10
MW302		BROMOFORM	SWB260	100	NG/L	10
		BROMOMETHANE	SW8260	101	NG/L	10
		CADMIUM	SW6010	U[0] 1	UC/	0.15
	MW39	CALCIUM	SW6010	30100=	n≎/L	CCC I
	MW39		SW8270		UNG/L	
	6EMW	CARBON DISULFIDE	SW8260	not	ING/L	10
		CARBON TETRACHLORIDE	SW8260	not	UG/L	Q
		CHLOROBENZENE	5W8260	101	NGA	
		CHLOROETHANE	SW8260	101	NG/L	
1		CHLOROFORM	SW8260	Iau	UGA	01
			SW8260	IDU	NG/L	9
		CHROMIUM, IOTAL	SW6010	12,71	ne/r	0.79
	ļ		SW8270	noi	UG/L	0
T		CIS-1, 3-DICHLOROPROPENE	SW8260	IDIU	UG/L	01
		COBALT	SW6010	7.9.1	UGA	0.41
	I	COPPER	2W6010	28.4 =	UGA	0.59
ļ		DH-0-BUTYL PHTHALATE	SW8270	UDI	UGA	01
			SWB270	100	UGA	01
		DIBENZ(a,h)ANTHRACENE	SW8270	10 0	UGA UGA	10
·		DIBENZOFURAN	SW8270	10/01	UG/L	
			SW8260	10/0	UG/L	1
		DIBROMOFLUOROMETHANE	SW8260	201	UG/L	0
		DIETHAL PHIMALATE	SW8270	IOU	NG/L	2
		DIMETHYL PHTHALATE	SW8270	100	ne/r	
		ETHYLBENZENE	SW8260	10,01	NG/L	2
MW392	IMW39	FLUORANTHENE	SW8270	1010	NGA.	10

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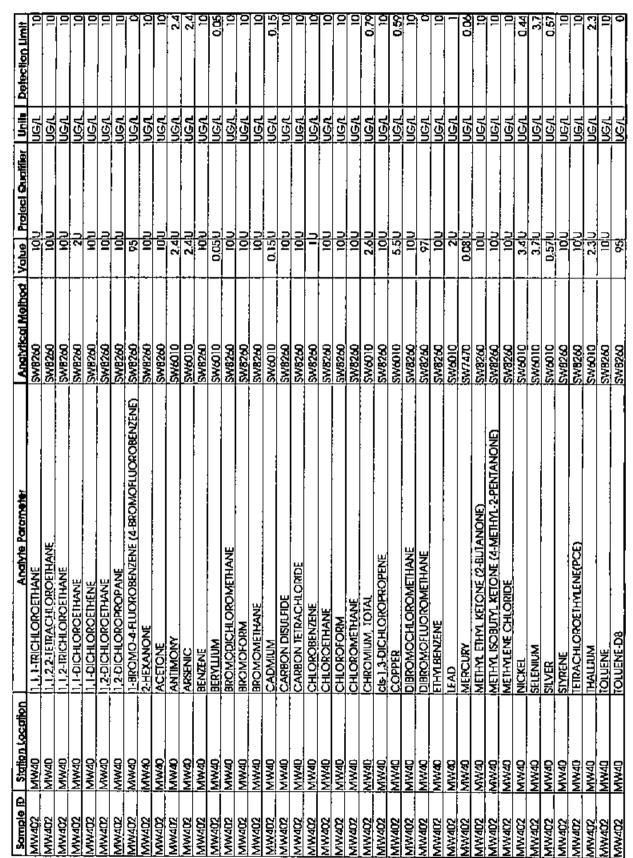


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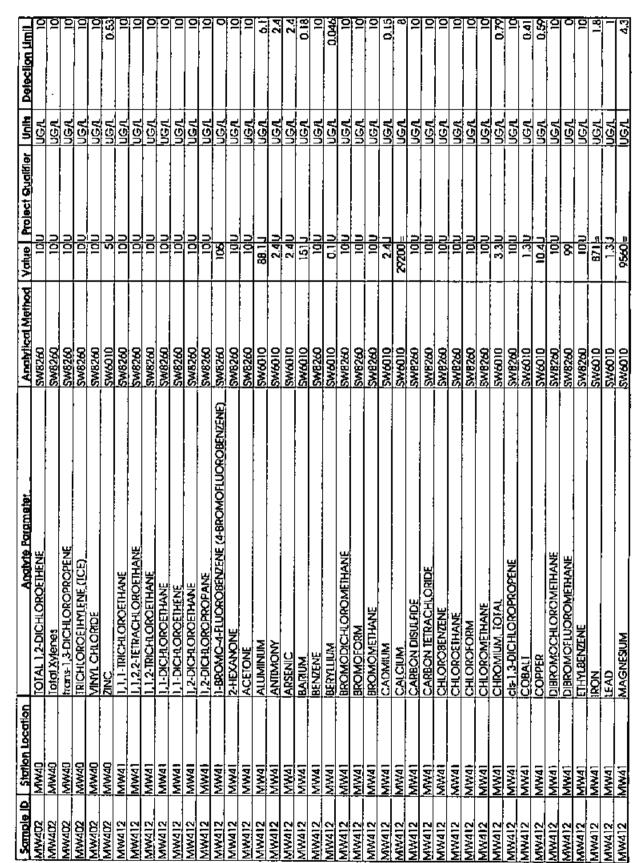


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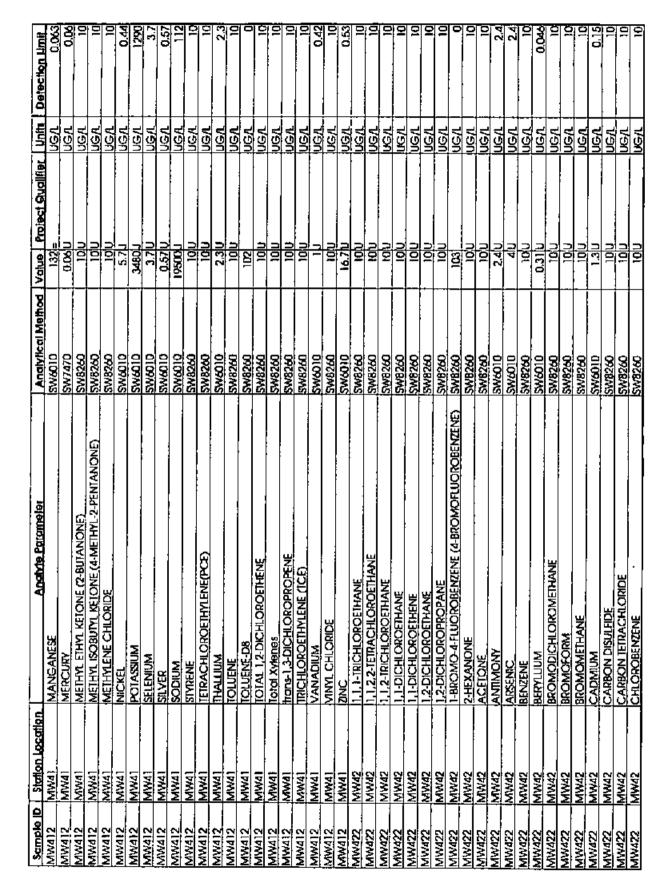
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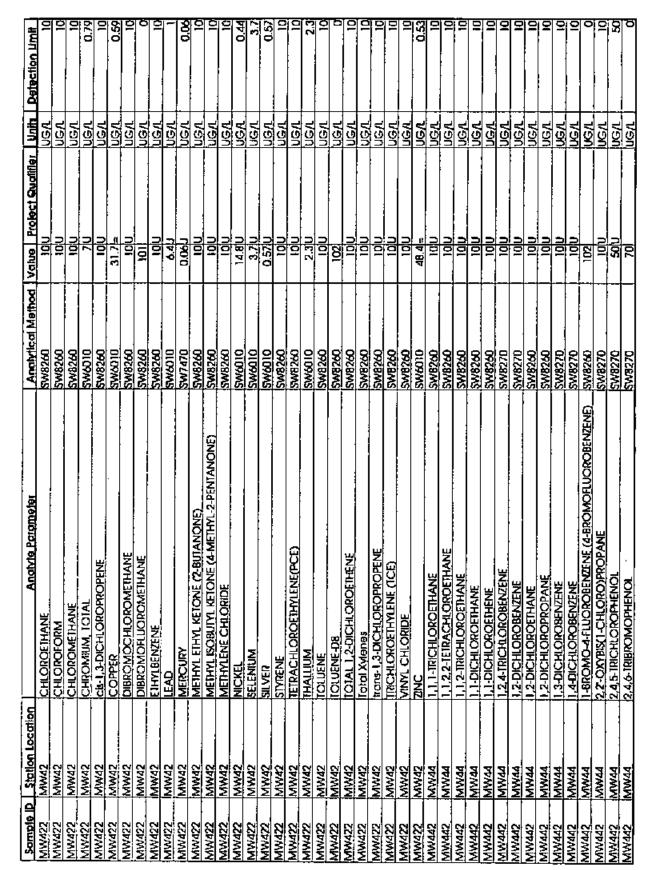
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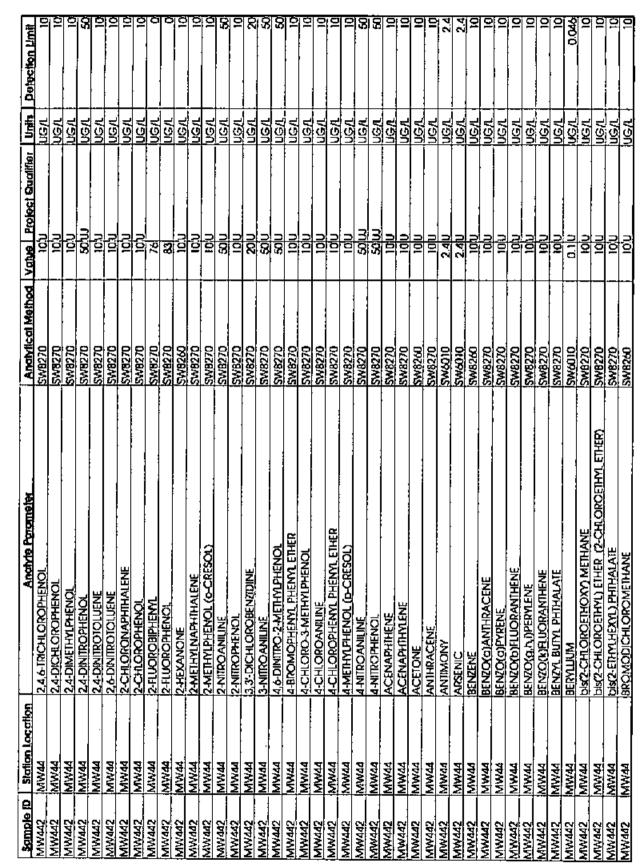


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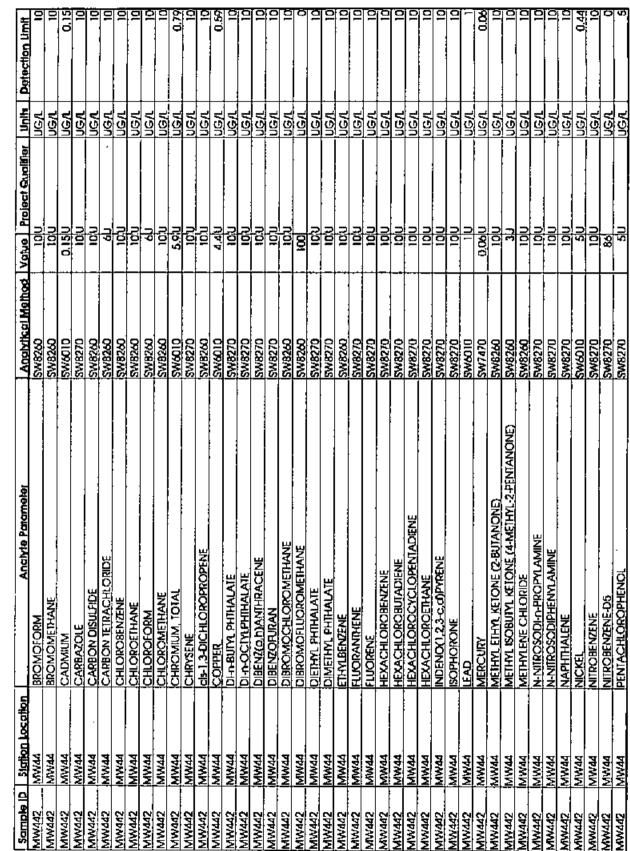
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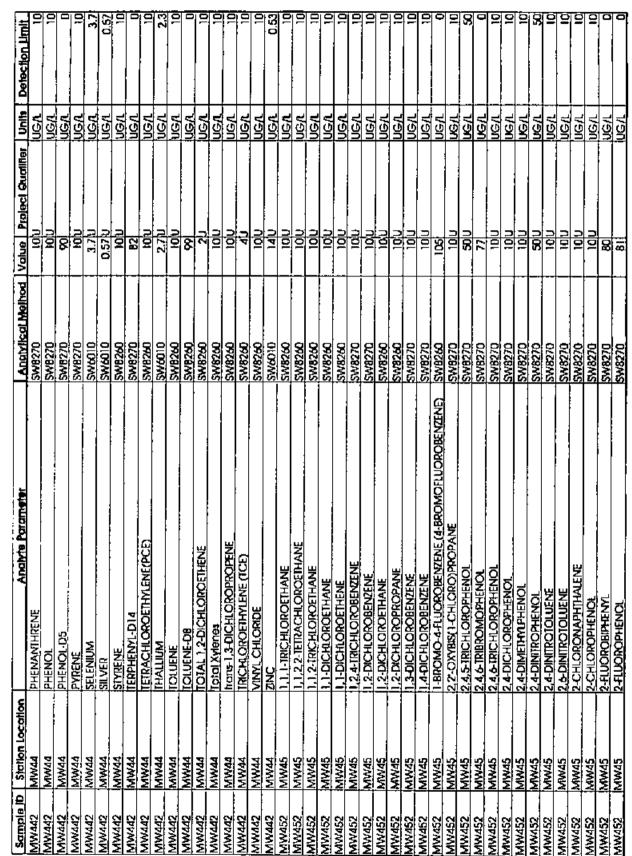
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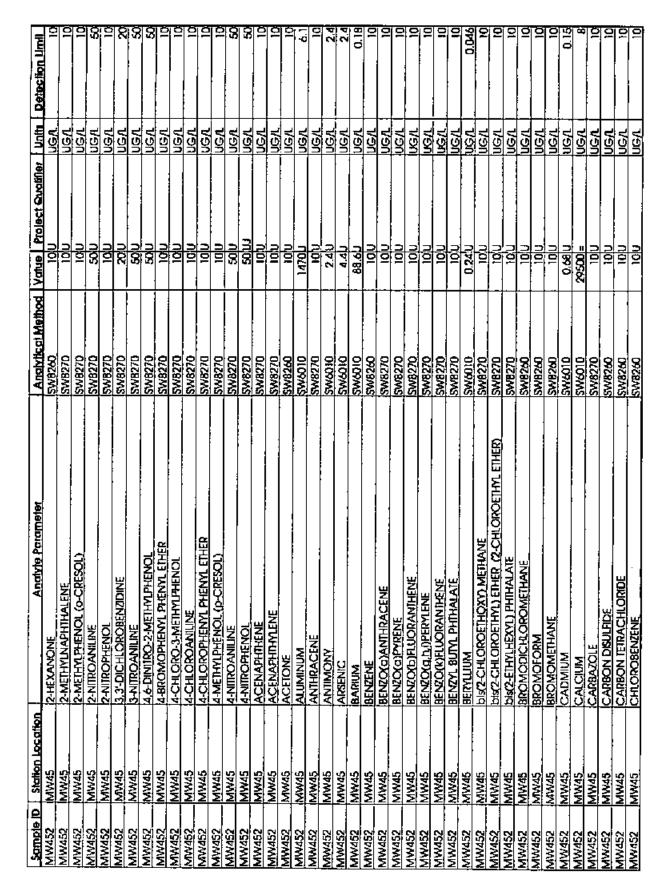
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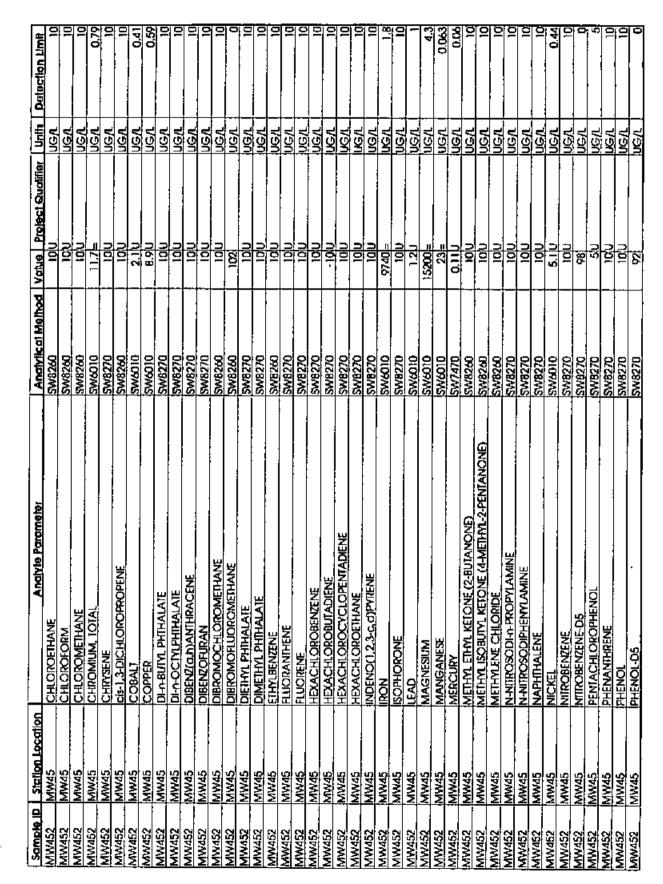
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MW452 MW452						
MW452	MW45	POTASSIUM	SWADIO	13601	╞╴	1061
	MW45	PYRENE	SWR270			
MW452	MW45	SELENIUM	SW6010	3 7/11		2 2
MW452	MW45	SILVER	SW6010	0.5711	, Ç	150
MW452	MW45	SODIUM	SW6010	15800.0		11
MW452	MW45	STYRENE	SWB260	1010		9
MW452	MW45	TERPHENYL-DIA	SW8270	01	I I I I I I I I I I I I I I I I I I I	
<u>MW452</u>	IMW45	IEIRACHLOROETHMENE(PCE)	SWB260	101	NG/L	
MW452	MW45	THALLUM	SW6010	2.310		2.2
MW452	MW45	TOLUENE	SWB260	101		
MW452	MW45	I COLUENE-DB	SW8260	201		
MW452	1MW45	TOTAL 1.2-DICHLOROETHENE	SW8260	10,0	NG/L	
MW462	MW45	Total Xylenes	SW8260	Dio1	) E	
<u>MW452</u>	MW45	Item+1,3-DICHLOROPROPENE	SW8260	101	UC/L	
MW452	<u>MW45</u>	TRICHLOROETHYLENE (TCE)	SW8260	101	1 UUN	
MW452	MW45	VANADNUM	SW6010	0.3		0.40
<u>MW452</u>	MW45	VINYL, CHLORIDE	SW8260	101	lig/l	
MW452	MW45	ZNC	SW6010	44.1		0.53
MW462	MW46	I, I, I-IRICHLOROETHANE	SW8260	101	NG/L	
MW462	MW46	II, I,2,2-TETRACHLOROETHANE	SW8260		11 U	
MW462	MW46	1,1,2-TRICHLOROETHANE	SW8260	101		
MW462	MW46	1, 1-DICHLOROETHANE	SW8260	10U	NGA	
MW462	MW46	1, 1-DICHLOROETHENE	SW8260	101	NGV NGV	
MW462	MW46	1,24-TRICHLOROBENZENE	SW8270	100	NG/L	
MW462		1,2-01CHLOROBENZENE	SW8270	10.01	л С	
MW462		1,2-DICHLOROETHANE	SW8260	not	NG/L	
MW462	MW46	1,2-DICHLOROPROPANE	SW8260	101	ЦGЛ	
MW462		1,3-DICHLOROBENZENE	SW8270	10 0	UG/L	
MW462	1	1,4-DICHLOROBENZENE	SW8270	0.01	UG/L	
MW462	MW46	1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE)	SW8260	103	ปรา	o
<u>MW462</u>		2.2"-OXYBIS(1-CHI,ORO)PROPANE	SW8270	101	NGU	01
MW462		24.5-TRICHLOROPHENOL	SW8270	501	UGA	3
<u>MW462</u>		2.4,6-TRIBROMOPHENOL	SW8270	52	NGN	Ö
MW462		24.4-INCHLOROPHENOL	SWB270	100	л ОСЧ	
MW462	i	2.4-DICHLOROPHENOL	SWB270	100	Ч Эл	2
<u>MW462</u>		2,4-DIMETHYLPHENOL	SW6270	101	Ч ЭN	9
MW462		2.4-DINITROPHENOL	SW8270	20 m	ษัต	33
<u>MW462</u>	MW46	2.4-DINITROIOLUENE	SW8270		ЛGЛ	CA CA
MW462		2.6-DINITROTOLUENE	SW8270		UG/L	10
MW462		2. CHLORONAPHTHALENE	SW8270	njot	UG/L	10
MW462		2-CHLOROPHENOL	SW8270		NG/I	2
MW462		2-FLUOROBIPHENM	SW8270	52	UG/L	0
MW462	MW46	2-FLUOROPHENOL	SW8270	40	UG/L	ð

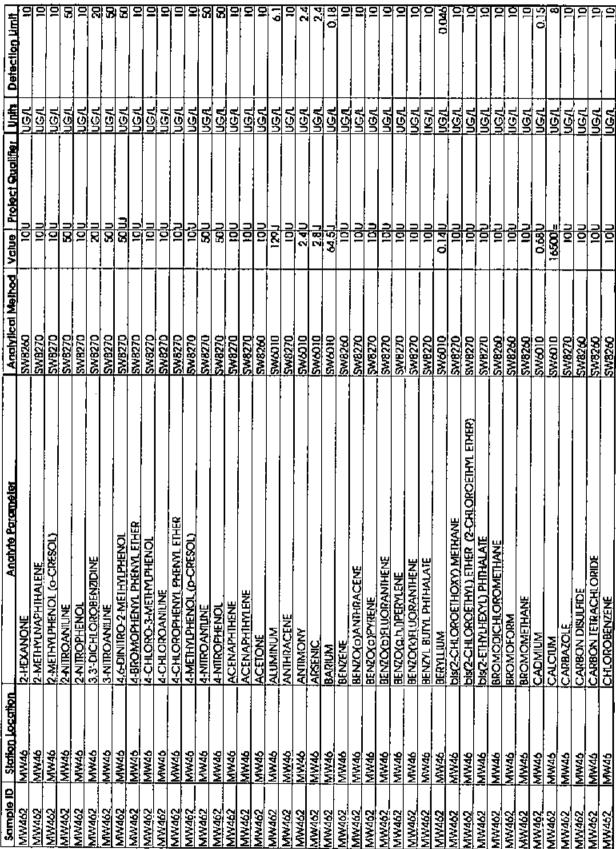
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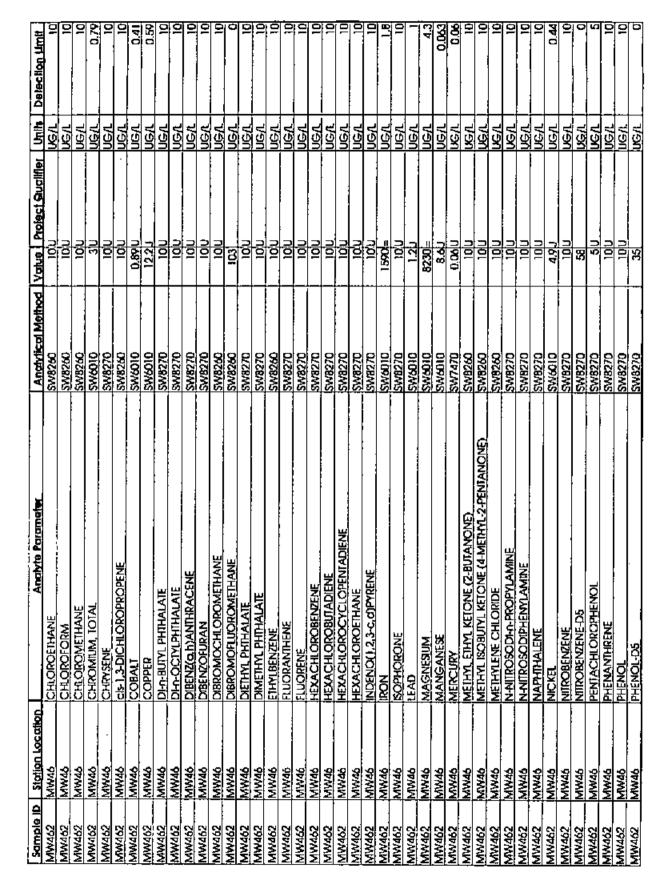
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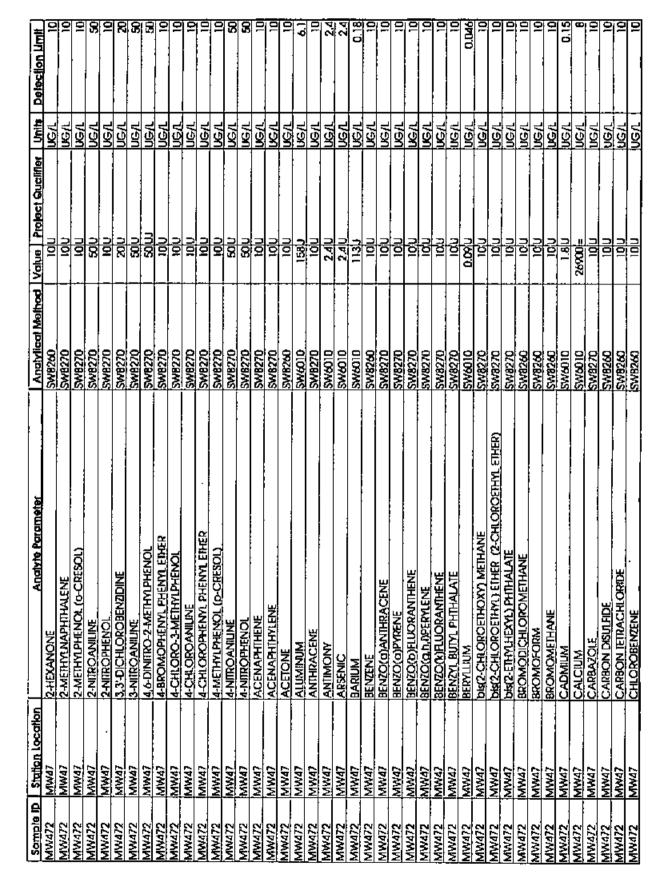
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MW462 WW462 WW462 WW462 WW462 WW462	MW40 MW46 MW46 MW46	POTASSIUM	0109/MS	361		UGA 129	1290
	1W46 1W46 1W46	T					
	AW46 JUV46	PYRENE	SW8270		-	UGA	p
	AWAA	SELENIUM	SW6010	3.7U		UGA	3.7
		SILVER	SW6010	0.570		UGA	0.57
	MW46	SODIUM	0109MS	25500=		UGA	112
	MW46	SIYRENE	SW8260	101		UGA UGA	ļ
	MW46	TERPHENYL-D14	SW8270	123		UGA	Ó
	MW46	TETRACHLOROETHMENE(PCE)	SW8260	101		UG/L	2
	MW46	IHALLIUM	0109MS	3.70		UGA	2.3
	MW46	TOLUENE	SW8260	<u>n</u> D		UG/L	¦⊇ I
	<u>MW46</u>	TOLUENE-DB	SW8260	2		UGA	P
	MW46	ITOTAL 1, 2-DICHLOROETHENE	SW8260	101		UGAL	<u> </u> ⊇
	MW46	Total Xylenes	SW8260			UG/L	
	MW46	htdins-1,3-DiC24LOROPROPENE	SW8260			UGA	2
	MW46	Itrichloroethylene (ICE)	SW8260			UGA -	P
MW462 N	MW46	VANADIUM	SW6010	1.2.1		UG/L	0.42
MW462	MW46	MINAL CHLORIDE	SW8260	<u>n</u> o 1	•	UG/L	2
MW462 k	MW46	ZNC	SW6010	14.3U		UG/L	0 30
MW472 N	MW/47	1, ), 1-TRICHLOROETHANE	SW8260	D D D D		UGA	9
MW472 N	MW47	1.),22-TETRACHLOROETHANE	SW8260	101		UGA	2
MW472 A	MW47	1,1,2-TRICHLOROETHANE	SW8260			UG/L	₽
MW472 N	MW47	1, 1-DICHLOROETHANE	SW8260	UD D		UGA	2
MW472	MW47	1, 1-DICHLOROETHENE	SW8260	100		UGA.	0
MW472 N	MW47	1,2,4-TRACHLOROBENZENE	SW8270			ueit [	ö
MW472 A	MW47	1,2-DKCHLOROBENZENE	SW8270			UGA	2
<u>MW472</u>	MW47	1,2-DICHLOROETHANE	SW8260			UGA_	2
MW472 N	MW47	1.2-DICHLOROPROPANE	SW8260	Upol		UGAL	2
MW472	MW47	1.3-DICHLOROBENZENE	SW8270	1001		UGA	2
MW472 A	MW47	1,4-DICHLOROBENZENE	SW8270			UGA.	0
MW472 N	MW47	1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE)	SW8260	1001		UGAL	0
	MW47	2,2 - OXYBIS(1-CHLORO)PROPANE	SW8270	<u>0</u>		UGA	2
٦	MW47	2,4,5-TRICHLOROPHENOL	SW8270	500		UG/L	50
	MW47	2,4,&TRIBROMOPHENOL	SW8270	ę	-	ver.	0
	MW47	2,4,6-TRICHLOROPHENOL	SW8270	<u>n</u> a		UG/L	0
MW472	MW47	2,4-DXCHLOROPHENOL	SW8270			UG/L	10
MW472	MW47	2.4-DIMETHYLPHENOL	SW8270	101			10
<u>MW472</u>	MW47	2,4-DINITROPHENOL	SW8270	5000		UG/L	8
MW472 A	MW47	2.4-DINITROTOLUENE	SW8270	100		UG/L	19
MW472	MW47	2, & DANITROTOLUENE	5W8270			<u>uG/L</u>	10
MW472	MW47	2-CHLORONAPHTHALENE	SW8270	10jU		UG/L	Q
MW472 N	MW47	2-CHLOROPHENOL	SW8270			UG/L	10
ł	MW47	2-ELLOROBIH ENYL	SW8270	<b>B</b> 8		UGA.	0
MW472 N	MW47	2-FLUOROPHENOL	SW8270	82		1/5/T	•

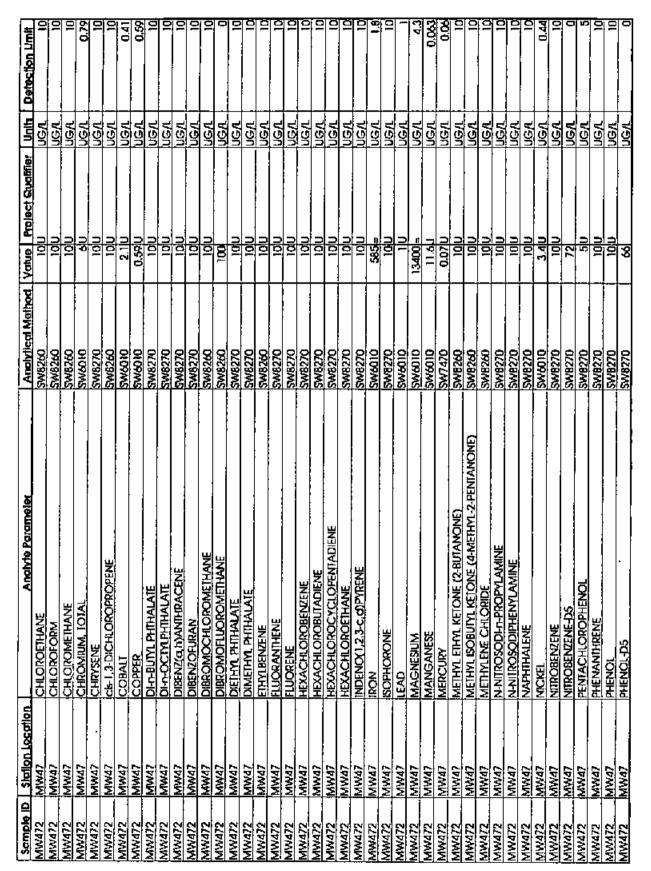
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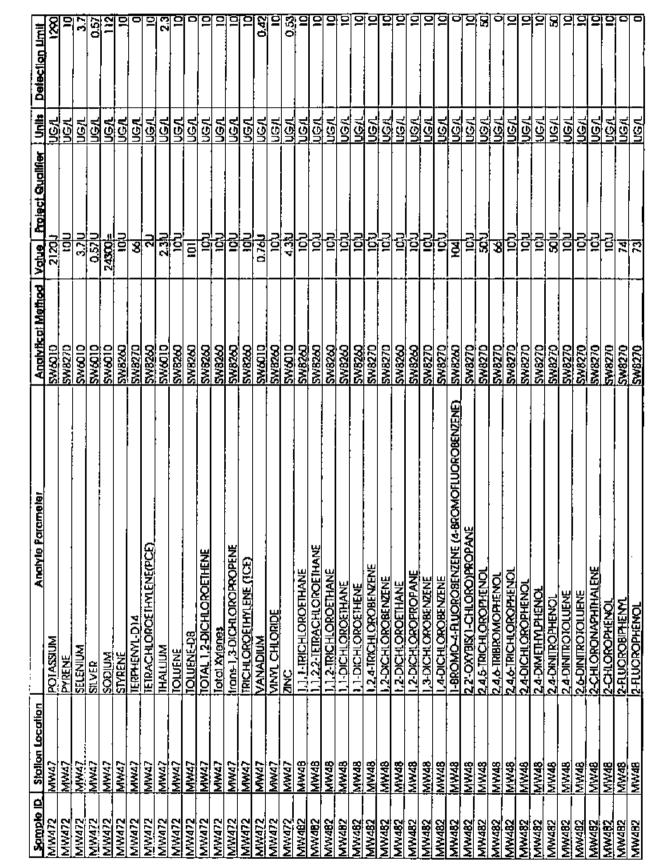
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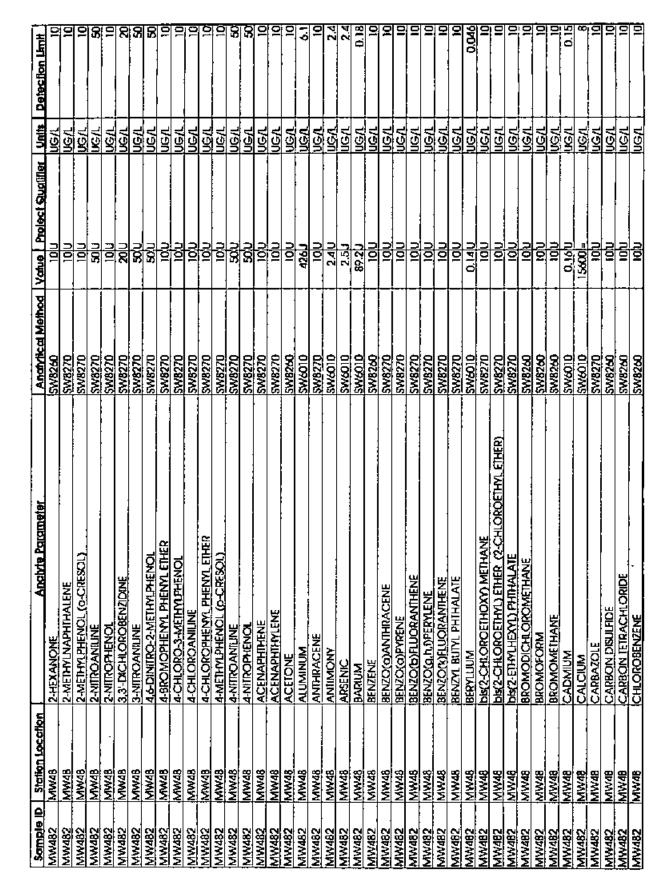


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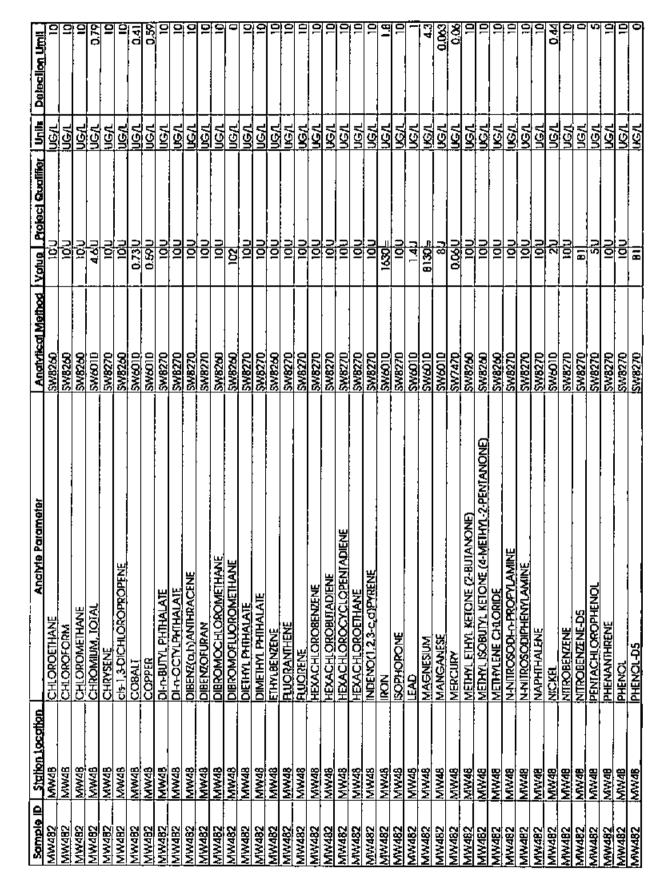
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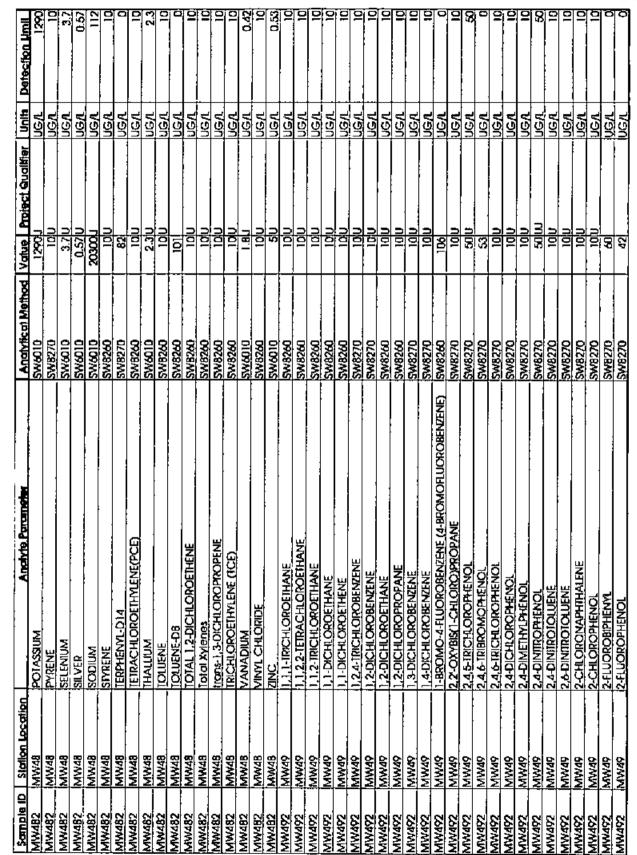


