

March 12, 2013

Mr. Frank Sowers, P.E.

NYSDEC – Region 8

Division of Environmental Remediation
6274 Avon-Lima Rd. (Rtes. 5 and 20)

Avon, NY 14414-9516

Re: Former Churchville Ford Site (V00658-8)

Annual Site Monitoring and Inspection Report – 2012



Lu Engineers has prepared this letter to serve as the annual Site Monitoring and Inspection Report for the Former Churchville Ford Site for the year 2012. The Site is subject to a Voluntary Cleanup Agreement executed by Joseph Ognibene and Antonio Gabriele in September, 2003. The most recent transfer of ownership occurred on December 1, 2011, changing from Meyers at Churchville, LLC to BLW Properties of Churchville, LLC. This report is intended to satisfy the annual reporting requirements set forth in the approved *Site Management Plan* (SMP), dated December 2011. The SMP was approved by the NYSDEC on January 3, 2012, signifying the beginning of the annual requirements set forth within the SMP. The purpose of this report is to present the findings of the bi-annual monitoring of residual contaminant concentrations through groundwater sampling as well as engineering controls established at the Site, including Sub-Slab Depressurization System (SSDS) inspection and Site cap inspection.

Background

Contamination was discovered at the Site in 2002 during an environmental investigation conducted in conjunction with a property transfer. A Remedial Investigation (RI) was conducted between 2004 and 2008. Subsurface soil analytical results did not reveal VOCs, SVOCs, or metals above the Restricted Commercial Use (RCU) Guidance Values (6 New York Codes, Rules, and Regulation (NYCRR) Part 375-6), therefore, soil remediation was not warranted. Trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (cis-1,2-DCE) were detected in groundwater beneath the southwestern portion of the building at levels exceeding 6 NYCRR Part 703 Class GA drinking water standards. This area was formerly used for solvent and waste oil storage. Based on the findings of the RI, remedial action was recommended to address chlorinated solvents detected in groundwater at levels exceeding applicable guidance criteria.

The Site was remediated in accordance with the remedy approved by the NYSDEC as described in the *Remedial Action Work Plan* (RAWP) dated December 2008 and the minor modification dated September 4, 2009. The remedial strategy involved treating groundwater and subsurface soils via In-Situ Chemical Oxidation (ISCO) using sodium permanganate (NaMnO₄). When this chemical oxidant comes into contact with organic compounds such



March 12, 2013
Annual Site Monitoring and Inspection Report – 2012
Former Churchville Ford Site

at TCE, PCE, and associated breakdown products, a reaction occurs oxidizing the organic contaminants to relatively benign compounds, such as carbon dioxide (CO₂) and water (H₂O). The chemical oxidant was applied through injection wells (4 to 20 feet (ft) deep) to treat saturated soils, as well as groundwater.

Soil vapor intrusion (SVI) sampling was conducted after the oxidant injection was completed to determine if additional vapor intrusion mitigation or long-term indoor air monitoring measures were needed. Based on the results and as detailed in the SMP, a SSDS was installed in June 2011 in the western portion of the building. The presence of the SSDS precludes the need for monitoring of indoor air.

Implementation of the SMP requires the imposition of an Institutional Control (IC) in the form of a Deed Restriction (DR) that requires a) limiting the use and development of the property to commercial use, which also permits industrial use; b) compliance with the approved SMP; c) restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH); and d) the property owner to complete and submit an annual certification of Institutional and Engineering Controls (IC/EC).

Long term management of remaining contamination, as required by the DR, includes plans for ECs including; 1) monitoring; 2) operation and maintenance; and 3) reporting. The specific ECs implemented at the site include: a) semi-annual groundwater sampling of monitoring wells MW-3, MW-6, MW-13 and MW-JCL-02 for VOCs, iron and manganese; b) management and inspection of the existing soil cover system (the cap); and c) operation, maintenance and inspection of the SSDS.

The following summaries provide details of each EC activity conducted during the semi-annual events in 2012.

