PLUMLEY ENGINEERING, P.C.

Civil and Environmental Engincering

8232 LOOP ROAD, BALDWINSVILLE, NEW YORK 13027

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August 29, 2003

Mr. Harry Warner NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 615 Erie Boulevard West Syracuse, New York 13204-2400

RE: Pamelia Nice-N-Easy Former CITGO Alaskan Oil Site DEC Spill No. 9704043 Voluntary Cleanup Agreement No. D7-0002-95-09 Project No. 2003028



Dear Mr. Warner:

The following information summarizes the groundwater sampling and analysis event conducted at the above-referenced site on June 23, 2003.

GROUNDWATER SAMPLING AND ANALYSIS EVENT

- Converse Laboratory, Inc. (CLI) field personnel measured the water levels and completed free product checks in monitoring wells MW-5 and MW-6 and TW-2, TW-3, TW-8, TW-9 and TW-10. These wells are located south of the Nice-N-Easy (former Alaskan Oil) site, across NYS Route 342. Refer to the attached *Site Map* for the location of the wells.
- Historical groundwater level information indicates these wells are downgradient of the site.
- > No sheen, free product or petroleum odors were reported in any of the wells.

- CLI also collected a groundwater sample from each of the monitoring wells. The samples were submitted to Environmental Laboratory Services, Inc. (ELS) for analysis for volatile organic compounds (VOCs) per EPA Method 8021 (STARS¹ compounds).
- The only compound present in any of the samples was methyl-tertiary-butyl ether (MTBE). Concentrations ranged from non-detected to 303 parts per billion (ppb). Refer to the attached *Table 1 - Groundwater Samples - EPA Method 8021 [STARS]* for a summary of the analytical results.
- The MTBE concentrations were compared to the historical results of samples collected by others. The results indicate the concentration of MTBE is declining in all wells. Refer to the attached *Table II - Historical MTBE Concentrations* for more information.

For additional information, refer to the attached Laboratory Analytical Results.

EXPOSURE EVALUATION/RISK ASSESSMENT

The purpose of this qualitative evaluation was to assess the potential pathways for exposure to the site contaminants. This evaluation considered the current site conditions, as well as reasonably anticipated future site conditions. For each potentially exposed receptor, site conceptual exposure scenarios were evaluated to determine the exposure route, medium and exposure point. Where potentially completed pathways were indicated, the risks associated with possible exposure were evaluated.

Summary of Compounds of Concern

The above data indicate the following compounds and media should be considered in the exposure evaluation:

¹New York State Department of Environmental Conservation (DEC) Spill Technology and Remediation Series (STARS) Memo #1 – *Petroleum-Contaminated Soil Guidance Policy*, dated August 1992.

- ➢ MTBE in shallow groundwater.
- MTBE in subsurface soils.

Current Use

The site is located in a commercial area of the Town of Pamelia on NYS Route 342, adjacent to Interstate 81. The property has a history of use as a gasoline station and automobile repair shop. Commercial businesses occupy the adjoining properties along both sides of NYS Route 342. The area adjacent to the wells sampled as part of this sampling event is vacant. The Town of Pamelia provides municipal water supply distribution to the site.

Future Uses

No uses other than for commercial purposes are anticipated for the foreseeable future.

Receptors

Under current and future conditions, the following receptors were selected for evaluation of potential exposure to the contamination at the site.

- On-Site Commercial Worker
- On-Site Construction Worker

Site Conceptual Exposure Scenarios

An analysis of the potential exposure pathways is detailed in the attached *Table III-Site Conceptual Exposure Scenarios - Existing Conditions* and *Table IV- Conceptual Exposure Scenarios - Future Conditions*. The scenarios with completed exposure pathways are related to potential exposure to

subsurface soils and groundwater contaminated with low levels of VOCs on the site and in the downgradient area across NYS Route 342. Potential receptors with completed exposure pathways were determined to be current and future on-site and off-site construction workers and future off-site office workers. Refer to Tables III and IV for additional information.

Risk Assessment

Where we concluded a pathway might be completed, we used the DEC's draft Tier 1 Risk-Based Screening Levels² to assess the exposure risk posed by the residual contamination (refer to the attached *Table V – Tier 1 Risk-Based Screening Levels – Soil Analytical Data* and *Table VI – Tier 1 Risk-Based Screening Levels – Soil Analytical Data* and *Table VI – Tier 1 Risk-Based Screening Levels – Groundwater Analytical Data*). The concentrations of VOCs in the soil were assumed to be the same as groundwater concentrations in the area of concern. The estimated soil concentrations were all well below Tier 1 screening levels for all potential exposure pathways. Similarly, the concentrations of VOCs in groundwater in the area of concern were also well below Tier 1 screening levels. Based on this methodology, no human health risks were indicated for the current or anticipated future conditions.

CONCLUSIONS AND RECOMMENDATIONS

Based on the above information, we offer the following:

1. The groundwater analytical results indicated low levels of MTBE to be located in the area under the roadway south of the former Alaskan Oil CITGO station. The extent of contamination was limited in the downgradient area, since wells further to the south by only

²DEC Draft Interim Procedures for Inactivation of Petroleum-Impacted Sites, dated January 1997.

a few feet had non-detected levels of MTBE. No other petroleum compounds were detected in any of the wells.

- 2. These results indicate a continuing declining trend in the MTBE concentrations in the downgradient area.
- 3. These results indicate that prior remedial activities on the site have effectively removed the source of the groundwater contamination.
- 4. We recommend that DEC Spill No. 9704043 should be closed, based on the findings of this investigation and the exposure evaluation/risk assessment, which indicate there are no significant human health risks associated with the low levels of residual contamination.

Please review the above information and give us a call if you have any questions or comments.

Sincerely,

PLUMLEY ENGINEERING, P.C.

Dale R. Vollmer, P.E.

DRV/cas Attachments cc: Mr. John MacDougall (w/attachments)



FORMER CITGO STATION ALASKAN OIL, INC. Town of Pamelia, New York DEC Spill No. 9704043

TABLE I - GROUNDWATER SAMPLES - EPA METHOD 8021 [STARS¹] Summary of Analytical Results

Date Sampled: June 23, 2003

Matrix: Groundwater

	State			Monite	oring Well L	ocation		
Compound	Standard ²	TW-2	TW-3	TW-8	TW-9	TW-10	MW-5	MW-6
	(µg/L)			Compoun	d Concentra	tion (µg/L)		
1,2,4-Trimethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	<u>ND<1.0</u>
1,3,5-Trimethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzene	0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7
Ethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Isopropylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Methyl-tert-butyl-ether (MTBE)	10	244	14	ND<1.0	ND<1.0	ND<1.0	303	3
Naphthalene	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Propylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
sec-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
tert-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Toluene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Xylene, m+p	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Xylene, o	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	<u>ND<1.0</u>	ND<1.0
Total VOCs		244	14	ND	ND	ND	303	3

Notes:

¹ DEC Spill Technology and Remediation Series (STARS) Memo #1 - Petroleum-Contaminated Soil Guidance Policy, dated August 1992.

² State standard is in reference to the NYSDEC Division of Water's Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water

Quality Standards and Guidance Values, reissued June 1998.

 $\mu g/L$ micrograms per liter (equivalent to parts per billion, ppb)

ND< Not detected less than

--- No promulgated State Standard

Compounds that exceeded State Standards are denoted in **BOLD**.

FORMER CITGO STATION ALASKAN OIL, INC. Town of Pamelia, New York DEC Spill No. 9704043

TABLE II - HISTORICAL MTBE CONCENTRATIONS

		-	MT	BE CONCEN	TRATION (ug/L)		
DATE				LOCA	ATION			
	MW-5	MW-6	TW-1		TW-3	TW-8	TW-9	TW-10
07/17/01	800	<5	NI	NI	NI	NI	NI	NI
07/18/01			NI	NI	NI	NI	NI	NI
07/19/01	620	<5	NI	NI	NI	NI	NI	NI
09/13/01	800		107	625	79			
10/11/01		7.5				<1	<1	<1
06/23/03	303	3		244	14	ND	ND	ND

Notes:

 $\mu g/L$ micrograms per liter, equivalent to parts per billion (ppb)

--- Not sampled

NI Not installed

Values above NYSDEC Standard (10 μ g/L) denoted in **BOLD**.