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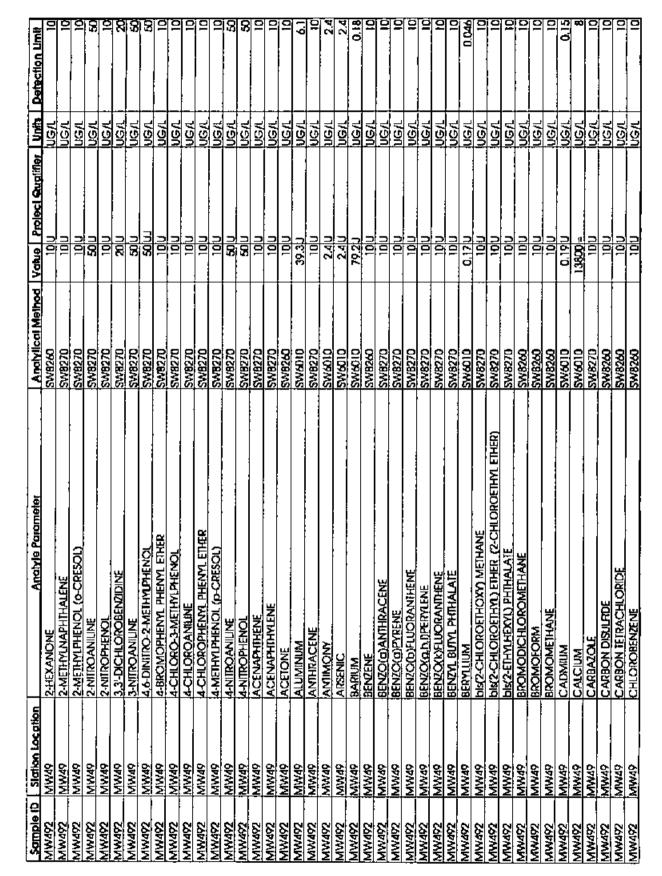
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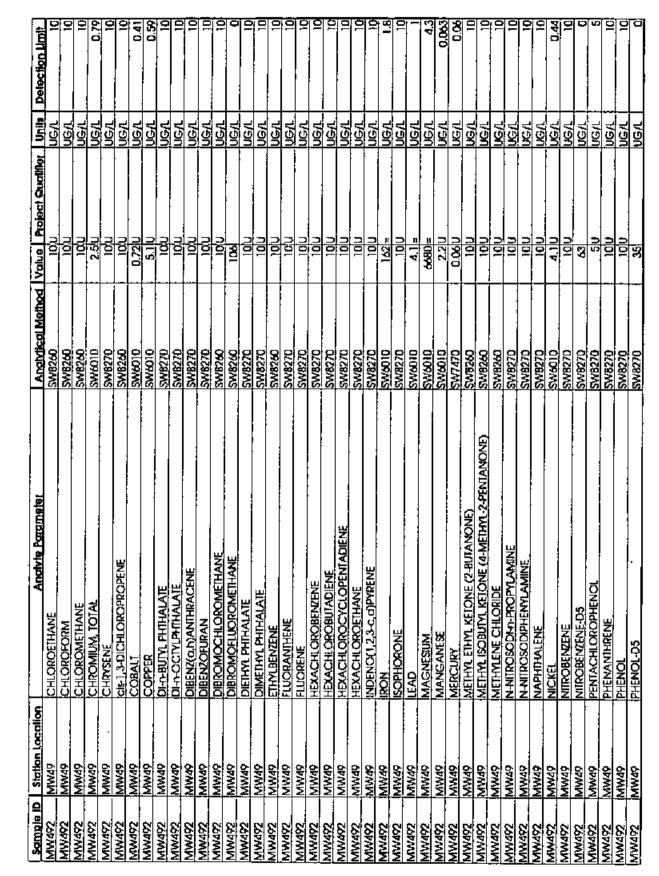
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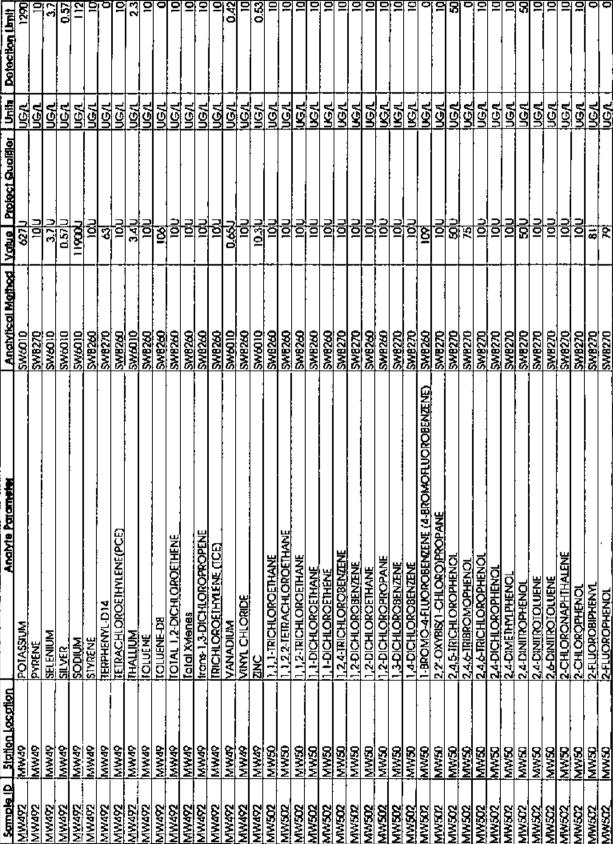
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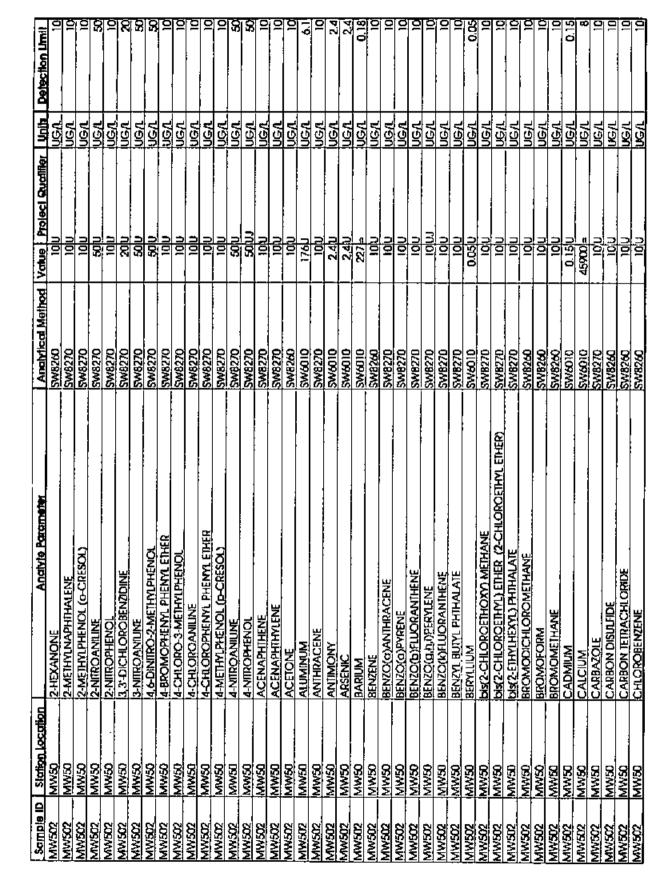
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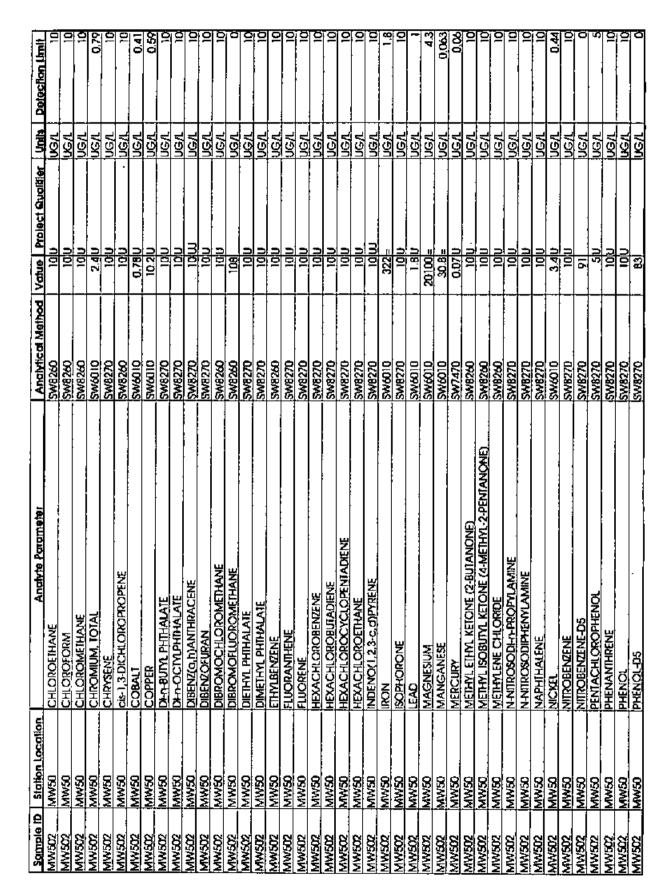
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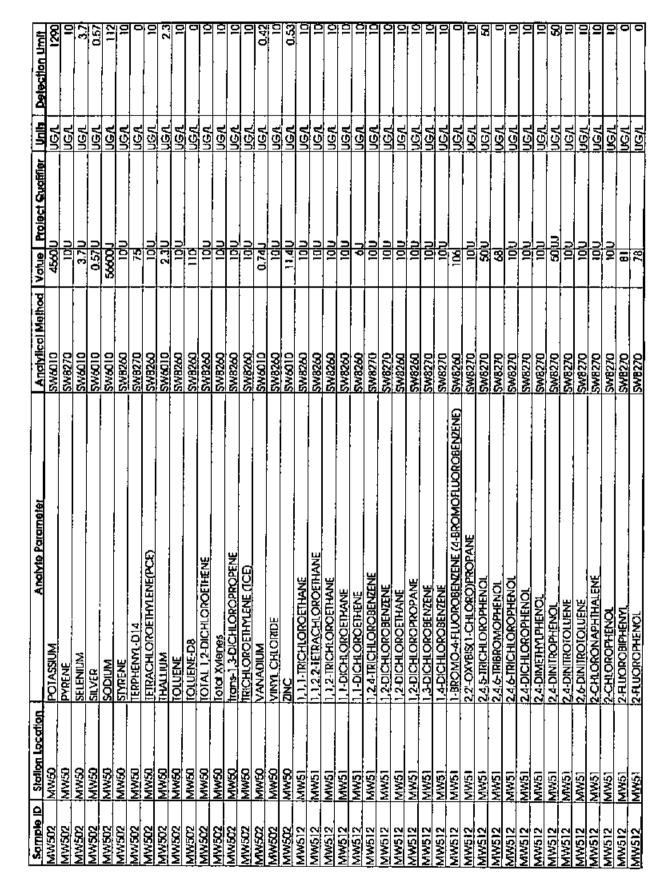
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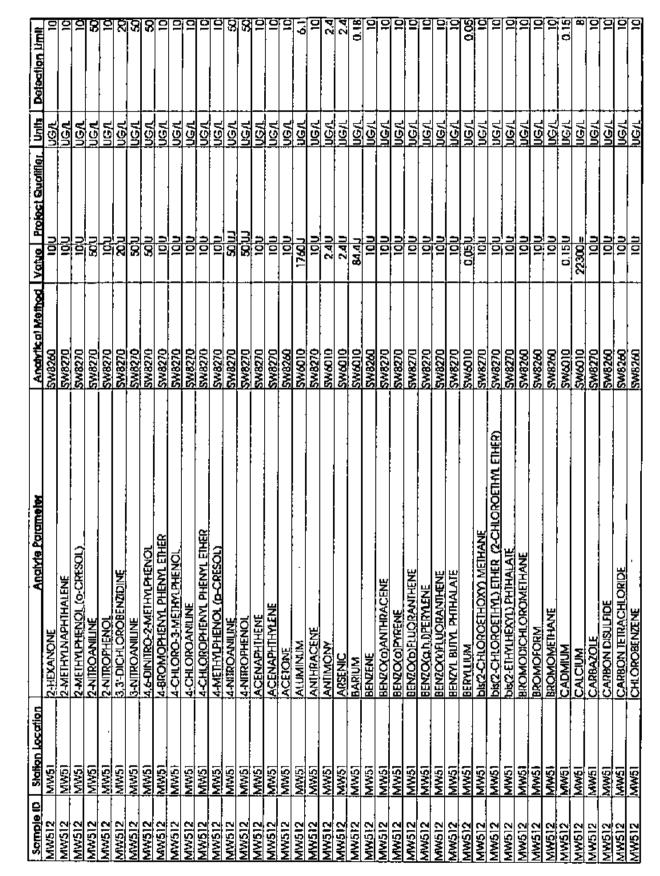


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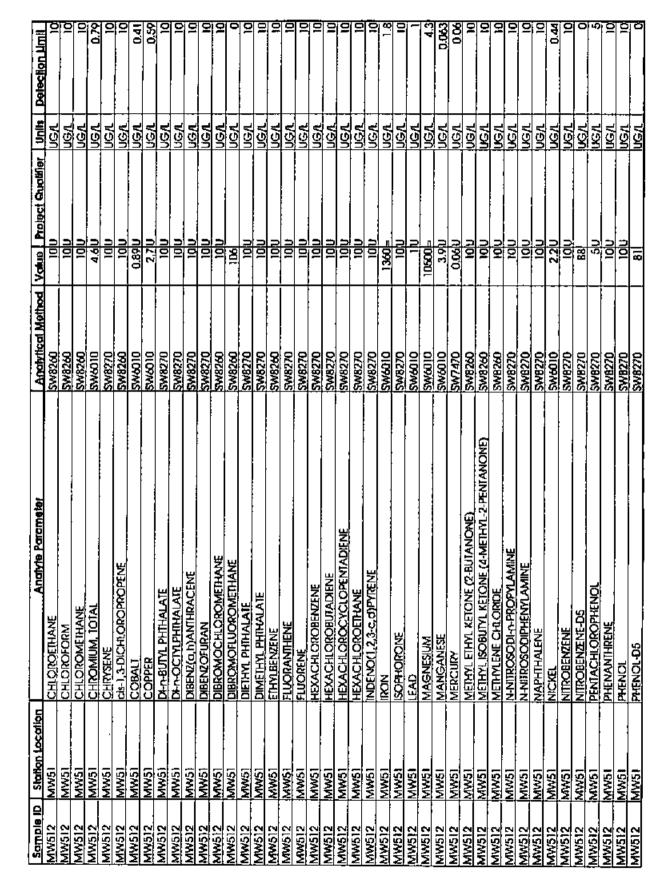


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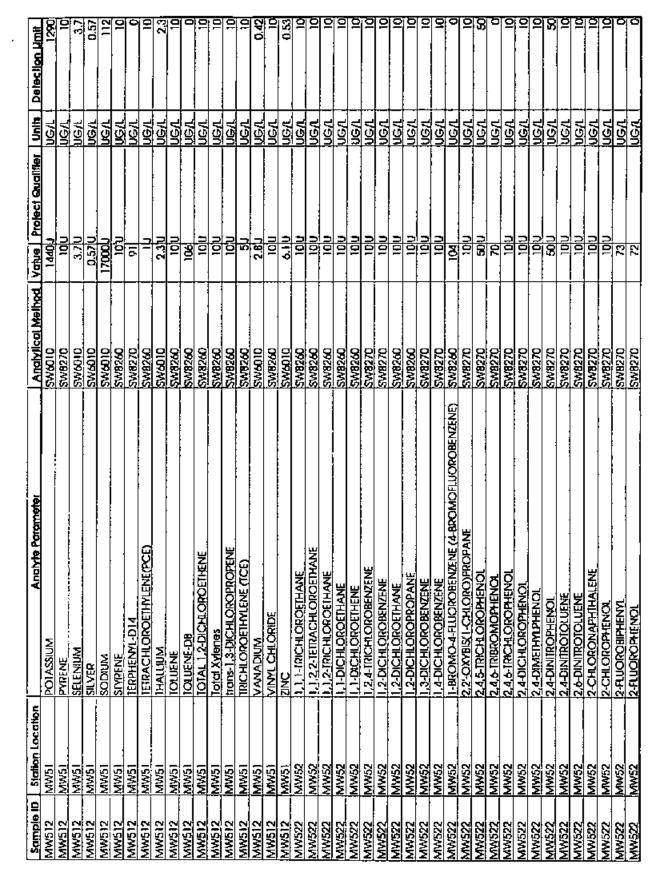




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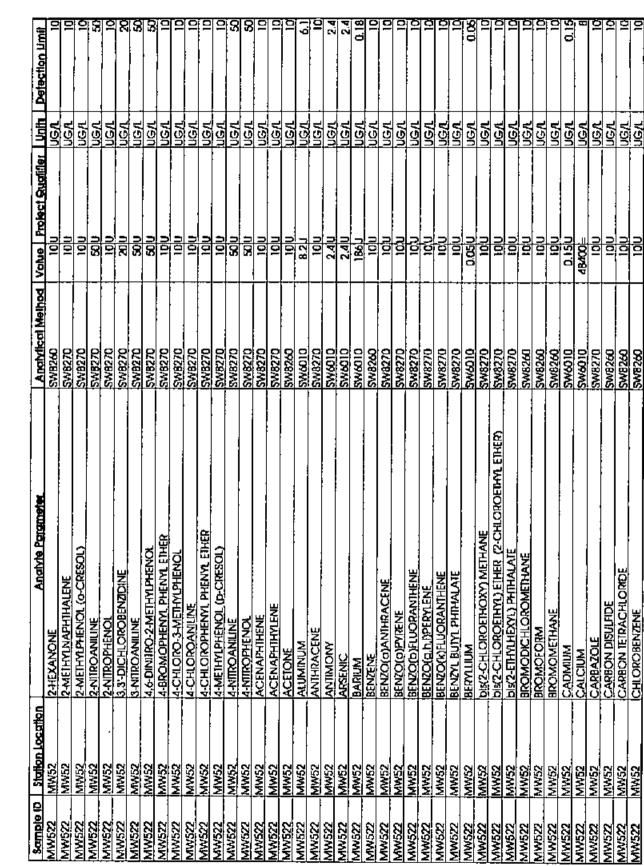
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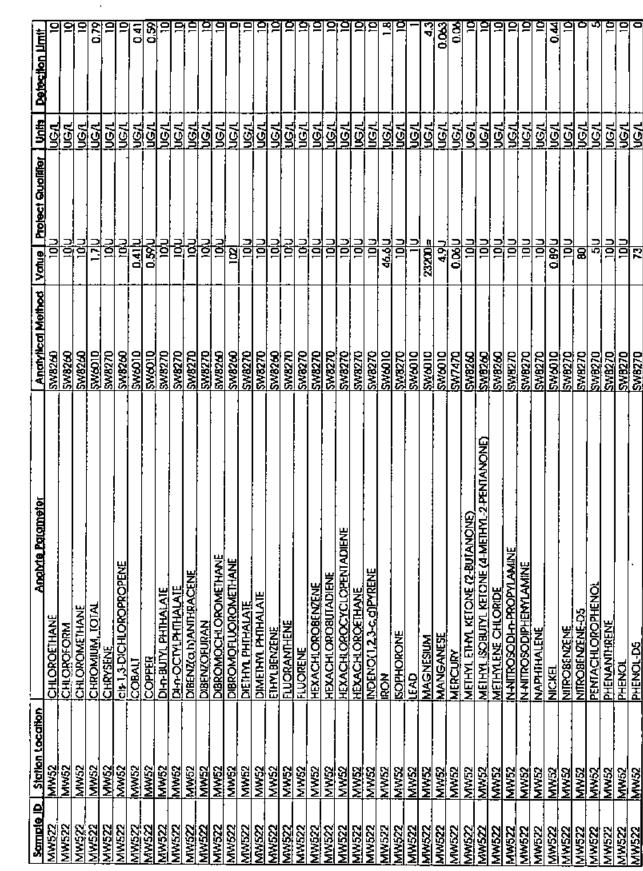
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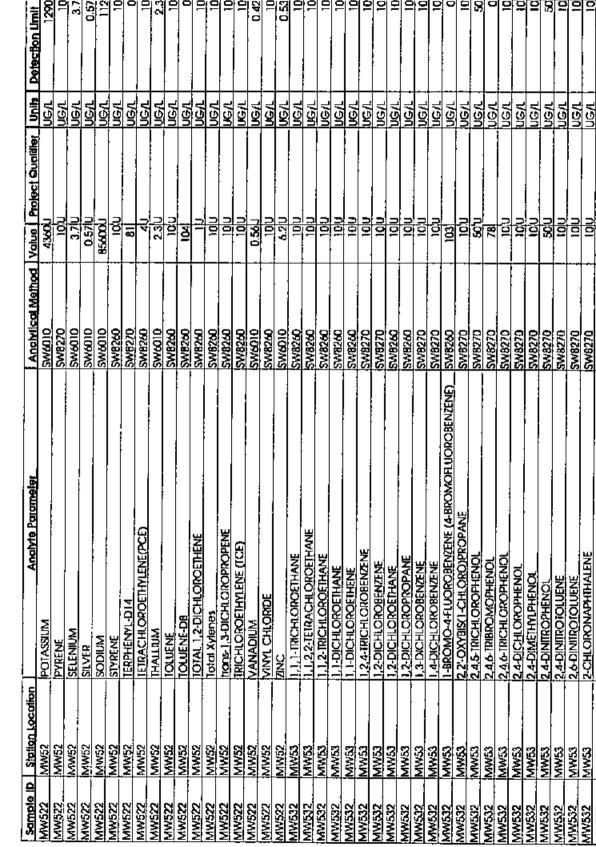
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2-FLUOROBIPHENM 2-CHLOROPHENOL

MW53 <u>MW50</u> **MW53** 

MW532 MW532 **SE2WIM** 

**2-FLUOROPHENOL** 

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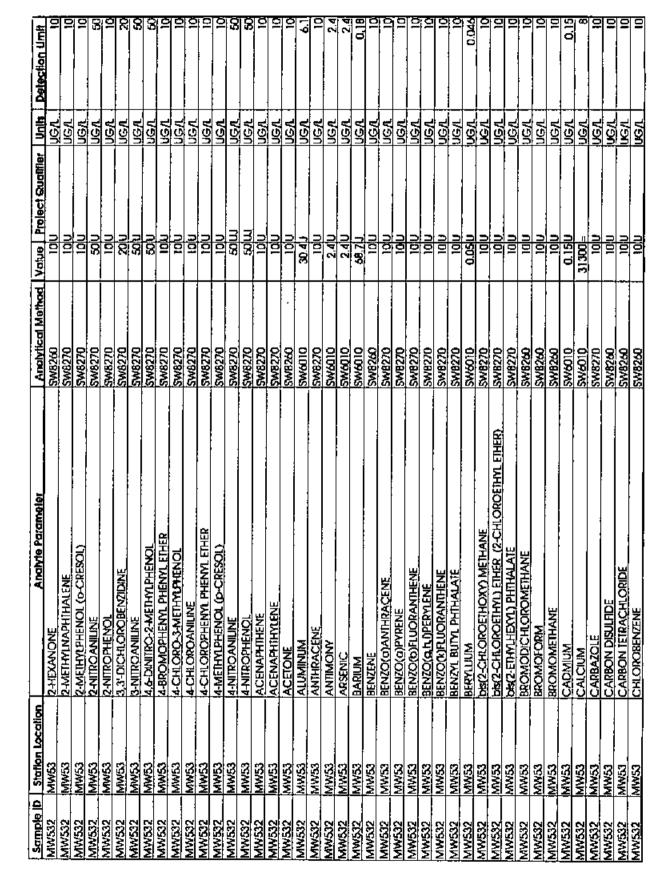
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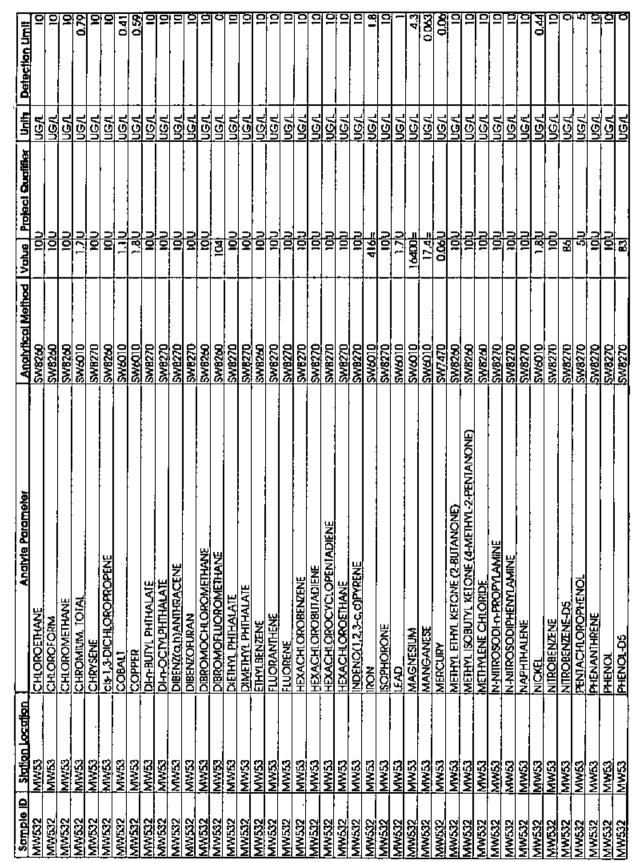


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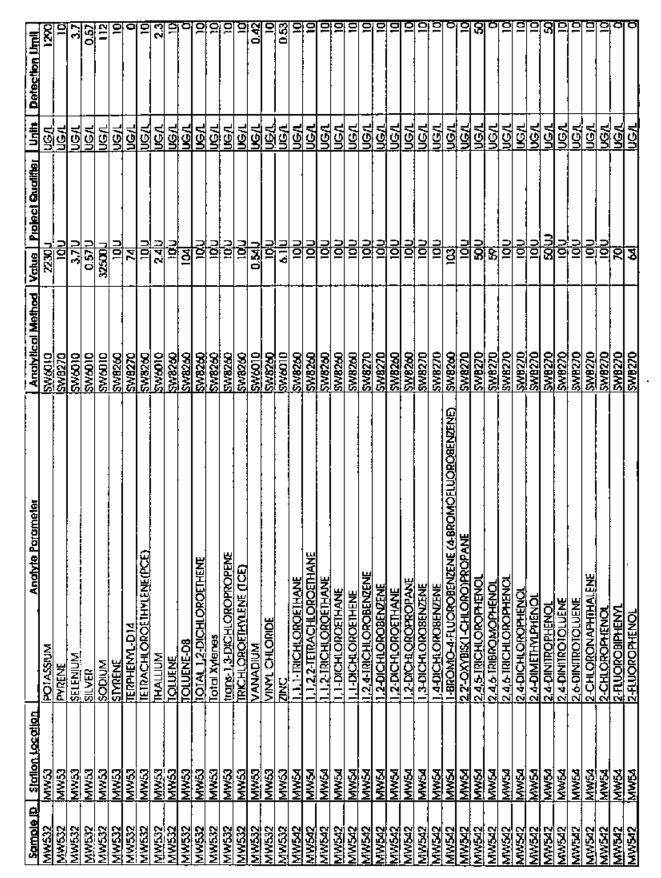
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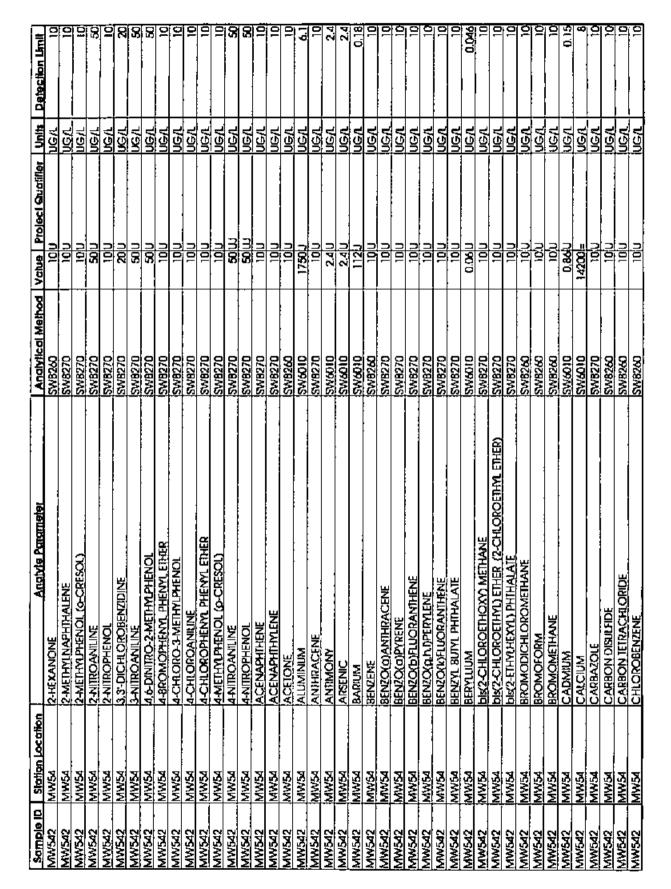
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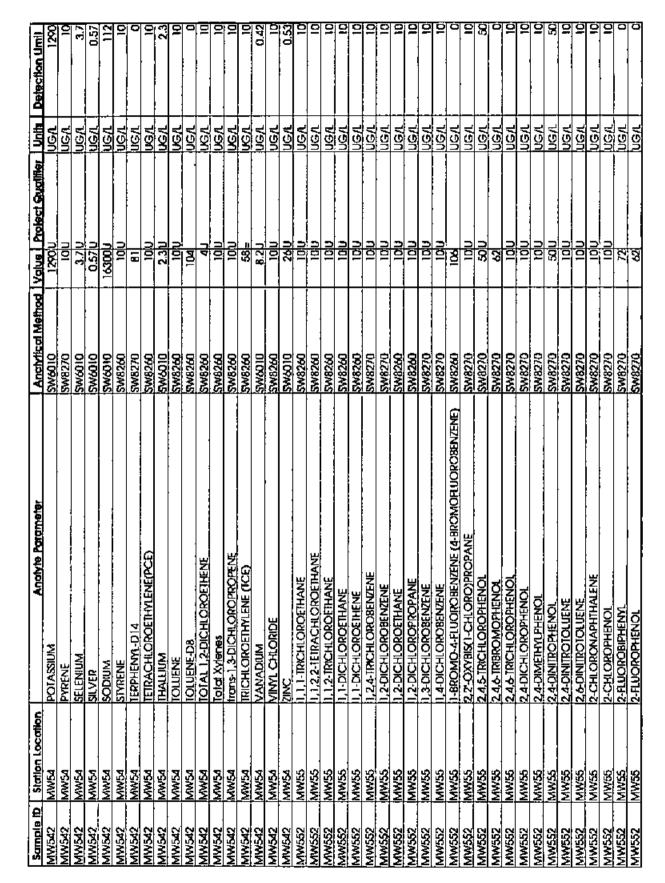


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DOMT June 1997 Quarterly Groundwater Sampling Analytical Results

Sample ID	Station Location	Analyte Parameter	Analytical Method	Vatue   Project Qualifier	Unlb	Delection timit
MW542	MW54	CHLOROETHANE	SW8260	101	UG/L	10
MW542	MW54		SW8260	npt	UG/L	DI DI
MW542	MW54	CHLOROMETHANE	SW8260	100	UG/L	0
MW542	MW54	CHROMIUM, IOIAL	SW6010	18.5=	UGA.	0.79
MW542	MW54	CHRYSENE	SW8270	10/01	UGA	10
MW542	MW54	CB-1, J-DICHLOROPROPENE	SW8260		UGA	10
MW542	MW54	COBALT	SW6010	1.20	UG/L	0,41
MW542	MWSA	JCOPPER	SW6010	27.2 =	UGA	0.59
MW542	MW54	DI-P-BUTYL PHTHALATE	SW8270	ioju -	UG/L	01
MW542	MW54	DI-A-OCTYLPHTHALATE	[2WBZ70	ηρι	JUG/L	
MW542	MW54	DIBENZ(G,h)ANIHRACENE	SW8270	IDIU	UG/L	0
MW542	MW54	DIBENZOFURAN	SWB270	10U	NG/L	01
MW542	MW54	DIBROMOCHLOROMETHANE	SW8260	lolu	NG/L	01
MW542	MW54		SW8260	104	UG/L	o
MW542	MW54		[2WB270	niot	NG/L	
MW542	MW54	DIMETHYL PHIHALATE	SW8270		UGA	10
<u>MW542</u>	MW54	JETHYLBENZENE	SWB260	10 <sup>1</sup> 01	NG/L	01
MW542	MW54	JEUORANTHENE	SW8270	i 10¦U	NG/L	10
MW542	MW54	(FLUORENE	SWB270	n'or i	UG/L	io
MW542	MW54	HEXACHLOROBENZENE	SW8270	, ענסנ	UG/L ]	10
MW542	MW54	HEXACHLOROBUTADIENE	SW8270	10 01	۲ S	0
MW542	MWSA	HEXACHLOROCYCLOPENTADIENE	SW8270	10 0	UG/L	01
MW542	MW54	HEXACHLOROETHANE	SW8270	Vior	NGAL	01
MW542	MW5d	INDENO(1, 2, 3-c, d)PYRENE	SW8270	10 0	UG/L	9
MW542	MW54	IRON	SW6010	12700=	NG/L	1.8
MW542	MW54	ISOPHORONE	SW8270	101	UG/L	0
MW542	MW54	LEAD	0109MS	2.34	NGIL	
MW542	MW54	MAGNESIUM	SW6010	7110=	Ч©Л	4.3
MW542	MW54	MANGANESE	SW6010	28.6 <del> </del>	UG/L	0.063
MW542	MW54	MERCURY	SW7470	0.0610	UG/L	0.06
MW542	MW54	METHYL ETHYL KETONE (2-BUTANONE)	SW8260	100	Ч <sup>с</sup> и	õ
MW542	MW54	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	SW8260	10/1	R6∕L	10
MW542	MW54	METHYLENE CHLORIDE	SW8260	10/0	NG/L	2
<b>MW542</b>	imwsa	NNITROSODHPROPYLAMINE	SW8270		NG/L	Q
<b>MW542</b>	MW54	N-NITROSODIPHENYLAMINE	SW8270	101	UG/L	0
MWS42	MW54	NAPHTHALENE	SW8270	<u></u>	UGA	2
MW542	MW54	NICKEL	SW6010	5.4U	ЧGЛ	0.4
MW542	MW54	NITROBENZENE	SW8270		UG/L	0
<b>MW542</b>	MW54	NITROBENZENE-D5	SW8270	74	luGΛ	0
MW542	MW54	PENTACHLOROPHENOL	SW8270	50	UGA	5
MW542	MW54	PHENANIHRENE	SW8270	Jolu	UGA	01
MW542	MW54	PHENOL	SW8270	UOL	UGA	01
MW542	MW54	PHENOL-DS	SW8270	22	10G/L	0

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	<ul> <li>Station Location</li> </ul>	AndNie Parameter	AndMicd Method	Value Project Suglifier	i Units I	Detection Limit
<u>MW552</u>	MW55	2-HEXANONE	SW8260	10U	IVG/L	101
MW552	MW55	2-METHYLNAPHTHALENE	SW8270	10 0	UG/L	D
MW552	MW55	2-METHYLPHENOL (0-CRESOL)	SW8270	101	UGL	
MW552	MW55	2-NITRO AMILINE	SW8270	50\0	UG/L	3
<u>MW552</u>	MW55	2-NITROPHENOL	SW8270	noi N	UGA	2
MW552	MW55	3.3-DICHLOROBENZIDINE	SW8270	2010	UGA	8
MW552	MW55	3-NITROANILINE	SW8270	50(0	NGA	8
MW552	MW55	4,6-DINITRO-2-METHYLPHENOL	SW8270	50U	NGA	93
MW552	MW55	A-BROMOPHENYL PHENYL ETHER	SW8270	loju	NG/L	
MW552	MW55	4-CHLORO-3-METHYLPHENOL	SW8270	101	UGA	5
<u>MW552</u>	MW55	A-CHLOROAMLINE	SW8270	001	NG/L	0
<u>MW552</u>	MW55	A-CHLOROPHENNL PHENNL ETHER	SW8270	101	Nev	
MW552	MW55	A-METHYLPHENOL (D-CRESOL)	SW8270	<b>1</b> 01	NGA	0
MW562	MW55		SW8270	50 C	UG/L	3
MW552	MW55	A-NITROPHENOL	SW8270	5010	ЦGЛ	93
MW552	MW55	ACENAPHIHENE	SW8270	njoi	лел	
MW552	MW56	ACENAPHIHYLENE	SW8270	10 0	пел	2
MW562	MW55	ACETONE	SW8260	101	NG/L	0
MW562	MW55	ALUMINUM	SW6010	[] 330]J	NG/L	6.1
MW552	MW55	ANTHRACENE	SW8270	100	UG/L	10
<b>MW562</b>	MW55	ANTIMONY	SW6010	2.40	JUG/L	2.4
MW552	MW55	ARSENIC	SW6010	2.4	UG/L	2.4
MW552	IMW55	BARIUM	SW6010	68.5,1	UGA	0.18
MW552	<u>imw55</u>	BENZENE	SW8260	101	NG/L	0
MW562	MW55	BENZO(D)ANTHRACENE	SW8270	101	NGA	01
MW552	MW55	BENZO(a)PY/RENE	SW8270	101		ot
<u>MW552</u>	MW55	BENZO(D)ELUORANTHENE	SW8270	100	NGA	01
MW552	MW65	BENZO(D, h, I) PERVLENE	SW8270	100		10
MW552	MW55	BENZOR)FLUORANTHENE	SW8270	100	UGA	10
MW552	MW55	BENZYL BUTYL PHTHALATE	SW8270	100	[UG/L]	10
<u>MW552</u>	MW55	BERYLUUM	SW6010	0,140	NG/L	0.046
<u>MW552</u>	MW55	BICARBONATE	E310,1	44 =	MG/L	ŝ
<b>MW552</b>	MW55	bis/2-CHLOROEIHOXY) METHANE	SW827D	101	UG/L	Ö
<b>MW552</b>	MW55	bis(2-CHLOROETHML) ETHER (2-CHLOROETHML ETHER)	SW8270		NG/L	10
<u>MW552</u>	MW55	bis(2-ETHYLHEYYL) PHITHALATE	SW8270	101	hG/L	0
MW552	MW56	BROMODICHLOROMETHANE	SW8260	10U	NG/L	101
MW552	MW55	BROMOFORM	SW8260	10 U	luc/L ∮	10
MW552	<u>MW55</u>	BROMOMETHANE	SW8260	101	1/90	01
MWSSQ	MW55	CADMIUM	SW6010	0.88U	ING/L	0.15
MW552	MW55	CALCIUM	SW6010	12000=	UG/L	
MW562	MW55	CARBAZOLE	SW8270	101	nG/L	01
<u>MW552</u>	MW55	CARBON DISULFIDE	SW8260	UIDI	uG/L ∣	2
<u>MW552</u>	MW55	CARGON TERACHLORIDE	SW8260	10 0	UG/L	10

Analytical Results
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Sample (D	Station Location	Anatyte Parameter	Anchylical Method	Vatue Project Qualifier	Units	Detection Limit
MWS52	MW55	CHLORIDE (AS CL)	E325.1	#	MGA	
MWSS2	MW55	CHLOROBENZENE	SW8260		UG/L	
MW552	INW55	CHLOROETHANE	SW8260	101	лел	
MW562	MW55	CHLOROFORM	SW8260	lolu	UGA	01
<u>MW562</u>	MW55	CHLOROMETHANE	SW8260	10[0	UGA.	0
MW552	IMW55	CHROMIUM, TOTAL	SW6010		UGA.	0.70
MW552	MW/55	CHRYSENE	SW8270	IOU	NG/L	01
MW552	IMW55	CIS-1, 3-DICHLOROPROFENE	SW8260		NG/L	01
<u>MW552</u>	MW55		SW6010	1.3U	UG/L	0.41
MW552	MW55	COPPER	SW6010	10	UG/L	0.50
MW552	MW55	DI-1-BUTYL PHITHALATE	SW8270	No1	NG∕L	
MW552	MW55	DI-A-OCTYUPHTHALATE	SW8270	NON	NG/L	
MW552	MW55	DIBENZ(a,h)ANIHRACENE	SW8270	<b>0</b> 01	NG/L	10
MW552	MW55	DIBENZOFURAN	SW8270	001	NG/L	
MW552	MW55	DIBROMOCHLOROMETHANE	SW8260	NO1	UG/L	10
MW552	MW55	DIBROMOFLUOROMETHANE	SW8260	1001	UGA.	8
MW552	MW55	DIETHYL PHTHALATE	SWB270	njol	NG/L	0
MW552	MW55	DIMETHYL PHTHALATE	SW8270	1010	NG/L	ğ
MW552	MW55	ETHYL BENZENE	SWB260	10 0	UGA [	01
MW552	MW55	FLUORANTHENE	SW8270		I/G/L	0
MW552	MW55	FLUORENE	SW8270	101	UGA_	0
<b>MW552</b>	MW55	FLUORIDE	E340.2	0.1	MGAL	0.1
MW552	MW55	HARDNESS (AS COCO3)	E130.2	50=	MGA I	3
MW562	MW55	HEXACHLOROBENZENE	SW8270	101	UGA. 1	01
<u>MW552</u>	MW55	HEXACHLOROBUTADIENE	SWB270	101	UGA	0
MW552	MW55	HEXACHLOROCYCLOPENTADJENE	SW8270	100	UGA.	10
<b>MW562</b>	MW55	HEXACHLOROETHANE	SWB270	101	UGA	0
MW552	MW65	INDENO(1,2,3-c,d)PYRENE	SWB270	101	UGA	10
MW552	MW55	IRON	SW6010	734=	UGA	1.8
MW552	MW55	ISOPHORONE	SW8270	100	I/G/L	10
MW552	MW55	LEAD	SW6010	5.1=	NGA	1
MW562	MW55	MAGNESIUM	SW6010	4210U	NG/L	4.3
MW552	MW55	MANGANESE	<u>SW6010</u>	27,4=	UG/L	0.063
MW552	MW55	MERCURY	SW7470	0.06 U	UGAL	0.06
<u>MW552</u>	MW55	MEIHYL ETHYL KETONE (2-BUTANONE)	SWB260	100	UG/L	10
MW552	MW55	METHYL ISOBUTYL KETONE (4-METHYL-2-PENIANONE)	SW8260	1010	иGЛ	10
<u>MW552</u>	MW56	METHMENE CHLORIDE	SW8260		ИGЛ	O
<b>MW552</b>	MW55	N-NITROSODI-D-PROPYLAMINE	SW8270	100	ΠGΛ	01
MW552	MW55	N-NITROSODIPHENYLAMINE	SWB270	100	<b>4</b> 90	0
MW552	<u>MW56</u>	NAPHTHALENE	SW8270	100	NGЛ	10
MW552	MW55	NICKEL	SW6010	3.60	UGA	0.44
MW552	MW55	NITROBENZENE	SWB270	10/0	UGA	10
MW552	MW55	NITROBENZE NE-D5	SW8270	78	NGA	0