Groundwater Sampling

Bi-annual groundwater sampling was conducted in June and November, 2012 per the approved SMP to monitor post-remedial natural attenuation of chlorinated volatile organic compound (CVOC) contamination in the source area. Monitoring wells MW-03, MW-JCL-02, MW-6 and MW-13 were sampled by dedicated bailer using approved methods and procedures during each event and samples were analyzed for TCL VOCs by EPA Method 8260B and metals iron and manganese by EPA Method 200.7. Each well was purged a minimum of 3 well volumes prior to sampling. Water quality measurements were collected during the purging process, recorded on sample log forms and included as an attachment to this report. Purge water generated prior to sampling was containerized in a 55-gallon drum. Tables 1 and 2 illustrate VOC and metals contaminant concentrations detected in groundwater in 2012 and are included as attachments to this report. Based on water level measurements collected during each sampling event, groundwater in the vicinity of the contaminant source area appears to flow primarily to the south, as indicated on Figures 1 and 2, included as attachments to this report.

June 2012

As illustrated in Table 1, wells MW-03, MW-JCL-02 and MW-06 all revealed CVOC detections exceeding NYSDEC Part 703.5 ground water standards in June. Sample results indicated a rise in CVOC

concentrations in source area well MW-JCL-02 over the December 2011 results. PCE concentrations in source area wells MW-03 and MW-JCL-02, and in MW-06 also increased over the December 2011 levels. TCE and cis-1,2-dichloroethene concentrations dropped in MW-03 but increased in MW-JCL-02 compared to December 2011 results. No VOCs were detected in well MW-13.

Iron and manganese levels fluctuated between December 2011 and June 2012, generally dropping during that time period. These metals are generally considered indicators of natural attenuation. A summary table of contaminants exceeding NYSDEC Part 703.5 Class GA groundwater standards at each well location is illustrated on Figures 1 and 2, included as an attachment to this report.

November 2012

With the exception of methylene chloride, results from the November 2012 sampling event indicate that CVOC concentrations dropped significantly from June in each well sampled, except in MW-13 in which no VOCs were detected. Methylene chloride was detected in MW-03 and MW-JCL-02 at concentrations exceeding regulatory standards. It is noted that this VOC has never been detected at the Site in previous sampling events and may be an errant detection by the laboratory due to system monitoring compound interference. Further investigation into these detections is ongoing.

Iron and manganese levels fluctuated between June and November 2012. Concentrations of these metals increased significantly in source area well MW-03 in November. Due to the relatively low permeability of Site soils and previous remedial injection of NaMnO₄ at the site, it is anticipated that Fe and Mn concentrations may fluctuate over time as oxidation occurs. It is noted that after purging approximately 3 well volumes from MW-03, the groundwater changed in coloration from clear to deep purple, indicating the presence of residual NaMno₄ solution. The continued presence of this oxidant is likely the cause for the increase in Fe and Mn concentrations. A summary table of contaminants exceeding NYSDEC Part 703.5 Class GA groundwater standards at each well location is illustrated on Figure 2, included as an attachment to this report.

Cap Inspection and Condition

The Site cap is an Engineering Control (EC) as defined by the SMP and considered a cover system to mitigate human or environmental contact with potentially contaminated Site soils. It is comprised of the asphalt pavement and sidewalk surrounding the building perimeter and the concrete building slab. Per the requirements outlined in the SMP, the integrity of the cap cover system was inspected and evaluated during each of the semi-annual groundwater sampling events. The condition of the building slab is of primary concern due to the potential for soil vapor intrusion to create a human health concern inside the workshop portion of the building. For this reason, a SSDS was installed within this area of the building to mitigate any potential soil vapor intrusion concerns for occupants of the building.

Overall, the Site cap is in very good condition. The exterior asphalt is generally free of cracks and holes. A few minor "potholes" were observed on the north side of the building, toward the west end of the structure, as well as some asphalt patching. It is noted that these imperfections have existed for several years, are up-gradient of the contaminant source area and do not increase the potential for additional soil vapor intrusion-related



March 12, 2013
Annual Site Monitoring and Inspection Report – 2012
Former Churchville Ford Site

concerns. Some minor cracking in the asphalt was observed west of the building but is not considered significant.

The concrete building slab is in excellent condition and has remained unchanged throughout Lu Engineers' investigative and remedial activities. No significant cracking or penetrations were observed during either semi-annual inspection and the floor is sealed with an epoxy coating which is also in good condition. Site cap condition observations are documented in the Site-Wide Inspection Forms included as attachments to this report.