No other compounds under EPA Methods 8021 or 8270 were detected in any of the wells.

TW Series wells tested only for EPA Method 8021 plus MTBE (no other compounds detected).

	Exposure Risk	VN.	AV	- VN	٧N	NA	NA	NA	NA	NA
Reason for Selection	or Non-Selection	Contaminated soil not in area of structures	Municipal water supply	Contaminated groundwater not in area of structures	Municipal water supply	Municipal water supply	No residential occupancy in area of groundwater or soil contamination	Municipal water supply	No residential occupancy in area of groundwater or soil contamination	No residential occupancy in area of groundwater or soil contamination
Pathway	Complete?	No	No	No	No	No	No	No	No	No
Exposure Route, Medium and	Exposure Point	Inhalation of volatiles from subsurface soils	Ingestion of shallow groundwater	Inhalation of volatiles from shallow groundwater	Dermal contact with shallow groundwater	Dermal contact with deep groundwater	Inhalation of volatiles from subsurface soils	Ingestion of shallow groundwater	Inhalation of volatiles from shallow groundwater	Dermal contact with shallow groundwater
Potentially	Exposed			On-Site Commercial Worker				Off-Site	Residential	

TABLE III - SITE CONCEPTUAL EXPOSURE SCENARIOS - EXISTING CONDITIONS*

FORMER CITGO STATION

Town of Pamelia, New York DEC Spill No. 9704043

ALASKAN OIL, INC.

NA Not applicable

Plumley Engineering, P.C.

Project No. 2003028

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FORMER CITGO STATION ALASKAN OIL, INC. Town of Pamelia, New York DEC Spill No. 9704043

TABLE III - SITE CONCEPTUAL EXPOSURE SCENARIOS - EXISTING CONDITIONS*

Potentially	Exposure Route, Medium and	Pathway Complete?	Reason for Selection	Exposure Risk
Exposed	Exposure Point	Complete?	or Non-Selection	
	Inhalation of volatiles from subsurface soils	Yes	Excavation activities could expose contaminated soil	Soil contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
On-Site	Ingestion of shallow groundwater	Yes	Accidental exposure during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
Construction Worker	Inhalation of volatiles from shallow groundwater	Yes	Contact during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
	Dermal contact with shallow groundwater	Yes	Contact during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers*
	Inhalation of volatiles from subsurface soils	Yes	Excavation activities could expose contaminated soil	Soil contamination levels are below Tier 1 Risk-Based Screening Levels for commercial workers**
Off-Site	Ingestion of shallow groundwater	Yes	Accidental exposure during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
Construction Worker	Inhalation of volatiles from shallow groundwater Yes		Contact during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
	Dermal contact with shallow groundwater	Yes	Contact during excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**

* Building used as car dealership.

** DEC Draft Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997.

FORMER CITGO STATION ALASKAN OIL, INC. Town fo Pamelia, New York DEC Spill No. 9704043

TABLE IV - SITE CONCEPTUAL EXPOSURE SCENARIOS - FUTURE CONDITIONS*

Potentially	Exposure Route, Medium and	Pathway	Reason for Selection	Exposure Risk**
Exposed	Exposure Point	Complete?	or Non-Selection	
	Inhalation of volatiles from subsurface soils	Yes	Potential low-level contaminated soil in area of future structures	Estimated soil contamination levels are below Tier 1 Risk-Based Screening Levels for commercial workers**
On-Site	Ingestion of shallow groundwater	No	Municipal water supply	NA
Worker (assumes the building will	Inhalation of volatiles from shallow groundwater	Yes	Potential low-level groundwater contamination in area of future structures	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for commercial workers**
be occupied)	Dermal contact with shallow groundwater	No	Municipal water supply	NA
	Dermal contact with deep groundwater	No	Municipal water supply	NA
	Inhalation of volatiles from subsurface soils	No	No residential occupancy in area of groundwater or soil contamination	NA
Off-Site	Ingestion of shallow groundwater	No	Municipal water supply	NA
Residential	Inhalation of volatiles from shallow groundwater	No	No residential occupancy in area of groundwater or soil contamination	NA
	Dermal contact with shallow groundwater	No	No residential occupancy in area of groundwater or soil contamination	NA

NA Not applicable

FORMER CITGO STATION ALASKAN OIL, INC. Town fo Pamelia, New York DEC Spill No. 9704043

TABLE IV - SITE CONCEPTUAL EXPOSURE SCENARIOS - FUTURE CONDITIONS*

Potentially	Exposure Route, Medium and	Pathway	Reason for Selection	Exposure Dick**
Exposed	Exposure Point	Complete?	or Non-Selection	
	Inhalation of volatiles from subsurface soils	Yes	Outside excavation activities could expose contaminated soil	Soil contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
On-Site	Ingestion of shallow groundwater	Yes	Accidental exposure during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
Construction Worker	Inhalation of volatiles from shallow groundwater	Yes	Contact during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
	Dermal contact with shallow groundwater	Yes	Contact during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers*
	Inhalation of volatiles from subsurface soils	Yes	Outside excavation activities could expose contaminated soil	Soil contamination levels are below Tier 1 Risk-Based Screening Levels for commercial workers**
Off-Site	Ingestion of shallow groundwater	Yes	Accidental exposure during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
Construction Worker	Inhalation of volatiles from shallow groundwater	Yes	Contact during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**
	Dermal contact with shallow groundwater	Yes	Contact during outside excavation activities	Groundwater contamination levels are below Tier 1 Risk-Based Screening Levels for construction workers**

* Building is in commercially zoned area and future use is assumed to be non-residential.

** DEC Draft Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997.

FORMER CITGO STATION ALASKAN OIL, INC. Town of Pamelia, New York DEC Spill No. 9704043

TABLE V - TIER 1 RISK-BASED SCREENING LEVELS - SOIL ANALYTICAL DATA

Date Sampled: NA

Matrix: Soil

	Tier 1 Risk-Based Screening Levels ¹							
Compound	Con	nmercial Wo	rker	Con	struction Wo	rker		
Compound	Inhalation Indoors	Inhalation Outdoors	Surfical	Inhalation Indoors	Inhalation Outdoors	Surfical		
Methyl-tertiary-butyl ether (MTBE)	1,410	6,350	6,330	584	15,900	16,400		
Compound	Compound Concentration (mg/kg)*							
Compound	TW-2	TW-3	TW-8	TW-9	TW-10	MW-5	MW-6	
MTBE	0.244	0.014	ND<0.001	ND<0.001	ND<0.001	0.303	0.003	

Notes:

* Soil concentrations are assummed to be equal to groundwater concentrations.

¹ DEC Draft Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997.