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MWS5         NIFROGEN NIFATE (AS N)         E33.2         2           MWS5         PENIACHLOROPHENOL         SW8270         2           MWS5         PENIACHLOROPHENOL         SW8270         7           MWS5         PHENANTHERE         SW8270         7           MWS5         PHENOL         SW8270         7           MWS5         PHENOL         SW8270         7           MWS5         PAROL         SW8270         7           MWS5         PAROL         SW8270         7           MWS5         PAROL         SW8270         7           MWS5         SUL         SW8270         7           MWS5         SUL         SW8270         7           MWS5         SUL         SW8270         7           MWS5         SUL         SW8270         7           MWS5         SULA         SW8200         7           MWS5         SULA         SW8200         7           MWS5         SULA         SW8200         7           MWS5         SULA         SW8200         7           MWS5         ITRACHLOROFINERE         SW8200         7           MWS5         INMUS5         SULA	Sample ID	Siotion Location	Analyte Parameter	Anatytical Method	Votue	Project Qualitier	i etinu	Delection Limit
MW55         FENTACHLOROPHENOL         SW8270           NW55         PHENANTHRENE         SW8270           NW55         PHENANTHRENE         SW8270           NW55         PHENAIL         SW8010           NW55         SULVER         SW8010           NW55         SULVER         SW8010           NW55         SULVER         SW8010           NW55         SULAR         SW8010           NW55         SULAR         SW8200           NW55         SULAR         SW8200           NW55         SULAR         SW8200           NW55         IRPHENLOIR         SW8200           NW55         IRPLAILUNA         SW8200           NW55         IRPLAIL         SW8200           NW55         IRPLAIL         SW8200           NW55         IRPLAIL         SW8200           NW55         IRPLAIL         SW8200           NW55         IRPLAI	MW552	MW55	Ψ	E353.2	3.79		MG/L	0.25
MW55         PHENANTHRENE         SW8270           MW55         PHENOL         SW8270           MW55         PHENOL         SW8270           MW55         PHENOL         SW8270           MW55         POLASSIUM         SW8270           MW55         POLASSIUM         SW8270           MW55         STRENE         SW8270           MW55         SLERNIM         SW8200           MW55         SULFATE         SW8200           MW55         ITERPHENNL-D14         SW8200           MW55         ITERACHLOROEINFENERCE         SW8200	MW552	MW55		SW8270	5	U	UG/L	5
MW55         PHENOL         SW8270           MW55         PHENOL-D5         SW8270           MW55         PCALASSUM         SW8270           MW55         PCALSSUM         SW8270           MW55         SELENUM         SW8270           MW55         SELENUM         SW8270           MW55         SELENUM         SW6010           MW55         SULFATE         SW6010           MW55         TERPHEML-D14         SW6010           MW55         TERPHEML-D14         SW6010           MW55         TERPHEML-D14         SW6010           MW55         TERPHEML-D14         SW6010           MW55         TOULENE         SW8260           MW55         TOULENE         SW8260           MW55         TOULENE         SW8260           MW55         TOULENE         SW8260           MW55         <	MW552	MW55	PHENANTHRENE	5W8270	õ	, I	NGΛ	01
MW55         PHENOL-D5         SW8270           MW55         PCIASSIUM         SW8270           MW55         PCIASSIUM         SW8270           MW55         PCIASSIUM         SW6010           MW55         St.ENJIM         SW8200           MW55         SULFATE (AS \$CM)         SW6010           MW55         IFRPHENN-D14         SW8260           MW55         ICULENE (PCE)         SW8260           MW55         ICIAL DISSOLVED SCUIDS (RESIDUE, FILERABLE)         SW8260      <	MW552	MW55	PHENOL	SW8270	01	<u>η</u>	ปอก	01
MW55         PCIASSIUM         SW6010         F           MW55         PYRENE         SW8270         SW8270           MW55         SELEMIUM         SW8270         SW8270           MW55         SELEMIUM         SW8270         SW8270           MW55         SULFATE (AS SO4)         SW8010         1           MW55         SULFATE (AS SO4)         SW8260         SW8260           MW55         SULFATE (AS SO4)         SW8260         SW8260           MW55         ITRPHENYL-D14         SW8260         SW8260           MW55         IDUENE         SW8260         SW8260           MW55         IOUENE         SW8260         M8260           MW55         IOUENE         SW8260         M8260<	MW552	MW55	PHENOL-D5	SW8270	78		цед	0
MW55         PYRENE         SW8270           MW56         SELENUM         SW6010         1           MW55         SUVER         SW6010         1           MW55         SULFATE         SW600         1           MW55         NW55         SW8260         1           MW55         TOULENE         SW8260         1	MW552	MW55	POLASSIUM	SW6010	1200		UGA UGA	1290
MWG6SELENUMSW6010MW55SLVERSW6010MW55SLPRESM6010MW55SDRMSM6010MW55STARESM6010MW55STARESM6010MW55SULFATE (AS SOM)SW800MW55TERPHENT-D14SW8200MW55TERPHENT-D14SW8200MW55THALLUMSW8200MW55THALLUMSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55TOULENCSW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200MW55MW55SW8200 <td>MW552</td> <td>MW55</td> <td>PYRENE</td> <td>SW8270</td> <td>õ</td> <td>7</td> <td>10 UG/I</td> <td>01</td>	MW552	MW55	PYRENE	SW8270	õ	7	10 UG/I	01
MW55BI VERSW6010MW55SODIUMSW6010MW55SPYRENESW6010MW55STYRENESW6010MW55SULFATE (AS SOA)SW8200MW55TERPHENN-D14SW8200MW55TERPHENN-D14SW8200MW55THALLUMSW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOULENESW8200MW55TOOLENESW8200MW55TOOLENESW8200MW55TOOLENESW8200MW55TOOLENESW8200MW55NW550SW8200MW55NW550SW8200MW55TOOLENESW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550SW8200MW55NW550 <t< td=""><td>MW552</td><td>MW55</td><td>SELENJUM</td><td>SW6010</td><td>3.7</td><td></td><td>NG/L</td><td>3.7</td></t<>	MW552	MW55	SELENJUM	SW6010	3.7		NG/L	3.7
MWS5SODIUMSNM60101MW55STYRENESNM200SNM200MW55SULFATE (AS \$CM)SNM200SNM200MW55TERPHENN-D14SNM270SNM270MW55TERPHENN-D14SNM270SNM270MW55TERPHENN-D14SNM270SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55TOLUENESNM220SNM220MW55NUN55RICHLOROPROFENESNM220MW55NUN55RICHLOROPROFENESNM220MW55NUN55RICHLOROPROFENESNM220MW55NUN55SUM250SNM220MW55NUN55NUN1 <chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1<chlorofene< td="">SNM220MW55NUN55NUN1&lt;</chlorofene<></chlorofene<></chlorofene<></chlorofene<></chlorofene<></chlorofene<></chlorofene<></chlorofene<>	MW552	MW55	SILVER	SW6010	0.57	n N	ne/L	0.57
MWS5STYRENESWR260MWS5SULFATE (AS \$04)SWR260MWS5TERPHENN-D14SWR260MWS5TERPHENN-D14SWR260MWS5TERPELIOROETHMENE(PCE)SWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5TOLUENESWR260MWS5NWS5SWR260MWS5NWS5SWR260MWS5NMWS5SWR260MWS5NMWS6SWR260MWS5NMWS6SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5SWR260MWS5NMWS5<	MW552	<u>MW55</u>	SODIUM	0109MS	14900		UG/L	2(1
MW56SULFATE (AS \$CM)E375.4MW55TERPHENNL-D14SW8270MW55TERPHENNL-D14SW8270MW55TERPACHLOROETHMENE(PCE)SW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLUENESW8260MW55TOLOUENESW8260MW55NW55SW8260MW55NW55SW8260MW55NW55SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260MW55NM750SW8260	MW552	MW55	STYRENE	SW8260	10	n	NG/L	
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MW55     IEIRACHLOROEIHMENE(PCE)     SW8260       MW55     IHALLIUM     SW8260       MW55     FOLUENE     SW8260       MW55     FOLUENE-D8     SW8260       MW55     FORME-1.3-DICHLOROPROFENE     SW8260       MW55<	MW552	MW55	TERPHENYL-D14	SW8270	82		ne/r	0
MWS5     INALIUM     SW6010       MW55     FOLUENE     SW8260       MW55     FOLUENE     SW8260       MW55     FOLUENE     SW8260       MW55     FOLUENE     SW8260       MW55     FOLA 1/2-DICHLOROERENE     SW8260       MW55     FOLA 1/2-DICHLOROERENE     SW8260       MW55     FOLA 1/2-DICHLOROERENE     SW8260       MW55     Irons-1.3-DICHLOROPROFILE     SW8260       MW55     Irons-1.3-DICHLOROPROFILE     SW8260       MW56     Irons-1.3-DICHLOROPROFILE     SW8260       MW55     Irons-1.3-DICHLOROPROFILE     SW8260       MW56     VANADIUM     SW6010       MW55     VANADIUM     SW6010       MW56     VINVL CHLORIDE     SW8260	<u>MW552</u>	MW55	TETRACHLOROETHYLENE(PCE)	SW8260	0I	Ŋ	NG/L	01
MWS5     FOLUENE       MW55     FOLUENE<-D8	MW552	MW55	MUTHALI	0109MS	2.6	n	uG/L	2.3
MW55         FOLUENE-D8         SW8260           MW55         EOFAL 1,2-DICHLOROERENE         SW8260           MW55         FOTAL 1,2-DICHLOROERENE         SW8260           MW55         Total 1,2-DICHLOROERENE         SW8260           MW55         Indel Xylenes         SW8260           MW55         Indel Xylenes         SW8260           MW55         Ince-1,3-DICHLOROPROPENE         SW8260           MW55         Ince-1,3-DICHLOROPROPENE         SW8260           MW55         Incertol CoEhMLENE (TCE)         SW8260           MW55         VANADIUM         SW6010           MW55         VINNL CHLORIDE         SW6010	MW552	<u>MW55</u>	TOLUENE	SW8260	10	Ū,	ure,∟	01
MWS5         IOFAL 1,2-DICHLOROERENE         SW8260           MWS5         FOFAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)         EL60.1           MWS5         Total Xylanes         SW8260           MWS5         Indel Xylanes         SW8260           MWS5         Indel Xylanes         SW8260           MWS5         Indel Xylanes         SW8260           MWS5         Indel Xylanes         SW8260           MWS5         IRICHLOROFINLENE (TCE)         SW8260           MWS5         VANADIUM         SW6010           MWS5         VINNL CHLOROETHYLENE (TCE)         SW8260           MWS5         VANADIUM         SW6010	MW552	MW55	IOLUENE-D8	SWB260	102		NG/L	0
MWSS         TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)         E160.1           MWSS         Total Xylanes         Sw8260           MWSS         Incms.1.3-DICHLOROPROPENE         Sw8260           MWSS         Incms.1.3-DICHLOROPROPENE         Sw8260           MWSS         InchLOROETHYLENE (TCE)         Sw8260           MWSS         VANADIUM         Sw6010           MWSS         VINNL CHLOROETHYLENE (TCE)         Sw6010           MWSS         VINNL CHLOROETHYLENE (TCE)         Sw6010	<u>MW552</u>	MW55		SW8260	0	0	UG/L	01
MW55         Total Xvienes         Swe260           MW55         Irons-1,3-DICHLOROPROPENE         Swe260           MW55         IrrichLOROFINENE (ICE)         Swe260           MW55         VANADIUM         Swe260           MW55         VANADIUM         Swe260           MW55         VINVLENE (ICE)         Swe260           MW55         VINVL CHLOROFINENE (ICE)         Swe260           MW55         VINVL CHLOROFINENE (ICE)         Swe260	MW552	MW55		E140.1	991		MG/L	10
MW55         Itoms-1.3-DICHLOROPROPENE         SW8260           MW65         IRICHLOROFHNENE (ICE)         SW8260           MW55         VANADIUM         SW8260           MW55         VINNIL CHLOROFHNENE (ICE)         SW8260           MW55         VINNIL CHLOROFHNENE (ICE)         SW8260           MW55         VINNIL CHLOROFENE         SW8260	<u>MW562</u>	MW55		SW8260	0	0	UG/L	101
MW55 IRICHLOROEHMLENE (TCE) SW8260 MW55 VANADIUM MW55 VINYL CHLORIDE SW8260 MW55 MUNT CHLORIDE SW8260	MW562	MW55	Itams-1,3-DICHLOROPROPENE	SW8260	10	0	UGA	10
MW55 VANADIUM MW55 VIINT CHLORIDE MW55 MUN CHLORIDE	MW562	MW55	IRICHLOROETHYLENE (ICE)	SW8260	101	, N	NGU	10
MW455 MINNL CHLORIDE SWI2260	MW552	MW55	ŅANADIUM	SW6010	1.6	ŋ	UGA	0.42
	MW552	MW55	MINYL CHLORIDE	SWB260	01	U	UG/L	01
	MW552	MW56	ZINC	0109/010	8.21	2	ЧGЛ	0.53

Appendix C

Purge Logs

Installation <u>DUNUTZELD</u> Installation <u>DUNUTZELD</u> Site/Project <u>DDMTZQTSAMPL7/NA</u> Site/Project Number <u>DDMTZQTSAMPL7/NA</u> Project Number <u>NUZZ USAMPL7/NA</u> Purge Start <u>dite</u> <u>6/21/97</u> <u>instant</u> <u>6054</u> Purged by <u>CR TUFLY 16. A. FORD</u> Purge End <u>date</u> <u>6/21/97</u> <u>instant</u> <u>606</u>
Site/Project DDMT 201 AMPLINA Sample (C Number MW 22 clar the Project Number 11362003.727 Purge Stars date 6/21/97 the 6094 Purged by CR JUFLY 16. A FORD Purge End date 6/21/97 the 606
Purged by C.B. ZUELY 16. A. FORD Purge End and 6/21197 100 106
Purged by <u>Latte UCK y CONTENDIOL</u> Purge End Late
Well Head Reading O. O. PPH
Depth Measurement Reference Point (TOC) Well Casing ID: 2 4' 6' Other
Depth to Tap and Bottom of Screen tops
Original Depth to Water (DTW) Final Depth to Water (DTW)
- Original DTW $\frac{75.03}{(7-0.16)}$ (7-0.16)
= Wtr Col Thick. $[0,77] = 5-28$ pals/t = 1.76 gals/casing vol X is casing vol = 5-28 parts
Purge Method       SS       SS       Centrifugal       Peristaille       Hang       Cas Liv       Oner         Submersible       Bladder Pump       Pump       Pump       Pump       Osciace:new       Oner         Pump       Bladder Pump       Pump       Pump       Pump       Osciace:new       Oner         Pump       Bladder Pump       Pump       Pump       Pump       Osciace:new       Oner         Purging Equipment (Make, Model, Elc.)
Purging Equipment Decontaminated? () / N Purge Water Containerized? () / N
Average Purge Rate 0.30 gpm Weather PANUY CLOUDY ~ 85°F
Time Volumes Depth to : Depth of Temp *C pil Conductivity Turbidity DO Schully
1000/175 21.66.03 B7 Lant 3.29 206 12445 Amson (un
10053.5 19.89 608 573 LIGHT 4.01 217 11
CLOUSE DERED PURGED WILL COLLECT SAMPLE.

All Depins in Feel Below Reservate Point on Weilhead - Generally Top of Casing (TOC)

## EISTENDE MONITORINGEWEEL PURGINGE EUGE

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stallation	- DDM	ч / Ц.	- mohis	<u> </u>				nwo.	37	
ile/Project			1 2	<i>,</i>	_ Sample					
roject Number	<u> </u>	3.30.1	<i>KU</i>		Purgs S	Start <u>dain</u>	1	1 1 4 -	<u>09/0</u>	
urged by 🔛	- baldi	no /Ngu	wer	<u></u>	_ Purge é	ind <u>date</u>	6/	<u>z//97</u>	-0925-	-
rell Head Reading	0_(	ກີ່		<b>-</b>						
	n Reference Point .				<u> </u>	۷	Vell Casing	180: (r) +	° 6° Other_	
epth to Top and B	lottern of Screen	77	4	ų.	h ogs	•_		V .		
	/aler (OTW) 🔔				_ Final	Depth to Wat	ter (OTW)	·		
Measured Well TE	77.4	2	<u>.</u>			<u> </u>				
	6Z.1	× ',	-0.18						•	
winginger of the	15.31	– : _ X =	-0.55 -1.37 gaist	h =	<u>Z.44</u>	gals/casing v	ہے کارہ	í ; casing vol	= 7.30	ريم در 1
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ómersible <sup>—</sup> Pump <u>—</u>	Dedicated	Bladder -	BaileAZ	Tel PVC	Cantofu Pur	Pe الدو ف	ristaitle — Pump _	Hand Pump	Gas Litt/ " Displacement	
	Bladder Pump	Pump_	. (-	- PTL-						
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ing Equipment	t (Make, Model, Etc I Decontaminated?		· · · · · · · · · · · · · · · · · · ·	-/	Purge Water	<u> </u>			קחוניץ 	
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<u>, -</u>	Installatio	<u>.</u> <u>ð</u>	DNT			– Weil Nu	umber —	0	/	258 210	
	Site/Proje	-	-	-			iD Numbe	<u>, M</u>	w042	2	
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					-	_ Purge l		· · · ·	ſ		
	Weil Head J	surement Refe	rioca Point				,	Well Casing	10: (2) +	6 Other	
		o and Soltom			÷	1 0 <u>05</u>	-,	•	$\mathcal{O}$	-	
		pth to Water (		*	·.		Depth to Wa	iter (DTW)			
	Measured		<u>n st</u>					1			
	- Qrigi	inal DTW 🤳	9.80	2*• 0.16				ð	•	C 1074. 2033	
	= wtr C	ol Thick	2. <u>8</u>	4° + 0,65 X 6° + 1,47 gais	utt =	_!.9	gais/casing	vel X 5	casing vol =	- <b></b> 5424	
	Purge Mati	hod			SS	<sup></sup>				Ŭ:	151
	Submersibl Pum	le – ( ¢ _ Sladd	ledicated T ter Pump 🔔	Bladder Bailer		🗴 Centralu	igal — Pi mp _	eristaille — Pump _	Hand T Pump	Gas Lity	
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		vipment (Make uipment Decor		-		Purge Water	Containerize	1/101	N		
	Average Pu							$\mathcal{O}$			
-	Weather	u	nf.			<u></u>			<u>.</u>		
	Time	Volumes Purged (gallons)	Oepih to Water (reet)	: Depth of Temp *C Pump Intake (teet)	; [5.a.]	Conductivity	Turbidity (NTa)	00	Salinity	Commenis	
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All Depins in Feet Below Reference Point on Weikhead - Generally Top of Casing (TOC)

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### CIZYTHUS MONITORING WEEL PURGING ED •

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	258 211
Installation DDMT Well Number M(w) = 0.4	
Site Project ZND NT Give Singling TULN Field Sample ID Number MULL - 05	īđ
Project Number //3603.03.22 Purge Start date G-21-97	ner (1082)
Purged by C. Timer, C. FORD Purge End 184 6-21-97	time
Well Head Reading ppm	
Depth Measurement Reference Point	4 6 Giner
Depth to Top and Battom of Screen It bos	•
priginal Depth to Water (DTW) 74:50 Final Depth to Water (DTW)	
Measured Weil TD $79.25$ - Original DTW $74.50$ = Wir Col Thick $-9.15$ X $3^{\circ}$ -1.47 gals/t = $0.76$ gals/casing vol X s casing vol X s	= <u>2/39</u>
Purge Method Nubmersible Dedicated BladderBailer X SS Centrifugal Peristalitic Hand Pump Bladder Pump Pump Pvrc Pump Pump Pump Pump Pump Purging Equipment (Make, Model, Etc.) Dissipative TEFtern JBnices	
Purging Equipment Decontaminated? Y 1.1 Purge Water Containerized? 7 1 N	
Purging Equipment Decontaminated? Y 1/17 Purgs Water Containerized? 7/ N Average Purgs Rate 0.25642 BATLIST = 1642/VOL = 4 PULLS /VOL	- 
Purge Equipment Decontaminated?       Y       Purge Water Containerized?       Y       N         Warage Purge Rate 0.2560.       BAILSem       1601/V01 => 4 Puilts / V01         Weather       End Provide	La 14 TOMFO Ca à
Purging Equipment Decontaminated?       Y       Purging Equipment Decontaminated?       Y       Purging Equipment Decontaminated?       Y       N         Wearage Purging Rate 0.25(AL_BATLown $\rightarrow$ $160L/VOL \Rightarrow$ $4$ $Purlis/VOL$ $\rightarrow$ $4$ $VOL$ $\rightarrow$ $4$ $Purlis/VOL$ $\rightarrow$ $7$	Laguer To MFO Cala
Purging Equipment Decontaminated? Y 1 Purgs Water Containerized? Y 1 N Average Purgs Rate 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather Containerized? Y 1 N Neather Containerized? Y 1 N Neather State Purgs Rate 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather Containerized? Y 1 N Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 4 PULLS /VOL Neather State 0.25(AL BAILSem =) 160L/VOL =) 180L/VOL  Laguer Tompo Cala	
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Purge Equipment Decontaminated?       Y IN       Purge Water Containerized?       Y IN         Weather $Older Older $	Laguer Tompo Cala
Purge Equipment Decontaminated?       Y I.A       Purge Water Containenized?       Y I.N         Wearage Purge Rate $O.2.5(OL, BNILsem)$ >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Laguer Tompo Cala
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an Depths in Feet Below Recorder Point on Wellhead - Generally Top of Casing (TOC)

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- Well Head	- y-					0m			_		
Depth Me	asurement Refere	nce Point	7	toc		<u> </u>	Well C	asing ID: 2°	€ ∎(	000er	
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Measure	d Well TO	1,24	-	- <u>.</u>				1 2			
	pinal DTW <u>58</u> /	.26 (G0		r - 0.65		1,72		<b>Ø</b>		5. 75	TAL RGE
= W0	Cot Thick1	<u>,98</u>	_ X 6	ir - 1, 47 gais	ytt = _	gals/	casing vol	K 5 casing 1		JAC	
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All Depins in Feel Below Reference Point on Wethead - Generally Fop of Casing (FDC)

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Ab Depths in Feet Below Reference Point on Wellhead - Generally Top of Casing (TOC)

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, -	Installation —	De	MT		- Well Nur	mber —	_	08	·
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-	Project Numbe	·	5.03.88	· · · · ·	Purge S	tart <u>date</u>	6/1	197 s	<u>, 1050</u>
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	Original Depth to 1				_ Final [	Depth to Wate	. (DTW) -	•	
		0 <u>68.30</u> w <u>57.9</u>					1		TOTAL
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installatio		unn	1+20			Well N	impet –			>
Site/Proje			$\frac{20}{200}$		<u>AMAZN</u>	9 Sample	ID Numi	ber <u>     </u>	<u>1072</u>	
Project N		136	<u>50. C</u>	<u>3 Za</u>	<u> </u>	Purge	Start 1	<u>n 677</u>	<u>1079 /</u>	
Purged b	, <u>C.R</u>	<u>IUER</u>	<u>v/G</u>	A tai		Purgal	Eņd	<u>1112</u> 6/2	<u>,797</u>	her. 1025
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-	oth 10 Water (1			71.10		_ Fina	Depth Io S	Water (DTN)		
- Origi = Wiz C	inal OTW Col Thick	<u>70</u>	- ( - x	Z - 0.16 T - 0.55 S - 1.47 ga	) Ist = .	147	1.5 .gals/casin	ig voi X s	casing vol	= <u>4/26</u>
Purm Purging Eq	vipment (Make	ledicated Ter Pump e. Model, Etc	Bladder Pumo ) <u>2° (</u>	_	- Mc. PUMIP	<u>Centrik</u> Pu - <u>0940</u>		Peristaitle Pump_ > MALF(	4127X	USUG (AMRT
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22 Depins in Feet Below Reference Point on Weithead - Generally Top of Casing (TOC)

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	C:31/1-1/81	MONIA	I, IVC-	WEER.	<u>, UR (HIN</u>	(r≓1)(r					258 221
, <b>-</b>		INTE	<u> </u>	)		. Well N	umber	MW-	15		
	Site/Project	MOG	<u> 12(</u>	JT SA	MPL14	Sampl	e ID Numb	<u>, MW</u>	152		<del></del>
-	Project Number —	1136	<u>,30 i</u>	<u>03.7</u>	2	Purge	Start <u>di</u>	7[ما _	<u>'of9 /</u>	<sub>iir</sub> . 14	45
	Purged by	AFON	$\mathbb{D}\left( \left( \mathcal{T}\right) \right) \right) \mathbb{C}$	RIU	<u>EQ</u>	Purge	Eņd _da	6/2	0/97	<u>sir. / :</u>	540
	Well Head Reading	0.0	- AND C.			ppm	2		-		•
	Depth Measurement Ar	iterence Point		<u>TOC)</u>				Well Casing I	0: (7)	<b>-1"</b> 5" '	
	Depit to Top and Botto	m of Screen		<u>78.41</u>		<u>h bgs</u>	-	•	·.		
	Original Depth to Wate	(DTW) 477		64.3.2		Fina	d Cepth to Wa	ater (DTW),			
	Measured Well TD	(A.32	<u>,</u>			1	,2.25	-			6.75
	= Wir Gol Thick, .	100	Ξx`	27 - 0.15 17 - 0.65 5' - 1.47 ga	isti = .	<u>2,30</u>	_ gals/casing	vol X s	casing vol	= . /0	9 PORGE
	Furge Method										
	Submersible —	Oedicated Idder Pump	Bladder Pump	Bailer		Centrif Pt	ugal 🗌 🦻 P ump 🔔 🗠	eristaitic <sup></sup> Pump	Hand <sup></sup> Pump	Cist-res:	Uity T
	Pyrging Equipment (M	ake Model Fic		,					fin	9	ų.,,,
	a straight and a straight stra			6-2 (74)	r <u>Nazun</u>	SHOLE P	<u> </u>	<u> </u>	<u>+10N</u>		<b></b>
	Curning Equipment De	contaminated?	- v (A)	}		Puros Water	r Containerize	d7 Y / 1			<b></b>
•	Furging Equipment De Average Purge Rate	contaminated?	(آ) ب معرف	) Distasar	it Baller	Purge Water A 🗢 9.2	r Containerize	d7 Y / 1		jı_ ⊇>Z	2.25 GAL/VOLUME
•	Furging Equipment De Average Purge Rate	contaminated?	(آ) ب معرف	) Distasar	it Baller	Purge Water R => 9.2	r Containerize PULS/VC	d7 Y / 1		jı_ ⊇>Z	2.25 GAL/VOLUME
•	Furging Equipment De Average Purge Rate Weather Time Volumes	contaminated? <u>0.256</u> 4 <u>ب د م</u>	Y / (1) AL AZ /72	) Distanr <u>==</u> Temp - C	it Baller	Purge Water A 🗢 9.2	r Containerize PULS/VC	d7 Y / 1			2.25 644 VOLUME
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gallons) 1507 Z.2	0.2560 0.2570 0.25700 0.25700 0.25700 0.25700 0.25700000000000000000000000000000000000	Y (1) AL 500 AT 72= Depth of Pump intal (feat) 	) Distanr <u>ez</u> Tamp <sup>+</sup> C <u>19,49</u>	17 BAILEI 9-2 9-7 14-1 14-1 5.83	Purge Water R = 9.2 Canductivity 186	Turbidity		Pulls/W Salinity N/p	900× 262.	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL AT /72 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	17 BALLEI 9-2 0+ 14-1 5.93	Purge Water $R \rightarrow 9.2$ Canductivity 186 186 180	Turbidity N/A N/P	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gallons) 1507 Z.2	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL 500 AT 732 = : Depth of Pump intak : (fext) : (fext) :	) Distanr <u>ez</u> Tamp <sup>+</sup> C <u>19,49</u>	17 BALLEI 9-2 0+ 14-1 5.93	Purge Water $R \rightarrow 9.2$ Canductivity 186 186 180	Turbidity	00 7.67 7.90	Pulls/W Salinity N/p N/p	900× 262.	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL 500 AT 732 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	17 BALLEI 9-2 0+ 14-1 5.93	Purge Water $R \rightarrow 9.2$ Canductivity 186 186 180	Turbidity N/A N/P	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL 500 AT 732 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	17 BALLEI 9-2 0+ 14-1 5.93	Purge Water $R \rightarrow 9.2$ Canductivity 186 186 180	Turbidity N/A N/P	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL 500 AT 732 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	17 BALLEI 9-2 0+ 14-1 5.93	Purge Water $R \rightarrow 9.2$ Canductivity 186 186 180 182	r Containerize Rulls/Vc Turbidity (NTa) N/A N/A	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL 500 AT 732 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	F BALLEI 9-2 0- 9-2 0- 9-1 0- 9-1 9-1 1-1 5.93 5.75	Purge Water $R \Rightarrow 9.2$ Conductivity 186 186 180 182	r Containerize Rulls/Vc Turbidity (NTa) N/A N/A	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (N)	) Distaire <u>ez e </u>	F BALLEI 9-2 0- 9-2 0- 9-1 0- 9-1 9-1 1-1 5.93 5.75	Purge Water $R \Rightarrow 9.2$ Conductivity 186 186 180 182	r Containerize Rulls/Vc Turbidity (NTa) N/A N/A	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
•	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (1) AL AT /72 = : Depth of Pump intak : (fext) : (fext) :	) Distaire <u>ez e </u>	F BALLEI 9-2 0- 9-2 0- 9-1 0- 9-1 9-1 1-1 5.93 5.75	Purge Water $R \Rightarrow 9.2$ Conductivity 186 186 180 182	r Containerize Rulls/Vc Turbidity (NTa) N/A N/A	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 
	Furging Equipment De Average Purge Rate Weather Time Volumes Purged (gabos) 1507 2.2 1575 44	Contaminated? 0.2560 0.2570 0.2770	Y (N)	) Distaire <u>ez e </u>	F BALLEI 9-2 0- 9-2 0- 9-1 0- 9-1 9-1 1-1 5.93 5.75	Purge Water $R \Rightarrow 9.2$ Conductivity 186 186 180 182	r Containerize Rulls/Vc Turbidity (NTa) N/A N/A	00 7.67 7.90	Pulls/W Salinity N/p N/p	100× 162. 367	- 

All Decids in Feet Below Reference Point on Weddhead - Generally Top of Casing (TOC)

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		MONIT	IRING <b>E</b> WEEL I	ÜR(GIN	G-EOG			
	Installation	PD N	17		Well Num	iber	Nw-16	258 222
	Site/Project	, 			Sample II	Number	<u>1w16t</u>	<u> </u>
			03.03. <u>7</u> 7		Purge St		,	. 0800
	Purged by	aldi	no / Naju y	<u>e1</u>	Purge En	d _1212 6/	1 <b>4/97</b> ti	0815
	Well Head Reading		• 	$\mathcal{O}_{\mathcal{C}}$	pom.		7	• 
	Depth Measurement Rele	rence Point .				Well Casing	10: 7 1	6 Other
	Depth to Top and Bottom	of Screen	· · · · · · · · · · · · · · · · · · ·		h bgs	-	•.	
	Original Depth to Water (I				- Final Di	epth to Water (OTW)		
	Measured Well TO	7 <u>5-50</u> 7 -72	- ·			1 2	-	
	- Original OTW <u></u>	<u>6.73</u> 8.77		<b></b>	3.00	ts/casing vol X 5	i casine vel =	<b>90</b>
	= Wtr Col Thick		X 67-1,47 gal	yn = . 	<u>.                                    </u>			
•	Pump Bladd Purging Equipment (Make Purging Equipment Decor Average Purge Rate	ntaminated?	•	- PVC 1		ntsinerized?		Gas Lift/ Disclacament Pump
•	Weather	mf.			·		<u> </u>	
	Time Volumes Purgad (gabons)	Osolb to Water (feet)	Depth of Temp *C Pump Intake (teet)	: [1.1]	Conductivity T	urbidity DD (NTa)	Sailnity	
	(		706/	5.97	652	0.93	8.32	187.4
	2		71.23	5,92	603	0.58	0.11	(93.8
	<u> </u>		71.39	598	585	. O.88	0.29	181.3
			·	<u>.</u>	·	·		<u> </u>
	<u> </u>			-	·		<u> </u>	
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			-		÷		<u> </u>	
			: . :		: • •		   : 	
		· · ·	. :	2	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
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All Depins in Feet Balaw Reference Point on Wellnead - Generally Top of Casing (TOC)

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	CHANTINE MONITORINGEWETE RURGINGEOG	
	Installation DDMT JASTALI97200 Well Number MU	1-19 258 223 192
	Site/Project DDMT 2 QT SAMPLING Sample ID Number MW	192
•	Project Number 113630.0322 Purga Start 6/16	/27 ::
	Purged by C.R. IVERY 1G.A. FOILD Purge End due	li <u>m</u> .
	Well Head Reading O - O PPMppm	-
	Depth Measurement Reference Point Well Casing I	0: 2" 4" 5" Cutor
	Depth to Top and Bottom of Screen	
	Original Depth to Water (DTW) Final Depth to Water (DTW)	
	Measured Well TD 05.10	3.75
	• Original DTW 88.06	2 45
	= Wir Col Thick. $209 \times 6 \times 1.47$ gals/t = $125$ gals/casing vol X 5	$\frac{\operatorname{casing vol}}{2} = \frac{2 \cdot \theta}{2} \frac{\theta}{2} $
	Purge Method SS	Hand Gas there are
	Submersible Dedicated Bladder Bladder Cantrilugat Peristalife Pump Bladder Pump Pump Pump Pvrc Pvrc Pump Pump Pump	Pump Cisciaczinent Pump Cisciaczinent
	Punging Equipment (Make, Model, Etc.) D2SPOAREBAILER - LIPONWEUHEADE	WILL NOT ALLOW THE
	Purge Water Containerized? Y / (N) Purge Water Containerized? () / J	MANNER MAMP
•	Purging Equipment Decontaminated? Y / (N) Purge Water Containerized? Of 2 Averge Purge Bate O. 256/BOZL gen = 5 PULLS/VOL	MANNER MAMP
•	Purging Equipment Decontaminated?       Y / N       T in SERTATULIO OF Z         Purging Equipment Decontaminated?       Y / N       Purge Water Containerized?         Average Purge Rate       O- 256/BOZL reprint       5 PULLS/VOL         Weather       SUAUX 88 °F       *	MANNER MAMP
•	Purging Equipment Decontaminated?       Y       N       Furge Water Containerized?       Y         Average Purge Rate       O-256/BRZL esem = 5 PULLS/VOL       SUALY 80°F       *         Weather       SUALY 80°F       *         Time       Votumes       Depth to : Depth of Temp *C       pH       Conductivity       Turoldity       00	MANNER MAMP
	Purging Equipment Decontaminated?       Y       N       Furge Water Containerized?         Average Purge Rate       0.256/BAZL gen = 5 PULLS/VOL       Purge Water Containerized?       1         Average Purge Rate       0.256/BAZL gen = 5 PULLS/VOL       SUALY 88 °F       *         Weather       SUALY 88 °F       *       *         Time       Votumes       Oepth to : Depth of Temp *C       pH       Conductivity Turbidity       00         Time       Votumes       Verge Water       (s.a.)       ()       (Nfa)	Selimity
	Purging Equipment Decontaminated?       Y       N       TinSERLTATULIO OF Z         Purging Equipment Decontaminated?       Y       N       Purge Water Containerized?         Average Purge Rate       O-256/BOZL epen = 5 PULLS/VOL       Purge Water Containerized?       Y         Weather       SUALY 80 °F       *         Time       Votumes       Depth to : Depth of Temp *C       pH       Conductivity* Turbidity       00         Time       Votumes       Water       Pump intake       (s.a.)       ()       (NTa)	N N Selimity REDX
	Purging Equipment Decontaminated?       Y       N       Purge Water Containerized?       Y         Average Purge Rate       0.256/BQZL.gep = 5 PULLS/VOL       SUALY 88 °F       Y       Y         Weather       SUALY 88 °F       Y       Y       Y       Y         Time       Votumes       Depth to :       Depth of Temp °C       pH       Conductivity' Turbidity       00         Time       Votumes       Verge Water       Purge Intake       (S.L)       (S.L)       1       (NTa)         [gations]       [feet]       (feet)       [S.L)       (S.L)       (S.L)       (S.L)       1       00         [144       -25       1       [J.56/6.70]       150       H34/4       1.02	N N Selimity REDX
	Purging Equipment Decontaminated?       Y       N       Purge Water Containerized?       Y       N         Average Purge Rate       0-256/BOZL epen = 5 PULLS/VOL       SUALY 88 °F       Y       Y       N         Weather       SUALY 88 °F       SUALY 88 °F       Y       Y       N       Y       N         Time       Vatumes       Oepita to       Depita to       Depita to       Support       Y       N       N         Time       Vatumes       Oepita to       Depita to       Depita to       Support       Y       N	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated?       Y       N       Purge Water Containerized?       Y       N         Average Purge Rate       0-256/BOZL epen = 5 PULLS/VOL       SUALY 88 °F       Y       Y       N         Weather       SUALY 88 °F       SUALY 88 °F       Y       Y       N       Y       N         Time       Vatumes       Oepita to       Depita to       Depita to       Support       Y       N       N         Time       Vatumes       Oepita to       Depita to       Depita to       Support       Y       N	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated?       Y       Y       Purge Water Containerized?       Y         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Weather       SUALY 80°F       ************************************	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated?       Y       Y       Purge Water Containerized?       Y         Average Purge Rate       O-256/BAZL gesc       S       PULS/VOL         Average Purge Rate       O-256/BAZL gesc       S       PULS/VOL         Weather       SUALY       SOOPF       S         Time       Vatumes       Oepta to       Dopth of Temp *C       pH       Conductivity       Turbidity       DD         Itent       Water       Pump intake       (Isa)       Itent       Itent <td>N N N NETX 260 DARKAMBER (CON)</td>	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated?       Y       Y       Purge Water Containerized?       Y         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Weather       SUALY 80°F       ************************************	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated?       Y       Y       Purge Water Containerized?       Y         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Average Purge Rate       O-256/BOZL gear       5       PULS/VOL         Weather       SUALY 80°F       ************************************	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated? Y / N Average Purge Rate 0.256/BOZL see = 5 PULS/VOL Weather	N N N NETX 260 DARKAMBER (CON)
	Purging Equipment Decontaminated? Y / N Average Purge Rate 0.256/BOZL see = 5 PULS/VOL Weather	N N N NETX 260 DARKAMBER (CON)

All Desires in Feet Below Reletonce Paint on Wellhead - Generally from it Casing (TOC)

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installation DDMT INSTALLAZIGED Woll Number MW-20	<u>د</u> 4
Site/Project	
Project Number 113630,03.22 Purge Start data 6118/97 time 1007	
Purged by CRIVERY /G.A.FOLT Purge End No.	
Well Head Reading	
Depth Measurement Reference Point Well Casing ID: 2" 4" 6" Other	-
Capith to Top and Bottom of Screen to bos	
Original Depth to Water (DTW) Final Depth to Water (DTW)	
Measured Well TD	
- Original OTW 85.28	
= Wir Col Thick. $[3.32 \times 5^{+}).47$ gais/t = $\frac{4 \times 1}{24}$ gais/casing vol X is casing vol = $\frac{6.57}{340.00}$	
Purge Method Cult	· ·
Submersible DedicatedBladderBailer Tef Centrifugel Peristalitic Hand Sas Lity PumpBladder Pump Pump PVC Pump Pump Pump Discuscement Pump Pvmp Pvmp Pvmp Pvmp Pvmp Pvmp Pvmp Pvmp Pvmp	 
Purging Equipment (Make, Model, Etc.) Groutok 2" SS Sus Pump ? PUMP WULL (QN NOT FIFWELL	
PURCHE WITH T	11-11
And the Balle State  - 9 P.	
Westher FRL71Y (IG. PY COOL ~ 75°F F.	
Time Volumes Depth to ; Depth of Tema C pH Conductivity Turbidity DD Satisfy Comments	7
Time Yolumes Depth to : Cepth of Temp *C pH Conductivity Turbidity DD Seminity Comments Purped I Water Pump latable (s.a.) I I (NTa)	
Purged Water Pump Intake (3.2.) I I (MTa) REDY	
Purged (gallons) - (lest) (les	
Cel (gallons) - Water Pump latabe (3.2)   (Ma) REDY REDY (lett) (lett) (lett) (lett) (lett) (lett) (lett) REDY RED 1039 223 L3GHT AMBER (1029 4.50 - 4.50 - 18,73 - 18,73 - 6.22 259 MED 1039 258	
Purped (gallons) - Water Purpe latable (3.2) (MTa) REDY (gallons) - Water Purpe latable (164) (164) REDY (1644)	
Cal (gallons) - Water Pump latake (3.2) (MTa) REDY (1017) - 2.25 2002 (.64 - 270 MED. 8.79 223 L2GHT AMBER (1029 4.50 - 4.50 - 18.73 6.22 259 MED 1034258	-
Purged (gations)       Water (leet)       Purge latate (leet)       (is.1)       I       (MTa)       REDX         Col. (gations)       (leet)       1017       2.25       2002       6.64       270       MED.       8:79       223       1.3147       AMRER         1029       4.50       4:50       10,13       6.22       259       MED.       103,41258       103,41258         1029       4.50       4:50       18,13       6.10       2.57       MED.       103,41258       103,41258         1040       6.75       6.75       8:85       6.10       2.57       1100       9.88       2.97         1049       1.00       18.79       6.11       2.56       1162       2.97         1049       1.00       18.79       6.11       2.56       1162       2.97         1049       1.00       18.79       6.11       2.56       1162       1162       1162	
Purped (gallons) - Water Purpe latable (3.2) (MTa) REDY (gallons) - Water Purpe latable (164) (164) REDY (1644)	
Purget (padons) -       Water (text)       Purget (text)       (is.1)       I       (Mtz)       REDY         COT 1017       2.25       2002       6.64       270       MED.       8.79       223       121,417       Amr.ER         1029       4.50       4.50       4.50       4.50       6.22       259       MED       103,41258       103,41258       1040       6.75       2.55       8.85       6.10       7.57       1400       5.56       33/1       1049       1.001       18.79       6.11       2.55       1460       2.56       33/1       1049       1.001       18.79       6.11       2.56       1460       2.97       1049       1.001       18.79       6.11       2.56       1460       2.97       1049       1.001       1.011	
Purget (gallons)       Water Pump latable       (ist)       I       (Mta)       REDX         COT 1017       2.25       2002       C.64       270       MED.       8:19       223       L214HT AMRER         IO29       4.50       4:50       18.73       G22       259       MED.       10341258       10341258         IO29       4.50       4:50       18.73       G22       259       MED.       10341258       10341258         IO40       6.75       C.75       B.85       G10       7.57       MED.       10341258       1049         IO49       1.00       18.79       6.10       7.56       7.56       7.51       1049       7.00       18.79       6.11       7.56       MED.       1049       7.00       18.79       6.11       7.56       MED.       9.88       7.97       1049       1.00<	
Purped (galons)       Water (text)       Purped (text)       (is.1)       I       (Mtz)       REDY         Cal       COT 1017       2.25       2002       6.64       270       MED.       8.79       223       121,417       AmRER         1029       4.50       4.50       4.50       6.02       259       MED.       103,41258       103,41258       1040       6.75       275       8855       6.10       757       1400       4.50       33/1       1049       1.00       18.79       6.11       256       1460       297       1049       1.00       18.79       6.11       256       1460       297       1049       1.00       18.79       1.11 <t< td=""><td>····</td></t<>	····
Purged (galons)     Water (text)     Purge latable (text)     (i.i.)     I     I     IIII       C.P.L (MB)     COT 1017     2.25     2002     C.64     270     MED.     8:79     223     LogHT AMRER       1029     4.50     A:50     A:50     A:50     IIIIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	····

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all Depins in Feet Below Reference Point on Weilhead - Generally Top of Casing (TOC)

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#### EIBY THILL MONITORING WEEL PURGING EDG

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	Well Number $M \omega_2   2$
Site/Project	Sample ID Rumber
Project Number 113603,03, 22	Purga Start dolls (6-20-97 10-1
Purged by Jalaspanil Emerg	Purgs End
Well Head Reading	mon
Depth Measurement Reference Point	Well Casing ID 2 4' 5 Other
Depth to Top and Soltom of Screen	ft bg1
Original Depth to Water (OTW) $- 93.89$	Final Depth to Water (OTW)
Measured Well TO _ 100.60	1
- Ociginal DTW 43488 (7-0.16)	
= Wtr Col Thick. $(2, 1) \times 6^{-1,47}$ galls $\pi = ($	$0.04$ gals/casing vol X s casing vol $\approx -\frac{6r}{24}$ gals/casing vol X s casing vol $\approx -\frac{6r}{24}$
Furge Method SS =	
Submersible Dedicated dladder Bailer Tet Bailer Pump Bladder Pump Pump Pump PyC	Centrifugal Peristallic Hand Gas Lift/
Guidens (H	azco) 13433
	Purge Water Containerized?
Purging Equipment Decontaminated?	
Wexther 85°F. PCloudy	<u> </u>
Time Volumes Depth to : Depth of Temp *C pH	Conductivity Turbidity DO Salinity Comments
Time Volumes Depth to : Depth at Temp*C pH Purged Water Pump Intake (3.3.) (gallions) (feet) (leat)	(47m) (Hta)
1421 0 193.00 106 1419 6.34	170 86 T. 24 O, OS No Bross Ister
1430 21-106.1878 615	196 385 5.8 0,09 11
1432 4.1 -: 101 1886 608	203 943 Sito Ordo Stight ly Tink od
1434 6 - 101 18:88 6.01	210 103 5.61 0.10 11 -
1436 8 - 101 18,87 5,98	211 113 5.61 9.10 Clern Nurrodors/Absseen
	*
	<u>;                                    </u>
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All Depins in Feet Balaw Reference Point on Wenhesd - Generativ Top of Casing (TOC)

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Installatio	<u>, DD</u>	MT	In 574	<u>HL971</u>	cn.	– Well N	umber —		$V_{-2}$	1 U 19/97 7 22 2	
Site/Proje	D)	MT	<u>2QT</u>	SAM	122K	L Sampl	e (D Numbe	<u>, ` ]^ </u>	WZ	72 22	, <b>-</b>
Project N	)	134	20.2	) <u>3-2</u>	Ż	- Puras	ششل Suart	1251	19 <u>7</u> "	1157	<b>,</b>
•	<u> </u>	2. <i>7ú</i>	14/6	S.A.Fo		_ Purge		. : 974	(n)7	1229	1
Purged by	γ	1			0- <b>-</b>	 pou	-				
Weil Head i				• •		PB		Well Gasing I	⊡r 7 <sup>-</sup>	ur ar cosa	
	sucement Rafe					- h bos		trei obaing i	0. 1	• • • • • • •	Ţ.
	ip and Bottom		_	6.85	-		-		Έ.		
	oth to Water (I				•		d Depth to Wa				
Measured	i Well TD <u>f C</u> inal DTW	6.85	<u> </u>	•		1.15		2		. 5.T	5
- Origi	inal OTW 🕌	0.15	x	2" - 0, 18 4" - 0,55 6" - 1,47 - 01	lls/ft ⇔	1/66	_ gals/casing	الے بال	rasing vol	_ 4.38	10 20 
= wat		- •	^				_ <u>48</u> .5 (22.11)				— Jr.
	0 Bladd uipment (Make		a <u>0.29</u>	-	– PVC.		<u>e</u> f3-		-	Discincement Pump 7564(/LoC	-
Purn Purging Ear Purging Ear	o Blacc	e, Model, Etc minated?	Pump, 1) <u>0.29</u> 7 / N	-	– PVC.	- 4 F Baz (	_	Pump - 7 Pulls	<u>hor = 1</u> =	Pump	
Purg Purging Eq Purging Eq Average Pu	0 Blacc ulpment (Make ulpment Decc.	er Pump a. Model, Ett 	Pump, 1) <u>0.29</u> 7 / N	- <u>5641 D</u> - Tamp*C	– PVC.	- 4 F Baz (	EZ=) -	Pump_ 7Pulls, a? Y/r 	<u>  10 L =  </u> - 	Р.тэ <u>7564(/wc</u> сотте	
Punging Equ Punging Equ Average Pu Weather	D Blaud uipment (Make uipment Dect rga Ratta Volumes Porged (gallons) - {	er Pump e, Model, Eta 	Pump, 2) <u>0.29</u> Y / N <u>dpm</u> 2 Depth of	- <u>5641</u> D 	_ РИС <u>ИСДОБА</u> С. рН (1.2.)	<u>VEBA2(</u> Purge Water Coadsettivity	Containenze	Pump_ 7Pulls, d? Y / 1 - + Ca		Pimo <u>7564(/LoC</u> Comme	n:5
Punging Equ Punging Equ Average Pu Weather	0Black ulpment (Make ulpment Dec: rge Rate Yotumes Porged tgallens) - [75] 3.50]	er Pump a. Model, Ett 	Pump, 2) <u>0.29</u> Y / N <u>dpm</u> 2 Depth of	- <u>SGALD</u> 	- Pric. <u>12-1054</u> (11) (11) (11)	<u>2 E Baz (</u> Purge Water Coadsettvity 437 495	$\frac{E}{E} = \frac{1}{2}$ Containenze Turbidity (NTa) $M = \frac{1}{1}$	Pump_ 7Pulls, a? Y / 1 co B.7/ 13.24		Р.тэ <u>7564(/wc</u> сотте <u>ИЕОАНВЕТ</u> 11	n:5
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Punging Equ Punging Equ Average Pu Weather	0Blace ulpment (Make ulpment Dec: rge Rate Yotumes Porged tgallens) - [75] 3.50]	er Pump a. Model, Ett 	Pump, 2) <u>0.29</u> Y / N <u>dpm</u> 2) Depth of	- <u>SGALD</u> 	- Pric. <u>12-2054</u> (12) (12) (-14)	<u>2 E Baz (</u> Purge Water Coadsettvity 437 495	Containenze	Pump_ 7Pulls, a? Y / 1 co B.7/ 13.24		Р.тэ <u>7564(/wc</u> сотте <u>ИЕОАНВЕТ</u> 11	n::;
Punging Equ Punging Equ Average Pu Weather	0Blace ulpment (Make ulpment Dec: rge Rate Yotumes Porged tgallens) - [75] 3.50]	er Pump a. Model, Ett 	Pump, 2) <u>0.29</u> Y / N <u>dpm</u> 2) Depth of	- <u>SGALD</u> 	- Pric <u>12-1054</u> (11) <u>6.14</u> <u>6.17</u>	<u>2 E Baz (</u> Purge Water Coadsettvity 437 495	$\frac{E}{E} = \frac{1}{2}$ Containenze Turbidity (NTa) $M = \frac{1}{1}$	Pump_ 7Pulls, a? Y / 1 co B.7/ 13.24		Р.тэ <u>7564(/wc</u> сотте <u>ИЕОАНВЕТ</u> 11	n::;
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Punging Equ Punging Equ Average Pu Weather	0Blace ulpment (Make ulpment Dec: rge Rate Yotumes Porged tgallens) - [75] 3.50]	er Pumb e. Model. Etc 	Pump, y / N gpm Pump Intaks (feet) 	- <u>SGALD</u> 	- Pric <u>12-1054</u> (11) 6.14 6.17	2 <u>( F Baz (</u> Purge Water Conductivity 437 437 437 437	Containenze	Pump_ 7Pulls, a? Y / 1 co B.7/ 13.24	259 274	Р.тэ <u>7564(/wc</u> сотте <u>ИЕОАНВЕТ</u> 11	n:5