SSDS O&M and Inspection

To prevent potential human exposure to remaining contamination in soil vapor beneath the workshop area of the building, a SSDS was installed in the western half of the workshop in June 2011. Based on interviews with the building manager, the system is reportedly inspected daily and has been problem-free and fully operational since its installation. The two SSDS manometers were inspected during each semi-annual sampling and inspection event. During both inspection events, each gauge displayed an equal vacuum level beneath the building slab as at the time of the system installation (0.8" WC at south wall of Bay 3 & 0.5" WC at south wall of Bay 5, respectively) indicating that each vent fan was operating properly. All system piping was in "like-new" condition with appropriate labeling intact. No new air intakes have been installed in proximity to either exhaust vent above the building roof. As previously described, no new cracking or penetrations were observed in the building floor slab and the epoxy coating covering the floor surface was in good condition. SSDS observations are documented in the Site-Wide Inspection Forms included as attachments to this report.

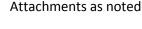
Based on the evaluations of the ICs/ECs implemented at the Site per the approved SMP, it appears that the facility is in full compliance with the site-specific ICs/ECs outlined for this site. Natural attenuation of the remaining contamination will continued to be monitored through semi-annual groundwater sampling and analysis. The observed presence of residual NaMno₄ indicates that oxidation of target contaminants is continuing. The Site cap and SSDS will continue to be inspected and evaluated during each groundwater sampling event including completion of the applicable inspection/monitoring forms. Following the completion of the second semi-annual sampling and inspection event of 2013, an annual report will be prepared for submission to the Department for review.

Please call or email with any questions you may have.