Allowable concentration with no dilution/attenuation factor. Refer to TAGM 4046.

mg/kg milligrams per kilogram (parts per million, ppm)

--- Not detected, less than method detection limit

Date Sampled: June 23, 2003						Matrix: G	oundwater
	Tier	1 Risk-Based	Screening Le	vels ¹			
Compound	Commerci	al Worker	Constructi	on Worker			
	Inhalation Indoors	Inhalation Outdoors	Inhalation Indoors	Inhalation Outdoors			
Methyl-tert-butyl-ether (MTBE)	2,650	445,000	6,640	1,110,000			
			Compound C	oncentration	(mg/L)		
Compound	TW-2	TW-3	TW-8	6-WT	TW-10	MW-5	9-WM
MTBE	0.244	0.014	ND<0.001	ND<0.001	ND<0.001	0.303	0.003
Notes:							

¹ DEC Draft Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997

² DEC Technical and Operational Guidance Series (TOGS) 1.1.1., Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limits, dated June 1998.

milligrams per liter (equivalent to parts per million, ppm)

mg/L

Not detected less than ě

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Matriv. Groundwater

Project No. 2003028

TABLE VI - TIER 1 RISK-BASED SCREENING LEVELS - GROUNDWATER ANALYTICAL DATA

FORMER CITGO STATION ALASKAN OIL, INC. Town of Pamelia, New York DEC Spill No. 9704043



7280 Caswell Street, Hancock Air Park, North Syracuse, NY 13212 (315) 458-8033, FAX (315) 458-0249, (800) 842-4667

PLUMLEY ENGINEERING, P.C. 8232 Loop Road

Baldwinsville, NY 13027 ATTN: Derk Hudson



205326 06/24/2003

METHOD

		RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORME BY
SAMPLE #: 347542	CLIENT SAMPLE ID:	TW-10			DATE SAMPLED:	0 6/23/03
Volatile - 8021 STA	RS LIST					
1,2,4-trimeth	ylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
1,3,5-trimeth	iylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
4-isopropylte	oluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
benzene		<0.700	UG/L	06/27/03	EPA 8021B	MNE
ethylbenzen	e	<1.00	UG/L	06/27/03	EPA 8021B	MNE
isopropylber	izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
mtbe		<1.00	UG/L	06/27/03	EPA 8021B	MNE
naphthalene		<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-butylbenze	ene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-propylben:	zene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
sec-butylber	izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
tert-butylben	izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
toluene		<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, m+p		<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, o		<1.00	UG/L	06/27/03	EPA 8021B	MNE
SAMPLE #: 347543	CLIENT SAMPLE ID:	TW -9			DATE SAMPLED:	06/23/03
Volatile - 8021 STA	RS LIST					
1,2,4-trimeth	iylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
1,3,5-trimeth	lylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
4-isopropylto	oluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
benzene		<0.700	UG/L	06/27/03	EPA 8021B	MNE
ethylbenzen	e	<1.00	UG/L	06/27/03	EPA 8021B	MNE
isopropylber	izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
mtbe		<1.00	UG/L	06/27/03	EPA 8021B	MNE
naphthalene		<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-butylbenze	ene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-propylbenz	zene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
sec-butylber	Izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
tert-butylben	zene	<1.00	UG/L	06/27/03	EPA 8021B	MNE

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PLUMLEY ENGINEERING, P.C. 8232 Loop Road

Baldwinsville, NY 13027 ATTN: Derk Hudson

.

PROJECT #: 205326 RECEIVED: 06/24/2003

Site Address: FORMER CITGO ROUTE 342 WATERTOWN, NY

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TEST PERFORMED	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 347543 CLIENT SAMPLE ID:	TW-9			DATE SAMPLED:	06/23/03
Volatile - 8021 STARS LIST					
toluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, m+p	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, o	<1.00	UG/L	06/27/03	EPA 8021B	MNE
SAMPLE #: 347544 CLIENT SAMPLE ID:	TW-8			DATE SAMPLED:	06/23/03
Volatile - 8021 STARS LIST					
1,2,4-trimethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
1,3,5-trimethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
4-isopropyltoluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
benzene	<0.700	UG/L	06/27/03	EPA 8021B	MNE
ethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
isopropylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
mtbe	<1.00	UG/L	06/27/03	EPA 8021B	MNE
naphthalene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-propylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
sec-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
tert-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
toluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, m+p	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, o	<1.00	UG/L	06/27/03	EPA 8021B	MNE
SAMPLE #: 347545 CLIENT SAMPLE ID: Volatile - 8021 STARS LIST	MW-6			DATE SAMPLED:	06/23/03
1,2,4-trimethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
1,3,5-trimethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
4-isopropyltoluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
benzene	<0.700	UG/L	06/27/03	EPA 8021B	MNE
ethylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
isopropylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
mtbe	3.25	UG/L	06/27/03	EPA 8021B	MNE
naphthalene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-propylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
sec-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
tert-butylbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
toluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, m+p	<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, o	<1.00	UG/L	06/27/03	EPA 8021B	MNE



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PLUMLEY ENGINEERING, P.C. 8232 Loop Road

Baldwinsville, NY 13027 ATTN: Derk Hudson

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PROJECT #: 205326 RECEIVED: 06/24/2003

Site Address: FORMER CITGO ROUTE 342 WATERTOWN, NY

	D	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPI F # 347546		T₩-3			DATE SAMPLED.	06/23/03
Volatile - 8021 STA	RSTIST	111 0			DATE OAM LED.	00/20/00
1.2.4-trimet	vlbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
1.3.5-trimeth	vlbenzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
4-isopropylt	oluene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
benzene		<0.700	UG/L	06/27/03	EPA 8021B	MNE
ethylbenzen	e	<1.00	UG/L	06/27/03	EPA 8021B	MNE
isopropylber	nzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
mtbe		13.5	UG/L	06/27/03	EPA 8021B	MNE
naphthalene	9	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-butylbenze	ene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
n-propylben	zene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
sec-butylber	nzene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
tert-butylber	izene	<1.00	UG/L	06/27/03	EPA 8021B	MNE
toluene		<1.00	UG/L	06/27/03	EPA 8021B	MNE
xylene, m+p	1	<1.00	UG/L	06/27/03	EPA 8021B	MNE
💓 💓 xylene, o		<1.00	UG/L	06/27/03	EPA 8021B	MNE
Volatile - 8021 STA 1.2.4-trimeth	ARS LIST Nylbenzene	<1.00	UG/I	06/28/03	FPA 8021B	MNF
1,2,4-trimet	vlbenzene	<1.00		06/28/03	EPA 8021B	MINE
4-isopropylt	njuene	<1.00		06/28/03		
henzene	Juche	<0.700		06/28/03	EFA 8021B	MNE
ethylhenzen	۵	<1.00		06/28/03	EPA 8021B	MNE
isopropylber	7606	<1.00		06/28/03	EPA 8021B	MNE
mtbe		244	UG/L	06/28/03	EPA 8021B	MNE
naphthalene		<1.00	UG/L	06/28/03	FPA 8021B	MNE
n-butylbenze	ene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
n-propylben;	zene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
sec-butylber	nzene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
tert-butylben	zene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
toluene		<1.00	UG/L	06/28/03	EPA 8021B	MNE
xylene, m+p		<1.00	UG/L	06/28/03	EPA 8021B	MNE
xylene, o		<1.00	UG/L	06/28/03	EPA 8021B	MNE
SAMPLE #: 347548	CLIENT SAMPLE ID:	MW-5			DATE SAMPLED:	06/23/03
Volatile - 8021 STA	.RS LIST					
1,2,4-trimeth	iylbenzene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
1,3,5-trimeth	ylbenzene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
₩						



Page 3 of 4

PLUMLEY ENGINEERING, P.C. 8232 Loop Road

Baldwinsville, NY 13027 ATTN: Derk Hudson PROJECT #: 205326 RECEIVED: 06/24/2003

Site Address: FORMER CITGO ROUTE 342 WATERTOWN, NY

		RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 347548	CLIENT SAMPLE ID:	MW-5			DATE SAMPLED:	06/23/03
Volatile - 8021 STA	RS LIST					
4-isopropylto	bluene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
benzene		<0.700	UG/L	06/28/03	EPA 8021B	MNE
ethylbenzene	е	<1.00	UG/L	06/28/03	EPA 8021B	MNE
isopropylben	izene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
mtbe		303	UG/L	06/28/03	EPA 8021B	MNE
naphthalene		<1.00	UG/L	06/28/03	EPA 8021B	MNE
n-butylbenze	ene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
n-propylbenz	zene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
sec-butylben	izene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
tert-butylben	zene	<1.00	UG/L	06/28/03	EPA 8021B	MNE
toluene		<1.00	UG/L	06/28/03	EPA 8021B	MNE
xylene, m+p		<1.00	UG/L	06/28/03	EPA 8021B	MNE
xylene, o		<1.00	UG/L	06/28/03	EPA 8021B	MNE

Wendy J. Uniberger Laboratory_Director

06/30/2003 Print Date

All tests performed under NYS ELAP Laboratory Certification # 11375 unless otherwise stated. Report relates only to the samples as received by the laboratory and shall not be reproduced except in full, without written approval from Environmental Laboratory Services.