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All Deams in Free 245% Second ce Point on Winnesd - Generally Top of Casing (100)

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Elas Inite MONITORINGEWEEL PURGING EDGE	-	258 227
Installation DOMT Well Number -	MW 23	
Site/Project 2006 1997	: mw 232	
	en 6-18-97	<u>\r.</u>
All Shares Stand	1ate	ЛГ=
Well Head Reading	-	·.
Depth Measurement Reference Point	Well Casing ID: 2	47 67 Other
Depth to Top and Bottom of Screen 102-112 hogs		
Original Depth to Water (OTW) 99.35 Final Depth to t	Water (DTW)	
Measured Well TD 112.94		4         
- Original DTW 99,35	ð	
= Wtr Col Thick. $13.59$ x $6.137$ gals/t = $2.17$ gals/casin	g val X 5 casing vol	= <u>Gro X</u> PURGE SALLONS
Purging Equipment (Make, Model, Etc.) <u>Grundfos</u> <u>Hazao 134</u> Purging Equipment Decontaminated? <u>(Y)</u> N Purge Wates Containen Average Purge Rate <u>opm</u>	à	
Purging Equipment Decontaminated? (V) N Purge Water Containen Average Purge Rate	zed? () N	
Purging Equipment Decontaminated? (V) N Purge Water Containen Average Purge Rate	zed? () N	Commenis
Purging Equipment Decontaminated? (V) N Average Purge Rate	zed? () N	
Purging Equipment Decontaminated? (V) N Average Purge Rate Weather Weather Time Volumes Depth to : Depth of Temo "C pH Conductivity" Toreleality Purged Water Purno Intake (s.a.) (V) Toreleality (s.a.) (V) Toreleality (S.a.) (V) Toreleality (s.a.) (V) Toreleality (S.a.) (V) Toreleality (S.a.) (V) Toreleality (s.a.) (V) Toreleality (S.a.) (V) Torel	2ed? () N = 00 Satinity 7.37 (0.10 5.22 (0.22	Turbud
Purging Equipment Decontaminated? (V) N Average Purge Rate Weather Weather Vertice Volumes Depth to : Depth of Temp "C pH Conductivity" Turelelity Purged Water Purgo Intake (S.A.) Conductivity Turelelity Purged Water Purgo Intake (S.A.) (D.54 430 92.3	zed? ()1 N 	Turbert alourdpupup Turbic No abos/ster
Purging Equipment Decontaminated? (V) N Average Purge Rate $\underline{\qquad opm}$ Weather $\underline{S5^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S5^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S5^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S5^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S5^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S1^\circ F}$ $\underline{S1^\circ F}$ $\underline{F}$ $\underline{Claudy}$ $\underline{S1^\circ F}$ $\underline{S1^\circ F}$ $S1^\circ F$	zed? () N 00 Satinity 7.3.7 (0.10 5.22 (0.22 5.14 (0.23 4.189 (0.22	Turbed alourdpupup Turbid No alos/she We odors / restores
Purging Equipment Decontaminated? $(Y) = N$ Average Purge Rate	zed7 (7)1 N 	Turbid Aloursopingup Turbid No abis/she No odors / resting Sightly Turbid Dio Adors / Ab Sta
Purging Equipment Decontaminated? $\widehat{Y}$ N       Purge Water Container         Average Purge Rate $\underbrace{35^{\circ}F}$ $P(Laudy)$ Weather $\underbrace{85^{\circ}F}$ $P(Laudy)$ $\widehat{Y}$ $\widehat{Y}$ $\widehat{Y}$ N         Purge Water Container $\underbrace{85^{\circ}F}$ $P(Laudy)$ $\widehat{Y}$ <	zed? $(7)$ N (7,37) Satisfy (7,37) $(7,37)(7,37)$ $(7,37)$ $(7,37)(7,37)$ $(7,37)$ $(7,37)$ $(7,37)(7,37)$ $(7,3$	Turbid Downopupup Turbid No Obs/Sha Jubid- Olganing Jubid- Olganing Jubid- Olganing Jubid- Olganing Slightly Turbid Dio Adous Jub Sta
Purging Equipment Decontaminated? $\widehat{V}$ i N       Purge Water Containent         Average Purge Rate       Optimized Purge Water Containent         Weather       Optimize Purge Containent         Weather       Optimize Purge Containent         Weather       Optimize Purge Containent         Purge Containent <t< td=""><td>zed? <math>(7)</math> N 7.37 C. Do 5.22 O. 22 5.14 O. 22 4.49 C. 22 4.49 C. 22 4.49 C. 22 4.49 C. 21 4.48 C. 17 4.66 O. 18</td><td>Turbid Dowedpupup Turbid No abs/she Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid Slightly Turbid Dio Adous Jub Sta II</td></t<>	zed? $(7)$ N 7.37 C. Do 5.22 O. 22 5.14 O. 22 4.49 C. 22 4.49 C. 22 4.49 C. 22 4.49 C. 21 4.48 C. 17 4.66 O. 18	Turbid Dowedpupup Turbid No abs/she Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid Slightly Turbid Dio Adous Jub Sta II
Punging Equipment Decontaminated? $\widehat{V}$ N       Punge Water Container         Average Punge Rate	2 ed7 $(7)$ N 7.37 $(7.10)7.37$ $(7.10)5.22$ $(7.10)5.22$ $(7.10)5.14$ $(7.2)7.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.20$	Turbust Slowedpupup Turbic Nochos/She No odors / rebistors Slightly Turbia Dio odors / rebistors UL
Purging Equipment Decontaminated? $VI N$ Purge Water Containent Average Purge Rate	2 ed7 $(7)$ N 7.37 $(7.10)7.37$ $(7.10)5.22$ $(7.10)5.22$ $(7.10)5.14$ $(7.2)7.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.20$	Turbid Dowedpupup Turbid No abs/she Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid - Olganny Jurbid Slightly Turbid Dio Adous Jub Sta II
Purging Equipment Decontaminated? $(1)$ N Average Purge Rate Weather $85^{\circ}$ P (Cloudy Weather $85^{\circ}$ P (Cloudy $\frac{85^{\circ}}{1000}$ Purged $\frac{900}{1000}$ $\frac{9000}{1000}$ $\frac{9000}{1000}$ $\frac{9000}{1000}$ $\frac{9000}{1000}$ $\frac{9000}{10000}$ $\frac{9000}{1000}$ $9$	2 ed7 $(7)$ N 7.37 $(7.10)7.37$ $(7.10)5.22$ $(7.10)5.22$ $(7.10)5.14$ $(7.2)7.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)4.49$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.460$ $(7.2)7.20$	Turbust Slowedpupup Turbic Nochos/She No odors / rebistors Slightly Turbia Dio odors / rebistors UL
Purging Equipment Decontaminated? $VI N$ Purge Water Containent Average Purge Rate	2 ed7 $(7)$ N 7.37 $(7.7)$ $(7.7)7.37$ $(7.7)5.22$ $(7.7)5.22$ $(7.7)5.14$ $(7.7)5.14$ $(7.7)7.37$ $(7.7)7.3$	Turbust Slowedpupup Turbic Nochos/She No odors / rebistors Slightly Turbia Dio odors / rebistors UL

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An Qepths in Feet Below Reference Point on Weithead - Generally (op of Casing (TQC)

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#### CIBY HANDE MONITORING WEEL PURGING EOG

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						Semain (D Num		w242	
Sile/Proje	umber	11360	3 30	₹₹		Burne Chart	date - 6[1	9/97	in. 0900
	2	.	s/Na;			Fuige Start -	date 6/1	9/97	1- 0945
Purged by	y <u> </u>		· •	<i>U</i>		• • • • • • •	date <b>1</b>	<u>'</u>	<u> </u>
	Reading					<u>mqq</u>			
	surement Aeie					•	Well Casing	u Or	6 Other
	op and Bottom				•	t bas	·	<i>`</i> .	
	pth to Water ((					- Final Depth to	Water (DTW)	· · · ·	
- Origi	i Well TO inal DTW ial Thick	<u>% . 75</u>	- 2'.	-0.15 -0.65 -1.47 gai	sti = .	1.6 gaisversi	ng vol X 5	casing vol	- <b>25.0</b> 341.
Pumi Purging Equ	vipment (Make			ailer	/		ind Au		
Pum Purging Equ Purging Equ Purging Pur Purging Purging  uipment (Maku uipment Decor rgs Rate	ntaminated?			алан 	Purge Water Container	*	N 	Comments	
Purging Edi Purging Edi	uipment (Make uipment Decor Irge Ráte ——	Depth to :		Temp °C		Purge Water Container	*	<u>.</u>	Comments ORP
Pump Purging Equ Purging Equ Verage Pus Veather	uipment (Make uipment Decor rgs Rate Volumes Purged	Depth to :	y / (4) gpm Depth of Pump Intake	Temp *C		Canductivity Turbidity { } {NTa)	r 00	<u>.</u>	08P 196.3
Pump Purging Equ Purging Equ Iverage Pus Veather	uipment (Make uipment Decor rgs Rate Volumes Purged	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pum Purging Equ Purging Equ Purging Pur Purging Purging  uipment (Make uipment Decor rgB Råte Volumes Purged (gabors) -	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	: рн (s.a.)	Canductivity Turbidity (NTa)	6.84 7.10	Salinity :	08P 196.3	
Pum Purging Equ Purging Equ Purging Pur Verage Pur	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pum Purging Equ Purging Equ Purging Pur Verage Pur	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Iverage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Verage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Verage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Verage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (v)   Depth of Pump Intake (leet)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Verage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (V)	Temp *C	5.91	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5
Pump Purging Equ Purging Equ Verage Pus Veather	vipment (Make rgs Rate Volumes   Purged (gabors) /	Depth to :	V / (V)	Temp *C	5.91 5.72 5.76	Canductivity Turbidity (NTa)	6.84 7.10	Salinity 0.10 0;10	02P 196.3 234.5

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All Depths in Feet Below Reference Point on Wellhesd - Generally Top of Casing (TOC)

		MONITORIN	GEWEFE R	<u>URGING</u>	EIG			
,		MTING	<u>57949721</u>	<u>ن</u> ې	Well Numbe	<u>, MW</u>	25	258 229
		DMT 2	QT San	NOLZNG.	Sample ID N	lumber MU	1252	
•	Project Number	13/20,0	3.22	· · ·	• ′ Purge Start	<u>aue 611</u>	2 <u>197</u>	. 1515
	Purged by G	1. Ford/C	.R. TIER	<u>¥</u>	Purge End	due 60/1	<u>9/97ic</u>	.153A
	Well Head Reading				ррт			
	Depth Measurement Rele	erence Point			<u> </u>	Well Casing	:D: 2* +*	б9н . <u></u>
	Depth to Top and Bottom	l of Screen		<u> </u>	<u>it bas</u>	•	•.	
	Original Depth to Water (	· · · · · · · · · · · · · · · · · · ·	<u> </u>		Final Oept	to Water (OTW)		
	Measured Well TD • Original OTW = Wtr Col Thick	<u> 7</u> 7	2 - 0 18 47 - 0 65 67 - 1,47 gaissi	. = <u>i</u>	الم ا	2.S 1	casing vol =	3.75
•		der Pump _ Pu a. Modet, Etc.) Intaminated? Y / 	m			. Բնանը	:/10L ≅_ N	Gas Life Disciscement
	Time Votumas Purged (gallons)		of Femp C	pH Ca (s.1) ł	nductivity Turb J (N	[4]	Satury DED 1-	Counten!
152			18.45	6.49 %	236 Me	D 11.12	303	
152	1 2.50	•		6.38 2	<u>125 !!</u>		12961	
1534	3.75141	<u>i</u>	19.15	649 7	14 Me	<u>D. 12:35</u>	274	
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				7		<i>c</i>		· · · · · · · · · · · · · · · · ·
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20 Degrad in East Automy Reference Point on Wellhead - Generally Top of Casing (TOC)

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Purging Equipment (Make, Model, Etc.) <u><i>Dispersable TEE</i></u> Purging Equipment Decontaminated? Y / (N)	, and the second s	) n	·
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Purging Equipment Decontaminated? Y $I(N)$ Average Purge Rate <u>Ala</u> <u>npm</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> Weather <u>PC/2009</u> <u>CifAt Recete 169</u> <u>CifAt Recete 169</u>	Purge Water Containerized?	Ealloity	34 <u>2</u> 386
Purging Equipment Decontaminated? Y $I(N)$ Average Purge Rate <u>Ala npm</u> Weather <u>PC/2009</u> <u>Cifet Recete 169</u> Weather <u>PC/2009</u> <u>Cifet Recete 169</u> Time Valumes Uppth 10 : Depth of Temp °C pH Purged Water Pump Intake (S.L) (gailons) <u>(lect)</u> <u>(feen)</u> <u>ilo30</u> 3.0 35.31 <u>N/A 18.20 5.89</u> <u>ilo42</u> <u>6.0</u> <u>N/A 18.20 5.86</u>	Purge Water Containerized?	Ealloity	34 <u>2</u> 386
Purging Equipment Decontaminated? Y $I(N)$ Average Purge Rate <u>A ( npm</u> Weather <u>PC/2000 ( interpresented )</u> Time Valumes Depth 10 : Depth of Temprese of (3.1) (gailons) ( lifet) (19) (ilease ( interpresented )) (ilease ( interpresented ))	Purge Water Containerized?	Ealloity	34 <u>2</u> 386
Purging Equipment Decontaminated? Y $I(N)$ Average Purge Rate <u>Ala npm</u> Weather <u>PC/2009</u> <u>Cifet Recete 169</u> Weather <u>PC/2009</u> <u>Cifet Recete 169</u> Time Valumes Uppth 10 : Depth of Temp °C pH Purged Water Pump Intake (S.L) (gailons) <u>(lect)</u> <u>(feen)</u> <u>ilo30</u> 3.0 35.31 <u>N/A 18.20 5.89</u> <u>ilo42</u> <u>6.0</u> <u>N/A 18.20 5.86</u>	Purge Water Containerized?	Ealloity	34 <u>2</u> 386
Purging Equipment Decontaminated? Y $I(N)$ Average Purge Rate <u>A ( npm</u> Weather <u>PC/2000 ( interpresented )</u> Time Valumes Depth 10 : Depth of Temprese of (3.1) (gailons) ( lifet) (19) (ilease ( interpresented )) (ilease ( interpresented ))	Purge Water Containerized?	Ealloity	34 <u>2</u> 386

All Depins in Feat Relow Reservance Point on Wellhead - Generally Top of Casing (TCC)

		MONITORINE	URGING EOG		
<u>/</u> 1	nstalistion	PAMT		MW-30	258 233
	Site/Project	-	Sample IC	Number	
ſ	Project Number ——	, is s 605,03.26	6/19/9 FPurga Sta	· · · · · · · · · · · · · · · · · · ·	
ſ	Purged by	Idino / Agyuyon	Purge En	e <u>dare 6/17/97</u>	1510
۷	Vell Head Reading		ppm	,	•.
	lepth Measurement Reli	5-		Well Casing (D: (Z) 4	6 Otner <u></u>
	depth to Top and Bottom Driginal Depth to Water (		Enat Or	pth to Water (OTW)	
۔ آ	Measured Well TD	40			
	- Original OTW	47.54 2.0.16		~	TOTAL
	= Wtr Cal Thick	a* - 0.55 ,X 5' - 1.47 gais/	n = <u>2.12</u> ga	s/casing vol X s casing vol :	= <u><b>8.5</b></u> purces
P	urge Method			. <u> </u>	Other
S	iuomersible Pump ABlad	Dedicated = 8ladder = Bailer = ler Pump	Tel Centrifugal PVC Pump		Gas Lity
P	unging Equipment (Mak	e. Model. Etc. ]	Aos		
-	urging Equipment Deco		Purge Water Co	ntainerizeo? 🕜 / N	
- A	verago Purge Rate			_ ,	
· W	Veather	· · · · · · · · · · · · · · · · · · ·	<u> </u>	F	
ſ	Time Volumes Purged (gallons)	Depth to : Depth of Temp 4C Water Pump Intake (rest) (set)	pH Canductivity Tu (s.s.) ( F	rbidity DO Salinity (NTa)	Comments
Ž	437	42.34	····		ORP
	tt	<u>rs</u> .54		4.23 0.21	
	· 2		6.68: 420	. 4,15 0.00	
-	3	18.50	6.04: 372	3.98 0.18	
F	3.5	19.00	3.98 35.5	3.85 0.17	
-	0,0		597 365	3.86 0.18	
	<u>u.5</u>	1992	5.54 446	3.84 0.72	1.05/
╞	5.0 ]	(* (9	5.93 482	391 0.33. 3.08 0.17	
F		19,09	594 547	370	
		· · ·			

An Depths in Feet Below Reference Point on Wellhead - Generally Top of Casing (TOC)

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## CIRVITION MONITORING WEEL PURGING LOG

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nstaliati	on									
	•	DMI	( Hem	dus )		Sample	o ID Numb	er	MW 3	51v
-	lumber —	11	63.3	N al		. ji Purge :	Şlart 41	. 61	697	1500
		bul	dino !	Nour	$\mathbf{\lambda}$	Purgel	Fort _da	e tel	20/97	150
urged b fell Head	Reading		l					—- (	1	
	surement Reit							Well Casing	10: 2 1	6 Other
	op and Batlam			.50	÷	ft bga			$\mathcal{O}$	
	pth to Water (			•			Cepih to W	ater (OTW)	· .	
	Well TO			;					•	<u> </u>
	inal DTW		,	- 0.16				Ø		
- Mar C	ol Thick.	21.8		1-0.65 1+1.47 gais/	n = .	3.49	oals/casino	vol X s	casing vol	= 1047 <sup>2</sup>
irging Eq	wigment (Mak wigment Oeco Irge Rate	niaminated?	🕑 / N	Frun	d He	Purge Water	Containerize	ar Ø1	N	
nging Eq Inging Eq erage Pu		niaminaled?	(⊘ / N 	-run		Purge Water	Containerize		N E.	
rging Eq rging Eq erage Pu lather	uiomeni Oeco Irge Rata	Depth to	(⊘ / N 		ан (s.a.)	Purge Water				Comments
rging Eq rging Eq erage Pu	vorument Vorument Vorument Purged	Depth to Water	Or N apm		<u>н</u>	Conductivity	Turbidity	· .	£	Comments
arging Eq urging Eq erage Pu sather	vorument Vorument Vorument Purged	Depth to Water	Or N apm		<u>н</u>	Conductivity	Turbidity	· .	Salinity	Comments
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rging Eq rging Eq erage Pu lather	vorument Vorument Vorument Purged	Depth to Water	Or N apm		<u>н</u>	Conductivity	Turbidity	· .	Salinity	Comments
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All Depins in Feet Below Reference Point on Welthead - Generally Top of Casing (TOC)

## EIST THINS MONITORING WEEL PURGING EDG

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Purged by $\frac{   _{2}   _{2}  _{2}  _{2}  _{2}  _{2}  _{2}  _{2}  _{2}  _{2}  _{2}  $	. // <b>/</b> 0
Project Number $13605 DT \cdot FE$ Purge Start $are \frac{113605 DT \cdot FE}{000000000000000000000000000000000000$	6° Other 6° Other 701 202 202 202 202 202 202 202 2
urged by       Baldrine / Matter M         Purge End $4tr / 11/57$ hell Head Reading       0.0         epth Measurement Reference Point       Weil Casing ID: (2)         apth to Top and Bottom of Screen       1         riginal Oepth to Water (DTW)       Final Cepth to Water (DTW)         Measured Weil TD $475000$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Original OTW $57.94$ • Wit Cell Thick. $97.94$ • Original OTW $57.94$ • Utrain $57.94$ $50.5$ • Wit Cell Thick. $97.94$ • Utrain $57.94$ $57.94$ • Utrain $7.94$ $57.94$ <	6° Other 6° Other 701 202 202 202 202 202 202 202 2
ell Head Reading	6' Other 4, 3 Gas Lifv Disciacement Pump
spith Measurement Reference Point       Weil Casing ID: 1 ' 6' 0th         spith to Top and Bottom of Screen       n.Dos         iginal Depth to Water (DTM)       Final Depth to Water (DTW);         • Original OTW       6' 8'.9'.6'         • Original OTW       6' 1.4''         • Original OTW       9''''''''''''''''''''''''''''''''''''	Gas Lify Gas Lify Displacement Pump
ipin intervaluation in force in the series in the serie	Gas Lify Gas Lify Displacement Pump
iginal Oepth to Water (DTW)	Gas Lity Gas Lity Displacement Pump
Acasured Well TD       68.00         • Original OTW       58.926         z * 0.15       z * 0.55         z Wr Col Thick.       9044         X 6 * 1.47 gals/th =       1.444         gals/casing vol X s casing vol =       4.3         inge Method       0         bmersible       Dedicated         Bladder Pump       Bailer         Pump       Builder         Pump       Builder         Pump       Builder         Pump       Pump         Pump </td <td>Gas Lity Gas Lity Displacement Pump</td>	Gas Lity Gas Lity Displacement Pump
• Original OTW	Gas Lity Gas Lity Displacement Pump
Image Mathod       SS       SS       Centringal       Peristalic       Hand       Gas Lil         Pump       Bladder       Bailer       Tet       Centringal       Peristalic       Hand       Gas Lil         Pump       Bladder       Bailer       Pump       Pump       Pump       Disclarement         rging Equipment (Make, Model, Etc.)	Gas Lity
rrage Purge Rate	Comments
Time Volumes Onoth to : Depth of Temp C pH Conductivity Turbidity DO Salinity Con Purged Water Pump Intake (S.a.) ( ) (NTa)	Comments
Purged Water Pump Intaka (S.a.) ( ) (NTa)	
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All Deaths in Feel Below Reference Point on Weilhead - Generally Top of Casing (TOS)

#### EISTIGHTE MONITORING WEEL PURGING EDG

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1.

Installation	. Wall Number -	Mw33	258 236
Site/Project Affiles / 2nd GGWS 1997.	Sample ID Num	mw33	Σ
Project Number 413603, 03.22	. Purge Start	1are 6-18-9	7
Purged by <u>Alloszow</u> ( ) Emery	Purge End _	date	
Well Head Reading			
Depth Measurement Reference Point		Well Casing 10:	2 + 5 Other
Depth to Top and Boltom of Screen $49-59$	tt tags *.	· · ·	· ·
Original Depth to Water (OTW)	Final Oppin to	Water (OTW) [	·
Measured Well TO 59.10		1	
- Original OTW 461 7 2-0.18	1,15 gals/casi	Ó	5.25 TOTAL
$= \text{Wtr Col Thick} = \sqrt{0} \frac{23}{\sqrt{2}} \times \frac{1}{6} - 1.47 \text{ gals/fl} = 0$	gais/casi	ng vol X 5 casin	ig vol = - <u></u>
Purce Method SS :	=	- · · <b>-</b> · ·	Other
Purge Method         -         SS :           Submersible         Dedicated         Bladder         Bailar         Tet :           Pump         Bladder Pump         Pump         PvC :	Cantritugal — Pump		and Gas Lify " mp Displacement
Purging Equipment (Make, Model, Etc.) Grundites 134	3B(Hazco)		
	Purge Water Container	ized? Y / N	
· Pardiuo Foniturant necontamination / 1, 1, 1, 1,	Police trainer container		
Purging Equipment Decontaminated? (Y) / N Average Purga Rata			
0	ORP	¥	
Average Purga Rais		¥	inity Comments
Average Purge Rate Weather &OoF Polloudy, Time Volumes Depth of Temp "C Purged WaterPump Intake (s.a.) (see) (teel) (s.a.)	Canductivity Turninth	00 Sal	
Average Purga Rais Weather <u>800F</u> <u>PCloudy</u> Time Volumes Depth to : Depth of Temp "C pH Purged Water Pump Inlake (s.a.) (s.a.) (s.a.) (s.a.) (s.a.) (s.a.) (s.a.)	Candyctivity ToroTally 10 Kay 1 (1414) 1 Kay 1 (1414) 1 Kay 1 (1414)	00 Sal 1062 On 19.75 Or	09 Jubid 09 Cleaning
Average Purge Rate Weather <u>800F</u> <u>PCloudy</u> Time Volumes Depth to : Depth of Temp "C pH Purged Water Pump Intake [5.4.] [gallons) (teel) [fest] [3.53 C   4[6:17]; 578 . FRS [6:1]	Candyctivity Torotath 14207 1 14120 1897 70.9 1997 70.9 1997 70.9 1799 85	00 Sal 1062 On 19.75 On 14.944 60	09 Jubid 09 Cleaning. 08 Clean
Average Purga Rata         OPT         Weather $80^{\circ}$ F       PCloudy         Time       Volumes       Depth to       Temp "C       pH         Purged       Water       Pump Inlake       Isal       Isal         13.53       C       46:17:58       Ffrats       Gulf         13.55       2       -       156       17:76:594         1357       3       -       154       17:40:5.75         1358       4       -       54       18:27:5.64	ORP Conductivity Torostoth 14207 1 1440 1897 7019 1897 7019 1997 744 1797 84 178 44	00 Sal 10262 Or 9.75 Or 9.75 Or 9.44 Or 2.9.27 Or	09 Jubid 09 Cleaning 08 Cleaning 08 Cleaning
Average Purge Rate       OPT         Weather       80 °F       PCloudy         Time       Volumes       Depth to       Temp "C       pH         Purged       Water       Pump Inlake       [s.a.)         1353       C       4% 17 : 538       FR25       GH         1355       2       -       56       17.76 : 596         1357       3       -       154       17.90 : 5.75         1358       4       -       54       18.27 : 5.64         1400       5       -       54       18.25 : 5.64	020 Conductivity Turnotali 12207 1 2015 1329 70.5 179 744 179 84 178 55 178 55 178 55 178 55	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
average Purge Rate       gpm         Weather $80^{\circ}$ F       PCloudy         Time       Volumes       Depth to       Depth of       Temp "C       pH         Purged       Water       Pump Intake       (Is.a.)       (Is.a.)         13.53       C       14% 17       5%       Fh25       GH         13.55       2       -       56       17.76       54         13.57       3       -       1.54       17.90       5.75         13.58       4       -       .54       17.90       5.75         13.58       4       -       .54       18.27       .5.64	020 Conductivity Turnotali 12207 1 2015 1329 70.5 179 744 179 84 178 55 178 55 178 55 178 55	00 Sal 10262 Or 9.75 Or 9.75 Or 9.44 Or 2.9.27 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
Average Purge Rate       gom         Weather       80 °F       PCloudy         Time       Volumes       Depth to       Depth of       Temp *C       pH         Purged       Water       Pump Intake       [s.a.]       [s.a.]         13.53       C       14% 17       5%       14.55       GH         13.55       2       -       1.56       17.76       54.1         13.57       3       -       1.54       17.40       5.75         13.57       3       -       1.54       17.40       5.75         13.58       4       -       54       18.27       5.64         1400       5       -       54       18.25       5.64	020 Conductivity Turnotali 12207 1 2015 1329 70.5 179 744 179 84 178 55 178 55 178 55 178 55	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
Average Purge Rate       gom         Weather       80 °F       PCloudy         Time       Volumes       Depth to       Depth of       Temp *C       pH         Purged       Water       Pump Intake       [s.a.]       [s.a.]         13.53       C       14% 17       5%       14.55       GH         13.55       2       -       1.56       17.76       54.1         13.57       3       -       1.54       17.40       5.75         13.57       3       -       1.54       17.40       5.75         13.58       4       -       54       18.27       5.64         1400       5       -       54       18.25       5.64	0RP Candyctivity Turbitali 1289 705 179 744 179 85 178 55 178 55 178 55 177 10	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
OPT         Average Purge Rate         Weather $80^{\circ}$ F       PCloudy.         Time       Volumes       Depth to       Depth of       Temp "C       pH         Purged       Water       Pump Inlake       [s.a.]       [s.a.]         13.53       C       14% 17       53       Fh25       GH         13.55       2       -       1.56       17.76       S94         13.57       3       -       1.54       17.40       S.75         13.57       3       -       1.54       17.40       S.75         13.57       3       -       1.54       17.40       S.75         13.58       4       -       54       18.27       S.64         1400       5       -       54       18.25       S.64         1402       6       -       54       18.25       S.62         1       -       54       18.25       S.62         1       -       -       54       18.25       S.62	ORP Candycetivity Turbitali 1989 70.5 179 744 179 85 178 85 178 85 177 10	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
OPT         Average Purge Rate         Weather $80^{\circ}$ F       PCloudy.         Time       Volumes       Depth to       Depth of       Temp "C       pH         Purged       Water       Pump Inlake       [s.a.]       [s.a.]         13.53       C       14% 17       53       Fh25       GH         13.55       2       -       1.56       17.76       S94         13.57       3       -       1.54       17.40       S.75         13.57       3       -       1.54       17.40       S.75         13.57       3       -       1.54       17.40       S.75         13.58       4       -       54       18.27       S.64         1400       5       -       54       18.25       S.64         1402       6       -       54       18.25       S.62         1       -       54       18.25       S.62         1       -       -       54       18.25       S.62	020 Candyctivity Torotath 12207 1120 12207 1120 12207 1120 12207 120 179 285 178 56 178 56 178 56 177 10	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
OPT         Average Purge Rate         Weather $80^{\circ}$ F       PCloudy         Time       Volumes       Depth to       Depth of       Temp "C       pH         Purged       Waser       Pump Inlake       [s.a.]       [s.a.]         13.53       C       14% 17       53       Fh25       GH         13.55       2       -       156       17.76       S94         13.55       2       -       156       17.76       S94         1357       3       -       154       17.90       5.75         1357       3       -       154       17.90       5.75         1358       4       -       54       18.27       5.64         1400       5       -       54       18.25       5.64         1402       6       -       54       18.25       5.62         1       -       -       54       18.25       5.62         1       -       -       54       18.25       5.62         1       -       -       -       54       18.25       5.62         1       -       -       -	ORP Candycetivity Turbitali 1989 70.5 179 744 179 85 178 85 178 85 177 10	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid
Average Purga Rata	ORP Candycetivity Turbitali 1989 70.5 179 744 179 85 178 85 178 85 177 10	00 Sal 10762 Or 19.75 Or 19.75 Or 19.44 Bi 29.27 Or 29.27 Or 23.9.18 Or	07 Julid 09 Clean 08 Clean 18 Strahles turlid 08 Strahles turlid 0.8 Shalles Julid

air Ocoins in Feet Below Reference Point on Weilhead - Generally Top of Casing (TOC)

			950 oom
installation NA MT Well Number		- 34	258 237
Site/Project Sample ID Numbe		1W-	547
Project Number 13603.05.78 Purge Start date Purged by TSald; 10 / Nguyen Purge End date	61	9/99	1345
Purged by TGald in Nguyen Purge End day	<u> </u>	/ 9/97	1575
Weil Head Reading ppm		$\sim$	• •
Depth Measurement Reference Point	Vell Casing I	° (*) *	ố Other
Depth to Top and Bottom of Screen	·.	<u> </u>	
Original Depth to Water (DTW) Final Depth to Wa	≌r (OTW)(⊶ 		
Maasured Well TD	1		- 707AL
- Original DTW $7 \cdot 0.18$ $3' \cdot 0.65$ = WU Col Thick, $X = 6' \cdot 1.47$ gats/ft = $4.09$ gats/casing to	رمي X IV	casing vol =	- 12.29 PURGE -
{			
Purge Mathod Submersible  Quedicated  Bladder Bladder Bladder Bladder  Bladder Pump Pump Pump Pump Pump Pump Pump Pump	ristaitic — Pump	Hand <sup></sup> Pump	Gas Lift/
Puming Equipment (Make Model Etc.) Grundles		·,	Pump
	17 Y / M		
Purging Equipment Decontaminated? (Y) N Purge Water Containerized Average Purge Rate			
Weather GUNNY - HOT	<del>_</del>		
Time Volumes Depth to : Depth of Tamp C pH Conductivity Turbidity Purged Water Pump Inlake (F.S.) ( ) (NTe) (pations) (feet) (feet)	00	Salioily .	Commenis
(Internet in the second s	5.01	: 308	0KP 45.2
Purged (pallong)         Water (feet)         Purnp Intake (feet)         (i.a.)         ( )         (NTal           /         1         18.57         (i.a.)         ( )         (NTal           2/         -1.85         5.66         176	5.01	808	0K.p 45.2 52.6
Purged (pallong)         Water (feet)         Purnp Intake (feet)         (i.a.)         ( )         (NTa)           1         1         1         1         5.57         1	5.08 5.14 5.07	0.00	OKP 45.2 (32.6 149.7
Purged (pallong)         Water (feet)         Purnp Intake (feet)         (i.a.)         ( )         (NTal           /         1         18.57         (i.a.)         ( )         (NTal           2/         -1.85         5.66         176	5.08 5.14 5.07	808	0K.p 45.2 52.6
Purged (pallong)       Water (feet)       Purnp Intake (feet)       (i.a.)       ()       (NTa)         /       1       18.59       18.59       176 $2'$ $2!$ $2!$ $3!$ $5.96$ 176 $3$ $2!$ $2!$ $5.96$ 176 $4'$ $70.96$ $5.76'$ 175 $4'$ $70.96'$ $5.74'$ 175	5.08 5.14 5.07	0.00	OKP 45.2 (32.6 149.7
Purged (pallong)       Water (feet)       Purge Intake (feet)       (i.a.)       ( )       (NTa) $1$ $1$ $1$ $1$ $5$ $7$ $1$	5.08 5.14 5.07	0.00	OKP 45.2 (32.6 149.7
Purged (pallong)       Water (feet)       Purnp Intake (feet)       (i.a.)       ()       (NTa)         /       1       18.59       18.59       176 $2'$ $2!$ $2!$ $3!$ $5.96$ 176 $3$ $2!$ $2!$ $5.96$ 176 $4'$ $70.96$ $5.76'$ 175 $4'$ $70.96'$ $5.74'$ 175	5.08 5.14 5.07	0.00	OKP 45.2 (32.6 149.7
Purged (pallong)       Water (feet)       Purpe Intake (feet)       (i.a.)       ()       (NTa) $1$ $18.57$ $18.57$ $176$ $175$ $2$ $21.88$ $5.96$ $176$ $3$ $21.16$ $5.76$ $176$ $4$ $21.88$ $5.96$ $176$ $4$ $70.96$ $5.74$ $175$ $4$ $10.96$ $5.74$ $175$ $4$ $10.96$ $5.74$ $175$ $4$ $10.96$ $5.74$ $175$ $4$ $10.96$ $5.74$ $175$	5.08 5.14 5.07	0.00	OKP 45.2 (32.6 149.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5.08 5.14 5.07	0.00	ORP 45.2 (32.6 149.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5.08 5.14 5.07	0.0% 0.0%	ORP 45.2 (32.6 149.7
Purged (pallons)       Water (feet)       Purp intake (feet)       (i.a)       ( )       (NTa) $1$ $1$ $1$ $5$ $5$ $1$ $76$ $1$ $76$ $1$ $75$ $1$ $75$ $1$	5.08 5.14 5.07	0.0% 0.0%	ORP 45.2 (32.6 149.7

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An Ocolog in Feel Below Reference Point on Wellhead - Generally Top of Casing (TOC)

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## CIBYTHINE MONITORING WEEL PURGING FOG

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	1. / n	nd When	.)<		. Well Nu	umber				
Site/Project	·			747	Sample	ID Number		<u>W35</u>	<u>,                                    </u>	
Project Number —	11363	0.03.2	<u> </u>		Purge (	Start date	6-0	21-97	time	
Purged by	Maxon	NAE	meny		Purge I	End <u>date</u>			tirra	
		- y	0							
Well Head Reading		TOL			- PRO-		• · · · • • - • • • • • •			•.
Oepth Measurement Re	ference Point				• • •	. •	/ell Casing   ·		4" 6" Other	
Oepin to Top and Botto	m of Screen .			4		-	:	·		
Original Depth to Wates	(OTW)	<u>_70</u> ,	13		- Final	Depth to Wat	er (DTW) [			
Measured Well TD	88.39		;				1	•		
+ Original OTW	70.13	_ ` (7	-0.16				ð		10	70741
= Wtr Cal Thick	. /	بر بر ۲	- 0.65 - 1.47 gals	nt =	9.92	gals/casing v	ol X S	casing voi	= <u>3, 76</u>	PURGE - SALLCH
	<u> </u>						· ·			
Purge Melbad			<b>Dellar</b>	55 7		- 20	ristaitic —	Hand —	Gas Lity	O:pai
Submersible Pump/ Bla	Oedicaled dder Pump	9ladder Pump_	Sailer	- 1er - 290 -	Cantalu Pu	imp	Pump	Pump	Disciacement Pump	
			und Fo:	. (+	lazco)	1343-	ŝ			
Purging Equipment (Mi	ika, Model, El	(c.) <u>(777</u>	01010	<u> </u>						
Purging Equipment Dec	contaminated'	א יו 🕐 ד			Purge Water	Containerized	1 (Y) I I	J		
Averaçe Purge Raie		<del></del>								
Weather 7.50 p	- der	neast				ORP	<u> </u>	•		
Time Votumes	Death to	: Cepto ci	. Temp *C	DH.	Canductivity			Salinity	Comment	is.
Purged (gallons)	Water	Pump Inlake (lest)		(5.2.)	14/2-1	(NTal				
1050 ()	· ·	: >5/	•							
1052 3		175'	17.64	1.19	224	762	542	0.11	Orange Tirt	منداري
1057 6		1 75'		5.91	227			0.11		
· -	<u> </u>	251		5.87	226	130.9	5.24	0.11	· · · ·	
1		75'			: 225	136.1	5,23	0.11	<i>  </i>	
· · · · · · · · · · · · · · · · · · ·	$\frac{1}{1}$	175	14.60	- Cell	225	170.	65.18	0.11	Chan No od	lero
(104 13		<u></u>	100	<u> </u>	· ·				:	
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<b>├</b>	· ·	i			<u></u>		<u>,</u>		<u>.                                    </u>	
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All Depths in Feet Below Reference Point on Wellhead - Generally Top of Casing (TOC)

				VEEL-R		1	<b>5</b> 7			258
Installatio	<u></u>	MT				Well N	lumber —	Mu	<u>2036</u>	
Site/Projr	00:1	_/2	n# Q.G	Walang	lin 199	Sampl	le ID Numbr	<u>, m</u>	$\omega_{3b}$	2
Praject N			3,03.7			.) Purge	Slart 42	6-19	1-97	<u>و مار.</u>
Purged b	. 7	logeni	110	γ. Μ.		Purge				- +
Well Head i	' त्	С	)	8		g-				
	surement Refer	ience Poini	(				<del>~</del>	Well Casing I	10: (F) 4	r 6' Other
	to and Bottom			_		it bg		-	$\cup$	
-	oth to Water (C		15	3;33	·	Fina	al Depth to W	ater (DTW) [		
	Well TD Shi			•				1	<u> </u>	
- Origi	inal DTW	<u> &lt;3.33</u>	_ `@	.0.16			_	ð		7, 71
≕wa C	at Thick, <u>5</u>	5,67	<b>X</b> 6'	- 0.05 - 1.47 gals/	n = _	8,90	∠ gats/casing	vol X s	casing vol	= 2672
Purge Mal	hed /			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\ <i></i> -					
submersial Pum		edicated — er Pump	Bladder	Bailer -		Centra	fugal – P Jump	eristzitic Pump	Напо <sup>—</sup> Ритр <u>—</u>	Gas Lity <sup>TT</sup> Disciscement
Pum	a i Diada	ar Puma	Pump_	· ( –	. / <del>***</del> =	<u> </u>	.nwb —	Poing	rump	Ритр
Purging Eq Purging Eq	vipment (Make	, Madel, Et	)			Purge Wate	Containerize	a7 🕥	 N	
Purging Eq	vipment (Make	, Madel, Et	)			Purge Wate		407 🕥 (		
Purging Eq Purging Eq Average Pu	uipment (Make uipment Oecor Irgs Rate 759 Volumes Purged	n Model. Et Intaminated?	c.) gom <u>Clourlig</u> : Depth of Pump lotake	Temp *C	рН (5.1.)	Purge Wate		207 (¥) 5 00	N Sallnity	Comments
Purging Eq Purging Eq Average Pu Weather — Time	uipment (Make uipment Oecor urgs Rate 7.59 Vatumes Purged (gallons) -	, Model, Et iraminated? F P Depth to Water (feat)	c.) gom <u>gom</u> <u>Cloudiy</u> Pump lotake (lect)		(3.1.)	Conductivity	Turbidity (NIa)	<u>*</u>	N Sallnity	Comments Slightly Turk
Purging Eq Purging Eq Average Pu Weather — Time	uipment (Make uipment Oecor urgs Rate 7.59 Vatumes Purged (gallons) -	, Model, Et iraminated? F P Depth to Water (feat)	c.) gom <u>Clourlig</u> : Depth of Pump lotake	18.16		Conductivity	 Turbidity (Milit)  	00 <u>F. 36</u> <u>4</u> 73	0,10	Slightly Tool Junled black
Purging Eq Purging Eq Average Pu Weather — Time	uipment (Make uipment Oecor 1rgd Rate 7.59 Valumes Purged (gallons) -	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N gom (leudiy Pump latake (leet) 200/	8.16  8.65  8.65	6.60 7.02 7.42	Canductivity 1 454 } 1 60 206 - 16 7-	089 Turbidity (Mai) 111 115 6717	5.22	0.0	Slightly Turk Junked black Slightly Tuc
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor 7.59 Votumes Purged (gallons) -	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N gom (locurling Pump Intake (loci) 200/ 200/ 1 209/ 209/ 209/	18:16 18:55 18:55 18:55	6.60 7.02 7.42 7.73	Conductivity 1 4/2 1 60 206 767 173	089 Tumbially (MTa) 111 115 6717. 9161	00 <u><u>f</u>, <u>3</u>, <u>4</u>, <u>7</u>3 <u>5</u>, <u>9</u>, 2 5, 43</u>	0.00	Slightly Turk Jurkid blac Slightly Tuc 11.
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor rrgs Rate 7.50 Votumes Purged (gallons) - 3 3 (3 3 (3 1 6 1 6	, Model, Et iraminated? F P Depth to Water (feat)	() N com Cloudy Cloudy Cloudy Pump Intake (leet) 2001 1 2091 2091 2091	18.16 18.65 18.65 18.65 18.65	6.60 7.02 7.42 7.73 7.77	Conductivity 1 22 1 60 206 - 167- 1 73 1 78,	089 Turbully (MID) 111 115 6717 961 9315	5.43 3.63	0.00	Slightly Turk Jurkid black Slightly Tuc 11. 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor Irge Rate 7.59 Votumes Purged (gallons) - 3 3 (3 3 16 16 16	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N com (lecudy Depth of Pump Intake (lect) 2001 12091 2091 2091 2091 2091	18.16 18.65 18.65 18.45 18.45 18.75 18.75	6.60 7.02 7.42 7.73 7.77 7.77	Conductivity 1 2/2 } 1 60 206 1/6 7- 1 73 1 78 1 78	- CBP Turpstally (HTa) 	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.08 0.08 0.08 0.08 0.08	Slightly Turk Jurkid blad Slightly Tur 11 11 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor rrgs Rate 7.50 Votumes Purged (gallons) - 3 3 (3 3 (3 1 6 1 6	, Model, Et iraminated? F P Depth to Water (feat)	() N com Cloudy Cloudy Cloudy Pump Intake (leet) 2001 1 2091 2091 2091	18.16 18.65 18.65 18.65 18.65	6.60 7.02 7.42 7.73 7.77	Conductivity 1 2/2 1 60 206 1/6 7- 1 73 1 78, 1 51	089 Turbully (MID) 111 115 6717 961 9315	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.00	Slightly Turk Jurkid <u>blad</u> Slightly Tuc 11 11 11 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor Irge Rate 7.59 Votumes Purged (gallons) - 3 3 (3 3 16 16 16	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N com (lecudy Depth of Pump Intake (lect) 2001 12091 2091 2091 2091 2091	18.16 18.65 18.65 18.45 18.45 18.75 18.75	6.60 7.02 7.42 7.73 7.77 7.77	Conductivity 1 2/2 } 1 60 206 1/6 7- 1 73 1 78 1 78	- CBP Turpstally (HTa) 	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.08 0.08 0.08 0.08 0.08	Slightly Turk Jurkid blad Slightly Tur 11 11 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor Irge Rate 7.59 Votumes Purged (gallons) - 3 3 (3 3 16 16 16	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N com (lecudy Depth of Pump Intake (lect) 2001 12091 2091 2091 2091 2091	18.16 18.65 18.65 18.45 18.45 18.75 18.75	6.60 7.02 7.42 7.73 7.77 7.77	Canduethily 167 167 173 178 178	- CBP Turpstally (HTa) 	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.08 0.08 0.08 0.08 0.08	Slightly Turk Junkid blad Slightly Tuc 11 11 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor Irge Rate 7.59 Votumes Purged (gallons) - 3 3 (3 3 16 16 16	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N com (lecudy Pump Intake (lect) 2001	18.16 18.65 18.65 18.45 18.45 18.75 18.75	6.60 7.02 7.42 7.73 7.77 7.77	Canduethily 167 167 173 178 178	08° Tumbually (111 115 67,7 96,1 93,5 77,7 42,9	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.08 0.08 0.08 0.08 0.08 0.08	Slightly Turk Junkid blad Slightly Tuc 11 11 11
Purging Eq Purging Eq Average Pu Weather	uipment (Make uipment Oecor Irge Rate 7.59 Votumes Purged (gallons) - 3 3 (3 3 16 16 16	, Model, Et iraminated? F P Depth to Water (feat)	c.) () / N com (lecudy Pump Intake (lect) 2001	18.16 18.65 18.65 18.65 18.75 18.75 18.75 18.45 18.75	6.60 7.02 7.42 7.73 7.77 7.77	Canduethily 167 167 173 178 178	08° Tumbually (111 115 67,7 96,1 93,5 77,7 42,9	00 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.08 0.08 0.08 0.08 0.08 0.08	Slightly Turk Junkid blad Slightly Tuc 11 11 11