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	800 S	TARBUCK AVENUE, SUITE B	110101	JLOGY S	PECIALISTS
	WATERT 315-788-	'OWN, NY 13601 -8388. FAX 315-788-9258			
	1-800-42	7-5227			
		P.O. Number			
Name:	Plumky	Engineering PC	Date S	Sampled	: 06-23-2003
Address:	8232 La	p Road	Phone		
	Baldwn	nsville NY 13027	Collect	ted By:	DAVID CONVERSE
Sample Site	/Location:	Former Citgo	<u> </u>	342	Watestown NY
Sample Mat	rix:	Drinking Water Waste	ewater	Soil	Other Please Send results
					Bill to Plumley
Sample Chlo	prinated? Y	′ / N	Residu	ial:	AH: Derk Hud
Lab	Time	Origin	Desc	ription	Analyses
I.D.#	Taken	Source	Comp	Grab	Requested
347542	1040	TW-10		X	EPA 8021 (STARS) & MTBE
347543	1050	Tw-9		<u>×</u>	
347544	1055	TW-8		У	
347545	1105	mw-6		×	
347546	1120	TW-3		X	
347.547	1130	Tw-2		X	
347549	// 45	Ew MW-5		X	V
Sub-Contrac	cted:				Customer Initials:
Sam	ple(s) as re	ceived conforms to NELA	C stand	dards (Y/*N)* See attached sheet
Relinquished B	1 1	Date/Time	Receive	d By:	henno Date/Time
Signature	hust	$\frac{1}{1000}$	Signatur	e: MA	New ri- san bicy is
Relinguished B	iv:	Date/Time	Receive	d Bv:	<i>7 7 7 3</i> Date/Time
			Signatur	e:	
Signatura			Temp D	ea C	

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Initial Review:

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SAMPLE S	ITE: Ph	imley Ci	OUNDWATER E Zyð 342	MONITOF	FIELD LOG RING POIN'	r # <u>[u]-10</u>	SAMP SEQ. #
SAMPLING		SAMPLE	DURCE (DESC. PUR	GE	PIT		
DATE : (<u>6 133/03</u>) TIME:	1040 DAT	E: (6/23	1/ <u>03)</u> TI	ME: FRCM: 9	15 TO: 9
PURGING SAMPLING	EQUIPMEN EQUIPME	T: TEFLON NT: TEFLOI	BAILER	PUMP PUMP		OTHER	
PURGE VO	LUME CAL	CULATION			· · · · · · · · · · · · · · · · · · ·		
TOTAL DE	PTH:TOP	OF CASING	: FVC (wel	1)	STEE	L (standpip)
		DEPTH TO	WATER 4	45	FT. I	DUPLICATÉ	
		LENGTH O	F COLUMN		FT.	(LWC)	
WELL DIA	METER:	1.25 "		.06375 =		PURGE VOLUI	ME IN GALL
		1.50 "	LWC * 0	.092 =			GA
	-	2.00 "	LWC * 0	.163 =			GA
		3.00 "	LWC * 0.	.367 ==			GA
		6.00 "	LWC + 1	.469 =			GAL
		VOLUME O	F WATER FOR	R 3 VOLUM	ES	······································	GAJ
		DID WELL	GO DRY? YE	2S	Ň	10	
		PUMPING	RATES IN GE	M			GA1
		PROPER D	ISPOSAL OF	PURGE WA'	TER: YES	NO	
PRESENCE	OF IMMIS	SCIBLE LA	VISUA YERS: YES	L TURBI	DITY 5/	iottom	· · · · · · · · · · · · · · · · · · ·
PHYSICAL	CHARACTI	ERISTICS I	DURING SAME	LING: CO	OLOR <u>Cle</u>	<u>aj</u>	
PRESENCE	OF IMMIS	CIBLE LAY	v (Ers: Yes _	'ISUAL TT	URBIDITY	Moderate TOP	BOTTOM
SAMPLING	INFORMAT	CION:			LO	G-IN DATA	
					INITI	AL : FINAL	UNITS
				•		1 21	
	SAMPLING	; DEPTH _				6.07	Ft.
	INITIAL	DEPTH TO	WATER	·······	- 4.4.	5 4.45	Ft.
	DEPTH RE	COVERED 1	to at sampl	ING	[. 6.21	Ft.
							· · · · · · · · · · · · · · · · · · ·
NOTES :	and a second second						
NOTES :							

SAMPLIN DATE :	<u>د مرد در ک</u>	SAMPLE	RCE (DESC PUR 250 DAT	RIPTION) SE E: (<u>6</u> /J	<u>PU</u> <u>3/03)</u> TI	RGE ME: FRCM: 9	20 TO: 9.
PURGING SAMPLING	EQUIPMEN G EQUIPME	IT: TÉFLON É INT: TEFLON	BAILER	PUMP PUMP		OTHER	
PURGE VO TOTAL DI	OLUME CAL EPTH:TOP	CULATION OF CASING : TOTAL DEP DEPTH TO N LENGTH OF	PVC (wel TH WATER <u>4</u> COLUMN	1)	STEE FT. FT. FT.	L (standpip DUPLICATE (LWC)	e)
WELL DI	AMETER:	1.25 " 1.50 " 2.00 " 3.00 " 4.00 " 6.00 " VOLUME OF DID WELL O ACTUAL VO PUMPING RI PROPER DIS	LWC * 0 LWC * 0 LWC * 0 LWC * 0 LWC * 0 LWC * 1 WATER FOI GO DRY? YI LUME OF WI ATES IN GI SPOSAL OF	06375 = 092 = 163 = 367 = 469 = 3 VOLUM S TER REMO PURGE WA	TES VED TER: YES		GAL
PHYSICAL					1.0000		
PRESENCE 	E OF IMMI	ERISTICS DO	URING PURC VISUA ERS: YES URING SAMI	E: COLOF ODOR AL TURBI NO PLING: C	DITY <u>3</u> TOP	BOTTOM BOTTOM	
PRESENCE PHYSICAL PRESENCE	COF IMMI	SCIBLE LAYN	URING PURC VISUA ERS: YES _ URING SAMI CRS: YES _	E: COLOF ODOR AL TURBI NO PLING: C VISUAL T	DITY <u>3</u> DITY <u>3</u> TOP OLOR <u>CC</u> DOR <u>C</u> URBIDITY	eght BOTTOM leas porce <u>Modesat</u> TOP	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT COF IMMI COF IMMI INFORMA	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYE	URING PURC VISUA ERS: YES URING SAME CRS: YES	E: COLOF ODOR AL TURBI NO PLING: C VISUAL I	DITY <u>3</u> DITY <u>3</u> TOP OLOR <u>C</u> DOR <u>7</u> URBIDITY	eght BOTTOM BOTTOM Corre <u>Moclesate</u> TOP DG-IN DATA	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	C OF IMMI C CHARACT OF IMMI: INFORMA	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYE	URING PURC VISUA ERS: YES URING SAME CRS: YES	E: COLOF ODOR AL TURBI NO PLING: C VISUAL I	DITY 3/ DITY 3/ TOP OLOR URBIDITY LI INIT	eght BJTTOM BJTTOM Har BJTTOM BJTTOM Maclessate TOP DG-IN DATA IAL FINAL	_ BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT COF IMMI COF IMMI SAMPLIN	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYE TION:	URING PURC VISUA ERS: YES URING SAME CRS: YES	E: COLOF ODOR AL TURBI NO PLING: C VISUAL I	DITY 52 TOP OLOR <u>C</u> DOR <u>D</u> URBIDITY URBIDITY	eght BJTTOM Has Moclessate TOP DG-IN DATA IAL FINAL 6.80	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT COF IMMI CHARACT COF IMMI SAMPLIN INITIAL	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYE TION: G DEPTH DEPTH TO Y	VISUA ERS: YES URING SAME CRS: YES	E: COLOF ODOR AL TURBI NO PLING: C VISUAL I	DITY 52 TOP OLOR CL DOR DOR URBIDITY LI INIT 4,7	Les BOTTOM Has Moclessate TOP DG-IN DATA IAL FINAL 6.80 4 4.74	BOTTOM UNITS Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	E OF IMMI CHARACT CHARACT OF IMMI INITIAL DEPTH R	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYN TION: G DEPTH DEPTH TO Y SECOVERED TO	VISUA ERS: YES URING SAME CRS: YES VATER O AT SAMPI	E: COLOF ODOR AL TURBI NO PLING: C VISUAL T NO	DITY 50 DITY 50 TOP OLOR CO DOR CO URBIDITY LO LO LO LO LO LO LO LO LO LO	eas BOTTOM Heas Modesate TOP DG-IN DATA IAL FINAL 6.80 4 4.74 6.80	BOTTOM BOTTOM Ft. Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	E OF IMMI CHARACT CHARACT CHARACT OF IMMI SINFORMA SAMPLIN INITIAL DEPTH R	SCIBLE LAYN SCIBLE LAYN SCIBLE LAYN TION: G DEPTH DEPTH TO Y SECOVERED TO	VISUA ERS: YES URING SAME CRS: YES VATER O AT SAMPI	E: COLOF ODOR AL TURBI NO PLING: C VISUAL I NO	Clean DITY 50 TOP OLOR CO DOR CO URBIDITY LO INIT 4,7	Eas BOTTOM Heas TOP DG-IN DATA IAL FINAL 6.80 4 4.74 6.80	BOTTOM BOTTOM Ft. Ft. Ft. Ft.

DATE : (<u>C</u> PURGING EC SAMPLING E PURGE VOLU TOTAL DEPT	UIPMENT QUIPMEN ME CALC CH:TOP O	TIME: / TIME:	DEAILER BAILER BAILER PVC (W TH WATER COLUMN LWC * LWC * LWC *	ATE: (_6 PUM PUM PUM PUM PUM PUM PUM 0.06375 0.092 0.163 0.163	/ <u>13/03</u>) PS S FT FT	TIME: P TIME: P OTI OTI TEEL (st DUPLI . (LWC) PURG	NROM: <u>930</u> HEF HEF:HEF: HEF: HEF:H	TO: <u>9</u>
PURGING EC SAMPLING E PURGE VOLU TOTAL DEPT	UIPMENT QUIPMEN JME CALC CH:TOP O	TEFLON I T: TEFLON CULATION F CASING TOTAL DEF DEPTH TO LENGTH OF 1.25 " 1.50 " 2.00 " 3.00 " 4.00 "	BAILER BAILER PVC (W TH WATER COLUMN LWC * LWC * LWC *	PUM PUM (ell) (.) 06375 0.06375 0.092 0.163	PS FT FT FT	OTH OTH TEEL (St DUPLJ . (LWC) PURG	HEF. HEF. ardpipe) ICATÊ E VOLUME	IN GALLO
PURGE VOLM TOTAL DEPT	JME CALC	CULATION F CASING TOTAL DEF DEPTH TO LENGTH OF 1.25 " 1.50 " 2.00 " 3.00 " 4.00 "	: PVC (w TH WATER COLUMN LWC * LWC * LWC *	0.06375 0.092 0.163	S FT FT. FT 	TEEL (st • DUPLI • (LWC) PURG	ardpipe) ICATÉ E VOLUME	IN GALLO
WELL DIAM	TTER:	F CASING TOTAL DEF DEPTH TO LENGTH OF 1.25 " 1.50 " 2.00 " 3.00 " 4.00 " 6.00 "	Y DVC (W TH WATER COLUMN LWC * LWC * LWC *	0.06375 0.092 0.163	FT FT. FT	TEEL (ST DUPLI . (LWC) PURG	ERADIPE)	IN GALLC
WELL DIAM	STER:	DEPTH TO LENGTH OF 1.25 " 1.50 " 2.00 " 3.00 " 4.00 " 6.00 "	WATER COLUMN LWC * LWC * LWC *	0.06375 0.092 0.163	FT.	DUPLI . (LWC) . PURG	ECATÉ	IN GALLO
WELL DIAM	STER:	LENGTH OF 1.25 " 1.50 " 2.00 " 3.00 " 4.00 " 6.00 "	LWC * LWC * LWC * LWC *	0.06375 0.092 0.163	FT	. (LWC) PURG	E VOLUME	IN GALLO
WELL DIAMI	TTER:	1.25 " 1.50 " 2.00 " 3.00 " 4.00 "	LWC * LWC * LWC *	0.06375 0.092 0.163		PURG	E VOLUME	IN GALLC
		1.50 " 2.00 " 3.00 " 4.00 "	LWC * LWC *	0.092	· · · · · · · · · · · · · · · · · · ·			CAT
•		2.00 " 3.00 " 4.00 " 6.00 "	LWC *	0.163	_			GAI GAI
		3.00 " 4.00 " 6.00 "	LWC *	0 9/9	-			GAI
		4.00 " 6.00 "		0.367	=			GAL
		6.00 "	LWC *	0.653	ə			GAL
		UNTIME OF	LWC *	1.469 FOR 2 VA	TIMEC			GAL
		VULUME OF	CO DRY?	VES VQ	LUMES	NO		GAL
		ACTUAL VO	LUME OF	WATER R	EMOVED	- ``_		GAI
		PUMPING R	ATES IN	GPM	< /			
		PROPER DI	SPOSAL (OF PURGE	WATER: Y	ies <u>v</u>	10	
PRESENCE C	F IMMIS	CIBLE LAY	VIS ERS: YES	SUAL TU	RBIDITY O TO	slight	BOTTOM	
PHYSICAL C	HARACTE	RISTICS D	URING SA	AMPLING:	COLOR	Clear		
				TT CIINT	ODOR	none	. clat	
PRESENCE O	F IMMIS	CIBLE LAYN	ERS: YES	VISUAL	_ NO	TOP	<u>, mc</u>	BOTTOM
SAMPLING I	NFORMAT	ION:				LOG-IN	DATA	
			•		IN	ITIAL	FINAL	UNITS
s	AMPLING	DEPTH					5.00	Ft.
I	NITIAL	DEPTH TO	WATER			.13	4,15	Ft.
C	EPTH RE	COVERED T	O AT SAM	IPLING _		i	3.00	Ft.
		<u> </u>						
NOTES:				· · · · ·				
							+	

GROUNDWATER SAMPLING FIELD LOG

					41.1-1	SAMPLIN
	SAMPLE SITE:	SOURCE (DES	MONITORII CRIPTION)	NG POINT #/	110-6	SEQ. # <u>4</u>
	SAMPLING	SAMPLE PU	JRGE	PURGE		
	DATE : $(\frac{6}{23})^{03}$) TIME: //05 DP	TE: (6/23/0	23) TIME: 1	FROM: <u>942</u>	TO: 955
	PURGING EQUIPMEN	T: TEFLON BAILER	PUMP	OT	HER	
	SAMPLING EQUIPME	NT: TEFLON BAILER	PUMP	OT	HER	
	PURGE VOLUME CAI	CULATION		-		
	TOTAL DEPTH: TOP	OF CASING : PVC (W	ell)	STEEL (s	tandpipe)	
		DEPTH TO WATER	3.12	FT. DUPL	ICATĒ	
		LENGTH OF COLUMN		FT. (LWC))	
	WELL DINKERED.		0 06275 -	PUR	SE VOLUME	IN GALLONS
	WELL DIAMETER:	1.50 " LWC *	0.092 =			GALS.
	-	2.00 " LWC *	0.163 -			GALS.
		3.00 " LWC *	0.367 =			GALS.
		4.00." LWC *	0.653 =			GALS.
		6.00 " LWC *	1.469 =			GALS.
<u>,</u>		VOLUME OF WATER F	OR 3 VOLUMES	·		GALS.
, · · ·		DID WELL GO DRY?	YES	NO		CNIS
		DUNDING DATES IN	CPM	.u <u>.</u>		GALD.
		PROPER DISPOSAL C	F PURGE WATE	R: YES	NO	
-	BUVETONT OUNDAOT	EDTOTIOS DUDING DU		Clean		
	PHISICAL CHARACI	ERISTICS DORING PO	ODOR	none		
		VIS	UAL TURBIDI	TY Slight		
	PRESENCE OF IMMI	SCIBLE LAYERS: YES	NO	TOP	EOTTOM	
			······			
	PHYSICAL CHARACT	ERISTICS DURING SA	MPLING: COL	OR <u>Clean</u>		
				R Moru		
	PRESENCE OF TMMT	SCIELE LAVERS. VES	VISUAL IUR	- TOP	<u>igni</u>	BOTTOM
	FRESENCE OF INHL		NO _			
	SAMPLING INFORMA	TION:		LOG-IN	DATA	
				INITIAL	FINAL	UNITS
		A 33000			3.18	E+
	SAMPLIN	G DEPTH			7.0	1
	INITIAL	DEPTH TO WATER _		3:03	3,07	Ft.
	DEPTH R	ECOVERED TO AT SAM	PLING		3,18	Ft.
				-		······································
~,	NOTES :					
,						
·~·						
		al a m				
	TECHNICIAN :	OUL DEI	WEATH	ER <u>5400</u>	15	
	90'd 87:51		C7C 001 070 107	,		
		2000 20 4112 8	⊐cp-885-215:xb7	LABORATORIES	CONNEKSE	