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All Depths in Feet Below Reference Point on Wellhead - Generally Top of Casing (TOC)

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### EIZTENDE MONITORINGEWEEL PURGINGEOGE

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**Filter** 

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installatio	in					Well N	umber —	<u>MW-</u>	<u>.37</u>		258	24(
Site/Proje	et D	DMT	Mem	ohis)	<u> </u>		a iD Numba	- <u>M</u> L	0872			
Project N			3.05.			Purge (	Start <u>dat</u>	610	192	ከጠዋ	094	10
-rotect in		dino	7.	1.	1			clin	laz		133	$\mathcal{O}$
Purged by	, <u> </u>		/ N¥J	ayer		Purge I	•	/ ,	· · ·	<u>. m<del>.</del> .</u>	///	<u> </u>
Vell Head F						<b>2</b> ppm			$\sim$		_	ŕ,
epih Meas	wrement Rela	irence Point						Well Casing I	0:02	a. <u>6</u> .	Other	
)epin ta Ta	p and Bottom	of Screen	183.5	55		<u></u>		<u>`</u> .	·.			
-	oth to Water (					Final	Depth to Wa	ter (DTW)[_				
Measured		<u>(93.55)</u>						1				
• Origi	nal OTW 💷	27.42	- 			n .		ġ		25	/ <b></b>	70740 20563
≓ Wtr Ci	at Thick.		. X 67+1		n = <b>1</b> .	50	gals/casing	no) X 5	casing vol	= 254		- 34010
urging Equ	uloment (Mak	e. Model, Etc.)	_64	ind		<u> </u> Sa	10					
Purging Equ Iverage Pur	vipment Deco		Y / N ggm 	Temp *C	•/···]	Purge Water	Cantainerizer	n (), i 95	Salioity	1	Commen	15
Purging Equ Iverage Pur Neather —	uipment Deco rgs Ruis Sulf		Y / N 		*/'''` 	Purge Water	Cantainerize	<u>95</u> ,	Salinity	of	Cammen	15
Punging Equ Iverage Pur Yeather —	Volomes Purgad	ntaminated?	Y / N  Depth of T ump Intake {f2et}	Temp *C	рн (с) 4.65	Purge Water	Cantainerized Turbidity (NTa)	95 ×	a <b>13</b>	of 10.	р	
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N <u>gen</u> Depth of T ump Intake {feet]	iemp *C 7.62 7.9	рн (ш.) (	Purge Water	Cantainerized Turbidily (NTa)	95 = 00 610 4.04	0.11	-34	P   0	is
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (з) 6.65 6.72 6.09	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	ls 
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (ш.) (	Purge Water	Cantainerized Turbidily (NTa)	95 = 00 610 4.04	0.17	-34	P 0 11	is 
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (з) 6.65 6.72 6.09	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	is
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (з) 6.65 6.72 6.09	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	is
Purging Equ Iverage Pur Yeather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (н.45 (н.45 (н.45 (н.45)(н.45) (н	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	IS
Purging Equ Average Pur Veather	Volomes Purgad	ntaminated? Ospib to : Water P (itei)	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (н.45 (н.45 (н.45 (н.45)(н.45) (н	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	IS
Purging Equ Average Pur Neather Time	Volomes Purgad	ntaminated?	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (н.45 (н.45 (н.45 (н.45)(н.45) (н	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	is
Purging Equ Average Pur Neather Time	Volomes Purgad	ntaminated?	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.44	рн (с.65 (с.72 (с.69)	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	is
Purging Equ Average Pur Neather Time	Volomes Purgad	ntaminated?	Y / N  Depth of T ump Intake {ftet}	Temp *C 7.62 7.91 7.13	рн (с.65 (с.72 (с.69)	Purge Water	Cantainerized Turbidily (NTa)	95 . 00 6-10 4.04 1.87	0.17	-34	P 0 11	IS

An Ocoms in Fees Below Reference Point on Weilhead - Generally Top of Casing (100)

	CHANTER MONITORING WEEF BURGING EDG
	Installation DOMT TINSTALLATION Well Number MUS-58 258 241
	Site PERSON 7 20T SAMPING Sample 10 Number
	Project Number 11363003.22 Purge Start Ste 618197
	Purged by C.R. JUERY /B.A. FORD Purge End due 6/18/97
	Well Head Reading
	Depth Measurement Reference Point Well Casing (D. 2 4" 6" Guier
	Oepits to Top and Bottom of Screen
	Original Depth to Water (DTW) Final Depth to Water (DTW)
	Measured Well TD 154,00 3.50 125
	• Original DTW $133.22$ $(2-0.16)$ = Wir Col Thick $-20.78$ x $6^{-1.147}$ gals/ $t = 3/40$ gals/casing vol x is casing vol = $10.2$ $(2-0.16)$
	Purge Method         SS         Control         Olio, 1           Submersible         Dedicated         Bladder         Bailer         Tet         Centrolugal         Peristautic         Hand         Cat Lify         Cat Lify
	Pump Bladder Pump PVC Pump Pump Pump Pump Pump
_	Purging Equipment (Make, Model, Elc.) 2" GRUNFOS S.S. S. S. B.PUMP
	Purging Equipment Decontaminated7 (9 / N Purge Water Containerized7 Y / N
	Average Purga Rate
	Time Volumes Depth to : Depth of Temp *C pH Conductivity Turbidity DO Sailnity Comments Purged Water Pump Intake (s.s.) ( ) (NTa) (galloos) (reat) (reat) (reat)
	1040 3.50 152 7.0.39 6.54 291 1/2 12.09 201
	TECH PROBLEMS 20/ GRUNFOSPULLAP + HOSE PURSTING ABOUTED
	2014 PURGLUG ON 6119197 20/ DISPOSABLE BARER.
	19-Jun 97
	START:0910 REOX
	09577.50 11 2087 6.18 244 LZGHT 9.69 201.9
	102-37.0 als 18.10 6.22. 238 2/2 12.80 199.
	1043 10,5 mars 18.94 6.74 232 LINIT 11.76 217

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# CIRVITINE MONITORINGEWEEL PURGING EDG

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	MW 39	258 242
Instatiation <u>DDMT</u>		
Site/Project RUS770/20066WS 1997	Sample ID Number <u>Mw392</u>	
Project Number 113603.03.22	Purge Start 15te 10-20-97	<u>1771</u>
Purged by J Kurson J Emory	Purge End	, lice
Well Head Reading	pom	
Depth Measurement Reference Point	Well Casing (D: 27) 4	6 Ozner <u> </u>
Depth to Top and Bottom of Screen	<u> </u>	•
Original Depth to Water (DTW)	Final Depth to Water (DTW)	
Measured Well TD 115.07	1	
- Original DTW 102.71 (2-0.16)	jen Ö	5.23 PURGE
= Wer Col Thick. $(2, 36) = X = 5 + 1.47$ gais/ft	= 1.98 gats/casing vol X s casing vol	= <u>5.23</u> PURGE =
Pursa Method Not a social produce	<u></u>	Əinar
	Pump _ Pump _ Pump _	Gas Lify " Disciscement Pump
	(a260) 13433	·
	Purge Water Containerized?	
Purging Equipment Decontaminated?	Purge water containenzeur	
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	gullons was remained	
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Total of approx 2.5	millons was remained	
Total of approx 2.5	guillons was remained	

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An Depins in Fest Below Reference Point on Welkhead - Generally foo of Casing (TGC)

#### CI31 HIBE MONITORING WEEL PURGING EDG

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	20,	nt				Well Nu	mber —	MW	<u>40                                    </u>		258 2
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Submersi	iole 🕂 🔪 🧯	Dedicated T ler Pump	Bladder Pump	Bailer -		Centrilu Pui	çal 🗂 Pi mp 🔔	eristaitic — Pump _	Hand T Pump	Gas Li Disc:scame	nt
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Parging E Parging E	Equipment (Mak Equipment Deco	e, Model, Etc					<u>1.34.</u> Containeríze	<u>}}</u> 17 🕐 (			
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Purging E Parging E Average P	Equipment (Mak Equipment Deco Purge Rate	e, Model, Etc ntaminated? PCLo Depth to Water (reen)	CYAN gpm uduy Depth of Pump Inlake	Temp *C	pH <sup>(</sup> C (5.4.)	Purge Water	Cop Turbidity (Mta)		Salinity		mmenis
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Purging E Purging E Average F Weather Time (355 1359 1604	Equipment (Mak Equipment Deco Purge Rate 90.07 Volumes Purged (gallons) - - - - - - - - - - - - - - - - - - -	e, Model, Etc ntaminated? PCLo Depth to Water [reni 93 93 93	Depth of Pump Inlake (leet) 95 95 95 95 95	Temp *C 20.11: 20.10 20.25	(1,2) (1,2) (1,27) (1,25) (1,22) (1,22)	Punge Water	Cop Tuttelly 1225 143 165 172	2,22 2,22 2,94 3,59	Salinity 0-38 0, 15 0, 38 0, 38	Clean Clean Clean	

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All Depths in Feet Below Reference Point on Wenhead - Generally Top of Casing (TDC)

#### CIRVIEIDE MONITORINGEWEEL RURGING EOG

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verage Par verage Par /eather Time	vipment (Maku uipment Deco rga Rate <u>80°F</u> Valumos Purget (gallons)	e, Model. Etc. ntaminates? RCLow. Depth 10 Water	OIN Depth ol Pump Intake (feet)	Temp *C	( ) (2.08	Purge Wate	Turbidin Hite OR P	207 (5) 	Satinity	Some herebind	Wate 1
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resage Pos resage Pos feather Time SIC	vipment (Maku uipment Deco rga Rate <u>80°F</u> Valumos Purget (gallons)	e, Model, Etc. ntaminated? Clove Bepth 10 Water (feet) 154, 45	OIN Depth ol Pump Intake (feet)	Temp *C	( ) (1.1) (1.1) (1.1)	Purge Wate	Turbidity (Hita) OR P	207 (5) 00 00 00 00 00 00 00 00 00 0	Satinity	Som hulid	Wate 1
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All Depths in Feel Below Reference Point on Weilhead - Generally Top of Casing (100)

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 ${\cal A}^{\mu}$  Deputs in Ref. Tell  $\sim$  Reference Point on Weithesd - Generally Top of Casing (190)

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# CITY THIS MONITORING WEEL PURGING FOG

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Instaliatio	<u>D</u>	DMT				Well Number	<u>mw-</u>	Mal_	258	240
Site/Proid	- 2-M	D.QT.C	<u>3.W. Sa</u>	mplin G	<u> </u>		umber <u>MW</u>		<u> </u>	
	lumber					Purge Start	(		in	
	, C.Ive		Emyla	R. BAL	DinO	Purge End	C 10	-97	ime_	
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	surement Rele		·				WeB Casing II	TT 5	5' Omer _	
	op and Bottom				÷ .	fi bgs		$\bigcirc$		
	pth to Water ({					Final Depth	to Water (OTW)	·.		
			·	<u></u>				•		
• Origi	inal OTW	102.1	1 <b>3</b> ( 🗇	)0.16 • 0.65 • 1,47 gals/ft	=	palsic	asing vol X S	casing vol =		total Purge - gallo:
Submarsibl		edicated				Pump	Pump	Pump	Cisc:scament Pump	
Pum Purging Eq Purging Eq	uipment (Make nipment Oecor nige Rate	er Pump . Model. Etc. .taminated?	()/ N 	nundfo	Pu	inge Water Contai		- 		
Pum Purging Eq Purging Eq Average Pu	vipment (Make vipment Oecor rrge Rate	er Pump . Model. Etc. raminated?	) <u>2"G</u>		, <u>5</u> Pu	irge Water Contai		Sallnity	Commer	215
Pum Purging Eq Purging Eq Average Pu Weather	upment (Make nupment Oecor arge Rate Volumes Purged	er Pump . Model. Etc. taminated?	) <u>2"G</u>		y Pu pH Cor	irge Water Contai		- 	0R1 100	215
Pum Purging Eq Purging Eq Average Pu Weather	vipment (Make vipment Oecor rrge Rate Volumes Purged (gallons)	er Pump . Model. Etc. taminated?	) <u>2"G</u>	femp *C 14.7 19.97	pH Car (3.a.) ( 5.55 5.55	inge Water Contai iductivity <sup>1</sup> Turbi (NT /5 <sup>-</sup> 2 -324		- 	0R1 100 150.8	21 <b>5</b>
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An Depits in Feel Below Reference Point on Weilhead - Generativ Top of Casing (TDC)

# CIRVIEIDE MONITORINGEWEEL PURGING EDGE

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šite/Proje	a <u>off</u>	nte /	2nd Qbu	1 29	997 :	Sample	ID Number				
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-	surement Rele	mace Point	Tor				۷	Ved Casing II	0: (z) 4	." 6" Other	
	p and Battom				<u>.</u>	11 003	-	-	$\cup$		•
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		73.02		<u> </u>	• · ·				13.5		
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Purge Mal	hod				SSI	=				Cas Likt 👘	Qtaer
Submersibl Pum	le [ p Bladd	Dedicated T ter Pump _	Bladder — Pump _	Baller	Tet PVC	Centrilu Pu	ngal Pe Imp_	Pump	Hand Pump	Gas Lity Disciscement Pump	- <u> </u>
<u> </u>	/		<i>c</i> .	M.	(4	<u>coj13</u>	433				
				<u>104-25</u>	$\underline{M}$						
Purging Eq	uipment Deco	oraminated?	Ø N			Purge Water	Containerized	$" \bigcirc "$	1		
Averaga Pu		Pola	 					<b>F</b>			
Weather	80-1	. ] <u>(</u>	<u></u>				BRP		-		
រា៣៖	Volumes Purgad (gallons) ~	Uepth to Water (izei)	Depth of Pomp Intake (leat)	Temp *C	pH (s.a.)	Conductivity	Turbidity (NIa)	00	\$4lloity	Comments	i 
006	7)	44,24							Ì	0.1.7	
<u>1106</u>			No	Readi	i st	meter	we	1_	taion	1000 M	
IIIa_	14		168	17,99	6,13	57-	(19.2		0,13-	(b. water	(Shand)
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	110			ITA	6.09	277	<u>116 z</u> 1-24.4	7,63	013	11.	<u> </u>
<u><u><u>m</u></u></u>	<u> </u>		16		6.09	277		7,63 7,73	0-13 0,13	11 -	<u> </u>
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All Depitts in Feet Balain Reference Point on Weithead - Generally Fop of Casing (FOC)

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j∬ ∦⊢instatis	uleo(	$)$ $n^{-1}$	5			Well N	umber —		45		8 248
9	K	Jo 15	1ª 26.	ر کارهم		Samoli	a ID Numb	er <u>M</u> L	<u>0.4.52</u>	2	
	oject <u>Prirk</u>	11 36	03.03	_		Purge			20-47	7 Virte	
Projeci	Number آتر ای		16-					0			
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Oepth to	Top and Bolton	a of Screen L				red h		÷.,	۰.		
taniginQ	Depth to Water					_ Fina	J Depth to W	/ater (DTW) (*			
Measu	red Well TD 上	818		·.				1 2			
- 0	riginal DTW 5	d₿÷	r (ż	-0.16	-	5,46		Q		- 7.37	TOTAL Purge
± .vi	tr Cal Thick	15150	X 5'	1-1,47 gals	여 = .	· · · · · · · · · · · · · · · · · · ·	gats/casing	volX s	casing vol	<i>₹`<u>``</u></i>	34110%S
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Submen	sible 🚬	Oedicated -	Bladder T	Bailer	Tef ] PVG _	Centrift	ugal 5	Peristaitle Pump	Hand T Pump	Gas Litu Displacement	·
<u>г</u> Р.	umo ) Blac		Pump	<b>.</b> .	_ PYC_						
$\sim$	umo Blac	der Pump _	6	-						Pump	
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- Installa	tion Du	<u>NN F</u>	TELT	2		Well Numt	bar —-	MW-			<u>د ان م</u>	<u> </u>
Site/Pro	ica DDI	47 2	'QT			Sample ID	Numbe	- <u>MIP</u>	<u>u 46'</u>	2	<u> </u>	
Project	Number	136	<u>30:0</u>	<u>5.2</u>	2	Purge Star	•	GTinl		<u>. 1977</u>	·	•
Purged	A	<u> R Tuei</u>	W/G	Foild	,	Purge End	<u>f dat</u>	6/17	197			
-	•	<u> </u>				<u>m</u>						
Oepth M	easurement Rele	aren <mark>ce</mark> Paint .	(	<u> </u>				Well Casing (	0: E	4° 5'	Other	
Depth to	Top and Bottom	al Screen _		-	<u> </u>	ft bgt			Δ.,	D	·	•
Original I	Depth to Water (	(W1a	5 <u>0 1</u>	<u>o'</u>			pth to Wa	iter (OTW)		17		
- 0r	red Well TD iginal OTW r Col Thick,	50,10		-0.16 -0.65 -1.47 gais/		.@ <sup>3-50</sup> 3.40	s/casing		casing val	· //	4 <sup>10.5</sup>	ADTU PVAQE DALLOS
		de: Pumo 🔔				Centrifugal Pump 7507548		Beizz	E12		2000	
Purging   Purging   Average	imp Blad Equipment (Mak Equipment Decc Purge Rate 0.2	ntaminated? 5 Gqc/BA:	:)()	MSRAAN BARIER	r ?	Punto 7 <u>5105AB</u> Punga Water Con 7 14Puu/vz	<u>LE</u> nainerize	Baza		. <u>.</u>	, .	· · · · · · · · · · · · · · · · · · ·
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Purging   Purging   Average - Weather - Time	Equipment (Mak Equipment Deco Purge Rate 0.2 Votumes Purged (pulgens)	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	r / N <u>IIERoom</u> : Depth of	DISPOSE 32031 E1 13.6 Pm	SE LS/VOL~	75B5AB Purge Water Con 7 [ARuu/V2 Canductivity' Tu	Nainerize	BHZ 17 (D) 1 1 10 7.60	i 			1740-
Purging   Purging   Average Weather	Equipment (Mak Equipment Decc Purge Rate 0.2 Votumes Purged (pulgens) 	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	r / N <u>IIERoom</u> : Depth of	19:70 18:58	ар 15/162- 15/162- 5.85 5,86	25105AB Purge Water Con ⇒ 14Puu/vz Sanductivity` Tu 204 217	CLE ntainerize DL rbidity (NTa)	Br) 20 17 Or 1 10 1.60 1.37	Salînity	<u>Onqui</u>	Teomeon 4777 Teo 5754 Tay	1740-
Purging   Purging   Average Weather	Equipment (Mak Equipment Occo Purge Rate 0.2 Votumes Purged (gallons) - 5-5-3 40-6 CL/ 4-2-4	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	r / N <u>IIERoom</u> : Depth of	19:70 18:59 19:70 19:70 18:59	S.85 5.94	$\frac{75BSAB}{Purgs Water Con}$ $Purgs Water Con}$ $P 14Puu/v2$ $Conductivity`Tu}$ $\frac{204}{217}$	CLE ntainerize DL rbidity (NTa)	Br) 20 11 Or 1 11 O	Salinity	DRAUF	10000000000 47777 Tura 5354 Tay	2BID- 4 (c.4
Purging   Purging   Average Weather	Equipment (Mak Equipment Decc Purge Rate 0.2 Votumes Purged (pulgens) 	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	r / N <u>IIERoom</u> : Depth of	19:70 18:58	S.85 5.94	25105AB Purge Water Con ⇒ 14Puu/vz Sanductivity` Tu 204 217	CLE ntainerize DL rbidity (NTa)	Br) 20 17 Or 1 10 1.60 1.37	Salinity	DRAUF	Teomeon 4777 Teo 5754 Tay	2BID- 4 (c.4
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Purging   Purging   Average Weather	Equipment (Mak Equipment Occo Purge Rate 0.2 Votumes Purged (gallons) - 5-5-3 40-6 CL/ 4-2-4	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	Y / N <u>SIECopm</u> : Depth of Pump Intake (leet) : :	19:70 18:58 18:58 19:70 18:58 18:39	S.85 5.85 5.86 5.94 5.93	$\frac{75BSAB}{Purgs Water Con}$ $Purgs Water Con}$ $PidPuu/vz$ Conductivity`Tu	CLE ntainerize DL rbidity (NTa) 3	Br) 20 11 (D) 1 11 (D) 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 1	Salînity	SIEL	10000000000 47777 Tura 5354 Tay	2BID- 4 (c.4
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Purging   Purging   Average Weather	Equipment (Mak Equipment Occo Purge Rate 0.2 Votumes Purged (gallons) - 5-5-3 40-6 CL/ 4-2-4	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	<pre></pre>	19:70 18:58 18:58 19:70 18:58 18:39	S.85 5.85 5.86 5.94 5.93	$\frac{75BSAB}{Purgs Water Con}$ $Purgs Water Con}$ $PidPuu/vz$ Conductivity`Tu	CLE ntainerize DL rbidity (NTa) 3	Br) 20 11 (D) 1 11 (D) 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 1	Salînity	SIEL	10000000000 47777 Tura 5354 Tay	2B4D- 4 Cc 4
Purging   Purging   Average Weather	Equipment (Mak Equipment Occo Purge Rate 0.2 Votumes Purged (gallons) - 5-5-3 40-6 CL/ 4-2-4	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	Y / N <u>SIECopm</u> : Depth of Pump Intake (leet) : :	19:70 18:58 18:58 19:70 18:58 18:39	S.85 5.85 5.86 5.94 5.93	$\frac{75BSAB}{Purgs Water Con}$ $Purgs Water Con}$ $PidPuu/vz$ Conductivity`Tu	CLE ntainerize DL rbidity (NTa) 3	Br) 20 11 (D) 1 11 (D) 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 1	Salînity	SIEL	10000000000 47777 Tura 5354 Tay	2B4D- 4 Cc 4
Purging   Purging   Average Weather	Equipment (Mak Equipment Occo Purge Rate 0.2 Votumes Purged (gallons) - 5-5-3 40-6 CL/ 4-2-4	e, Model, Etc ntaminated? 5 Gqc/BA: Depth to Water (feet)	<pre></pre>	19:70 18:58 18:58 19:70 18:58 18:39	S.85 5.85 5.86 5.94 5.93	$\frac{75BSAB}{Purgs Water Con}$ $Purgs Water Con}$ $PidPuu/vz$ Conductivity`Tu	CLE ntainerize DL rbidity (NTa) 3	Br) 20 11 (D) 1 11 (D) 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 11 (D) 1 1	Salînity	SIEL	10000000000 47777 Tura 5354 Tay	2B4D- 4 Cc 4

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1	CITY THINE MONITORING WEEL PURGING LOG	258	250
	Installation <u>NAMT</u> Well Number <u>MW48</u> Site/Project <u>OFFS:Ec / 2<sup>nd</sup> GGWS1997</u> Sample ID Number <u>MW482</u>		
	Project Number 113603.03.22 Purge Start date 6-18-97		
	Purged by <u>Alassim / J. Emerg</u> Purge End <u>Alle</u> <u>bime</u> Well Head Reading <u>ppm</u>		
	Oepth Measurement Reference Point 708. Well Casing 10: 24	6 Other	

ti bgs

Final Depth to Water (OTW)[4

TOTAL

PURGE

11.03

Other

-

Depth to Top and Bottom of Screen.

Original Oppth to Water (DTW) ----

Measured Well TD

9

 $\leq 0$ 

9.4 7 2 - 0.16 1 - 0.65 · Original DTW h.751 cals/casing vol: X 5 casing vol = 5 - 1.47 gais/ft = Wtr Cot Thick. X Purge Mathod Cantrilugal — Pump \_\_ Peristaitic 
Pump \_\_\_\_ Gas Lilt/ Hand T Dedicated T Bladder Pump ... Submersible Pump Bailer 🗌 Bladder T Disc:acament Pump \_\_\_ Pump \_\_\_\_ Pump 12433 Cruntos Hazco Purging Equipment (Make, Model, Etc.)

79:45

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Purge Water Containenzed? () / N (B) IN Purging Equipment Decontaminated? Average Purge Rate .. <u>içim</u> Pelance 75ºF. ΨF. Weather

Πme	Valumes Purged (galions)	Depth to Water (feet)	Depth of Fumo Intake (reet)	Temp *C	рН (s.a.)	Conductivity	Turoldity (UTal ORP	DÔ	Salicity	Commenis
1200	0	79.45	; 93	20,1	6.11	:256	65	4.5-1	612	toold
1202	2	~	99	1613	613	249	61.5	5.01	6,12	
1209	3	Å	: 87	18-63	GAL	1-249	62,1	608	415	
1205	4		67	1861	6,10	248	665	7.45	0.5	<u> </u>
206	6		87	18,71	: 6,08	247	778		0,12	
1208	-7	~	187	18.77	6.06	· 247	2.78	8,5-3	<i>0,/</i> 2	
, <u>, , , , , , , , , , , , , , , , , , </u>	<u> </u>		;		` F	· · ·				
		<u>-</u>			۲					· •
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As Depites in Feet Below Reference Point on Weithead - Generally Top of Casino (TOC)

CITYTHINE MONITORING WEEL PURGING EOG	258	25.						
Installation DDMT Well Number MLJ-49								
Site Project CUI /2nd QGWS199 Sample ID Number MW 492								
Project Number 113603.03, 22 Purge Start due 6-17-97								
Purged by <u>Alangen</u> Purge End tate	·							
Well Head Reading		Ċ,						
	i' Other	-						
Depth to Top and Battom of Screen66 - 76 # bgs								
Original Depth to Water (DTW) 76.10 Final Depth to Water (DTW)								
Measured Well TO 89,42								
- Original DTW 76/10 2-0.16	1.14	1074L						
$= \text{Wtr Col Thick} = \frac{1}{3} \frac{3}{3} \frac{3}{2} = x = \frac{2}{3} \frac{13}{3} \frac{3}{3} $		5441203 5441203						
Purge Mathod SS		Other						
	Gas Lift/ Discament Pump							
Purging Equipment (Make, Model, Etc.) GrundFIS Hazcui 13433								
Purging Equipment Decontaminated? 🕜 / N Purge Water Containerized? 💮 N								
Average Purge Rale								
Weather 90°F-Plany.								

Time	Volumes Purged (gallions) ~	Depth to Water (text)	: Depth of Pump Intake (legt)	· Temp 'C	рН (s.a.)	Conductivity ເຊິ່ງ	tarbially twint CRP	00	Salinity	
1656	Û	llaID	i	-					<u>                                     </u>	Slitewood
1655	2		<b>#</b> 76	18:6	5.84	190	134	6.07	00	Slist - Eurba
1658	3.		: 71	19.7	5,79	ijgr	160:	6:50	0,09	
170-1	5		71	19.2	5,71	196	1615	6.10		
507	6		1 71	19.6	5.70	200	1615		0091	
01710	4		71	19.6	5.71	<u>` 197</u>	161,6	5-81	0.09	
		_	:			<u> </u>			i	
										<u> </u>
			!		, ÷	÷			<u> </u>	
	İ	. <u> </u>	. :			·			<u> </u>	
			<u> </u>		I	1			<u> </u>	
			-	_		<u> </u>			i	
					<u> </u>	ı 			1	

As Opping in Feet Sciaw Reference Point on Wellhead - Generally Top of Casing (100)

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CIRY I HIRE MONITORING WELL PURGING EDG			250 050
instaliation PMT Well Number	r	50	258 252
Site/Project Sample ID N	lumber M	6.50	Z.
Project Number 113605.03.27 Purge Start	data 6/19	/47	<u>#: //@/</u>
Purged by Boldino Hoyu Yen Purgo End	<u> </u>	gz.	<u> </u>
Weil Head Reading		0	
Depth Measurement Reference Point	Well Casing II	e (E) - r	6 Other
Depth to Top and Sottom of Screen	n to Water (DTW)	<i>.</i>	
Original Depth to Water (DTW) Final Depth Measured Well TD 79-/8		-	
5.60 Halls		•	70744
$= \text{Wtr Col Thick} = 4,3.55 \times 6^{1} - 1.47 \text{ gals/fl} = -7.4 \text{ gals/fl}$	casing vol X 5	casing voi 😑	22.2 PURGE
Purge Mathod SS			Other
Submersible Dedicated Bladder Bailer For Cantrilugat Pump Pump Pump Pump Pump		Hand T Pump	Gas Lift/ T Disciacement Pump
Purging Equipment (Make, Model, Etc.)			-
Purpung Eduphitein (wake, woder, cre.)			
	inerized? ()/ N	l	
Purging Equipment Decontaminated? OF N Purge Water Conta Average Purge Rate	inerized? ()/ N	l	
Purging Equipment Decontaminated? Average Purge Rate Weather	Ŧ	· · · · · · · · · · · · · · · · · · ·	formatic
Purging Equipment Decontaminated? Average Purge Rate Weather Time Volumes Depth of Temp *C pH Conductivity Turbl Purged Water Purg Intake (5.3.1 ( ) (N)	idity DO Taj	Saliaity .	Comments ORP
Purging Equipment Decontaminated? Average Purge Rate Weather Time Volumes Depth to : Depth of Temp *C oH Conductivity Turbl Purged Water Purge Intake (5.3.1 Conductivity Turbl (pations) (rest) (test) (1944) 5.90 537	Idity DO Tal 3.64	Salinity :	ORP 175.4
Purging Equipment Oecontaminated? Average Purge Rate Weather Time Valumes Depth to : Depth of Temp *C pH Conductivity Turble (s.a.1 ( ) Conductivity Turble (s.a.1 ( ) (N) (s.a.1 ( )	Idity DO Ta) 3.64 2.65	Saliaity . . 7() 0.50	ORP 175.4 187.5
Purping Equipment Decontaminated?       Of N       Purge Water Conta         Average Purge Rate	Idity DO Tal 3.64 2.65 2.16	Salinity . 7() 0.50 0.55	ORP 175.4 187.5 198.3
Purping Equipment Decontaminated? Average Purge Rate Weather Time Valumes Purged (galans) - Used to Depth of Temp *C off Purged Water Purge Intake (s.a.) Conductivity Tutble (s.a.) Conductivity Tutble (s.a.) (1) (N) (veri) (test)	Idity DO Tal 3.64 2.65 2.16 1.93	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purping Equipment Decontaminated?       OF N       Purge Water Conta         Average Purge Rate	Idity DO 3.64 2.65 2.16 1.93 1.92	Salinity . 7() 0.50 0.55	ORP 175.4 187.5 198.3
Purping Equipment Decontaminated?         Private Private Purpe         Purpe Water Conta           Average Purpe Rate	Idity DO Tal 3.64 2.65 2.16 1.93	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purping Equipment Gecontaminated? Average Purge Rate Weather Three Valumes Purged (galans) - Used to Depth of Temp *C off Purged Water Purns Intake (s.s.) Conductivity Tutble (s.s.) Conductivity Tutble (s.s.) (s.s.)	Idity DO 3.64 2.65 2.16 1.93 1.92	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purping Equipment Decontaminated?         Private Private Purpe         Purpe Water Conta           Average Purpe Rate	Idity DO 3.64 2.65 2.16 1.93 1.92	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purging Equipment Decontaminated?         IN         Purge Water Conta           Average Purge Rate	Idity DO 3.64 2.65 2.16 1.93 1.92	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purging Equipment Decontaminated?         Ø/ N         Purge Water Conta           Average Purge Rate	Idity DO 3.64 2.65 2.16 1.93 1.92	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0
Purping Equipment Decontaminated?       Image: Non-state instant of the state instate instate instant of the state instant of the state i	Idity DO 3.64 2.65 2.16 1.93 1.92	Saliaity . 76 0.50 0.55	ORP 175.4 187.5 198.3 203.0

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All Depins in Feel Below Reference Point on Wenneso - Generally Top of Casing (TOC)

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CH3714/04 MONNURINGEWEEL PURGING				
installation DDMT	Well Number -	<b>-</b>	51	258 253
Site/Project	Sample ID Numl		ws!	<u>۲</u>
Project Number 113603.03.FF Project Number Boldino Nyu Yen	4 19		0/97	11: 0850
Boldino / Naver	-	- 6/z	0/97	0855
	oom		/	
Well Head Reading		Well Casing	n m	* 6' Other <u>-</u>
	h bgs	freat outsing	$\mathcal{O}$	• • • • • • • • • • • • • • • • • • •
Depth to Top and Bottom of Screen	Final Depth to V	Vater (OTW) .	•	
Original Depth to Water (DTW)				······································
- Original OTW 26.70 2-0.18				
$= \text{Wir Col Thick} \qquad \qquad \boxed{31 - 0.63} \\ = \frac{31 - 0.63}{61 - 3.27} \text{ gais/} \\ = \underline{4}$	E. E. galszcasion	ېې xol X s	casing voi	
Purge Method SS Submersible 7 Dedicated Bladder Balter Tef	Centrifugal —	Perisuitic —	Hand —	Gas Lift/
Pump 🚰 Bladder Pump Pump A FVC ==	։ Բսոր	Pump	Pump	Disciacament Pump
Purging Equipment (Make, Model, Etc.) Grundlos				
Purging Equipment Decontaminated?	Purge Water Containerit	ad? (Y)	N	
Average Purge Rate				
		· · · · · ·	-	
Burnert Water Promitorska (5.1.)	anductivity Turbidity			
(1991) (1991) (1991) (1991)	( ] (NTa)	00	Salinity	
(galans) (leet) (teet) (18.4 C.Ho		7,65	0.14	0R1 194.5
1 18.4 G.Ho	( ) (NTa)	7,65	0.14 0.13	OR1 194.5 201.6
1 18.4 G.Ho 2 18.41 5.64 3 (8.43 5.62	1     (NTa)       Tr(p)       tr(p)       tr(p)	7,65	0.14 0.15 0.13	0R1 194.5 201.6 208.9
1 18.4 G.Ho 2 18.41 5.64	1     (NTa)       Tr(p)       tr(p)       tr(p)	7,65	0.14 0.13	OR1 194.5 201.6
1 18.4 G.Ho 2 18.41 G.by 3 (8.43 5.62 35 18.43 5.67	Tr() Tr()	7,65	0.14 0.15 0.13	0R1 194.5 201.6 208.9
1 18.4 G.Ho 2 18.41 G.Ho 3 (8.43 5.62 5 18.43 5.67	1     (NTa)       Tr(p)       tr(p)       tr(p)	7,65	0.14 0.15 0.13	0R1 194.5 201.6 208.9
1 18.4 G.Ho 2 18.41 G.by 3 (8.43 5.62 35 18.43 5.67	(1) (NTa) Tr(4 Tr(4 Tr(4 Tr(4 Tr(4 Tr(4) Tr(4 Tr(4) Tr(4) Tr(4 Tr(4)	7,65	0.14 0.15 0.13	0R1 194.5 201.6 208.9
1 15.4 G.Ho 2 18.41 G.Ho 3 (8.43 S.82 55 18.43 S.67	(1) (NTa) Tr(4 Tr(4 Tr(4 Tr(4 Tr(4 Tr(4) Tr(4 Tr(4) Tr(4) Tr(4 Tr(4)	7,65	0.14 0.15 0.13	0R1 194.5 201.6 208.9
1 18.4 G.Ho 2 18.41 G.Ho 3 (8.43 5.62 5 18.43 5.67	(1) (NTa) Tr(4 Tr(4 Tr(4 Tr(4 Tr(4 Tr(4) Tr(4 Tr(4) Tr(4) Tr(4 Tr(4)	7,65	0.14 0.15 0.13	OR1 194.5 201.6 208.9 211.2
1 15.4 G.Ho 2 1841 Sb4 3 (8.43 5.62 35 (8.43 5.67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	( ) (NTA) Tr(4 Tr(4 Tr(4 Tr(4 Tr(4 Tr(4) Tr(4 Tr(4) Tr(4) Tr(4 Tr(4)	7,65	0.14 0.15 0.15 0.15	OR1 194.5 201.6 208.9 211.2
1 15.4 G.Ho 2 1841 Sb4 3 (8.43 5.62 35 (8.43 5.67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	( ) (NTA) Tr(4 Tr(4 Tr(4 Tr(4 Tr(4 Tr(4) Tr(4 Tr(4) Tr(4) Tr(4 Tr(4)	7,65	0.14 0.15 0.15 0.15	OR1 194.5 201.6 208.9 211.2

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Ap Depins in Feet Selaw Reference Paint on Weikhead - Generally Top of Casing (TOC)

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CHRYJH (AL MONNORING WEEL PURGIN			
Installation PDMT	- Well Number	W-57 258 25	54
Site/Project		W522	
Project Number 113603.03.77	Purge Start dats 6/	18/97 1600	
Purged by Baldino / Nauren	_ Purge End date 6/	18/97 - 1615	-
Well Head Reading Or C	9 ppm	·	•
Oepth Measurement Reference Point	Well Casing	10: 2 + 6 Other	
Oapth to Top and Bottom of Screen	h ngs	<u>.</u>	
Original Depth to Water (DTW)	Final Depth to Water (OTW)	•	
Measured Well TD	1		
	3.74 gats/casing vol X 5	· — • »*	174L 1565 1161
Purge Method 55	 Centrituoal Peristaitic	Hand — Gas Lify	Otoa
Submersible Ocdicated Bladder Bailer Tef Pump Bladder Pump Pump	Centrifugal Peristaitic C	Hand Gas Lify Pump Disclacement Pump	
Purging Equipment (Make, Model, Etc.)	>		
-			
Running Equipment Deconterminated? (V) / N	Purce Water Containerized? All	N	
Purging Equipment Decontaminated? Ø / N Average Purge Rate	Purge Water Containerized?	N	
	Punge Water Containerized?	N F	
Average Purge Rate 0pm Weather	Purge Water Containerized?	Salinity Comments	
Average Purge Rate	Conductivity Turbidity 00	E	
Average Purge Rate	Conductivity Turbidity 00 (NTa) 00 885 3.76 987 3.72	Salinity Comments OR 0.44 135.7	
Average Purge Rate	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7	
Average Purge Rate	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate         001           Yeather         940000           Time         Volumes         0epih to:         Depth of         Temp *C         pH           Time         Volumes         0epih to:         Depth of         Temp *C         pH           (gattens)         (test)         ifeeti         (s.t)         (s.t)           1         :         /8.67         5.7/           2         :         18.67         5.7/           3         :         :         :           3.5         :         :         :           3.5         :         :         :	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate     Oegin to     Degth of     Temp *C     pH       Weather     Volumes     Oegin to     Degth of     Temp *C     pH       Ime     Volumes     Oegin to     Degth of     Temp *C     pH       Ime     Volumes     Oegin to     Degth of     Temp *C     pH       Ime     Volumes     Oegin to     Imp intake     (s.t)       Image: Image of the state     Image of the state     Image of the state     (s.t)       Image: Image of the state     Image of the state     Image of the state     Image of the state       Image: Image of the state     Image of the state     Image of the state     Image of the state       Image: Image of the state     Image of the state     Image of the state     Image of the state       Image: Image of the state     Image of the state     Image of the state     Image of the state       Image: Image of the state     Image of the state     Image of the state     Image of the state       Image of the state     Image of the state     Image of the state     Image of the state       Image of the state     Image of the state     Image of the state     Image of the state       Image of the state     Image of the state     Image of the state     Image of the state       Image of the state     Image of the state     <	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rata       000         Weather       9         Time       Valumes         Purged       Water         (gatters)       Pump Intake         (gatters)       (leat)         1       18.67         2       18.67         3.5       18.99         3.5       18.99         3.5       18.59         1       1         1       1         1       1         1       18.99         5.57         3.5       18.99         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate     2011       Yeather     Yeather     Oepits to     Depth of     Temp *C     pH       Time     Volumes     Oepits to     Depth of     Temp *C     pH       (gatters)     Water     Pump Intake     (s.t)     (s.t)       1     1     18.67     5.87       2     1     18.67     5.77       3     1     18.98     5.64       3.5     18.98     5.64       1     1     18.98     5.64       3.5     18.98     5.64       1     1     1     1	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	
Average Purge Rate         0000           Yeather         Yeather         0 epith to : Depith of Temp *C (s.t.)           Time         Volumes Valuer         0 epith to : Depith of Temp *C (s.t.)           (gatters)         (lest)         (freed)           1         1         18.61         5.71           2         18.67         5.71           3         18.97         5.74           3.5         18.97         5.44           3.5         18.97         5.44	Conductivity Turbidity 00 (NT4) 00 885 3.74 987 3.72 1987 3.03	Salinity Comments OR 0.44 135.7 0.44 135.7 0.44 145.2	

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An Depths in Feet Below Reference Point on Welthesd - Generally Top of Casing (TOC)

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## CITY JEINE MONITORING WELL PURGING EDG