-		0	ROUND	WATER S	AMPLI	NG FI	ELD L	0G		•••
SAMPLE S	SITE: Plu	mley	Citgo	342	MON	ITORI	NG PO:	INT #	<u>Tui-3</u>	SAMI SEQ.
SAMPLING	-	SAMP	JOURCE LE	PURC.	GE	- (אנ	1	TIRGE		
DATE : ((6/23/03) TIME	: 1120	DAT	E: (6	1330	<u>ອັງ</u>	TIME:	FROM: 10	00 TO:
BUDGTNG								-		
PURGING SAMPLING	EQUIPMEN' 5 EOUIPMEI	T: TEFLO NT: TEFLO	ON BAIL	ler Ler	אטק אנופ	(P			HER	
PURGE VC	DLUME CAL	CULATIO	N					/-		
TOTAL DE	CPTH:TOP	OF CASI	NG : P\ hromu	VC (Wel	.1)			ren (s	randpipe	3)
		DEPTH '	TO WAT	ĒR	2.02		- FT.	DUPI	ICATE	
		LENGTH	OF CO	LUMN			FT.	(LWC	:)	
			-					PUR	GE VOLUMI	É IN GALI
AFT DIV	METER:	1.20 "	سد ح		.063/:	`∑				G/
	-	2.00 "	Ľ	WC * 0	.163					G?
		3.00 "	L	WC * 0	.367	= -				G?
		4.00."	L	WC * 0	.653	= _				GZ
		6.00 "	L	WC * 1	.469	=				GA
		NOLUME	OF WA	TER FUI	KJV(ES	DLUMES	<u>ن</u>	NO		نوا
		ACTUAL	VOLUM	E OF W	ATER I	REMOVE	ED	2		Gł
		PUMPIN	G RATE	S IN GI	PM		-< 1			
		PROPER	DISPO:	SAL OF	PURGE	E WATE	ER: YE	:s	NO	
PRESENCÉ	OF IMMI	SCIBLE :	LAYERS	VISUA : YES _	01 AL TU	DOR JRBIDI	DOY LTY TOP	suge	EOTTOM_	
PRESENCE PHYSICAL	CHARACT	SCIBLE : ERISTIC:	LAYERS	VISU : YES MG SAMI	Of AL TU 	DOR JRBIDI NO	DOT TOP	u 5 ligh Clea,	EOTTOM_	
PRESENCE PHYSICAL	CHARACT	SCIBLE : ERISTIC	LAYERS 5 DURIN	VISU YES	OI AL TU PLING:	COI	DOR	sugn Sugn Clear nom	EOTTOM_	
PRESENCE	CHARACT	SCIBLE : ERISTIC	LAYERS	VISUA : YES MG SAMI	OI AL TU PLING: VISUAI	COR URBIDI 10 COI 0DC TUF	LTY TOP COR DR RBIDIT	Clear nom	EOTTOM EOTTOM	BOTTON
PRESENCE PHYSICAL PRESENCE	CHARACT	SCIBLE : ERISTIC: SCIBLE I	LAYERS 5 DURII LAYERS :	VISUA : YES NG SAMI	Of AL TU PLING: VISUAI	COI COI COI COI COI COI COI COI	LTY TOF COR COR	Clear Dom	EOTTOM EOTTOM e Slight	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT	SCIBLE : ERISTIC: SCIBLE I TION:	LAYERS 5 DURII LAYERS :	VISUA : YES NG SAMI : YES	Of AL TU PLING: VISUAI	COI ODCR URBIDI NO COI ODC TUF NO	LOR	Clear Clear nom Y TOP	EOTTOM EOTTOM C CCGAT	BOTTON
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT	SCIBLE : ERISTIC: SCIBLE I TION:	LAYERS	VISUA YES NG SAMA YES	Of AL TU PLING: VISUAI	COR JRBIDI 10 COI 0DC TUF NO	LOR	Clear Clear norm TOF LOG-I	EOTTOM_ EOTTOM_ SCIGAT	BOTTON
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT	SCIBLE : ERISTIC: SCIBLE I TION:	LAYERS 5 DURII LAYERS:	VISUA : YES NG SAMA	Of AL TU PLING: VISUAI	COI ODC COI ODC TUF NO	LTY TOF COR	Clear Clear <u>nom</u> Y TOF LOG-I TIAL	EOTTOM EOTTOM E Sugat N DATA	BOTTON
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH	LAYERS	VISUA : YES _ NG SAMA	OL AL TU PLING: VISUAI	COI COI COI COI COI COI COI COI	LOR	<u>Clear</u> <u>Clear</u> <u>nom</u> TOF LOG-I TIAL	EOTTOM EOTTOM SCIGAT N DATA FINAL 2.51	BOTTON
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING	SCIBLE I ERISTIC SCIBLE I TION: G DEPTH	LAYERS 5 DURII LAYERS:	VISUA YES NG SAMA YES ER'	Of AL TU PLING: VISUAI	COI ODC COI ODC TUF NO		Clear Clear Pom Y TOP LOG-I TIAL	EOTTOM_ EOTTOM_ SugAt N DATA FINAL 2.51 2.02	
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH DEPTH 2	LAYERS S DURIN	VISUA YES NG SAMA YES ER'	Of AL TU PLING: VISUAI	COI URBIDI NO COI COI NO		Clear Clear norm TOF LOG-I TIAL	EOTTOM_ EOTTOM_ 5009AE N DATA FINAL 2.51 2.02	BOTTON
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH DEPTH : ECOVEREI	LAYERS S DURIN LAYERS : TO WATE	VISUA YES NG SAMA YES ER' T SAMPI	Of AL TU PLING: VISUAI	COI URBIDI VO COI ODC TUF NO	ITY TOF	Clear Clear norm TOF LOG-I TIAL	EOTTOM EOTTOM 5009AT N DATA FINAL 2.51 2.02 2.51	BOTTON UNII Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH DEPTH : ECOVEREI	LAYERS 5 DURIN LAYERS: TO WATE 5 TO AS	VISUA YES NG SAMA YES ER' T SAMPI	Of AL TU PLING: VISUAI	COI URBIDI VO COI ODC TUF NO		Clear Clear norm TOF LOG-I TIAL	EOTTOM EOTTOM 5009AT N DATA FINAL 2.51 2.02 2.51	BOTTON UNII Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE I ERISTIC SCIBLE I TION: G DEPTH DEPTH I ECOVEREN	LAYERS 5 DURIN LAYERS: TO WATE 5 TO AS	VISUA : YES NG SAMA : YES ER' T SAMPI	Of AL TU PLING: VISUAI	COR JRBIDI NO COI ODC TUF NO		Clear Clear Por IOG-I TIAL	EOTTOM EOTTOM SUGAT N DATA FINAL 2.51 2.02 2.51	BOTTON <u>UNIT</u> Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH DEPTH : ECOVEREN	LAYERS 5 DURIN LAYERS: TO WATE 5 TO A:	VISUA : YES NG SAMA : YES ER' T SAMPI	Of AL TU PLING: VISUAI	COR URBIDI NO COL TUF NO	ITY TOF	Clear Clear norm TOP LOG-I TIAL	EOTTOM EOTTOM 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	BOTTON <u>UNII</u> Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE I ERISTIC: SCIBLE I TION: G DEPTH DEPTH I ECOVEREN	LAYERS 5 DURIN LAYERS: TO WATE 5 TO AS	VISUA : YES NG SAMA : YES ER T SAMPI	Of AL TU PLING: VISUAI	COR JRBIDI NO COL ODC TUF NO		Clear Clear Por IOG-I TIAL	E OTTOM E OTTOM S CIGAT N DATA FINAL 2.51 2.02 2.51	BOTTON <u>UNI1</u> Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	SCIBLE : ERISTIC: SCIBLE I TION: G DEPTH DEPTH : ECOVEREN	LAYERS 5 DURIN LAYERS: TO WATE 0 TO A:	VISUA : YES NG SAMA : YES ER' T SAMPI	Of AL TU PLING: VISUAI	COI URBIDI NO COI ODO TUF NO	ITY TOF	Clear Clear Monor IDG-I TIAL	EOTTOM EOTTOM 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	BOTTON UNII Ft. Ft. Ft.