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installation	<u>imt</u>		· <b>_</b> _				NW.			
Site/Project	fite /	2 <sup>nd</sup> û6	wis 190	7	Sample	ID Number				
Project Number -	<u>v1136c</u>	<u>)3 .03.</u>	<u>72</u>		) Purge S	itant datt.	6-	19-97	<u>hr=</u>	
Purged by	Dance	s/AE	meny_		Purge E	ind <u>date</u>		_	tir e .	
Well Head Reading _	<i>y</i>	ſſ	0		_ppm					
Depih Measurement I	Teference Point	ī	OC			w	eli Casing I	0: Z	4* 6* Oth	tr
Depth to Top and Bot				<u>.</u>	ft <u>ogs</u>	-	•	$\sim$		·.
Original Depth to Wat			<u>72,75</u>	- ·	Final	Oepih to Wali	ır (DTW) _	`		
Measured Well TO		83.04	. <u> </u>				1	· · ·		
• Original DTW		· · ~	- 0.76		_		d			707-4
= Wtr Cal Thick.	10,29	יד זי X	≈0.63 • 1.47 — gais/f	ر سب = ۱	1.65	gats/casing vo	ı X S	casing vol	= <u>()</u>	PVRGE GALLO
Putge Mathod		Bladder -	Bailer -	SS	Centrilu	gal - Per	istaitic — Pump	Hand T Pump	Gas Li Disciaceme	ty
Submersible -	Oedicated	B		20/2	ru(	ар <u>—</u> ча	· • • • •	a number of the	Pun	
Submersible - Pump _ 8	Oedicated T ladder Pump	. Pump_	. –	~~	-	2422				
Submersible — Pump 8 Purging Equipment (1	ladder Pump _,	. Pump_	undfex.	Ha	<u>zco I</u>	<u>3433</u>				
Pump _ 8	ladder Pump Make, Model, Et	. Pump_ ) _ <u>Gri</u>	. –			<u>3433</u> Containenzed		4		
Pump 8 Purging Equipment (I Purging Equipment 0 Average Purge Rate .	ladder Purno Aake. Model. Et econtaminated?	. Pump_ c.) <u>GTM</u> ? (?:/ N	. –				· · · · ·			
Pump 8 Purging Equipment (I Purging Equipment D Average Purge Rate _	ladder Purno Aake, Model, Et econtaminated? Fr P (		und fox.		Purge Water (	Containenzed?	·	-		· ·
Pump 8 Purging Equipment (I Purging Equipment 0 Average Purge Rate .	ladder Pump Aake, Model, Et econtaminated F= P (	. Pump_ c.) <u>GTM</u> ? (?:/ N	Und fox			Containenzed?				مرون مرون مرون
Purging Equipment ( Purging Equipment ( Average Purge Rate - Weather	ladder Pump Aake, Model, Et econtaminated? F= P (		Und fox	 рн С	Purge Water ( 	Containenzed O <p< td=""><td>00 3, 2)</td><td>Satinity</td><td>JackStl</td><td>borta</td></p<>	00 3, 2)	Satinity	JackStl	borta
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Average Purge Rate Neather Time Votume Purgeo (gallons 14,24, 14,24,	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) (P:1 N <u>gen</u> Loudy Pump Intake (leet)	Und fox	(14) (14) (14) (14) (14) (14) (14) (14)	Purge Water Candychvity 1 V Tem 4 38 4 50	Containenzed O <p Turondiny (048 66, 7</p 	00 3,2); 2,12	Satinity 0,21 0,22	JackStl	borta
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Votume Purgeo (gallons 1424 1427 1428 1428 1428 1428 1428 3	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Print N  Print for the second seco	Und fox Temp "C 19.77 19.53 2016	(11) (11) (12) (12) (12) (12) (12) (12)	Purge Water Candychrity 127cm 127cm 1438 438 430 745-6	Containenzed $O < \rho$ Turonoiny (04.8 66, 7 64, 9	00 3,22 2,12 1,164	Satisity 0,21 0,22 0,22	Jarlit /1 Turbid bo IVO Odog	hooby /an
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Average Purge Rate Average Purge Rate Average Purge Rate Time Votume Purged (galons 1424 1427 1428 1429	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Print N  Print of Pump Intake (leet) Pump 77' Print 77' Print 77' Print 77'	19.77 - Temp "C - 19.77 - 19.53 - 2016 - 2012	(11) (11) (12) (12) (12) (12) (12) (12)	Purge Water Candychrity 127cm 127cm 1438 438 438 438 438 435 435 435 435 435 435	Containenzed <u>O</u> <p Turondiny (418 <u>66, 7</u> <u>64, 9</u> <u>73, 4</u></p 	00 3,22 2,12 1,764 1,556	Satisity 0,21 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Prime [ Pump [ Pump Intake] Pump Intake (lect) Pump [ Pump [ Pump ] Pump [ Pump ] Pump [ Pump ] Pump ] Pump P	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (1.1) (1.20 (1.20 (1.20 (1.20 (1.20 (1.20) (1	Purge Water Canductivity 1.750 1.750 4.38 4.50 - 4.555 4.5555 4.5555 4.5555 4.55555 4.5555555555	Containenzed OKP Turonoiny (418 66, 7 64, 9 734 766	00 3,22 2,12 1,164 1,156 1,419	Satisity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	thooby /an
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather S Time Vatura Purgec (gallons 1424 1425 1428 1424	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Print N  Print of Pump Intake (leet) Pump 77' Print 77' Print 77' Print 77'	19.77 - Temp "C - 19.77 - 19.53 - 2016 - 2012	(III) (IIII) (III)	Purge Water Candychrity 177 177 177 177 177 177 177 17	Containenzed <u>O</u> <p Turondiny (418 <u>66, 7</u> <u>64, 9</u> <u>73, 4</u></p 	00 3,22 2,12 1,164 1,156 1,419	Satisity 0,21 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Prime [ Pump [ Pump Intake] Pump Intake (lect) Pump [ Pump [ Pump ] Pump [ Pump ] Pump [ Pump ] Pump ] Pump P	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (1.1) (1.20 (1.20 (1.20 (1.20 (1.20 (1.20) (1	Purge Water Canductivity 1.750 1.750 4.38 4.50 - 4.555 4.5555 4.5555 4.5555 4.55555 4.5555555555	Containenzed OKP Turonoiny (418 66, 7 64, 9 734 766	00 3,22 2,12 1,164 1,156 1,419	Satisity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Prime [ Pump [ Pump Intake] Pump Intake (lect) Pump [ Pump [ Pump ] Pump [ Pump ] Pump [ Pump ] Pump ] Pump P	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (J.7) (J.20 (J.07) (J.02 (J.02 (J.78)(	Purge Water Candychrity 17700 19700 1980 1950 1950 1950 1954 1954	Containenzed OKP Turonoiny (418 66, 7 64, 9 734 766	00 3,22 2,12 1,164 1,156 1,419	Satisity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) (P:1 N <u>gym</u> Loudy Pump Intake (leet) 177' 177' 177' 177' 177' 177' 177'	Und fox temp "C 19.77 19.53 2016 2012	(III) (IIII) (III)	Purge Water Candychrity 17700 19700 1980 1950 1950 1950 1954 1954	Containenzed O <p Turonoiny (04.8 66.7 64.9 73.4 76.6 78.2</p 	00 3,22 2,12 1,164 1,156 1,419	Satinity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) Prime [ Pump [ Pump Intake] Pump Intake (lect) Pump [ Pump [ Pump ] Pump [ Pump ] Pump [ Pump ] Pump ] Pump P	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (J.7) (J.20 (J.07) (J.02 (J.02 (J.78)(	Purge Water Candychnity 1.776m 4.38 4.50 - 4.50 - 4.55	Containenzed O <p Turonoiny (04.8 66.7 64.9 73.4 76.6 78.2</p 	00 3,22 2,12 1,164 1,156 1,419	Satinity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) (P:1 N <u>gym</u> Loudy Pump Intake (leet) 177' 177' 177' 177' 177' 177' 177'	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (J.7) (J.20 (J.07) (J.02 (J.02 (J.78)(	Purge Water Candychnity 1.776m 4.38 4.50 - 4.50 - 4.55	Containenzed O <p Turonoiny (04.8 66.7 64.9 73.4 76.6 78.2</p 	00 3,22 2,12 1,164 1,156 1,419	Satinity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem
Pump B Purging Equipment (I Purging Equipment D Average Purge Rate Weather Time Vatume Purged (gallons 1424 0 1427 2 1428 3 [429 4 1429 5	Aake, Model, Et Aake, Model, Et econtaminated? From P (	Pump_ c.) (P:1 N <u>gym</u> Loudy Pump Intake (leet) 177' 177' 177' 177' 177' 177' 177'	Und fox temp "C 19.77 19.53 2016 2012	(1.1) (J.7) (J.20 (J.07) (J.02 (J.02 (J.78)(	Purge Water Candychnity 1.776m 4.38 4.50 - 4.50 - 4.55	Containenzed O <p Turonoiny (04.8 66.7 64.9 73.4 76.6 78.2</p 	00 3,22 2,12 1,164 1,156 1,419	Satinity 0,21 0,22 0,22 0,22 0,22 0,22	Jarbid/	tem

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All Geolog in Feet Below Reference Point on Wellhead - Generally Top of Casing (TOC)

	- Well Number -	<u> </u>	54_	258 256
Site/Project	Sample ID Num		nw 542	
Project Number 115603.03.77	- Purge Start		10/97 sir.	
Purged by Bold; no Alory en	_ Purge End _	(21e (q/ 78	<u>97</u>	/170
Well Head Reading	<u>pom</u>			·
Depth Measurement Reference Point	h bgs	Well Casing I		6" Other
Original Depth to Water (DTW)		· Water (OTW) (—		
Measured Well TD		1		
- Original DTW	4.14 gats/casir	ġ		17.4 PURGE
$= \text{Wtr} \text{ Cal Thick} = \frac{2}{\sqrt{2}} \frac{2}{\sqrt$	gats/casir	19 vol X 5	casing vol =	- <u>Frenk</u> Gallons
Purge Method SS Submersible Dedicated Bladder Bailer Tet	Centrifugal —	Peristaitic —	Hand —	Gas Lity
Submersible Dedicated Bladder Baller fer Pump Bladder Pump Pump	Pump_	՝ Քա <b>ո</b> ք	Pump C	Pump
		- A		
Purging Equipment Decontaminated? 201 N Average Purge Rate	Purge Water Containen	uzed? () / N		
Weather				
,		<del>_</del>		
Time Volumes Depth to Depth of Temp *C pH Purged : Water Pump intake (s.s.) (galions) (teet) (teet)	Conductivity Turbidity { I (NTa)	, DO	Salinity .	Comments
		7 DO	Salinity .	Comments
Purged ; Water Pump Intake (S.a.1 (gallons) (leet) (leet)		, DO	Salinity :	Comments
Purged Water Pump intake (3.4.)		7 DO	Salinity	Comments
Purged ; Water Pump Intake (S.a.1 (gallons) (leet) (leet)		, DO		Comments
Purged Water Pump Intaka (5.4.1 (galians) (leet) (leet)		r 00		
Purged ; Water Pump Intake (5.a.1 (galions) (leet) (leet)	(   (NTa)	r 00		Comments 
Purged Water Pump Intaka (5.4.1 (galians) (feet) (feet)	(   (NTa)	r 00		
Purged : Water Pump Intaka (5.4.1 (galions) : (leet) (leet) :	(   (NTa)	, DO		
Purged Water Pump Intaka (5.4.1 (galians) (feet) (feet)	(   (NTa)	r 00		

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An Depins in Fest Below Reference Point on Wethead - Generally Top of Casiling (100)

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## CIRYJEINE MONITORINGEWEEL PURGING EDG

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instaliatio	<u>"                                    </u>	TT				. Well Ni	umber	ΜW	<u>55</u>		
Site/Proje	2	" G(-	W.S.I	997		Sample				L	
			03.22		:		Start عليك	6-1	5-97	<u>, (915</u>	
untaer (v)	<del></del> ۲۵۵۳۱۵ الحر ۱	han 1	1 leme	Let .						. n==	
		<del>- [ /</del>	<u> </u>	7		. Purge i					
-	teading		tor				•	Kall Carioo		4" 6" Other	- -
	turement Refe				,			NCII GASGIŲ	". <i>C'</i>	· ·	
			6 14			t bas	•	'. 	÷		
			4.2 <u>8</u>			- Fina.	i Depih to Wa	18F (UTW), 4			
Measured		<u>(1,68)</u> סרפ	,	~				1			
- Origi	nal DTW 6	<u>ייקאד.</u> גו מ	- 🤄	-0.15 -0.55		in 760	·	Ą.	) conied with	= <u>2</u> ,31	7074L 24568
= Wtr C	ol Thick	<u>, 1 ( )</u>	X °	- 1.37 gals	/ti = .	<u>(', /0a</u>	- Garancazrud .	/01 <b>A</b> 5	casing ver		3.1.5.1
ande Weiñ	ned	· ·			SS 7						0:per
ubmersibl Pum		Dedicated <sup>—</sup> der Pump <u>—</u>	Bladder Pumo	Bailer '	SS ] Tel PVC	Centrali Pt	uqal — Pe ump	eristaitic — Pump _	Налф — Ротр	Gas Lity T Dispiscament Pump	. <u> </u>
		-		dE.			124.22			r varinga	_
			~	<u>Uno 101</u>		Purge Water	<u></u>	- C -	NI		
	uipment Deco					Puige Water	. Containenzei	, U/	ы		
Average Pu	rge Rate 70°F	(Vander	<u></u>					·	<u>F</u>		
		<u>.</u>							Salinity	Comments	
Time	Volumes Porged (gallans) ~	1 Water	Depth of Pump Intaka (Icet)	Temp *C	рН (5.2.)	Conductivity	CALAN 	00		! 	
4915	6	169-28	74.5	19,22	577	: 191	99.3	405-	0.10	Black sarty/s	
0917	3		<u>1 'X</u>	19,29	5.72			6.27	0,09	Slightly Turbic	<u>l plocad</u>
<u>0919</u>	5.		<u>X</u>		5,81	201-	107,6		6,09	<u>                                     </u>	
09,22	<u>N</u>	<u> </u>	277	19.90		193	114,1	6,18	0.09	shiping turber	Ma
<u>0929</u>	16	<u>  -</u>	->x12		5,58	1762	Blo	7,11	<u>6.08</u>		
0931	20	<u> </u>	72	20.69	5.58		143	6,68	0,09	i	
·		<u> </u>	: 			· · ·			<u> </u>	:	
		<u>¦                                     </u>	<u>,</u>	<u> </u>	•	<u>}.</u>	·	_ <b></b>	:	<u> </u>	
<del>_</del>		l	<u> </u>			<u> </u>			<u>!</u>	•	
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		 	:			}			: 	<u>.                                    </u>	. <u> </u>
			:			-			1	i	
		<u> </u>	<u>.</u>			:			<u> </u>	i	

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An Desing in Feet Below Reference Point on Wethead - Generally Top of Casing (TOC)

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# Appendix D Sample Logs

	MONITORII		<u> </u>	Form Number
Installation	JURN FIEL	10	Well Number	MW-2
Site/Project		QT SAMPund	Sample ID Number _	MW22
Project Number	113630	.03.77	Sample Start	6/21/97 1015
*	C. P. JUEN	1 7 G. A. FOND	Sample End date	6/21/97 1040
				•
Original Static Water (	Level	5.03 natur	Final Static Water Le	vci
Screen Interval		n atoc	DEPA	
Tima Tempa	ratore pH	Conductivity Torbidity	DD -Gelinity>	Are parameters 20% of purge values?
	0 005	50 11541	3/1 206	Repurge? Y / N
1005 104	89 600 VELLOUNE		AD TUCOVEN	Number of repurge volumes
	MILL SIA	MIED ALLIA	5.	
Sampling Method Submersible Pump Z Bi	Dedicated 🗌 Bias ladder Pump Pi	ddar Baller SS ump	Centrifugal: Perist Purto: P	laitic [] Hand [ Gas Lify [] ump _ Pump _ Displacement Pump
Submersible Z BI Pump Z BI Sampling Equipment ( Sampling Equipment ( If pump or discrete bai		2 <sup>11</sup> GS Gr. WM74	PUMP (TOILME	
Submersible BI Pump BI Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather C Lab Anatyses VOC SVOC :	(Make, Model, Etc.) $\frac{2}{\sqrt{3}}$ Decontaminated ? $\sqrt{3}$ iller: depth(a) where put $\frac{1}{\sqrt{3}}$ $\frac{1}{\sqrt{3}}$ $\frac{1}{\sqrt{3}}$	2 <sup>11</sup> GS Grunde 1 N 100 set <u>271 na</u> 10 <sup>11</sup> 850 F	PUMP (TON ME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:
Submersible BI Pump BI Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather Lab Analyzes VOCSVOC Other	(Make, Model, Etc.) $2$ Decontaminated ? $3$ iler: depth(s) where put 51117 CCC = 76L Metals	2 <sup>11</sup> <u>GS Grund</u> / N mp set <u>277 na</u> <u>10' 850 F</u> _ Pesticides/PCBs (	PUMP (TOLME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:
Submersible BI Pump BI Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather	(Make, Model, Etc.) 7 Decontaminated ? iler: depth(s) where put SINTLY CLA TAL Metals Unfiltered S	2 <sup>11</sup> <u>C.S. G.W.W.W.K</u> / N / N / D / <u>27</u> <u>n.B</u> / <u>0</u> / <u>8</u> / <u>8</u> / Pesticides/PCBs ( Both	PUMP (TOLME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:
Submersible BI Pump BI Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather	(Make, Model, Etc.) 7 Decontaminated ? iler: depth(s) where pure SINTLY CLA TAL Metalls Variatered V N (VOC (	2 <sup>11</sup> <u>C.S. G.W.W.W.K</u> / N / N / D / <u>27</u> <u>n.B</u> / <u>0</u> / <u>8</u> / <u>8</u> / Pesticides/PCBs ( Both	PUMP (TOLME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:
Submersible BI Sampling Equipment ( Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather Weather Lab Analyses VOCSVOC Other Metalls: Filtered Field Duplicates	(Make, Model, Etc.) $2Decontaminated ? 3iler: depth(s) where putanny CA= TALMetals \neqUnfiltered 3/ N (VOC (N$	2 <sup>11</sup> <u>C.S. G.W.W.W.K</u> / N / N / D / <u>27</u> <u>n.B</u> / <u>0</u> / <u>8</u> / <u>8</u> / Pesticides/PCBs ( Both	PUMP (TOLME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:
Submersible BI Sampling Equipment ( Sampling Equipment ( Sampling Equipment ( If pump or discrete bai Weather <b>Lab Analyzes</b> VOC VOC SvOC Gither Field Dupticales Spth Sample	(Make, Model, Etc.) 7 Decontaminated ? iler: depth(s) where pure SINTLY CLA TAL Metalls Unfiltered N N	2 <sup>11</sup> <u>C.S. G.W.W.W.K</u> / N / N / D / <u>27</u> <u>n.B</u> / <u>0</u> / <u>8</u> / <u>8</u> / Pesticides/PCBs ( Both	PUMP (TOLME	Editic Hand Gas Lift - ump Pump Displacement - Pump - Parts + Tatshow Rife RA:

Instaliatio		DDA	NT		Samo	lumber	03 MW032
Project N		11360	3.03	BB-	8	la Ĉinat 415	6/21/97 im 093
Sampled	by73	·Ur,	3.093. 10 Ng	yer	Samp	is End <u>dam</u>	6/21/97 in 0940
Originat Sta	tic Water Leve) 🔔		07.18	n BTDC	Fina	al Static Water Le	vel
Screen Inte	Temperatura (	_ — рН	t BTO	Turbidity	00	Salinity	Are parameters 20% of purge values?
							Repurge? Y / N
							Number of repurge volumes
							11.00
1	i !						
							-3 mellinges
Sampling N Submersible	- Dedica		Badder Baile	55		ugal: Periz	tattic Hand Gas Lity
Submersible Pump Sampling Ec Sampling Ec	- Dedica	imp lodel, Elc.} ninated 7 _ 1 th(s) where p	Pumo			ugal: Peris Imp: P	
Submersible Pump Sampling Ed Sampling Ed If pump or d Weather Lab Analysis VOC 75	Bladder Pu Bladder Pu uipment (Make, M uipment Decontan iscrete bailer: dep <u>Sung</u>	Inip lodel, Elc.} ninated 7 1 th(s) where p th(s) where p th(s) where p	Pump	ner	<u>x</u>	.mp:P	taitic Hand Gas Lity F winp Pump Displacement Pump
Submersible Pump Sampling Ed Sampling Ed If pump or d Weather Lab Analyse VOC 75 Other Metals: Filt	Bladger PL Bladger PL suipment (Make, M suipment Decontan iscrete bailer: dep <u>SVOC</u> = <b>TOC</b> , <b>SP-1</b> ered ==	Inip lodel, Elc.} ninated 7 1 th(s) where p th(s) where p th(s) where p	Pump	ner	<u>x</u>	.mp:P	taitic And Gas Lity C
Submersible Pump Sampling Ed Sampling Ed If pump or d Weather Lab Analyse VOC 75 Other	Bladder Pl Bladder Pl uipment (Make, M uipment Decontan iscrete bailer: dep <u>SVOC</u> TOC, SO-1 ered	Inip lodel, Elc.} ninated 7 11 th(s) where ( 1 Metalsy 	Pump		<u>x</u>	.mp:P	taitic Hand Gas Lity F winp Pump Displacement Pump
Submersible Pump Sampling Ed Sampling Ed If pump or d Weather Lab Analyso VOC <b>^S</b> Other Matals: Filto Field Duplica	Bladder Pl Bladder Pl uipment (Make, M uipment Decontan iscrate bailer: dep <u>SVOC</u> SVOC T TOC, SO-4 ered T tes Y / N Y / N	Inip lodel, Elc.} ninated 7 11 th(s) where ( 1 Metalsy 	Pump		Interdicides	.mp:P	taitic Hand Gas Lity F winp Pump Displacement Pump

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#### CIEVE MONITORING WEEL SAMPLING LOG

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N BTOC

Installation DD MT	tru	ţ		
Site/Project	Sli	:		
Project Number 113603.03.32	Pro	F		
Sampled by Baldino/Hgaryen	Sa	5		
PAG-19+				
Original Static Water Level	) riç	0		
Screep Interval	Scn	5	ļ	

Well Number04	
Sample ID Number MW042	
Sample Start dila 6/00/97 uma	1040
Semple End dite 6/20/92 time	1045

Final Static Water Level .....

Are parameters 20% of purge values? Y / N

Time .	Temperature	pH	Conductivity	Turbidity	00	Salinity
		Í				
		<u> </u>				
	· · · · · ·	<u> </u>	 			<u> </u>
Ļ			[			

Repurge? Y / N Yorky Number of reporte volumes	3
N/A	

Sampling Mathed SS C
Submarsible Dedicated: Bladder Bailer Tet Centrifugal: Peristaltic Hand Gas Lify Pump Bladder Pump Displacement
Sampling Equipment (Make, Model, Elc.)
Sampling Equipment Decontaminated ? Y / 🕢
If pump or discrete baller; depth(s) where pump set
Weather Ser AY
Lab Analyses VOC O SVOC Metaly — Pesticides/PCBs — Herbicides — TPH — Dioxin/Furans —
Qther
Metals: Filtered 🛄 Unfiltered 🔀 Both 🚃
Field Duplicates Y / 1
Split Sample Y / (N)
MS/MSD Y / N YSI not working
Construction YST Not Working

#### CIESTIM MONITORING WELLSAMPLING LOG

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Site/Project	<u></u>	Źr Çu	Souther	Dante	6 Sample	o ID Number _	MW-052
-		11710	202 2	2	<b>K</b>	<b>Ctor d</b> - <b>t</b> -	6-21-97 lime 1125
Sampled by	<u> </u>	<u>es, C</u> :	Ting_		. Sample	End date	6.21-97 line
Original Static	Water Level	·	74,50	) <u>π 810C</u>	Final	Static Water Lev	vel
Screen Interva	I		n 810	ç		REOX	
Time	Temperature j	pH	Conductivity	Turbienty	00	Sallen	Are parameters 20% of purce values?
104	1885	6.16	302	па	6.93	310	Aepurge? Y / N
<u> 100</u>	18.30	6.78	-206	4	6.69	31	Number of repurge volumes
1116	17-89	5.8B	2.92	"(	6.56	707	
					~		
I							
Sampiling Meth Submersible Purco	ed - Dedic Bladder P	ated: Bia	doer — Baile		Centrifu	gal:*** Perist	altic ( Gas Lift/ )
Submersible Pump _	– Dedic _ Sladder Po		-	-		gal: Perist np: Pr Bo-La	Pump —
Submersible - Pump _ ampling Equip	- Dedic Biadder Pr oment (Make, M		Digon	-			Pump —
Submersible - Pump _ Sampling Equip	- Dedic Bladder Pr ament (Make, N ament Decontar	lodel, Etc.) minated 7 Y	<u>Dizan</u> 1 D	-	E-Flow		Pump —
Submersible Pump _ Sampling Equip Sampting Equip	– Dedic _ Bladder Pr oment (Make, N oment Decontar rete bailer; dep	lodel, Etc.) minated 7 Y sith(s) where put	<u>Dirjana</u> 1 D ma set <u>4</u>	<u>able_Ts</u>	<u>Ef<i>la</i>s)</u> 105		Pump —
Submersible Pump _ Sampling Equip Sampling Equip	– Dedic _ Bladder Pr oment (Make, N oment Decontar rete bailer; dep	lodel, Etc.) minated 7 Y sith(s) where put	<u>Dirjana</u> 1 D ma set <u>4</u>	able_Te	<u>Ef<i>la</i>s)</u> 105		Pump —
Submersible Pump Sampling Equip Sampting Equip Sampting Equip Sampting Equip Sampting Equip Sampting Sampting	- Dedic Bladder Pr oment (Make, N oment Decontar rete bailer; dep	Nodel, Etc.) minated 7 Y wih(s) where pur	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	26/2_7	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump _ Sampling Equip Sampting Sampting Sa	Dedic Bladder Pi oment (Make, N oment Decontar rete bailer; dep	Nodel, Etc.) minated 7 Y with(s) where pur Cal Metais	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	26/2_7	<u>105</u>	<u>Ba-La</u> =	Pump —
Submersible Pump _ Sampling Equip Sampting Sampting Sa	- Dedic Bladder Pr oment (Make, N oment Decontar rete bailer; dep	Nodel, Etc.) minated 7 Y with(s) where pur Cal Metais	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	26/2_7	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump Sampling Equip Sampting Sampting	Dedic Bladder Pr oment (Make, N oment Decontar rete bailer; dep CC	Nodel, Etc.) minated 7 Y with(s) where pur Cal Metais	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	26/2_7	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump	Dedic Bladder Pr oment (Make, N oment Decontar rete bailer; dep CGSS, SVDC C TODZ d	Addel, Etc.) minated 7 Y with(s) where put (AL Matais L.E.	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	66/cT ≤	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump	Dedic Bladder Pr oment (Make, M oment Decontar rete bailer; dep CC-C-C- svoc C- TODZ d Y / N	Addel, Etc.) minated 7 Y with(s) where put (AL Matais L.E.	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	66/cT ≤	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump _ Pump _ Sampling Equip Sampting Equip I pump or disc Veather Not Analyses Voc S Not Sample	Dedic Bladder Pr oment (Make, M oment Decontar rete bailer; dep CC-C-C- svoc C-C- TODZ d	Addel, Etc.) minated 7 Y with(s) where put (AL Matais L.E.	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	66/cT ≤	<u>105</u>	<u>Ba-La</u> =	Ритр —
Submersible Pump	Dedic Bladder Pr oment (Make, M oment Decontar rete bailer; dep CC	Addel, Etc.) minated 7 Y with(s) where put (AL Matais L.E.	<u>Dirpor</u> 1 D 10 501 <u>- 4</u> 10 501 <u>- 5</u> 10 50	66/cT ≤	<u>105</u>	<u>Ba-La</u> =	Ритр —

8TOC - Below Top of Casing (or other measurement reference point)

## CIRVENIONITORINGEWEELSAMPEINGELOG

258 263

	Don	م قدم ا					M1006
Site/Projec	<u>, 00-1 /</u>	<u>,2°°C</u>	26.605 19	<u>97</u>	Sample	ID Number _	MW062
Brolect N:		36.30	03.ZZ		Samok	Start date	6-21-97 jime
Fieldering	<u>ни</u>	1	10				
Sampled b	v <u>JAta</u>	ocen (	,03.22 J Eming		Sample	end <u>data</u>	lime
	-						
Original Stati	c Water Level	<u>58.2</u>	6	n BTDC	Final	Static Water Le	vei
				_			
Screen Intern	/al		t etter	ç			
Time	Temperature	рH	Conductivity	Torbidity	00	Saltotty	Are parameters 20% of purge values
1430		- ~					Repurgs? Y (N)
		<u>_</u>	Π.//4	ter		l 	Number of repurge volumes
	-		$\frac{1}{1}$	. A.TE			
-					<u> </u>		
			1		··		
Submarsible Pump	Dedic	ated ; ··· Bi	ladder Balle		Cemtifu Pu	gal: Perisi mp. P	laitic ; Hand i Gas ∪11/ f ump _ Pump _ Oisplacement _ Pump
Submersible Pump Sampling Equ	Dedic Bladder Pr Lipment (Make, M	ump: lodel, Etc.) nicated ?Y	Pump_(	Fas (1	(9260)		ump 🔄 Pump 💶 Olsplacement i Pump
Submarsible Pump Sampling Equ Sampling Equ 1 pump or dia	Bladder Pu Bladder Pu Lipment (Make, M Lipment Decontan screte bailer; dep	ump <u> </u>	Pump_( rind N	Fas (1	(9260)		ump 🔄 Pump 💶 Olsplacement i Pump
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Submarsible Pump Sampling Equ Sampling Equ Sampling Equ Loump or dia Weather	Bladder Pr Bladder Pr uipment (Make, M uipment Decontan screte bailer, dep	ump <u> </u>	Pump_(	Fas (1)	(9260)	/343	ump Olsplacement Pump }
Submarsible Pump Sampling Equ Sampling Equ I pump or dia Weather	Bladder Pr Bladder Pr Lipment (Make, M Lipment Decontan screte baller, dep	Indel, Etc.) nicated ? th(s) where p	Pump_( N N Nump set <i>O ve i</i> c	Fas (1)	<u>(a2co)</u>	/343	ump Olsplacement Pump }
Submarsible Pump Sampling Equ Sampling Equ I pump or dis Weather	Bladder Pr Bladder Pr Lipment (Make, M Lipment Decontan screte baller, dep SVOC = M	Indel, Etc.) nicated ? th(s) where p	Pump_ Cat Id.nd N N N N N N N N N Pesticides/	Fas (1)	<u>(a2co)</u>	/343	ump Olsplacement Pump }
Submarsible Pump Sampling Equ Sampling Equ Sampling Equ I pump or dis Weather Weather Other	Bladder Pr Bladder Pr Lipment (Make, M Jornent Decontan screte baller, dep Screte baller, dep Svoc	Indel, Etc.) nicated ? Y th(s) where p USS I / ) Metals	Pump_ Cat Id.nd N N N N N N N N N Pesticides/	Fas (1)	<u>(a2co)</u>	)34 <u>3</u> : <u>*</u> TPH =	ump Pump Olsplacement Pump
Submarsible Pump Sampling Equ Sampling Equ Sampling Equ I pump or dis Weather Weather VOC	Bladder Pr Bladder Pr Lipment (Make, M Jornent Decontan screte baller, dep C = M svoc = M svoc = M	Indel, Etc.) nicated ? Y th(s) where p USS I / ) Metals	Pump_ Cat Id.nd N N N N N N N N N Pesticides/	Fas (1)	<u>(a2co)</u>	)34 <u>3</u> : <u>*</u> TPH =	ump Olsplacement Pump }
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Submarsible Pump Sampling Equ Sampling Equ Sampling Equ I pump or dis Weather Weather VOC	Bladder Pr Bladder Pr Lipment (Make, M Jornent Decontan screte baller, dep Screte baller, dep Svoc	Indel, Etc.) nicated ? Y th(s) where p USS I / ) Metals	Pump_ Cat Id.nd N N N N N N N N N Pesticides/	Fas (1)	<u>(a2co)</u>	)34 <u>3</u> : <u>*</u> TPH =	ump Pump Olsplacement Pump

	m%	MT			Well N	lumber	07
Site/Proje	ct				Samp	le IO Number ,	. Lilad
Project Nu	umber	<u>360 5.</u> 1 1	OS.EE Nguyo		Samp	le Start <u>data.</u>	6/4/97 103
Sampled t	y TSal	Sino	Nguye	<b>/</b> (.	Sampl	e End <u>date</u>	6/21/97 im ,04
Orliginal Stat	ic Water Level 🔔	63	.08	n etoc	Fina	Il Static Water Li	evel
Screen later	val		<u>h BTO</u> (	Č.			
Time	Temperature	рн	Conductivity	Turbidity	DO	Salioity	Are paramistere 20% of purge value
	! 					·	Repurge? Y / N
-							
					<u> </u>	<u>!</u>	
						<u> </u>	3 well volu
iampilng Me iubmersible Pump	Dedica	tied T &	Badder Baller		Centrift Pu		stalitic Handi Gas LIN/ Gas
iampling Mi iubmersible Pump iampling Equ ampling Equ pump or di	nthod Dedic Biadder Po uipment (Make, M uipment Decontan screte bailer; dep	imp lodel, Eic.)_ ninated ?	Pump_ <b>Grun</b> Y)/ N	CR 100	<u> </u>		stalilic ( Gas (Lift) (
iampling Mi iubmersible Pump iampling Equ ampling Equ pump or di	ntbod Dedic Biadder Po uipment (Make, M uipment Decontan	imp lodel, Eic.)_ ninated ?	Pump_ <b>Grun</b> Y)/ N	Jos	<u> </u>		stalitic Handi Gas LIN/ Gas
iampling Mi Pump iampling Equ iampling Equ pump or di leather ab Analyses OC X	ntbod Dedic Biadder Po uipment (Make, M uipment Decontan screte bailer: dep	amp Iodel, Eic.) _ Ininated ? (1) Ihi(s) where ( Ininated ?	Pump_ <b>6-741/</b> Y) / N pump ser		<u>-</u> Ри DC 	mipF F F	stalitic Handi Gas LIN/ Gas
iampling Mi Pump iampling Equ ampling Equ pump or di /eather ab Analyses OC XC ther	nthod Dedic Biadder Po Biadder nterent Parts	Pump_ Frump_ Y) N pump ser Pesticides/f		<u>-</u> Ри DC 	mipF F F	stalitic Handi Gas Lify ( Pump Displacament Pump	
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iampling Mi Pump iampling Equ ampling Equ ampling Equ pump or di /eather ab Analyses OC X ther letals: Filte etd Duplicat	etbod Dedic Aladder Pr uipment (Make, M uipment Decontan screte bailer: dep Svoc fS svoc fS red	lodel, Eic.)_ ninated ? () th(s} where   <b>b</b> i Metals <del>)</del> Unfittered	Pump_ Frump_ Y) / N pump ser Pesticides/F	- pvc - 		mip F	stalitic    Handi Gas Lify ( Pump Displacement Pump Pump
iampling Mi Pump iampling Equ ampling Equ ampling Equ pump or di Analyses OC YC ther letals: Filte eld Duplicat plia Sample	etbod Dedic Aladder Pr uipment (Make, M uipment Decontan screte bailer: dep Svoc fS svoc fS red	lodel, Eic.)_ ninated ? () th(s} where   <b>b</b> i Metals <del>)</del> Unfittered	Pump_ Frump_ Y) / N pump ser Pesticides/F	- pvc - 		mip F	stalitic Handi Gas Lify ( Pump Displacament Pump

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BTOC - Below Top of Casing (or other measurement reference point)

Installation _		MT	-		Well N	umber	08	
Site/Project						e iD Number _	Marc	580
Project Numb	- <u>-</u>	3605	.03, ET	5	-	e Start date	6/21/97	- ima 110
Sampled by .	130	eld;n	.03, ET 0/NgJ	yes	F	e End data	alilar	time / 20
				/			7 /	
Original Static V	fater Level	3	7.59	<u>h 970C.</u>	Fina	l Static Water Le	vai	
Screen Interval		. –	N 810	<u>)C</u>				
time   Ti	amperatore i	pH	Gondactivity	Torbidity	00	Gallotty	Are parameters	20% of purge values
I							Aspurgs? Y	/ N
			<del>.</del>		_		Number of repu	rge voturnes
		-					ζu	cll Vol
				• •		1		
Sampling Methe Submersible Pump	Dedicat	ed - 1 61	addar — Baile Pump		Centrific Pu	igal: Pertsi mp:P	altic [] Hand [] ump Pump	Gas Lify ( Olsplacement (
Submersible Pump Sampting Equipn	Dedicat Bladder Pon 1911 (Make, Mo 1991 Decontami	np del. Elc.) nated ? Y	Pump_  	ler		igal: Perisi mp: Pi		Gas Lity (*
Submersible Pump Sampting Equipn	Dedicat Bladder Pon 1911 (Make, Mo 1991 Decontami	np del. Elc.) nated ? Y	Pump_	ler		igal: Pertsi mp: Pi		Gas Lify ( Olsplacement (
Submarsible Pump Sampting Equips Sampling Equips f pump or discre	Dedicat Bladder Pon tent (Make, Mo tent Decontami te Dailer: depth	ng( del, Eic.) nated ? Y (s) where pi /	Pump_  / (N) ump set		2 <u>G</u>	mp:Ρι		Gas Lify ( Olsplacement (
Submarsible Pump Sampting Equipm Sampling Equipm I pump or discre Veather zb Analyzes VOC YOC SV	Dedicat Bladder Pun nant (Make, Mo sent Decontami te Dailer: depth <u>Set A M</u>	np del. Elc.) nated ? Y	Pump_  / (N) ump set		2 <u>G</u>	mp:Ρι	aitic [] Hand [ ump _ Pump _	Gas Lify ( Olsplacement ( Pump
Submarsible Pump Sampting Equipm Sampling Equipm f pump or discre Veather XD Analyzes VOC (O SV ther TD Analyzes	Dedicat Bladder Pon sent (Make, Mo sent Decontarni te Dailer: depth <u>Set A M</u>	$\frac{1}{\sqrt{1}{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{1}}{1}}}}}}}}}}$	Pump_ Sain (N) Pesticides/ NG2	рсвя —	2 <u>G</u>	mp:Ρι	aitic [] Hand [ ump _ Pump _	Gas Lify ( Olsplacement ( Pump
Submarsible Pump	Dedicat Bladder Pun nant (Make, Mo tent Decontami te Dailer: depth <u>Sat A M</u>	ng( del, Eic.) nated ? Y (s) where pi /	Pump_ Sain (N) Pesticides/ NG2		2 <u>G</u>	mp:Ρι	aitic [] Hand [ ump _ Pump _	Gas Lify ( Olsplacement ( Pump
Submarsible Pump	Dedicat Bladder Pon sent (Make, Mo sent Decontarni te Dailer: depth <u>Set A M</u>	$\frac{1}{\sqrt{1}{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{1}}{1}}}}}}}}}}$	Pump_ Sain (N) Pesticides/ NG2	рсвя —	2 <u>G</u>	mp:Ρι	aitic [] Hand [ ump _ Pump _	Gas Lify ( Olsplacement ( Pump
Submarsible Pump	Dedicat Bladder Pun nant (Make, Mo tent Decontami te Dailer: depth <u>Sat A M</u>	$\frac{1}{\sqrt{1}{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{1}}{1}}}}}}}}}}$	Pump_ <b>JSa</b> (N) ump set Pesticides/ NBC F	рсвя —	erbicides	тар:Рі т т	aitic [] Hand [ ump _ Pump _	Gas Lify ( Olsplacement ( Pump

BTOC - Below Top of Casing (or other measurement retorence point)

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Installation		No Hotsen	ONITORI	NGIWEE	<i>esamre</i>	INGELOG		Form Num	258	266
Original Static Water Level	Site/Proje	n _ P	DMT	201		Sample	) ID Number _	Mu-S	. 107	30
Screen interval	Sempled i	by <u> </u>	N. 2054	/GA.Fa	DAD	_ Sample	End date (	6/20/07 im	. 103	\$5
KEOX         KEOX         Are paramiters 20% of purps values?         OF 4 20.44 Color 28 4/18 (Note Color 230)         Introduction of the purps values?         Model to 20 4/2 Color 21 4/2 11 (10.20 248)         Large 10.23 Color 21 4/2 11 (10.20 248)         Number of repurps values?         Sampling Method         Submersation         Submersation         Bladder Cump_         Bladder Cump_         Purps_         Submersation         Bladder Cump_         Purps_         Purps_         Dedicated =         Bladder Cump_       Purps_         Purps_       Purps_       Purps_       Purps_         Sampling Equipment (Make, Model, Etc.)       D1500CAE // CO.250 // D.250 /	Original Sta	tic Water Level _	וך	.10	n BTOC	Final	Static Water Lev	/el		<u> </u>
Time       Temperature       pH       Conductivity       Tarbifity       pD       -Sealaby         02554       2.0.44       C.28       4.45       (160       6.30       2.36         1006       18.83       G-21       412       1       1.20       74.8         1025       18.97       (G-21.412       1.20       74.8       Repurpervision         1025       18.97       (G-22.42.1       42.1       1.40       74.9         1025       18.97       (G-22.42.1       42.1       1.40       74.9         1025       18.97       (G-22.42.1       42.1       1.40       74.9         1125       18.97       (G-22.42.1       42.1       1.40       74.9         1125       18.97       (G-22.42.1       42.1       1.40       1.03       74.9         Sampling Methed       Submerritio       Disclered       Baller, Pump_       Perstellio       1.41	Screen Inter	vai			2		REAK			
IDDR       ISBN 1       Gr 21       412       1	Time	Temperature	pH	Conductivity	Tarbidity	DO		Are parameters 20%	of purge valu	<b>63</b> ? Y
IDDE       IDDE	0954	20.94	6.28	AA9,		630	2.39	Repurge? Y / N	i	
Sampling Mrthad         Submervicie	1008		_	· · · · · · · · · · · · · · · · · · ·	]	10.70	2/18	Number of repurge ve	olumes	
Submersible       Dedicated       Billeder       Billeder	1025	18.71	0.11	421		<u>. 6.36</u>	749			
Lab_Analyses       VOC       Metals       Pesticides/PCBs       Herbicides       TPH       Dioxin/Furans         Other			Andal Eda 1	<u></u>	GARLE	0.2561	1- BAZ	TEL		
VOC     SVOC     Metals     Pesticides/PCBs     Herbicides     TPH     Dioxin/Furans       Other	Sampling Equ	uipment Decontar	minated 7 Y	Ō						
Metals: Filtered	Sampling Equ If pump or dis	uipment Decontar	minated 7 Y	Ō	90-950					
Sola Sample Y (N) MS/MSD Y (N)	Sampling Equ If pump or dis Weather — Lab Analysea YOC	uipment Decontar screte bailer: deg <u>161,5</u> 1	minated 7 Y th(s) where ou WW/4C	(H) ma sei LEAR		HOG F	<u>*F</u>	·		
MS/MSD Y N	Sampling Equ If pump or dis Weather Lab Analysea VOC Other	uipment Decontar screte bailer: deg $\frac{101}{5}$	minated 7 Y th(s) where our CHANAC	(H) ma sei LEAR	PCBs (	HOG F	<u>*F</u>	·		
	Sampling Equ If pump or dis Weather Lab Analysea YOC Other Metats: Filtes	uipment Decontar screte bailer; deg $\frac{101}{5}$	minated 7 Y th(s) where our CHANAC	(H) ma sei LEAR	PCBs (	HOG F	<u>*F</u>	·		
	Sampling Equ If pump or dis Weather Lab Analysea YOC Other Metats: Filtes Field Duplicat	uipment Decontar screte bailer; deg $\frac{101}{5}$	minated 7 Y th(s) where our CHANAC	(H) ma sei LEAR	PCBs (	HOG F	<u>*F</u>	·		
	Sampling Equ If pump or dis Weather Lab Analysea YOC Other Metats: Filte: Field Duplicat Split Sample	uipment Decontar screte bailer; deg $\frac{101}{5}$	minated 7 Y th(s) where our CHANAC	(H) ma sei LEAR	PCBs (	HOG F	<u>*F</u>	·		
	Sampling Equ If pump or dis Weather Lab Analysea VOC Other Other Metats: Filte: Field Duplicat Split Sample MS/MSD	uipment Decontar screte bailer; deg $\frac{101}{5}$	minated 7 Y th(s) where our CHANAC	(H) ma sei LEAR	PCBs (	HOG F	<u>*F</u>	·		