SAMPLING	ITE: 9/	SAMPL	OURCE (DES	MON SCRIPTIO IRGE	NITORIN	g point ; Purge	<u>16)-2</u>	SEQ. #
DATE : ()	6/20/0	<u>()</u> TIME:		.TE: (<u></u>	5/43/2) TIME:	FROM: 70:	10 TO:/
SAMPLING	EQUIPMEN	T: TEFLON INT: TEFLO	N BAILER	PUN	MP		OTHER	
PURGE VO	LUME CAL	LCULATION						
TOTAL DE.	PTH:TOP	OF CASING TOTAL D	; : PVC (W EPTH	ell)		_ STEEL (FT.	(standpipe	e)
		DEPTH TO	WATER	1.23.		FT. DUI	PLICATÊ	
		LENGTH (OF COLUMN		<u> </u>	FT. (LW	C) RGF VOLIM	FINCALL
WELL DIA	METER:	1.25 "	LWC *	0.0637	5.=			GA
		1.50 "	LWC *	0.092	·			GA
	•	2.00 "	LWC *	0.163	=		+++	GA GA
		4.00 / "	LWC *	0.653	÷			GA GA
		6.00 "	LWC *	1.469	=			GA
		VOLUME (DF WATER F	OR 3 V(Vrc	OLUMES	NO		GA
		ACTUAL V	OLUME OF	WATER I	REMOVEI	<u> </u>		GA
		PUMPING	RATES IN	GPM		~1		
		PROPER 1	JISPOSAL O	r PURGI	E WATER	$(: YES \{-}$	NU	
DRESENCE	OF IMI		VIS	NGL: CO OI UAL TU	DOR URBIDII	none	to TO TO M	
PRESENCE	OF IMMJ	SCIBLE LA	VIS AYERS: YES		DOR URBIDIN NO	Pone TOP	EOTTOM_	
PRESENCE	OF IMMI CHARACT	SCIBLE LA	VIS AYERS: YES DURING SA	MPLING	COLC	None <u>Por</u> TOP DR <u>Clean</u>	EOTTOM_	
PRESENCE PHYSICAL	OF IMMJ CHARACI	SCIBLE LA	VIS AYERS: YES DURING SA	MPLING:	COLC COLC COLC COLC COLC COLC	none TOP TOP DR <u>Clean</u> <u>none</u> SIDITY _	EOTTOM_	
PRESENCE PHYSICAL PRESENCE	OF IMMI CHARACT OF IMMI	SCIBLE LA	VIS AYERS: YES DURING SA YERS: YES	MPLING: VISUAI	COLC COLC COLC COLC COLC COLC COLC COLC	Pone TOP TOP DR <u>Clean</u> BIDITY TO	EOTTOM_ moderate	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA	SCIBLE LA SCIBLE LA	VIS AYERS: YES DURING SA YERS: YES	MPLING	COLC COLC COLC COLC COLC COLC COLC COLC	Pone TOP TOP DR <u>Clean</u> DR <u>Clean</u> DIDITY <u>TO</u> LOG-	EOTTOM_ EOTTOM_ <u>medenate</u> P IN DATA	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA	SCIBLE LA SCIBLE LA	VIS AYERS: YES DURING SA YERS: YES	MPLING	COLC COLC COLC COLC COLC COLC COLC COLC	Pone Por TOP TOP DR <u>Clean</u> DR <u>Clean</u> TO DIDITY <u>1</u> TO LOG- INITIAL	EOTTOM EOTTOM <u>moderato</u> DP IN DATA FINAL	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA	SCIBLE LA SCIBLE LA TION:	VIS AYERS: YES DURING SA YERS: YES	MPLING	COLC COLC COLC COLC COLC COLC COLC	Pore Por TOP TOP DR <u>Clean</u> A ore SIDITY <u>1</u> TO LOG- INITIAL	EOTTOM EOTTOM <u>moderato</u> DP IN DATA <u>FINAL</u> 3.06	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN	SCIBLE LA SERISTICS SCIBLE LA TION:	VIS AYERS: YES DURING SA YERS: YES	MPLING	COLO COLO COLO COLO COLO COLO COLO COLO COLO	Pone Pone TOP TOP DR Clean A one SIDITY LOG- INITIAL	EOTTOM_ EOTTOM_ <u>modenato</u> P IN DATA FINAL <i>3.06</i> <i>1,2.3</i>	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN INITIAL	SCIBLE LA SERISTICS SCIBLE LA TION: G DEPTH , DEPTH TO	VIS AYERS: YES DURING SA YERS: YES WATER	MPLING	COLO COLO	Pone Pone TOP TOP DR <u>Clean</u> Aone SIDITY LOG- INITIAL 1.23	EOTTOM EOTTOM <u>modenato</u> P IN DATA <u>FINAL</u> <u>3.06</u> <u>1.23</u>	
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN INITIAL DEPTH P	SCIBLE LA SERISTICS SCIBLE LA ATION: G DEPTH J DEPTH TO ECOVERED	VIS AYERS: YES DURING SA YERS: YES WATER WATER TO AT SAM	MPLING	COLC DOR URBIDIT NO COLC ODOF L TURE NO I NO	Pore Pore TOP TOP DR <u>Clean</u> Pore SIDITY TO LOG- INITIAL /.23	EDTTOM EOTTOM EDTTOM Moderate P IN DATA FINAL 3.06 1.23 3.06	BOTTOM UNITS Ft. Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN INITIAL DEPTH P	SCIBLE LA SERISTICS SCIBLE LA TION: G DEPTH DEPTH TO RECOVERED	VIS AYERS: YES DURING SA YERS: YES WATER TO AT SAM	MPLING	COLC DOR URBIDII NO COLC ODOF L TURE NO I NO	Pore Pore TOP TOP DR <u>Clean</u> DR <u>Clean</u> DIDITY <u>TO</u> LOG- <u>INITIAL</u> <u>1.23</u>	EOTTOM EOTTOM EOTTOM Moderate P IN DATA FINAL 3.06 1.23 3.06	BOTTOM UNITS Ft. Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN INITIAL DEPTH P	SCIBLE LA SERISTICS SCIBLE LA TION: G DEPTH DEPTH TO ECOVERED	VIS AYERS: YES DURING SA YERS: YES WATER TO AT SAM	MPLING	COLC DOR URBIDII NO COLC ODOF L TURE NO I NO	Pore Pore TOP TOP DR <u>clean</u> DR <u>clean</u> DIDITY <u>r</u> LOG- <u>INITIAL</u> <u>1.23</u>	EOTTOM EOTTOM EOTTOM Moderate P IN DATA FINAL 3.06 1.23 3.06	BOTTOM UNITS Ft. Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	OF IMMI CHARACT OF IMMI INFORMA SAMPLIN INITIAL DEPTH P	SCIBLE LA SERISTICS SCIBLE LA ATION: G DEPTH J DEPTH TO ECOVERED	VIS AYERS: YES DURING SA YERS: YES WATER TO AT SAM	MPLING	COLC DOR URBIDII NO COLC ODOF L TURE NO I NO	Pore Pore TOP TOP DR <u>Clean</u> Pore SIDITY TO LOG- INITIAL 1.23	EDTTOM EOTTOM EDTTOM EDETATE IN DATA FINAL 3.06 1.23 3.06	BOTTOM UNITS Ft. Ft. Ft. Ft.

	ITE: Pla	umley Cit	90 342	MONIT	ORING PO	DINT #_	MW-5	SEQ. #
		í so	URCE (DESC	RIPTION)	61/18 M		
SAMPLING DATE : (6 ,23 ,03	SAMPLE) TIME:	1145 DAT	RGE (<u>6</u>)	23/03)	PURGE TIME:	FROM: 100	10:1
PURGING 1 SAMPLING	EQUIPMEN EQUIPME	T: TÉFLON NT: TEFLON	BAILER BAILER	PUMP PUMP	- <u></u>	01 01	HER	
PURGE VO	LUME CAL	LCULATION						
TOTAL DE	FIH: TOP	OF CASING	: PVC (We Dmw	LL)	ັນສ	TEEL (S	tsuapipe;)
		DEPTH TO	WATER	2.65	FI.	DUPL	ICATÉ	
		LENGTH O	F COLUMN		FT.	(LWC) —	
						PUR	GE VOLUME	IN GALL
WELL DIA	METER:	1.25 "	LWC * (0.06375	≝			GA
	_	2:00 ")_163	= =			GA
		3.00 "	LWC * (.367	=			GA
		4.00 - "	LWC * C	.653	=			GA
		6.00 "	LWC * 1		= 	······		GA
		VOLUME O	CO DRY? Y	ES VOL	UMES	NO		GA.
		ACTUAL V	OLUME OF W	ATER RE	MOVED			GA
		PUMPING 1	RATES IN G	PM	~1			
		PROPER D.	ISPOSAL OF	PURGE	WATER: Y	ES	NO	-
PHYSICAL	CHARACT	ERISTICS 1	DURING PUP	GE: COL	or <u>Cle</u>	an ne		
PRESENCE	CHARACT OF IMMI	SCIBLE LAY	DURING PUP VISU YERS: YES	GE: COLO ODO AL TUR NO	OR <u>Cle</u> R <u>70</u> BIDITY TO	ar Ne Blight 2	BOTTOM	
PRESENCE PHYSICAL PHYSICAL	CHARACT OF IMMI CHARACT	ERISTICS I SCIBLE LAY PERISTICS I	DURING PUP VISU YERS: YES DURING SAM	GE: COLO ODO AL TUR NO	COLOR COLOR	an Blight 2 Clean Morrie	BOTTOM	· _ · _ · _ · _ · _ · _ · _ · _ ·
PRESENCE PHYSICAL PHYSICAL PRESENCE	CHARACT OF IMMI CHARACT OF IMMIS	ERISTICS I SCIBLE LAY ERISTICS I SCIBLE LAY	OURING PUP VISU YERS: YES OURING SAM	GE: COLO ODO AL TUR NO PLING: VISUAL	COLOR ODOR TURBIDI	an <u>re</u> <u>3 light</u> <u>2</u> <u>2</u> <u>2</u> <u>3 light</u> <u>3 light</u>	BOTTOM	BOTTOM
PRESENCE PHYSICAL PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA	ERISTICS I SCIBLE LAY ERISTICS I SCIBLE LAY TION:	DURING PUP VISU YERS: YES DURING SAM	GE: COLO ODO: AL TUR: NO PLING: VISUAL	COLOR ODOR TURBIDI	an <u>re</u> <u>Blight</u> <u>P</u> <u>Clean</u> <u>Morre</u> TY <u>S</u> TOP LOG-IN	BOTTOM	BOTTOM
PRESENCE PHYSICAL PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA	ERISTICS I SCIBLE LAY ERISTICS I SCIBLE LAY TION:	OURING PUP VISU YERS: YES OURING SAM	GE: COLO ODO AL TUR NO PLING: VISUAL	COLOR ODOR COLOR ODOR TURBIDI NO	an <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Top</u> <u>Log-In</u> <u>ITIAL</u>	BOTTOM	BOTTOM
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA SAMPLIN	ERISTICS I SCIBLE LAY ERISTICS I SCIBLE LAY TION:	OURING PUP VISU YERS: YES OURING SAM	GE: COLO ODO AL TUR NO	OR CLA R 700 BIDITY TO COLOR ODOR TURBIDI NO 1	an Tre <u>Blight</u> <u>Blight</u> <u>Blight</u> <u>Clean</u> <u>Morred</u> TY <u>S</u> TOP LOG-IN <u>ITIAL</u>	BOTTOM BOTTOM AgAT V DATA FINAL 3,00	BOTTOM
PRESENCE PHYSICAL PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA SAMPLING INITIAL	ERISTICS I SCIBLE LAY PERISTICS I SCIBLE LAY TION: G DEPTH	OURING PUP VISU YERS: YES OURING SAM YERS: YES WATER	GE: COLO ODO AL TUR NO PLING: VISUAL	COLOR ODOR TURBIDI NO	an <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u> <u>Inght</u>	BOTTOM BOTTOM Zight N DATA FINAL 3.00 2.65	BOTTOM
PRESENCE PHYSICAL PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA SAMPLING INITIAL DEPTH R	ERISTICS I SCIBLE LAY PERISTICS I SCIBLE LAY TION: G DEPTH DEPTH TO ECOVERED 7	OURING PUP VISU YERS: YES OURING SAM YERS: YES WATER WATER	GE: COLO ODO: AL TUR NO PLING: VISUAL	COLOR DOR DOR DOR DOR TURBIDI NO	an re <u>3light</u> <u>2</u> <u>Clean</u> <u>Morre</u> TY <u>5</u> <u>TOP</u> LOG-IN ITIAL 2:65	BOTTOM BOTTOM UQAT N DATA FINAL 3.00 2.65 3,00	BOTTOM UNITS Ft. Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA SAMPLIN INITIAL DEPTH R	ERISTICS I SCIBLE LAY ERISTICS I SCIBLE LAY TION: G DEPTH DEPTH TO ECOVERED T	OURING PUP VISU YERS: YES OURING SAM YERS: YES WATER WATER TO AT SAMP	GE: COLO ODO AL TUR NO PLING: VISUAL	OR CLA R 700 BIDITY TO COLOR ODOR TURBIDI NO IN	an Tre <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Jught</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u> <u>Tre</u>	BOTTOM BOTTOM A 947 V DATA FINAL 3,00 2,65 3,00	BOTTOM UNITS Ft. Ft. Ft.
PRESENCE PHYSICAL PRESENCE SAMPLING	CHARACT OF IMMI CHARACT OF IMMIS INFORMA SAMPLIN INITIAL DEPTH R	ERISTICS I SCIBLE LAY PERISTICS I SCIBLE LAY TION: G DEPTH DEPTH TO ECOVERED T	DURING PUP VISU YERS: YES DURING SAM YERS: YES WATER WATER TO AT SAMP	GE: COLO ODO AL TUR NO PLING: VISUAL	OR Clear R 700 BIDITY TO COLOR ODOR TURBIDI NO IN	an Tre <u>3light</u> P <u>Clean</u> <u>Morne</u> TY <u>5</u> TOP LOG-IN ITIAL 2:65	BOTTOM Light DATA FINAL 3,00 2,65 3,00	BOTTOM UNITS Ft. Ft. Ft.