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Installation       MMT       Well Number       MW10         Site/Project       OC-1       And OGWS 1997       Sample ID Number       MW102         Site/Project       OC-1       And OGWS 1997       Sample ID Number       MW102         Project Number       11.36.30 × 0.3, 22       Sample Start date       General Control of the control of the	2905
Project Number 113630 03, 22 Semple Start date 6-21-97 time C Sampled by J Moscow / J Enviry Sample End date time	
Sampled by J Moscar / J Erney Sample End date time	
Original Static Water Level 57,55 th BTOC Final Static Water Level	
	: a voltas? (
Time Temperature pH Conductivity Turbitity D0 Selicity Adviption of Solicity 0.18 Repurge? Y I(N)	
Number of repurpe volumes	s
	-
	_
Submersible : Dedicated : Bladder (Baller ) fal Contributal : Peristaillo   Kand	
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Pump	
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Disping	- 0.2
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Dispute Sampling Equipment (Make, Model, Etc.) Grund Fas (Hazco) 13433	- 0.2
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Pump	- 0.2
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Dispute Sampling Equipment (Make, Model, Etc.) <u>Grund Fas</u> (Hazco) 13433 Sampting Equipment Decontaminated ? (Y) N If pump or discrete baller; depth(s) where pump set <u>n BTOC</u> Weather <u>75°F Hazy</u> <u>Mugsy</u>	- 0.2
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Pump	- 0.2
Pump Bladder Pump Pump Pump Pump Pump Pump Pump Pump	- 0.2
Pump       Pump	- 0.2
Pump       Pump	- 0.2
Pump       Pump	- 0.2
Pump       Bladder Pump       Pump <td>- 0.2</td>	- 0.2
Pump       Bladder Pump       Pump </td <td>- 0.2</td>	- 0.2
Pump       Bladder Pump       Pump </td <td>- 0.2</td>	- 0.2
Pump       Bladder Pump       Pump </td <td>- 0.2</td>	- 0.2

C:27	HIM. M	ONITORI	NGEWEEL	SAMPL	INGELOG	1-1 1-1 10+	258 Form Nymber	268
installatio Site/Proje Project Na Sampled I	$t = \frac{1}{1}$	M172	ED QT SA 0.03.2	/	) Sample Sample	umber e ID Number _ e Start <u>date</u> e End <u>date</u>	MW-11 MW112 6/21/47 17 6/21/97 11000	235
Original Stat	ic Water Level	65	1.27	A BTOG	. Final	l Static Water Le		<u>n BTC</u>
Screen Inter	•		# 8100			PEDX	Are commenter 2017 of numeric	
Time	Temperature	0H	Conductivity	Turbidity	DO	Selfaray	Are parameters 20% of purge v.	alues? (Y
1207	<u>i i i i i i i i i i i i i i i i i i i </u>	553	241	VED N	5.91	28	Repurge? Y	
1214	<u>11.48</u>	<u> </u>	228		5.60	40	Number of repurge volumes	<b>_</b> .
Sampting Eq	Dedica Bladder Po vipment (Maxe, M vipment Decontan screte bailer: dep	lodel, Etc.) ninated ? Y	<u>D1:So</u> / [N] np set	<u>5ABLE</u>	E Centritui Pur BA2() atoc 5 F		taltic Hand Gas Li ump Pump Oisplaceme Pum	nt 🔄 📃
Lab Analyses VOC /- Other	5VOC <u>—</u> — <u>1.0</u> DIU	E Herais	Pesticides/F	PC8s (	Herbicides	трн 🚞	Ołoxin/Fyrans 🚃	
Metals: Filte	red as y / (N)	Unfiltaned :	-	Both 🚞				
	~							
Split Sample	Y IN Y IN							
MS/MSO								
MS/MSO Comments	0		<u> </u>					

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#### CTACHE MONITORING WEELSAMPLING LOG

258 269

Site/Proje	et <u>V~/</u>	<u>7 000</u> 1 20 0	55 1997 3 77				MW121
Project N	umber <u>113</u>				Sample	Start dale	6-21-97 time
Sampled i	by	60gen /	Jenny		Sample	End <u>data</u>	ដែលម
Original Sta	tic Water Level _	71.0	20	<u>_R 810G</u>	Finat	Static Water Le	ve!
Screen Inter	val		h ato	BRD			
Time	Temperature	PH	Conductivity	Turnany	DQ	Selinity	Are parameters 20% of purga values? (
1320	20.35	10,00	215	164.5	657	0.10	Repurge? Y / Ň
		1	! 				Number of repurge volumes
	1						
						·	•
Sampiling M Submersible Pump	Dedk	ated: Bla ump	adder Balle	-/ MCE			Laitic Hand Gas Lift I Ump Pump Displacement Pump -
Submersible Pump Sampling Eq	Dedk Bladder P uipment (Make. P	Yodel. Etc.)	Creund	-/ MCE			
Submersible Pump Sampling Eq	Bladder P	Yodel. Etc.)	Creund	-/ MCE			
Submersible Pump Sampling Eq Sampting Eq If pump or d	Dedk Bladder P uipment (Make. P uipment Deconta	wodel. Etc.) minated ? pth(s) where pu	2000- Creund W N 2009 561	-/ PATE			
Submersible Pump Sampling Eq Sampting Eq If gump or d	Dedk Bladder P uipment (Make. P uipment Deconta	wodel. Etc.) minated ? pth(s) where pu	VIMP_ Crewad VIN IMP Set / Munisch	-/ PUTC	azco)		
Submersible Pump Sampling Eq Sampting Eq If pump or d. Weather	Dedk Bladder P uipment (Make, P uipment Deconta Iscrete bailer; dej 350F	wodel. Etc.) minated ? pth(s) where pu	2000- Creund W N 2009 561	-/ PUTC	azco)	3433	
Submersible Pump Sampling Eq Sampting Eq If gump or d	Dedk Bladder P uipment (Make, P uipment Deconta Iscrete bailer; dej 350F	wodel. Etc.) minated ? pth(s) where pu	Dump_ Crewall IN N Imp set / Mungsen	-/ PUTC FDS (H	azco)	1 <u>3433</u> *	Pump -
Submersible Pump Sampling Eq Sampting Eq If pump or d. Weather Lab Analyse VOC	Dedk Blædder P uipment (Make. P uipment Deconta Iscrete bailer: del 350F	wodel. Etc.) minated ? pth(s) where pu werast	Dump_ Crewall IN N Imp set / Mungsen	-/ PUTC FDS (H	azzo)	1 <u>3433</u> *	Pump -
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Project Nu	mber		1360303	<del>27</del>	Semple	Stari <u>data</u>	6-20-97 ume 1545
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higinal Stati	ic Water Level _		64.3	2 <u>1 BIOC</u>	Final	Static Water Le	rrel ta
icreen Intern	ip		<u>n 1900</u>	6			
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- 1507	17.49	5.87	186	pla	7.67	Mo	Repurge? Y (N)
112)	19.44	5.70	180		7.00		Number of repurge volumes
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Sampled	umberl	<u>(   00   1</u>	<u>lgsyer</u>	1	Sample	End <u>date</u>	6/19/97	tima C	840
Original Sta	tic Water Level	56.	75	t 9000	Final	Static Water Le	vel		
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Time	Temperature	рH	Conductivity	Turbidity	DO	Salinity		s 20% of purge	a values1
	10.64	5.87	652		0.3	0,52	Repurge?	Y , (r)	_
	21.23	5.92	603	I	0.81	0.24	Number of rep	urga volumes	
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BTOC + Below Top of Casing (or other measurement reterence point)

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						314UC 114(8) C8	veiR
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Şempled I	by		Manye.	<u>n</u>	Semple	End date .	6/19/97 ine 1010
		. *	00				
Original Sta	tic Water Level 🔔	106	.95	n BTOC	Final	Static Water Le	vel
Screen Inter	rval		h ETO	6			
Time	Temperature	pH	Conductivity	Torbidity	D0	Salinity	Are parameters 20% of purga value
	1.05	5,a/	217		6.84	0.10	Repurge7 Y (N)
	19.3	<u>577</u>	218		9.10	0.10	Number of repurge volumes
	19.6	574	217		7.09	0.10	
	<u>├</u>		····				
	F 1						
Sampling M Submersible Pump	C Dedica	ted: Bla mp:P	dder — Baile	r. ₩S PVO	Centritus Pur	gal: Perisi np:P	aitic Hand Gas Lift/ ump Pump Displacement U
Submarsible Pump	C Dedica	mp <u></u> P	dder Baile ump_	A PVC	Centritu; Pur	gal: Peris np: P	aitic [] Hand [- Gas Lift/ ump L: Pump L Displacement L Pump
Submersible Pump Sampling Eq	: 🗍 👘 Dedica 🔄 Bladder Pur	mp: P odel. E1c.)		A PVC	Centritu; Pur	gal: Peris np: P	aitic [] Hand [- Gas Lift/ ump L: Pump L: Displacement L Pump
Submersible Pump Sampling Eq Sampling Eq	Dedica Bladder Pur ruipment (Make, Mo	mp:P odel. Elc.) vinated 7 Y	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ter	Centritu; Pur	gal: Peris np: Pi	aitic [] Hand [- Gas Lift/ ump L Pump L Displacement L Pump
Submersible Pump Sampling Eq Sampling Eq	Dedica Bladder Pur uipment (Make, Mo vipment Decontam	mp:P odel. Elc.) vinated 7 Y	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ter	<u> </u>	gal: Peris np: Pi	aitic [] Hand [- Gas Lift/ ump [] Pump [] Displacement Pump
Submarsible Pump Sampling Eq Sampling Eq Sampling Eq I pump or di	Dedica Bladder Pur uipment (Make, Mo vipment Decontam iscrate bailer: dept	mp:P odel. Elc.) vinated 7 Y	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ter	<u> </u>	gal : Perisi np : Pr 	aitic Hand Gas Lift/ ump Pump Displacement Pump
Submersible Pump Sampling Eq Sampling Eq f pump or di Veather	Dedica Bladder Pur uipment (Make, Mo vipment Decontam iscrate bailer: dept	mp:P odel. Elc.) vinated 7 Y	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1 er 1	<u> </u>	np:P 	Pump
Submersible Pump Sampling Eq Sampling Eq I pump or di Veather	Dedica Bladder Pun wipment (Make, Mo vipment Decontam iscrate bailer: dept	mp:P odel. Elc.) linated 7 Y h(s) where pu A ~ /	ump_ / / / / mp set	1 er 1	Pur	np:P 	Pump
Submersible Pump Sampling Eq Sampling Eq f pump or di Veather JB Analyze: VCC YC	Dedica Bladder Pun uipment (Make, Mo uipment Decontam iscrate bailer: dept	mp:P odel. Elc.) linated 7 Y h(s) where pu A ~ /	ump_ / / / / mp set	1 er 1	Pur	np:P 	Pump
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Drighal Static Water Level       72.23       nstoc       Field Static Water Level         Scream Interval       -       -       hstoc       Field Static Water Level         Scream Interval       -       -       hstoc       Field Static Water Level         Scream Interval       -       -       hstoc       Field Static Water Level         Scream Interval       -       -       -       Hstoc         Scream Interval       pH       Costocativity       Toriality       Out       Are parameters 20% of purge values?         Scream Interval       pH       Costocativity       Toriality       0       -       -         Scream Interval       pH       Costocativity       Toriality       2.202       -       -         Scream Interval       (1,2,3,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	SiteProject       DDMT       2QT       SAMPLETLS       Sample ID Number       MW252         Project Number       13/030.03.222       Sample Stan	installation	-			20/11/1/12	INGELOG	Ai .	Form Number		
Sile/Project       DDMT       2QT       Sample ID Number       MW252         Project Number       113630.03.222       Sample ID Number       Sample Start 199.60119/97       UDB 1605         Sampled by       C.M. ZUGY/GA. FALD       Sample End       Sample End       Sample End       Sample End       Sample Start 199.60119/97       UDB 1605         Original Stait Water Level       72.23       nSTDE       Final Static Water Level       Are parameters 20% of purge values?         Scream Interval       —	Site/Project       DDMT_2QT_SAMPLEX/S       Sample ID Number       MW252         Project Number       113630.03.222       Sample Bian data (0.111/07 upp 1605         Sampled by       C.R. ZUGAY       GA. FALO       Sample Bian data (0.111/07 upp 1605         Sampled by       C.R. ZUGAY       GA. FALO       Sample End _sate (0.111/07 upp 1605         Original State Water Level       72.23       nBTDE       Final State Water Level         Crass Interval       PH       Constanting V       Ool (0.111/07 upp 1607)       Are baarmeters 20% of purps values?         Crass Interval       PH       Constanting V       The field V       Ool (0.111/07 upp 1607)       Are baarmeters 20% of purps values?         Crass Interval       PH       Constanting V       The field V       Oo		NDM	1200	TAILA7	Une	Wett N	M	W-25		
Project Number       13630.03.22       Sample Start       Stat $6119/97$ Sim 1605         Sampled by       C.R.70647/6A       FGD       Sample Start       Stat $6119/97$ Sim 1605         Original Static Water Level       72.23       n BTDC       Final Static Water Level       Are parameters 20% of purge values?         Screan Interval       -       ILETOS       Reporter 20% of purge values?         Time       Tamperstarr       pH       Coscocitvity       Turbitity       Diversity         C5271       (12,30,2,20,22,22)       (12,33,274)       Are parameters 20% of purge values?       Reporter 7       (16,5,72,74)         Static Water Level       -       -       ILETOS       Reporter 7       (16,5,72,74)         Static (11,1,5,72,74)       G.2,20,72,20       Y160,114,12,33,274       Are parameters 20% of purge values?         Static (11,1,15,72,74)       G.2,20,72,20       Y160,114,12,33,274       Number of repurge volumes         Static (11,1,12,13,12)       G.2,20,72,20       Y160,114,12,33,274       Number of repurge volumes         Supergrave       Bladder - Pump_ Bunder Pump_ Pump_ Pump_ Dusplatement of repurge volumes       Statisty Pump_ Pump_ Dusplatement of repurge volumes         Supergrave       Displatement Noter       Displatement of repurge volumes	Project Number       13630.03.22       Sample Start       Stat. 6/19/97       time       1605         Sampled by       C.R. ZUGLY       GA. FGLA       Gample End       stat. 6/19/97       time       1615         Original Static Water Level       72.23       n STDC       Final Static Water Level		TT								
Sampled by       C.I. ZUELY       GA. FALO       Sample End       Dig	Sampled by       C.R. ZUELY       GA. FALO       Sample End       DIS 1010       10000       10000       1000       1000 </td <td>Site/Project</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Site/Project									
Drighal Static Water Level       72.23       n STDE       Field Static Water Level         Scream interval	Dispinal Static Water Level       72.23       n BIDE       Field Static Water Level         Screen interval       -       -       ILBOG         Image: Temperature       pH       Conductivity       Toriality       Do         Screen interval       -       -       ILBOG       Are parameters 20% of purge values?         Time       Temperature       pH       Conductivity       Toriality       Do         Screen interval       -       -       -       -       Are parameters 20% of purge values?         Time       Temperature       pH       Conductivity       Toriality       Do	-	+			-					
Screen interval       -       -       ItelGG       First       Are parameters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turiditity       00	Screen Interval       -       Itelefe       First State       Are basenisters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turisidity       00	Sampled by	, <u> </u>	-ZUELY	16.A.	<u>FOLD</u>	Samph	e End	011919/ time 1615		
Screen interval       -       -       ItelGG       First       Are parameters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turiditity       00	Screen Interval       -       Itelefe       First State       Are basenisters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turisidity       00										
Screen interval       -       -       ItelGG       First       Are parameters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turiditity       00	Screen Interval       -       Itelefe       First State       Are basenisters 20% of purge values?         Imme       Temperature       PH       Costactivity       Turisidity       00	Original Static	Water Level	72.	23	n STOC	. Fina	J Static Water Le			
Time       Temperature       pH       Conductivity       Turbidity       Op/Antibity       Are parameters 20% of purge values?            (5.27)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          Parameters 20% of purge values?             (5.27)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          Parameters 20% of purge values?             (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)          (1.2.3)            Parameters 20% of purge values?              (1.2.3) </td <td>Contractivity       Conductivity       <th colspan="2" con<="" td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>~</td><td></td></th></td>	Contractivity       Conductivity       Conductivity <th colspan="2" con<="" td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>~</td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>~</td> <td></td>						•		~	
Inter       Intervention       print       Construint       Construint       Construint       Construint       Construint       Construint       Repurpe?       Y ( $\emptyset$ )         Signal	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					-			Are narameters 20% of ource values?		
Image: State of the second state of	Image: State of the state		Temperatore	pH			<u> </u>		-		
IS34       I.I.I.S       II.I.A       MED       II.Z.33       Z.74         Sampling Method       SSE       Centrifugal       Peristallic       Hand       II.Balder         Submersible       Dedicated:       Biadder       Baller       Tel.E       Centrifugal       Peristallic       Hand       II.Balder         Submersible       Dedicated:       Biadder       Baller       Tel.E       Centrifugal       Peristallic       Hand       II.Baldement         Submersible       Dedicated:       Biadder       Pump       Pump       Pump       Pump       Displacement         Sampling Equipment (Make, Model, Etc.)       DL.SP05ABLE (D.75 (AL BAZ/GL)       Displacement       Pump       Baller       State         Sampling Equipment Decontaminated 7       Y / N       If pump or discrate bailer: depth(s) where Dump set	Image: State of the state		(8.45 1077	<u>6.47</u>					<b>_</b>		
Sampling Method         Submersuble       Dedicated:       Bladder       Baller Z       Tel Z       Peristaltic [] Hand [] Displacement [] Pump	Sampling Method         Submersible       Dedicated:       Bladder       Baller Z       Tel Z       Peritabilic       Hand [ Gas Litv / Pump]         Submersible       Bladder Pump       Pump]       Pump]       Pump]       Pump[		11.5	6.50					Number of repurge volumes		
Submersible Dedicated   Pump Bladder   Pump Bladder   Pump Pump <td>Submersible Dedicated: Bladder Bladder Baller Total Centrifugal: Peristallic Hand Gas Lift/   Pump Bladder Pump Pump Pump: Peristallic Hand Bas Lift/   Sampling Equipment (Make, Model, Etc.) DL SPOSA BLE (0.75 (AL BAZIG)   Sampling Equipment Decontaminated 7 Y Y   If pump or discrete bailer: depth(s) where Dump set</td> <td>   </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Submersible Dedicated: Bladder Bladder Baller Total Centrifugal: Peristallic Hand Gas Lift/   Pump Bladder Pump Pump Pump: Peristallic Hand Bas Lift/   Sampling Equipment (Make, Model, Etc.) DL SPOSA BLE (0.75 (AL BAZIG)   Sampling Equipment Decontaminated 7 Y Y   If pump or discrete bailer: depth(s) where Dump set										
Submersible Dedicated   Pump Bladder   Pump Bladder   Pump Pump <th>Submersible Dedicated: Bladder Baller Total   Pump Bladder Pump Pump Pump Pump   Pump Pump Pump Pump   Sampling Equipment (Make, Model, Etc.) DLSP05A/BLE (0.75 (At BAZ(G)))   Sampling Equipment Decontaminated 7 Y   Yor If pump or discrete bailer: deptn(s) where Dump set  </th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th>	Submersible Dedicated: Bladder Baller Total   Pump Bladder Pump Pump Pump Pump   Pump Pump Pump Pump   Sampling Equipment (Make, Model, Etc.) DLSP05A/BLE (0.75 (At BAZ(G)))   Sampling Equipment Decontaminated 7 Y   Yor If pump or discrete bailer: deptn(s) where Dump set							1			
Weather       T         Lab Analysos       TAL         VOC       TAL         Metals       Pesticides/PCBs       Herbicides       TPH       Dioxin/Furans         Other       Image: Construction of the second of the	Weather     It       Lab Asalysos     It AL       VOC     It AL       PestIcIdes/PC8s     It entricides       It is any to any t								Prema		
Lab Asalysos VOC	Lab Analysos VOC $T$ SVOC $T$ $TAL Metals T Pessicides/PC8s T Herbicides T TPH T Dioxin/Furans TOther TMetals: Filtered T Unlittered Both TField Ouplicates Y NSplit Sampte Y / NMS/MSD Y / N$				~	<u>SABIE (</u>	<u>9.75 (ai</u>	BALIER	Pump		
VOC VOC VOC VOC VOC VOC VOC VOC VOC VOC	VOC VOC VOC Metals Pesticides/PC8s Herbicides TPH Dioxin/Furans Other Metals: Filtered Field Duplicates V N Split Sampte V / N MS/MSD Y / N	Sampling Equi	ipment Deconta	minated ? Y	Ø			BAZIEL	Pump		
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Site/Proje	ct/ 1	2603	. 03.Z	Ŧ	- •		6/20/9	7	1 Jotel
Project Nu	umber	1000	Noral		·	e Stert <u>dila .</u>	6/00/9	Ŧ	1475
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		in	50.0						
Original Stat	ic Water Level 🔔	10-		<u> 11 510C</u>	Fina	I Static Water Le	vēl		
Screen Inter	val		<u>† 810</u> 4	ç					
Time	Temperature	pH	Conductivity	Turbidity	00	Salinity		ers 20% of p	urge values?
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Sampling M Submersible Pump	- Oedic		tadder — Baile	ar X SSC Tel C PVC Z	Centrik	ugai: Peris Japp: F	taltic (1) Han Vmp (1) Pom	1 	Gas LIN/ [ acament L Pump
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BTOC + Better Top of Casing (or other measurement reference point)

Installation	፲ ፲	SMT_	2 QT.		Well Nu	mber	<u>mw-28</u>
Site/Projec	1	UN F.C	1d		Sample	IO Number	mw-282
Project Nu	mber				Sample	Start data	6-17-07 in 154
Sampled by	, <u> </u>	520 <u>,</u> C	. Juny		Sampla	End <u>ore</u>	6-17-97 time 1554
Qriginal Static	: Water Level _	<u>، د ک</u>	54	<u># ATOC</u>	. Final	Static Water Li	
	al Temperature i		Conductivity	C Tarbidity	00	Salinity	Are parameters 20% of purge valu
1453	15.42	5.67	230	4244	8.10	NIA	Repurps? Y / 🕅
1500	15.57	5.6.9	213	16	8.58		Number of repurge volumes
1506	18,55	5.72	207	112011	8.84	MA	- , ·
				<u> </u>	<u> </u>		-
i	;; 		, ,	<u> </u>			1
Sampling Me Submersible	Dedk	ated Btg	idger — Balk	SS T Tel L	Centriiu	al: Peris	staitic 🦳 Hand 🗐 Gas Lift/
Submersible Pump Sampting Equ		ump•P Aodel, Etc.)	<u>amp</u>	sst ref PVCC	Centrilua Pur TECION	np:	Pump 🔛 Pump : Displacement Pump
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#### CITY HIM MONITORING WELL SAMPLING LOG

Form Number MW -29 DOMT Well Number \_\_\_\_ Installation \_\_\_\_ Sille/Project 2~3 QTG.W. JUNN Field Sample ID Number \_\_\_\_\_\_\_ Project Number \_\_\_\_\_\_ <u>6-20-97</u> time Samplo Start date Sample End \_\_\_\_\_ 6-20-97 lime Sampled by C. Ivery G. Gord 75.31 RETOC. # BTOC Original Static Water Level \_\_\_ Final Static Water Level ..... <u>th ettoc</u> Screen interval \_\_\_\_ D C DOM Are parameters 20% of purge values? (Y/)N Sellaine Tarbidity 00 Time | Temperature i ٥H Conductivity Y 7(4) 16 Repurce? 342 1630 6.12 205.89 380 475 556 ີ 76 384 1641 18.00 Number of repurga volumes -4.64 . 9 1 5.52 קר 315 1655 17 I Sampling Method <sup>8ade</sup>X Other Bladder T Pump \_, Dedicated T Bladder Pump \_\_\_\_ Centritugal : Peristaitic 🗔 Gas Litt/ Hand Submersible 7 Displacement : Pumo: Pump (\_\_\_\_ Puma 🔔 Pump \_\_ Pump Disposible Terland Sampling Equipment (Make, Model, Etc.)\_\_\_\_ Sampling Equipment Decontaminated 7 Y / (N) If pump or discrete bailer: depth(s) where pump set \_\_\_\_\_/\_A\_\_\_\_RETOC P. Claron, Lift Breeze, & 92 of 4 Weather . Lab Analyses Herbicides 🚞 TPH 7 Dioxin/Furans 📃 VOC SVOC Metals Pesticides/PCBs 🚞 Other \_\_\_\_ Metals: Filtered Unfittered ) Both 🚞 Field Dupticates Split Sample MS/MSD Comments .

258 283

#### 258 284

Instatio	<u>~44</u>	17				imber	
Site/Projec	ci				Sample	ID Number	MNJOZ
Oralast No	113	603.0	3. E E Ng uv/en				
erojeci no	77	Ison 7	A	_		0.0.1	11,-100
Sampled b	γ <b>()9</b> ///	/	<u>Ng u / en</u>	·	. Sample	End <u>date</u>	$\frac{C/12/94}{C/12/57}$ ime 1515
Original Stati	ic Water Level		74	t, BTOC	Final	Static Water Le	
	val			i			
Time	Temperature	pH	Conductivity	Turbidity	00	Sailolty	Are parameters 20% of purge values?
	18.54	6.12	423		4.23	. 7/	Repurga? Ø/ N
	19.5¥	6.5%	420		4.15	0	Number of repurge volumes
	18.30	5.95	352	<u> </u>	3,85	.17	
	19.00 N.96	5.94	365	·	3.56	. 18	5-total purge volum
	18.92	5.13	1446		3.54	. 2 2 .	Durge Volum
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		_~	at				
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			-			ļ	Repurge? Y / N
		<b>_</b>					Number of repurge volumes
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Sampling N Submersibk Pump	e – Dedica		Bladder Batter	SS Tel Tel Tel Tel Tel Tel Tel Tel Tel Tel	Centril	ugal : Peris /mp:P	taitic   Hand   Gas Litv   ump Pump Displacement   Pump
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### CETRY FILL MONITORING WEEL SAMPLING LOG

258 287

	n <u>DDm</u>		<u> </u>			umber —			
Site/Proje	er offesite	12~4 6	X665 19	47			MW332		
			, 2 2			Start <u>date</u>	6-18-57 time		
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Drininat Stat	lic Water Level _	48,17		<u>n 8100.</u>	Final Static Water Level				
	·44	5	a						
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Time	Temperature	рN	Conductivity	,Turbidlay-	00	Sailnity	Are parameters 20% of purge values?	Ċ	
<u>. 1410</u>	18,15	5.65	178.	(00	7,49	0.08	Repurge? Y /(N)		
	<u></u>	<u> </u>	<u> </u>				Number of repurge volumes		
						i	1		
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Submersible Pump Sampling Ed Sampling Ed Sampling Ed I pump or d Yeather ab Anatyre Not	Dedic Bladder P quipment (Make, M quipment Oecontal fiscrete bailer; dep SVDC 7	minated ? (V) pth(s) where pr 	Imp set Fo F Pesticides/	<u>R</u> PCBs	BTOC.	¥	staitic ( Hand ? Pump Pump	Gas Líft/ Olspiscement Pump
Submersible Pump Sampling Ed Sampling Ed S	Dedic Bladder P quipment (Make, M quipment Oecontal fiscrete bailer; dep SVDC 7	minated ? (y pth(s) where px 	Imp set Fo F Pesticides/	<u> </u>	BTOC.	¥	staitic ( Hand ? Pump Pump	Gas Líft/ Olspiscement Pump
Submersible Pump Sampling Ed Sampling Ed Sampling Ed I pump or d Veather — Aetals: Filt Retais: Filt	Bladder P Bladder P quipment (Make, N quipment Oecontal fiscrete bailer; dep SVOC 7 svOC 7 ered	minated ? (V) pth(s) where pr 	// N Imp set /o / Pesticides/	PCBs Both	BIOC  Herbicides		staitic ( Hand P Pump L Pump L Dioxin/Fura	Gas Líft/ Olspiscement Pump
Submersible Pump Sampling Ed Sampling Ed Sampling Ed I pump or d Neather — Aetals: Filt Seld Ouplica	Badder P Bladder P quipment (Make, N quipment Oecontal fiscrate bailer, dep SVOC	minated ? () pth(s) where px () () Metats 7 () Unflittered:	// N Imp set /o / Pesticides/	PCBs Both	BIOC  Herbicides	¥	staitic ( Hand P Pump L Pump L Dioxin/Fura	Gas Líft/ Olspiscement Pump

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BTOC - Below Top of Casing (or other measurement reference point)

Site/Proje	n <u>DDM</u> et <u>CiU-1</u>	2nd	5605	1997	. Sample	, IO Number _	<u>1W35</u> <u>Mu35</u>
Project N Sampled	umber 113 by	1)20900	1 Emer	 7			<u>6-21-97 sime</u>
Original Sta	ide Water Level 🔔	70.13		<u></u>	Final	Static Water Lev	/d
Screen Inte Time	rval	 Hq	n BTD	C C Treaduality	00	Saligity	Are parameters 20% of purper values
(110	19,321	543	226	162-2	<u>5.48</u>	0.11	Repurge? Y 1
							Number of repurge volumes
				<u>_</u>		·	
	+=						
	1						
iampling M	/elhod		<u> </u>				
Sampling &	e :- Dedica	ստոք <u>Բ</u>	adder Baile	/ PVC⊡	Centritu Put 200) /		állic Hard [ ⊆ ∷/[ mp Pun-p Da <sub>s</sub>
Submarsible Pum; Sampling Ed	e : Dedica Bladder Pl	ump_i F Nodel. Etc.)	Grund F	1			aitic Hardt S. 3.4 mp Pun⊧o Da,
Sampling Ed	e : Dedic: D Bladder Pl guipment (Make, M	ump _ F Nodel, Etc.) Ninated ? (Ŷ	Grundf SN	os (Ha			aitic ☐ Hard [ 2. 3.4 [ mp _ Pun⊧p _ 02,
Sampling Ed	e : Dedic: Dedic: Bladder Pl guipment (Make, M guipment Decontan	ump _ F Nodel, Etc.) Ninated ? (Ŷ	Grundf SN	os (Ha	<u>)  </u>		áitic Hard ( 2. 3.4 m mp Pun⊧p O£,
Sampling Ed Sampling Ed Sampling Ed	e : Bladdar Pl Bladdar Pl guipment (Make, M guipment Decontan tiscrete bailer: dep	ump _ F Nodel, Etc.) Ninated ? (Ŷ	Grundf SN	os (Ha	<u>)  </u>	3433	áitic Herd ( ⊆ ∷./ [ mp Pun.p Dis,
Submersible Pump Sampling Ed Sampling Ed t pump or o Vesther	e : Bladdar Pl Bladdar Pl guipment (Make, M guipment Decontan tiscrete bailer: dep	ump _ F Nodel, Etc.) Ninated ? (Ŷ	Grundf SN	<u>os (14</u> ,	<u>)  </u>	3433	áitic Herd ( 2 3 4 mp mp Pun.p Ois,
Sampling Ed Sampling e : Bladdar Pl Bladdar Pl guipment (Make, M guipment Decontan tiscrete bailer: dep	Indel. Etc.) Nodel. Etc.) Ninated ? (? Nith(s) where pu		<u>os (14</u> ,	2 <i>00)  </i> 1000	3433		
Sampling En Sampling e : Dedic: Dedic: Bladdar Pl guipment (Make, M quipment Decontan discrete bailer: dep	Indel. Etc.) Nodel. Etc.) Ninated ? (? Nith(s) where pu	Pesticides/	<u>os (14</u> ,	2 <i>00)  </i> 1000	3433		
Sampling Ed Sampling Ed Sampling Ed Sampling Ed Sampling Ed Sampling Ed Sampling Ed	e : Dedic: Dedic: Bladdar Pl guipment (Make, M guipment Decontan discrete bailer: dep states bailer: dep ered :	Indel, Etc.) ninated ? (? hth(s) where pu	Pesticides/	<u>, os (116</u> , 	2 <i>00)  </i> 1000	3433	
Sampling Ed Sampling e : Dedic: Dedic: Bladdar Pl guipment (Make, M quipment Decontan discrete bailer: dep storete bailer: dep ered :	Indel, Etc.) ninated ? (? hth(s) where pu	Pesticidas/	<u>о с () та</u> , лв  РСВs <u></u> Воth <u></u>	<u>(CO) /</u>	3433		
ampling Ed ampling Ed ampling Ed pump or o Veather ab Analyse OC ther letais: Filb eld Duplica	e : Dedic: Dedic: Bladdar Pl guipment (Make, M quipment Decontan discrete bailer: dep storete bailer: dep ered :	Indel, Etc.) ninated ? (? hth(s) where pu	Pesticidas/	<u>, os (116</u> , 	<u>(CO) /</u>	3433	

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(C . 7	THUL MC	INITOR	INGAWELL	<b>MSAMPE</b>	INGNLOC		258 290	
		_					Form Number	
Instaliati	on DDNT		<u> </u>	·		iumber		
Site/Proj	Dunn Fiel	1d / 2"	2014/205	1947	. Samp	le ID Number _	MW3662	
Project N	lumber <u>1136</u>	03.0	3,22		Samp	le Start date (	-19-97 time	
Sampled	by Julia	gu)_			, Sampi	le End <u>an</u>	tier,	
	0							
Original Sta	itic Water Level 🔔	153	,33	th BTOC	Finz	al Static Water Le	vei	
Screen Inte	rvai		t BTO	ORP				
Пле	Temperatura i	pH	Conductivity	-Turbidity	DO	Saltaity	Are parameters 20% of purge values?	(
1360	18.80	7.5	185	4-0-1141	4.09	0.09	Repurge? Y / R	
			-				Number of repurge volumes	
<u> </u>	1	-	1			<u> </u>		
<u> </u>			<u> </u>			<u> </u>		
1			•					
Sampling H	iethod		<u>i</u>					
Sampling M Submersible Pump	- Dedicat	ed — 84 np _ F	buder - Baile		Cantrifu Pu	igal Perist	aitic: Hand Gas Litt/	
Submarsible Pump	) — Dedicat D Bladder Pur				Centrifu Pu	igal: Perist mp:Pi	aitic: Hand Gas Lift/ ump Pump Displacement Pump Pump	_
Submersible Pump Sampling Eq	) — Dedicat ) _ Bladder Pur poipment (Make, Mo	del. Etc.) <u> </u>	,		Centrifu Pu	igal : Perist mp :_ Pi		
Submersible Pump Sampling Eq Sampling Eq	) Dedicat ) Bladder Pur wipment (Make, Mo wipment Decontami	del. Etc.)	, )/ N	_ > ₩e		igal: Perist mp:_ Pt		
Submersible Pump Sampling Eq Sampling Eq If pump or di	Dedicat Bladder Pur wipment (Maka, Mo wipment Decontami iscrete bailer: deptt	del. Etc.) nated 7 (V	, )/ N			igal: Perist mp:_ Pi		
Submersible Pump Sampling Eq Sampling Eq	Dedicat Bladder Pur wipment (Maka, Mo wipment Decontami iscrete bailer: deptt	del. Etc.)	, )/ N	_ > ₩e		igal: Perist imp:_ Pu		
Submersible Pump Sampling Eq Sampling Eq If pump or di	Dedicat Bladder Pur wipment (Make, Mo wipment Decontami screte bailer: depth <u>878 F</u> P(L)	del. Etc.) nated 7 (V	, )/ N	_ > ₩e				
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather	Dedicat Bladder Pur wipment (Make, Mo wipment Decontami screte bailer: depth <u>878 F</u> P(L)	del. Etc.) nated 7 (V	, )/ N					
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather	Dedicat Bladder Pur wipment (Make, Mo wipment Decontami screte bailer: depth <u>878 F</u> P(L)	del, Etc.) nated 7 (V (s) where bu (s-)	// N		IDC 	<u>f</u>	Pump	
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather	Dedicat Bladder Pur wipment (Maka, Mo wipment Decontami screte bailer: deptr 809 F P (V 809 F P (V 809 F P (V 809 F P (V 800 F P (V)	del, Etc.) nated 7 (V (s) where bu (s-)	)/ N Imp Set Pesticides/F		IDC 	<u>т</u> е с трк <u>—</u>	Pump	
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather Voc Other	Dedicat Bladder Pur pipment (Maka, Mo uipment Decontami iscrete bailer: deptr 878 F P (U 878 F P (U 978 F P (U)))))))))))))))))))))))))))))))))))	del, Etc.) nated 7 (V (s) where but (s) where but (s) where but (s) where but (s) where but (s) where but (s) where (s)	)/ N Imp Set Peaticidez/F		Herbicides =	<del>т</del> = трн <u>—</u> ТаБіот	Pump	
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather Weather Under Other Metats: Filte	Dedicat Bladder Pur pipment (Maka, Mo uipment Decontami iscrete bailer: deptr 878 F P (U 878 F P (U 978 F P (U)))))))))))))))))))))))))))))))))))	del, Etc.) nated 7 (V (s) where bu (but) (Motals SO.1	)/ N Imp Set Peaticidez/F		IDC 	<del>т</del> = трн <u>—</u> ТаБіот	Pump	
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather Weather Other Metats: Filte Field Duplical Solii Samole	Dedicat Bladder Pur pipment (Maka, Mo uipment Decontami iscrete bailer: deptr 878 F P (U 878 F P (U 978 F P (U)))))))))))))))))))))))))))))))))))	del, Etc.) nated 7 (V (s) where but (s) where but (s) where but (s) where but (s) where but (s) where but (s) where (s)	)/ N Imp Set Peaticidez/F		Herbicides =	<del>т</del> = трн <u>—</u> ТаБіот	Pump	
Submersible Pump Sampling Eq Sampling Eq If pump or di Weather Weather VOC Metats: Filte Field Duplicat Solit Sample	$\frac{1}{2} = \frac{1}{2} $	del, Etc.) nated 7 (V (s) where but (s) where but (s) where but (s) where but (s) where but (s) where but (s) where (s)	)/ N Imp Set Peaticidez/F		Herbicides =	<del>т</del> = трн <u>—</u> ТаБіот	Pump	

للعناقا ومز	lan Di	AMT			164-48 b.		-5 <i>7</i>
						umber e ID Number	MWSF2
Site/Proj Project /		1156.03	.03.47	e			6/18/97 uma 1400
	- IZ	1 ano	Nguy	60			
Sampled	lby	/	Marr	***	Sample	End <u>date</u>	6/1497 ime 1440
Original St	atic Water Lovel 🔔	17	7.42	<u>n BTDC</u>	Final	Static Water L	evel
Screen inte	erval		N 8701	c			
Time	Tomperature i	pH	Conductivity	Turbidity	DO	Salinity	Are parameters 20% of purge values?
	17.62	6.65	151		6.10	0.13	Варилда? У / N
	1.40 1.14	(.72 664	194 -5619		4.04	01	Number of repurge volumes
				·	4.57	<u></u>	- //
	スパント	110			11 11	DIT	يريعه كرار ا
	17.13	1,60	344		4.75	0,17	Totane = 30
Sampilog f Submersibi Pum	fisibod	ited : Blac	ster Baile		Centriluy		tailie Hand Gas Lity Pump Displacement L
Submersibi Pum Sampling E Sampling E If pump or o Weather	Hetbod e Dedica p Bladder Pu quipment (Make, M quipment Decontarr discrete baller: cept Surger et	uted: Blac mp Blac adel. Etc.) unated 7 Y th(s) where pur	scier Baile	/_ PVC= ; /e/ ns	Centritug Pur	gal: Peris np: F	Latitic Hand Gas Lity Pump Displacement Pump
Submersibl Pum Sampling E Sampling E If pump or c Weather Ab Analyst VOC 2 Ditter	Hethod e Dedica p Bladder Pu quipment (Make, M quipment Oecontam discrere baller: cept Success SVDC X	Andel. Etc.) anated 7 Y th(s) where pur Metals	ider Baile Imp Pesticides/F	PVC□ 	Centritug Pur	gal: Peris np: F	Latitic Hand Gas Lity Pump Displacement Pump
Submersibl Pum Sampling E Sampling E I pump or c Weather — .ab Analysic /OC	Hetbod e	uted: Blac mp Blac adel. Etc.) unated 7 Y th(s) where pur	ider Baile Imp Pesticides/F	/_ PVC= ; /e/ ns	Centritug Pur	gal: Peris np: F	Latitic Hand Gas Lity Pump Displacement Pump
Submersibl Pum Sampling E Sampling E If pump or o Weather Ab Analyst VOC Other Metals: Filt Field Ouplica	Histbod e - Dedica D - Bladder Pu quipment (Make, M quipment Oecontam discrere bailer: cept discrere bailer: cept store Svoc Schere ered	Andel. Etc.) anated 7 Y th(s) where pur Metals	ider Baile Imp Pesticides/F	PVC□ 	Centritug Pur	gal: Peris np: F	Latitic Hand Gas Lity Pump Displacement Pump
Submersibl Pum Sampling E Sampling E I pump or o Weather Attainer Actains: Filt Filt Ouplica Split Sample	Hetbod e	Andel. Etc.) anated 7 Y th(s) where pur Metals	ider Baile Imp Pesticides/F	PVC□ 	Centritug Pur	gal: Peris np: F	Latitic Hand Gas Lity Pump Displacement Pump

BTOC - Selow Top of Casing for other measurement reterance point)

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Installation Site/Project Project Nu Sampled b Original Stati Screen Interv Time 0951 0923 0923	et <u>D</u> Imber <u>113</u> Iy <u>C.A.I</u> Ic Water Level _	)MT 5 3630 WELY/	N-57AUS 2QTS 03.7 6.1A,1 3.22 nato 2.24 2.32	AMPUZU Z FOID NOTOC	_ Sample _ Sample	ID Number	MW - 38 MW 382 FTON 97 time 1045 9500 97 time 1105 rel Are parameters 20% of purge values? Repurge? Y / N Number of repurge volumes	<u>h 81</u> Y /
Site/Project Nu Project Nu Sampled b Original Stati Screen Interv	$\frac{D}{CR}$	)MT 3630 WELY/ 13 	2QTS 03.7 G.A.1 3.22 nbtt 244 239	AMPUZU Z FOID NBTOC XS	Sample Sample Sample Final Final J.69	ID Number	MW 382 FTUN 97 time 1045 950 97 time 1105 rel Are parameters 20% of purge values? Repurge? Y / N	
Project Nu Sampled b Original Stati Screen Interv Time 0951 0923	te Water Level ral Temperature 18.90	3630 WELY/ 13 	03.7 6.1 3.22 n bto Conductivity 244 239	E FOID n.BTDC XS Tarbidily	_ Sample _ Sample _ Final _ Final 	Stari <u>date</u> End <u>date</u> Static Water Lev REAX <u>Salietty</u> Zol J 199	PTGIN 97 time 1045 950097 time 1105 rel Are parameters 20% of purge values? Repurge? Y / N	
Sampled b Original Stat Screen Interv Time 0951 0923	ry <u>C. R. 1</u> c Water Level ral Temperature 10.87 18.90	DELY/ 13 	6. A. 3.22 n sto Conductivity 244 239	n.BTGC XC Tarbidily	Sample Final 500 9.69 12.80	End date Static Water Lov REAX SalinHy Zol J 199	Are parameters 20% of purge values? Repurge? Y / N	
Time 0951 0923 0923	lo Water Level ral Temperature LO.87 18.90	13  рн 6.18 (0.22	3.2.2 n BTC Conductivity 2.4.4 2.39	n, 610C XC Tarbidity	- Final - Final 	Static Water Lev REAX Salinity 2019 199	Are parameters 20% of purge values? Repurge? Y / N	
Screen Interv Time 0951 0923 0923	ral Temperature 10.87 18.90	рн (6.18 (6.22	n BTC Conductivity 2.4.4 2.30	XC Tarbidity	12,80	REAX  2013 	Are parameters 20% of purge values? Reporge? Y / N	
Screen Interv Time 0951 0923 0923	ral Temperature 10.87 18.90	рн (6.18 (6.22	n BTC Conductivity 2.4.4 2.30	XC Tarbidity	12,80	REAX  2013 	Are parameters 20% of purge values? Reporge? Y / N	
Time 0951 0923 0943	Temperature 10.87 18.90	рн (6.18 (6,22	Conductivity 244 230	Tarbidity	9,69	<u></u>	Repurge? Y / N	¥,
0923	10.87 18.90	6.18	244		9,69	<u></u>	Repurge? Y / N	Y
0923	18.90	6.22	230	THEicu	12,80	199	-	
							Number of requires instance	
	19.44	(0.29	236	<u> </u>	(1.10		statunes os seberião aditituês	
			<u> </u>			212		
Sameline Me				<u> </u>				
Sameline Me				F	<u> </u>			
Pump		-		"Ž 🚎 KAQ17	E BA2		nampi Pumpi Otsplacementi Pump	_
-	lipment (Make, N		<u> </u>		<u> </u>			
iampting Equ	ipment Decontar	nimated ? Y	i (N)					
l pump or dis	crete bailor, dep				<u>etoc</u>			
Nealber ——	Suu	$\chi + \mu$	oT =	9698		<del>1</del>		
ab Analyzos								
<b>60</b> 17	svoc ==	(Metals)	Pesticides/	PCBs 🚞	Herbicides 🚞	ТРН 🚃	Dioxin/Furana 🚞	
hter TC	<u>, LO4,</u>	10-100	<u>z, CI, 1</u>	NHA +	Fe			
Aetala: Filter	ed	Unfiltered 🗆	_	Both				
ield Ouplicate	s () / N	TAT M	ETALS ON	ULY				
olit Sample								
ISAMSD ()	4Γ N V	IL MET	ais oui	- y				
errementa						<b>.</b>		_

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BTOC + Balow Top of Casing for other measurement reterence point)

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### CIEVE MONITORINGIWEEL SAMPLING LOG

258 293

Installation DDMT	
Site/Project Big 770/ 2nd Glows 1997	
Project Number 1(3603.03.22	—
Sampled by J. Margani J. Emary	

-3143 MAMO-	Form Number
Well Number	Mw 39
Sample (D Nu	mber_171W392
	date 6-20-97 time 1010
Sample End	sata 6-20-97 lima 1610

Original Static Water Level

Final Static Water Level

Time	Temperature	pH	Conductivity	Turbidity	00	Salleity
ן ן ן	$4 \leq 1$	<b> </b>	1 5 1 1	-1	6 (	
1/ତ	L 7.1	1005n	- wat	TOLE	raneter	>
			· · <b>- ·  </b>	$\overline{V}$		
			! }	- <b>V</b>		
1						

ft BTOC

Are paremiet	ers 20% of purge values?	Ì,	N
Rapurga?	Y IN		

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<u>n 8700 </u>

Number of repurge volumes .....

Sampling Method	
Submarsible Dedicated Bladder Centrifugal: Pump Bladdar Pump Pump Pump Pump	Peristallic Hand Gas Ultv C Pump Pump Displacement Pump Pump Pump
Sampling Equipment (Make, Model, Etc.) Crewd Fos (Hazeo) 13433	· · · · ·
Sampling Equipment Decontaminated ?	
Il pump or discrete bader: depth(s) where pump setfi BTOC	
Weather 700F Policy	<u>•</u>
Lab Acatyses	TPH 🚍 Dioxin/Furans 🚞
Metals: Filtered 🗔 🔰 Both 💳	
Field Duplicates () N- metals -> Duplicate	
Split Sample Y (N)	
MS/MSD Y / 🚯	

## CIESCHIM MONITORING WEEL SAMPLING LOG

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258 294

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				40/3 III/II A 4			Form Number
Installati	mn	T	<b>.</b>		_ Well N	umber	mw 40
			26625 19	797		e iO Number _	
Droject M		62.0	3,27	· · · · · · · · · · · · · · · · · · ·			1 15-57
Figuri A			. /		. әнтри	e Start <u>alle</u>	<u>10-71-17 time</u>
Sampled	by <u>Jak</u> a	igan 2	) 3.2 K J. Emory	<u> </u>	Sample	e End <u>date</u>	tima
Original Sta	tic Water Levet _	78.7	9	H BTOC	Fina	l Static Water Lev	ver n 8f00
Screen Inte	val		. <u>n BTO</u>	ORP			
Time	Tomperature	pH	Conductivity	Turbid by-	DO	Saltoity	Are parameters 20% of purge values? 🕜 I
1610	20.10	6,23	785	172	2,70	0,38	Repurge7 Y /AN
ļ	 			-			Number of repurps volumes
		l				<u>.</u>	-
	 		· · · · · · · · · · · · · · · · · · ·	·		 	
<u> </u>	[						
Submersible Fump Sampling Eq	Bladder P		Grundf	- Me	Centrifue Pur zco)/		atlo F Hand Gas Lifv F Other
			· .)				
Sampling Eq	uipment Decontai	minated ? (.Y	у N				
		uth(s) where pi	umpsel	<u>ħ</u> ₿	201	<u>"F</u>	
l pump or di Weather	screte baiker; dep GO®F	uth(s) where pi	umpsel		105	<b>۴</b>	•
l pump or di	screte baiker; dep GO®F	uth(s) where pi	,		<u>.</u>	те : три <u>—</u>	Oloxin/Furans
f pump or di Weather <u> </u> .ab Analyson	screte baiker; dep GO°F	ath(s) where a <u>P(loady</u>	,		<u>.</u>	<u>"</u> Е ТРН <u>—</u>	Oloxin/Furans 🚞
l pump or di Weather AD Analyson	scrate bailar; dep <u>Go°F</u> svoc <u>—</u>	ath(s) where a <u>P(loady</u>	Pesticides/f		<u>.</u>	<u>тр</u> и <u>т</u>	Dioxin/Futans —
l pump or di Weather Ab Analyson VOC Dither Aotals: Filte	scrate bailar; dep <u>Go°F</u> svoc <u>—</u>	nth(s) where on <u>P(locidy</u> Metals	Pesticides/f	*C8s (	<u>.</u>	<u></u> те : трн <u></u>	Dioxin/Futans —
l pump or di Weather Abahyson /DC Dthar Astals: Filte Teld Duplicat	screte bailer; dep <u>GO®F</u> svoc <u></u> red <u>(</u>	nth(s) where on <u>P(locidy</u> Metals	Pesticides/f	*C8s (	<u>.</u>	те : три <u>—</u>	Dioxin/Futans —
l pump or di Weather Abahyson /DC Dthar Astals: Fille Field Duplicat Spth Sample	screte baiker; dep <u>GO®F</u> svoc <u></u> red <u></u> es Y / N	nth(s) where on <u>P(locidy</u> Metals	Pesticides/f	*C8s (	<u>.</u>	те : трн <u></u>	Dioxin/Futans —
l pump or di Weather Ab Analyson /OC Other Actuals: Fille field Ouplicat Sptil Sample	screte bailer; dep <u>GO®F</u> svoc <u></u> red <u>(</u> ) es Y / N Y / N	nth(s) where on <u>P(locidy</u> Metals	Pesticides/f	*C8s (	<u>.</u>	те три <u>—</u>	Oloxin/Futans —
l pump or di Weather Abahyson /OC Dthar Astats: Filte Field Ouplicat field Sample IS/MSD	screte bailer; dep <u>GO®F</u> svoc <u></u> red <u>(</u> ) es Y / N Y / N	nth(s) where on <u>P(locidy</u> Metals	Pesticides/f	*C8s (	<u>.</u>	те . тры <u></u>	Oloxin/Futans —

BTOC - Below Top of Casing (or other measurement reference point)

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### CIRCUM MONITORINGEWEEL SAMPLING LOG

instailatio	<u>" [] [] m</u>	T			W-N M	umber 1/1 (	<u>u; 4)</u>
	a <u>D<del>T</del></u> S <u>L</u>	Igna	ALLIC	00.7			1
		-				e ID Number <u>II</u>	1,0412
Project Nu	umber <u>113</u>	6030	3.22		Sample	e Start <u>daie _</u>	6-17-97 time 1550
Sampled t	»y <u>J</u>	ا ( بمعد	Emory		Semol	e End date	time
••••	$\frac{1}{2}$	· · · · · ·	7				
		11101					
Original Stat	ic Water Level _	07.96		<u>n Btoc.</u>	Final	I Static Water Levi	ei h 810
Screen Inter	val <u>57</u>		67 n BTO	s			
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## CERTIFIC MONITORING WELL SAMPLING LOG

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	vai			£ _				
		cN	Conductivity	<u>DRP</u>	Dů	Salinity	Are parameters 20% of purge values?	E
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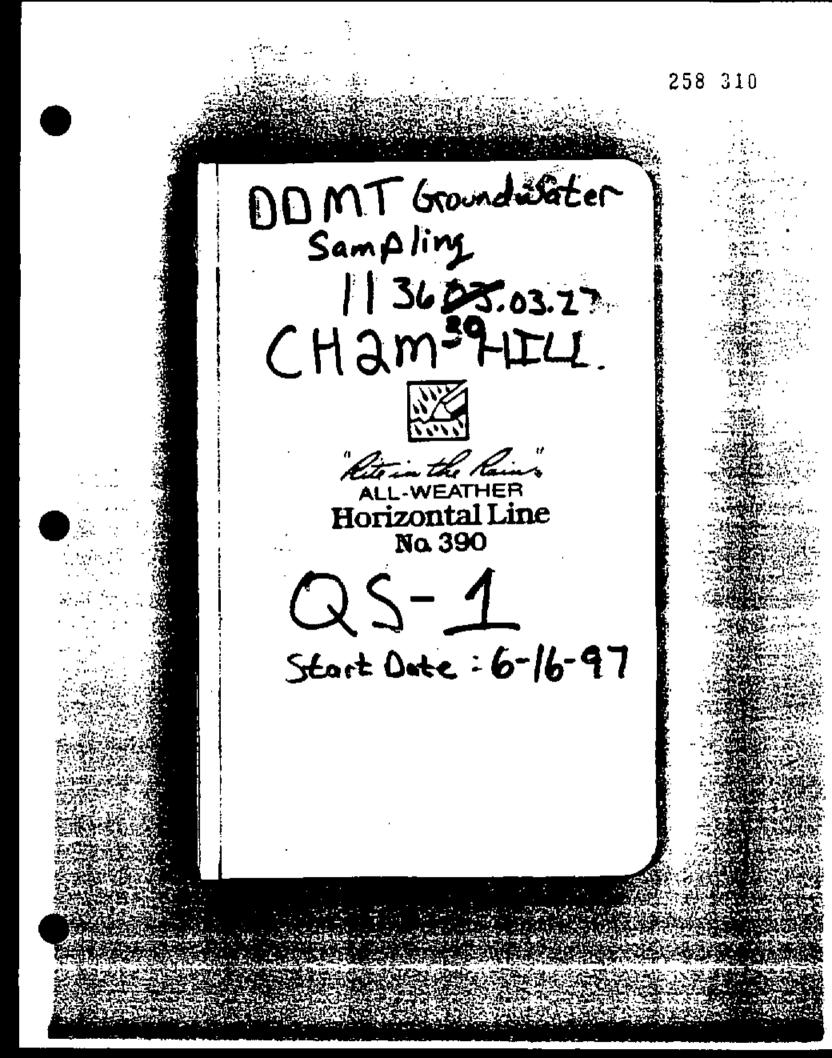
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# Appendix E Field Notes



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Name Jason Glasgow	
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Phone 334 -271-1444	

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#### 258 320 Peg:#113603.03,72 Equipment List, Ί. G.FORD/C. Turey. INDEX PAGE 300 -Los Book For All Sample Team Activities. PAGE NUMBER PROJECT 1 1 PiGennifors Rump # 3371 Control Box 2" 3.5: Rump 4/ 300 Pt COBLE ; . ..... WATER Level meter: HAZCO, # 2248 300 St. M- scope OVM, MODEL 5 503, CHIM# 32231 COLIBERTION GESS HAZCO, ISO BUTYLENE 100 Per ) Lot # 46802

**ロムもってく** 32 22 Servery Civ 6 25 8 A150 56 6 MW 283 5 ļ 20-4NF-1 N F S × - 690 1044 up ded . w/A 2.0 dect the fight of the AND - collet + Miley - Some ^. ب 26401 TURDON ALCOUNT - Stratted Provents Same LUBE - APPRIVED AT MUN 28 F. PCL, M. G. Hand Mathe + 290 Shapke Inad: MW 28 Erail colution Sparkers 80 28 28 56 (1632 . . كراح 10401. Def <u>, B</u>⊄. 100 DDMT , 2 QT . Printie J-Shinple Jarth 10 0 2 da Ş 6.1500 6-17-97 346 X 0/M)≤ ¢o,lo, pph-1 30 4.50 Total vol. Puese -213 0-1-0-20 1820 - 0 FES : 4 C Drw = 155 54 .. 「甘う」 -3 well v6/20 rog Schulple Pumplon Shindles ð1.| ŝ かれる d p Let p. -Colization Bock-For Exponent -Colizations for Purging Euro 1100 - Loading Sampling Guipment TO MOB. to MW -44 AND MW-28 8. 3 wellyds = 3 4 9 = 1 b. 2. CAI = 1/14 0 4 4 5 ... \$ -ohm - 4:44 Turb, LIJA ABABER - 60102 ... \$ 300 - TEREY TEMPLEMEN + EODS BOUZED 0 6. EN DTW = 50,10/(Tw)\_Total Depty = 20,45 (Tw)\_ XHAND BALLED DUG to SAMPLE WATCH Simple Also SEC Plage Auto Sample Data SHTS ... 1030- OUM . GALIZEATION , CONCH-00.0 24: 5, 93, caret 227, 40: 6,70, Temp - 18.37 0 D. Weithde : P. Clarby , HutoFF R. W. = 4 780F -19,58 ~ ~ la 11.1340-500ph Time: MW - 46 (mw 14) 5 ampling G .... | Ang. #.11 3630.03.22 2 wellyel = 20.85 x 1632 = 3.40 5 1 5. STATE OF TE WU + Sham Rullba 17.39 DBMIT, Zath Leven wATER CALICASE 10 ppm ( SEE Proc 1 6-11-97 Pump-DN: N/A \* 0 FE: N/A - Total 101. Pumper = 10.5 P Field Colow, G Ford, G. Iweny. -. 217 - 237 - 211 - 211 - 211 -3vol+4 7.27 4 5.14 + 253 de-17-97 -3

SEC Ruge Daria SA 258 32 19 - 19 2 6-18-975 Comments : Kight Tixes, Kighadody do Sneen i ۵. 95.40 Į ł £ 1425 445 ļ 200 Somplet Time: mul 19 -BIZ - - Q CAM DIMT 243 2T. 2002 18/23 18/24 / 2012 64 622 610 211 2 - Due to 10/ 257 256 1034 842 9,88 roll. 2.251.4506 251 840 ł G.W. 54/19/149 129 Apriled At - 44 4- 191 44 258 331 e F 114/2 2 0 4 × 10 32 ł ; -748.2K. COMPANTS ... TERNEY 270 259 <u>P</u> Per le 1/2 C 102.2 244= 58 04 6-18-97 BALLE 200 1055-55h 0101-20 Reby 223 11.02 1, 2, 5 о v 2 Repx 240 00 (\$<del>6</del> o A Control 표 Į, Dont - 200 QT Granpointer 6-18-17 Diru = 85.28 (Ta) John / Droffi = 98.40 (Tac) Sampley Activities w/ G. mains ERG ... mo duionthy Edipment love Epip ---0810 - OLOGAD Back up Edy powert From <u>\_0900</u> -locaton\_mut-23 , Bunisa Junder will Work with Tewns, to children whene Bave apr AND Water left metul to Richs Telims ... P WATTER: P. Cloupy, & 80°F Light Breech . . . . KUNABLE to F + Runp off : W/+ Total VOI. Pungues : 9. 0 .010 Gratel ..... \$0000 AW-24 , AND ... Lavels . Dre to ord ... is Down ... 1. and 10 = 13. 32 X 1432 = 2. (2. gals. \* 1/2 13 1 ( 0 10 ( DEC PURE 54T ) 0725 - LODOWA Sonplay - Building - Building 132 = & PPM Keuth May ed. (etter 1/11) . 7 P Field Chews. G. Kord, C. Tweny 0930 ALLING AT. MW-20 3 wellicots = 6.51 3015 6.63 6-18-17 - O. pph - MK- 3.8. - 106 Back 620  $\bigcirc$ 

T X X	PH 6.29 68 6.22 6.49 (WASK to RUMP) COND 7.81 7.94 2.28 2.52 000 - 000 000 - 000 Temp 20,29 1000 18.00 18.00 19.00 000 000 - 000	01. 3.60 201.9 199 21 mm+s: 2:50 70 100	1-100 - Left For Field Office . 1710 - Left For At Field Office . Unloading Evigment and Songles . 5702702 Parking Songles Ear. 31. ppment to Qal.	1800 - KERT +		
6) 6-18-97 G.W. Jomplines. 1220-Broke For Linch ZWD QT	1305 - APPEINED at MW-14 OWN=00.0 PPM . BZ=00.0 PPM DTW=71.82. Toth Drpth=78.50 Includ(=6.68 X.1633=1.25 (1.07) w1s	6= 3.15 (3.17) 3015 Baric Due to Water A,9) 5.40 5.48 274 275	14 68 14 68 333 7.50	Comments (110 TURB, andre glar, 100 34060 445 Sample Time AWJ-14 ( Marth 75) Collected DD Also (SEE Burge Dorn SAT)	1530 ARRIVED AT MW-38. OVM= & ppm BZ= & DTW= 133.22 total= 154.00 [wellvol=20.78'X.1632=3.40gmls	, 0 , 10 , 10

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258 324 HAND. Build Dye to Kow lighted courses Brids. ଚ NO SHEEN 935 4-97 93.9 i T MW-B.5. d.h. . & 185 - 101 -B== |0 ppm 훟 Э Х Х (1432)= 1.65 いちょうしょうしょうしょう DDMT-2400T G.W., SPARFLUG. <u>lleel</u> ofertablet. Mut = A A Community of C. Art. Am bench. Charl ~1/ 1/2 × 1/2 × 1/2 = 1/2 -Total D ī 5 CL UN :0 3 Hote Hote LOAD WE AL mw-27.4 7mg; 1135 34ellvo/5= 1 % 1251 - 8013 -10 27 - 6-6-61-51 pru-178.23 r olumi = 10 April-... TW= 196. 55 Lad = 250 14 BOL ONS ITE. No. ų, Brok 6 1315 - 1 Ne l 80 - -X AN Ā ð 6-19-97 0507 - Mode Sangle leit For Mur 27. Part + Witter Level neter . - Brie Listlof Mills It as Single 10 .... CBLE LEFT to locate AND pent MW-9 Dorth, M.S. MSD Ford The metro to at MU-38 ار ارا mu-84, with mu-13 In pur Reld. 1105 Left the mut 27, Also collectua Carlyna D 0905 ARRIVED AT MU-38 (80 Ase 7 10,000 NUDER MULTIP to CIET for Sounding Rever #1203.03.03.22 (Lacares ) - attic tics - Dine ar 6-11 D Wetten: clipic, Norte 05- 200 F. ULDERBER ... Discussed ... Spin Plin & Field Crew, G. Ford C. Inty. 0700 maning methody with 1 To complete well Anging his 50 DONT FUD QT. GW. Sampling 1132 ARRIGE AT. M. -27. H in the 1045 Sample The Mar 38 ( IF whell they water .... MW-34 DUM=D Mult alma 46-61-9 WM-9-MM-D-MW Victor S . <u> 0 m = Ø</u> 6

Di toto 258325 Ruperson 101 Work 121 t (the des book) 1 din 1 toland web opened and 1 them BE= 0.0 Churchechs-Rupp-Icop. Temp Q5-21. Caperko \* 0<u>540-</u>Bmp 0 10CS + Metals andy Pfmp Tubinga Fraphing Equity Mayte (apre-Himp) 02330 actives 121 m/2-19. 1- dm 01. 232 20 # 11303 03 2 # . | cf topo) ch zher 1 -DODING TRUCHSIN PLONING WEIS FOUND Rephires wheys ou Volsteen. - CR EN: #4 Education Jointy - 54 [For 1053] 6-20-57 ; D The ... 71/1.0 ... Total well both = 179, 80 Bet Rupp . Left for my - f O Dur Fleid. 170 C. 1000 P WEATHER : CLEAR -, HOT 8,90-95.95. 1mp11.161. 8. 70 × 10 × 10 × 142. 841 -DONT-ZND QUATER G.W. Sampling. 11401 -Lachine Dari Munti3 0 But 11 4/2 = - 4/2 2 - 3 - 1 -- 1 J Co//rc + rD 5 TEANS ... 59 65 6-02.9 1/4/2 Balices 6|28 | 640 <u>0</u> Rupop : X (a) 0-4K Ý 5 4 5 7 7 7 7 7 (ø3d <u>(18</u> Temp. 5 0 A **₽** Samples Tennes OFFSite Por Febx to debut Supplies, -- when pines Maindo AT Field OffClee, Colled C- = - 2 1605 Sample Three Minings ( mulassa) A Private in +-- & Sping/2 \$ 1620 Left for Gold DEF SC. ---- G.W. Shmplin-DDMTH 2 ND QT 236 225 225 649 18.45 225 214 18.45 19.23 19.15 -Samples Offin te to GAL/MBM 155 12.33 Vol. 1.25 2.50 3.15 296 274 [4,23] Rech いいちょう ちょうちょう 11.12 <u>mw125</u> Reby, 303 6 2 , A A Jen P Sed. PH-<u>8</u> 35 820

258 Ĵ 6 100 moders: Antley Colory MED TUB. No street 1 BZ=10 E 018. i 53.78 mW-182) 9 8 9 į C. Ford i ł 2 2 am " a 1 20 pt ~ 500 भ -5-152 in of the second DDMT - 2ND QUATER õ N N Q 1 (5 0 myer/colour/meb. State States 5-Mint 2-1-1 G.W. Sampling 3 いいろみまご 19 <u>0</u> 255720 してもく イン 8 2 Vol . (z ps] 4 \5 [c.hs] 367 379 7.47 7.00 7. Ļ 18 44 8 0 0 0000 e, 386 ¢ 5 (M) 605ket 6-02-2 191991 5 61 (ax = 1/0) Prote the parts 5.89 12/8/ 3 0 5 63 1 4 6 4 380 3 hullvor5 = 1 while 1015 = 6 Rek - 12212 C, 3 chell Vols¦≞. ... J. 5 ò intel 101 Tetpi 0 0 NAX X 5 4 3 ien p. 0 2 <u>V</u> Cotto ~~~ 5 2000 2000 ξ Æ R. ÷Ģ 2) CONCOMD TOC SUDC, \*\* Dup Svoc Tolded with Lewis Myer, Gave Bill #5 202 640-47 Communes, AN bee, color- no the B. No then ... 1×02755 - For The int, will Arvie 6-21-9 2 21 AND RELOODED FOR D.T. J. 67 88 100 Dept = 80,80. イキンシャ Donded Ruse water Into B2 ≠ Ø... CINICA OFFICE 2 Include 12.42 K. 1632 = 2.03 Adr ... 355 AREived ATT Field Office 2ND QUARTER AT Daw FR /d. MW-15 5.91 Blul. Somplind, 320 Broked Gon Lynch --ہ م 10.60 Sample Times Mur 13. j 209. 8.64 \* Hand Bailer (See my 1435- Areiler ar Juel/vols =. 6..96..... 8.89 206 ADMT 5.99 A.O 5 UNLORPED JOIN DUPLES 9 9 9 エ AFFerber Wells 6-20-197 264 19:02 200 preive - Tank 6,04 <u>9</u>00 8 <u>El-Mu</u> 191 Cano 3 0 0 Reo K\_ OFER/ よくる 240 л Д 62)

258 327 5 Ś Semple to Dily MU-022 (Stre 408 Book CY W 5775 ন্দ্র ode V Ť G.W. Sampling 03.2k. [: G. foeb , C Ityen 14 Bleeker 2 85-50 4 i ñ 84 -320 92.0 and the second state of th 2930 Author at MW-A. Dun-D ې ۶ Christment | Ð parter to the mul-d ₩. 0 V V DDMT-PUD QT 2 Secti D 9 |+ 0 è 5779 @ 77. X 432 ł <mark>م</mark>ا 8 <u>S</u> N 8 58 - I have <u>नि</u> Dibulasko Flerd Ø ŝ 25 4 مأعل No. 17 c: Þ.C DTW= 25.03 õ é q Ozbol Ckil ACd C MU-35.3 6-2-2 wellvoli= 6 03 1/20/5 -3 š すが出た 0730 -3 S Ž [mi <u>2%/5</u>-0<u>750</u> 32 eno. ļ 0 A 9 35 3 É 5 š 1225 Pleder MW-2 - 47W- 25.03 Two- 35.80 6.20-97 \* 125 D Left for Field office The .... weard Jamples, Prock Samples, AND .... 5 \* Called Saceptity, ) holdered in AT Dupu Field the second second second second second second second second second second second second second second second s OF C.C. ....|G.w. 50h plin G. DDMT -12~7 GT EL-LA ş WILDAD - Gow pmakt. Contraction Kappen Cape. 1000 1530 Often 1800 Anglick AT (E)

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240 258 E まくと いようどう <u>भू</u> 11-12-3 ц М Š. 1-1 St. 10 8 ç ž b. b CF 12 c 6.66 200 Parkin <u>م</u> ج 2 ה + לי PPM HATA15. G.W. Sampling DOMT-ZNOT ۰ DUP-FOR PPM 2 Ū, ŝ 533 Vdes|, 1 LIVED AT þ 2. m L 4 1305 wert For Ž 2 Σ રે 18.53 5143 XI 7 S. K2] 230 5 č. ه ودا*زه چ*ه... りにちょう 1.12 ~ ŝ 6-10-12-2 いたがない 전자 Ę Coltetes 2 Security Lo ی 10/2 0 ē 6-21-97 ν N Interivol 9 R X 2 3 walleds 2266 č 0 M 0481 Á 0 <u>6</u>30 <u>|</u>@ /<u>7</u>8 0 କୁଅ ŝ ξ S ΰ Ű **8** 8 NO SHEEN. ł Fine: MUYOS Sample TO, MWYOSS. 0 7 0 7 0 Loningets - Lindt amben 1, 6 get They , 10 gitten Singers. MWHIZ Q . Q 2217 = 124.50 - For well but = 79.25. 1045 AREWED AT MUN-OG OME & μα anzt-Tmad am-d.1 G.W. Spupling - Total Hell Dupth = 202 6.56 202 4 Color, Meb Tan 228 6.78 5.08 Ì 5.38 353 و .306 1235 Sumple Itre: MW/11 X.1235 6.69 18.58\_ Legitody Mw-1 (./(J.J.J. 346 240 2012 5 1<u>98</u> F 4 6.16 38.2 18.85 6.93 5-21-9/7 Sample (1) (b) ≤ · 2 / - 17 ς Υ 50 24 **18** 19 | well vol. = 5 Quelluo (= Temp. 90 COND REAX 1150 u u u DINE 125 . Q ine Mar (relliol Wel. Carl. R Rest ŝ 2 io A A Ч \* Ц Š \* 9 宪

258 3 2 g ÷ i ; : , t 1 ł ì ì NUEDTER: Perapy, Ciph Breece, & BO IT ( 0902 - Coubut H+S Equipment. (Kee H+S Capital) 22.24.00 Equipment, Cleaning up field office. 220 mw. 47. completio AND. Sompling. 6-22-0 G.W. Sameling. 1000 - Paristente D. G W. Maritan Equipartant, ich Baldiro 3 Kenne Huires Teum membered Puting E. USCO. AND ŝ 12-10 KS - STONT Exus prient w ゆうちょうト ひょうち ぼう - Tank - Back AI AL Held of fice Ş DDM-1200 07 winding Confeling Cyripmin ViEnety we R. Baldy O. Lord one Tryck in the Samp ANJ-4 250 ----M03 + Agr.≠/13cc3. d3. 2 2. 2 S ò Pickeb up J.M. Carkey Pretaing Capit Star Ontra 1000-Divernet: Print 1035 - Teun Parte Decar of Al 30 530 2 6

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0×15 Pah & Chino and Tuyo Ngu yen onsite Tryen 0920 Generators 1000 Brogen labeling same. Rottles. 1700 Offsite for lunch 1300 Ret Ind pertinue labels. 1500 logisitien Meeting w/ entire field fam 1630 Merk quer Un 1715 Grunh

c/16/97 2 . Comochenter Song they JE TOTO SAN STOP Gruntes Gruntes level in NO. Å fu 18 D Left Si

c/++/9# Groundenfor Sampling 3 0700 Arrive ousife Rich Baldino and Tupp Ngufen. 0715 Palibrotion / Colib. cherk Op 1SI field instruments Raiging no work clone outside. 0750 Strife dore to rain. 1050 Return to site. In forek. 11:00 load Equip & Hoad to wall 11 31 at well 37 and Set up equip . 1135 Water level & TD # 37 1145 Head Space 3ppm Affept to punge well met Successful. Left well at 1320

Statistics and

4117/54 - Sunge kin Generation MED Bogon compliment MEDO DTW = 47.50 Pt OVM-DOPP TD = 60 At TA= 60 At TA= Mige Volume = 8.5 gai 1440 Degen Aurge 1515 Collect sample MW3DZ Field Parameter Purge col Sol. ORI 6.12 123 423 .21 18.51 14.58 10 4.15 .70 Lø 5.99 302 3.98 -18 18.80 5.97: 355 3.5 (9.00 385 .14 3.16 .18 363 18.96 4.0 5.91 3.84 . 22 01 w/ 4.5 18.92 5,93 YTL 1445 \$7/ .73 14.69 594 . 50 non as parge confitures 1615

Park False Coolers Return 1 Grundhos and 1 Controller 6/17/94 1915 left 9te 

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6/18/97 Groundwater Sconfling 6 OFED Flaire ansite Rich Balatimo 6/18/97 Tuyen Nguyen. Confere Call w/ Eng under berg. ofso Calibrate YSE Probe ( colibration oher 0800 OUM rouling on MW-K Water level DTW = 56.73 ft 75.50 \$4 TDE 0825 OVM on MW-52 0.00 ppm Water level DTW = 80.37 ft TD = 105.00 ft 0535 OUM ON MW-24 00.0 000 Water level DTW: 106.95 (16,83 YA 3

6/18/97 Growshister Sayling 7 900 Pron heary fuling to Joson / Sim for MW-55 0940 Argin Ind attempt to Sompte MW-ST. 100 hang das not acrt. 1200 OAsile for lunch 1245 Leturn to well Mars Continue purge 1400 Sample will NIN-37 1515 Arrive at well Muse 600 began luige Nov-52 1620 Collect Sample <u>>>/ F</u>

6/18/97 Sory ling & 1645 Empl drum. MV.SF Field Pa. -----De sal Olo 17.62 6.65 151 (10,1 Q23 0 6.10 17.77 6.72 4.04 0.11 -340 194 6.69 17.44 4.87 017 349 -761 t' 1.75. 0.17 - 31.6 348 3. 17,13 6.60 MW-52 Field Parans 50 ORP Purge Trong pH 945 044 18.61 えん 5.91 /¥ £0 187 5.71 .5,69 3,22 Dalf 172.9 t 5.46 3 895 3,03 0.44 145.2 14.54 563 302 3.5 995 24 149.0 1859 1720 Empty truck 1810 Arrive Felte Tracking # 8126332260

9 Greeke Lieb Soldino oper Tuyon [4]. at Murk on login at MW-16 0850 mob Sample, Chave u / / Field Mark Aur Sol DRI del Fm/ 50 R 187.4 0.32 20.64 652 0.93 <u>/</u> 2 387 5.92 603 0.8 0.27 193.9 21,27 5,93 988 0.18 0.19 21.37 181,3 3 - Mar-24 0700 Begin Jurge  $\alpha$ at MW-EY 0950 aram Erelo ር , / OKP st aip 217 196.3 59/ ٠XY 20.1 7.10 ζ. 19,3 57C 0.10 234.5 76 3 19.6 7.07 0.10 245.1 5.H zıŦ

c/10/07 Groundwater Complime 10 1030 Bayin furge Mr. 50 OŬ, water 129.18 TD= DTW = 85.60 1100 Begin ... Clear Field 2 opp Temp £ Ø 53F 19.d /i 2: 3 3.64 173.4 z **C%** 19.5/ 2.65 5,73 GZT. 137.5 .20 19.24 697 Z.16 569 . 34 198.3 3.5 7050 14.24 721 1.93 . 55 56Z 5.58 735 206.6 40 1.92.36 19.24 11.30 Collect NW-50 gles from Sample Collection 11.45 Fraish MW-50 TAL C 1205

6/19/97 Groundusta Sampling /) MW-34 1370 OUM of DTW= 137.78 1345 Bajin Purge Mw-39 15 19 Resume, purge after Hygon tubing burg. 1530 Sample well MW. IV Field farometers 115.2 71,95 176 5.88 0.08 1326 3 5.78 zi,18 175 Ço≠ 149.7 ፈማ 20,96 5.74 175 503 198.8 0,08 Tygon Labina bury Volume. hos and Volur 240

6/19/97 Groundacher Sampling 12 1600 Finish Sampling Emplie drums 1700 Emply truck a pack coolers fin A: 11 out 1800 Drop of 100/005 ch Feel En # 812 633 2071

6/20/97 Reh Bel 0700 Arrive onsil TYUGA Nguyrus - logal Loup Colibro and deton equi I ment. Turbidimeta Turb (NTU und-Mw-16 1.93 MW-36 193 MW-32 55.0 MW-UD 8.80 2200 MW.ZZ MW-50 11.0 16.5 MN - 5I 92.0 Mw.34 75.7 MW-U9 MW-14 7. 200. (94.5 MW-TS Mw-48 76. Z MW- 33 137.3 MW-37 IF.O 5.15 NW-23 MW-52 2.50 18/W-24 **X**200 MW-19 200 113.8 New - 46 6700 60.7 \_Mw- 28 200

Tuibidity (Mu) url \_MW-30 39.2 \_MW-20 2200 0815 OUN Fooding on - MW-51 - D. 4/1/m - Wester leve/ - TD: 69.82 - DTW: 36.70 Begin Purge Anw-SI 0900 Collect Sample Mw-51 Field Parameters MW-5/ Purge Tomp pH SC DO Sal ORD 18.4 S.T. TH 1945 Z 1841 5.64 Tel 6.45 13 TOLS 17.43 5.62 279 5.82 .15 201.9 3.5 18.43 5.62 778 5.62 13 211.2

6/20/97 yangling OUM 15 MW-04 1005 - 0.00 ppar - water 104/ TD= 81.88 DTN = 69.80 1010 Beg 11 MN, unchion ing dolunnos aramet assum ÷. Constant 1040 Sample 100 OUM 1.5 Mw. 54 water levels 136.00 100. % DTW = 74.48 110 Regin parge MW-S Lightly Jurbia 11 25 Sample MW-54

4/20/97 Grounduster Sompling 16 1140 OUM on NW-3/ 0.0 ppm unter /ere/s TD: 86.00 ATN: 64.18 to buy more ope 1350 DUM MW-26 D.0,000 Water / Evel TD= (13.20 DTW= 100.02 1405 Begin Birging Murte Using asiler. 1420 Sample MW-26 1500: Purge will MNV = ] 1570 Sample MAN'J 1545 Empty Hurge Drums Vel 126

The second second second second second second second second second second second second second second second s 6/20/97 Groundarty Sorgeling 17 aquipment, Pack Colers 1705 Turbidiry Resings Tuchidity (NT4) well Mu-54 186.0 MW-44 6.20 103.5 MW-45 MW-3/ 173.4 MW-04 2000 115 MW-39 21,3 MW-51 MW73 Zzco MW-ZI 6.25 N-V-26 Trad 5200 Munog Mar 15 Sico Mur C9 Zrai 4 512 633 2056 1900 ELT

6/21/97 Groundwater Sampling 18 0800 Arrive at Fedler to pick up tubing OUM MW-3 0900 O.O pm water Trucks 1)= 77.49 DTW: 62.18 0910 Purge well MN-05 0980 Sampte well MW-03 1000 OUM at MWOF O.Opport 77.20 ATW: 6308 10 20 Begin furge on MW-OZ 1010 Sample will MN. of .

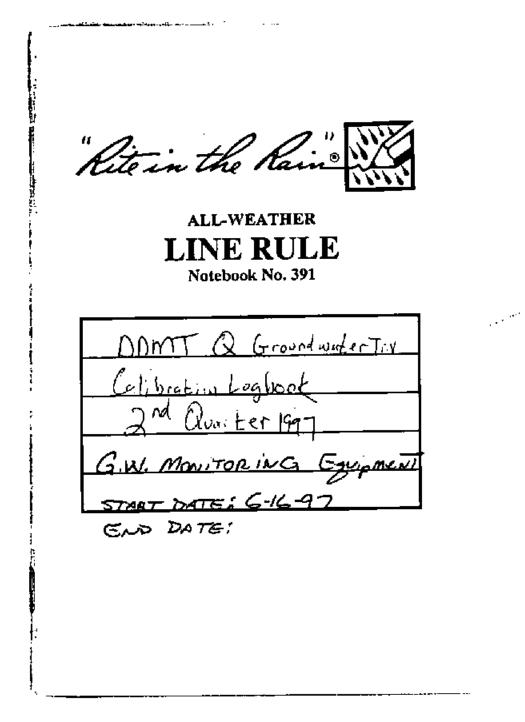
rentation in station of Stations in the station of . 6/21/99 19 1045 or Mu-08 OUM m voren leve - 68.30 LTN: 57.59 Begin purge NW-08 1050 1110 sample MW-08 (130 OUM of MW-32 1.2.00 58.96 12 1140 Purge MW-32 120 Simple MW- 52 Un loa fruck. 1230 for Junch Pump Eut parge o 1300 F

The Contemporal Statistics - series arises Ground 6/21/97 20 Gampling fruck Solt 1400 park 10 9, 1430 م د شکر CULCM collec 01 Same /or corlier in the Temp Cons soll. 299.7 5.9/ 1.06 NWOJ 313 18.37 313.8 6.34 anu-of 13.6 303 5.92 8.26 266 327.9 N=-08 (%13 5.9Z Mu-32 20117 684 5.64 7.09 778.0 1500 Turbidity Mcosurements well Turbidity (NTH) MWOZ 109.5 199.2 NRU-11 **₩**200 MN-05 M--35 25.5 ≥z∞ Maror MW-42 80.Z 154.0 MW-12 NAN-10 28.0 MW-52 7200

6/21/97 Grandwoh Sample Turbidity, Cont ีน Turbidity. Turtility (NTU) Well Mw.03 700 700 Mu-07 MW-06 7.5 1600 69 1600 69 H1,5:11 RIZE 35 2054 to

studget Groundaating 22 1000 Onsite. Calibrale instrumet load truck prepare to Gampling MW47. Part cquipment to ship back to Mazco 1045 DUM realine on murit 0.0 ppor mater ports TD = 121.72 3gellers/volue DTW = 102.12 under (0) = 19.59 A 0.16 105 begin purge Mary7 Johane long pH Temp DD ORP 0 153 S.VT 73.0 1.18 80.3 152 5.76 19.7 ZIY 100 JZY 5.85 14.97 5.33 130.8 z 353 5.90 14.35 5.57 138 3.5 -357 594 19.40 5.50 140 120 Collect Sample MW-47 STIT

6/12/57 Groundwater Sompling 23 140 Faphy purge Journs. 1250 Turbiolity MW-47 9.55 NTU



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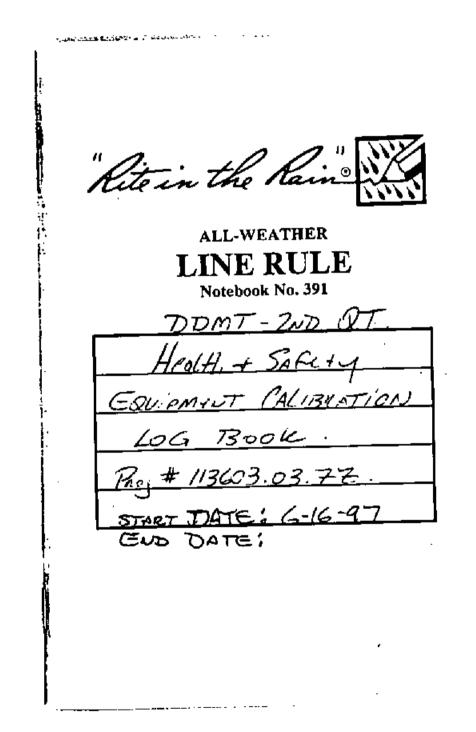
6-17-97 Sweeling - DOMT Calibration of Survey (3) YSI 610.0 Ser# 173826R With way hit # 1 Rugeting all - H all is and a Beeling of march #3 4/152 01h 858 4.0 0.45 12 10 11 200 14.00 121 115 and 11180715 4110 1 244 Lewall Hg Hg Hg Hg Calibration Check Factory Socies with 1 attennent - Lendry eth 7 10.0 7.0 8,7 1007 16 10.0 - H. Sumere 6-17-97 Junday - DDMT. Callration of Indunus 1 YST 610 DM Solt 167311R O738 Collination of YSI 610 D Serth 1776840R Prove YSI 600KL-B-M Serter Figuro 23594 Calibration Stanlords mileos240 PH= 700 Eagle Pricher Lot# C8013034 PH=4.00 Eagle Pricher Lot # C8013034 PH=4.00 Eagle Pricher Lot # C8013034 Fahag 2000 Card Meber 1000 45 1014 Piobe KSE bOUN-B-M. SN 96 HOUT4AR. Expole M Lot 17 Full YSE ZOBELL Sol

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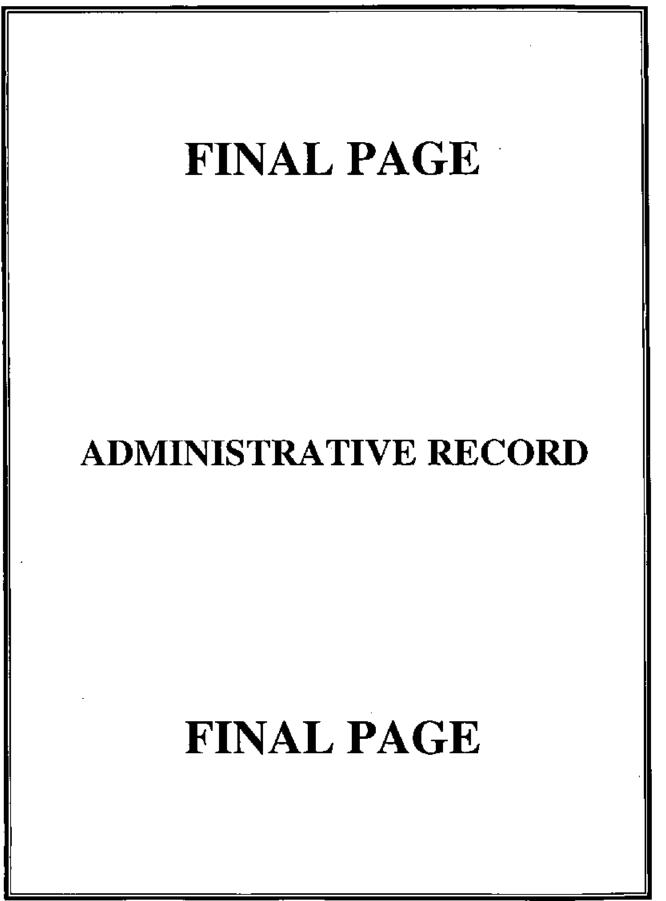
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6-18-47 # 1 Zeroco 00.0 ...... C.al. GAS = 100.0. Frm DONT- Gw. Sampling #1. Terzed = 00.0 .... Cal. GAS = 100.2 ppm #4-Col. GAS. SPAY=100. C. 60.0 . . 1.00.5. BOMT END QT 8 36 101.0 = 100.2 ppm = 101.3 ppm •••• # 1. Zeroeb ..... Cal. GAS = 101.0 ppm 69,J ----2.0 0.1. G. Ford 2 pixru = 100 DUMT-20 QT G.W. SAMPING. A A 620.97 0700- 9. 602. 6-19-07 0700 - G. Ear D. #4\_Catess 100pm -----#3.2.4. 00.0 #4+ Cal. GAS. 6-20-97 ... 0.100 - G. Foild .. 6-19-07 к # 4 V +1 ZLADED = 00.0 CAL, GAS = 101.0 PPIN \_\_\_\_ 6-17-97 H45 Equipment. Calisantion 5 Rept 113603.03.22 () OVM - MODEL SEOB CHEM # 3101 DDMT - ZND QT G.W. SAMPING . 3 17111 Rat PUS CHIME 3559 . . . . #5) am - moder 580 B , and to # 16 282 -276 # 3 - 4 = 00.1 - Cal. GASE 99.6 ppm .... 4.8.2.8 C ( Cal. GAS. HAZCO GAS LOT # 46 802 ----@ OUM - MODE 1 580 B. CHIM # 3223 -100ppm ISOBUTYCENE Col GAB = (#4) 5PAM = 10.0 0700-1m. G. FORD . 0

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