Respectfully Submitted,

Ein Defun

Eric Detweiler





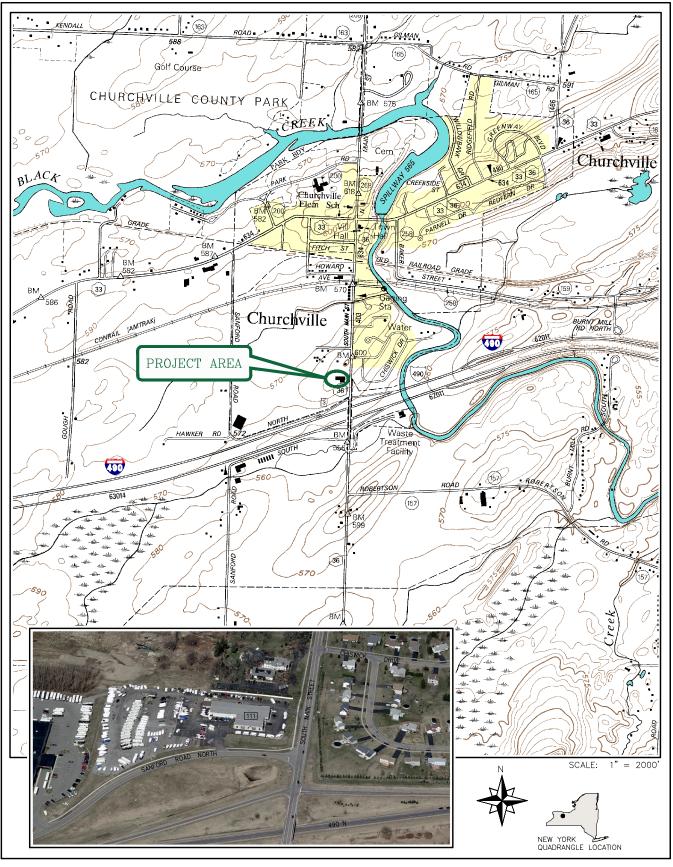




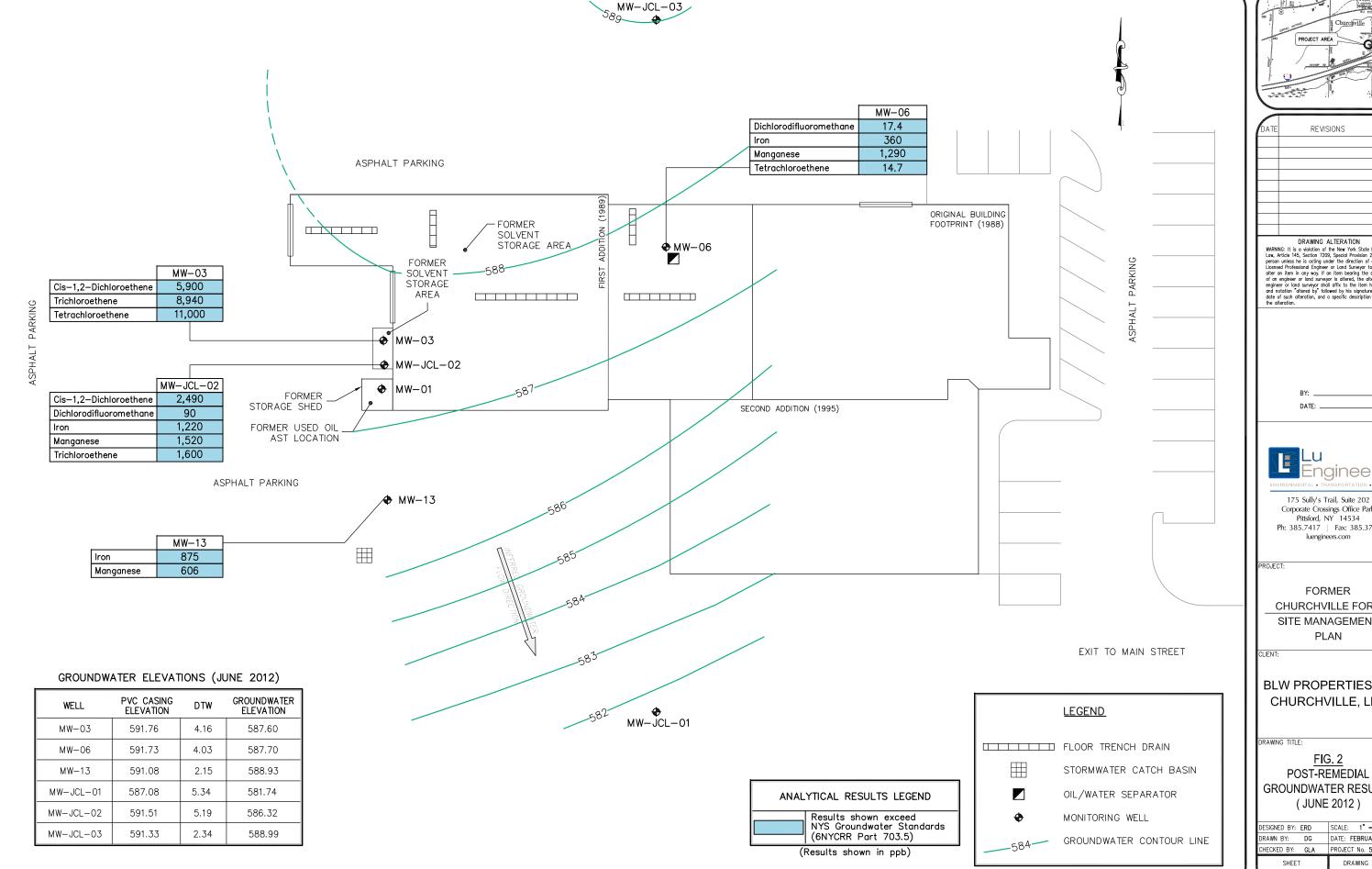
FIGURE 1. SITE LOCATION MAP

TOWN OF RIGA - FORMER CHURCHVILLE FORD

OKAR EQUIPMENT
111 SOUTH MAIN STREET
CHURCHVILLE, NY MONROE COUNTY

NY	MONROE	COUNTY
P.N.	5701-11	

DATE:	FEBRUARY 2011
SCALE:	1: 24,000
DRAWN BY:	DLS
	T RASTER QUADRANGLE, N / NEW YORK, MONROE COUNTY 7 / USGS CONTOUR DATA: 1950



No.		-
DATE	REVISIONS	BY

DRAWING ALTERATION

WARNING: It is a violation of the New York State Education
Low, Article 145, Section 7209, Special Provision 2, for any
person unless he is acting under the direction of a
Licensed Professional Engineer or Land Surveyor to
a Licensed Professional Engineer or Land Surveyor to
alter on Item in any way. If an item bearing the seal
of an engineer or land surveyor soll affect to the Item his seal
and notation "altered by" followed by his signature and
date of such alteration, and a specific description of
the alteration.



Corporate Crossings Office Park Pittsford, NY 14534 Ph: 385.7417 | Fax: 385.3741 luengineers.com

FORMER CHURCHVILLE FORD SITE MANAGEMENT

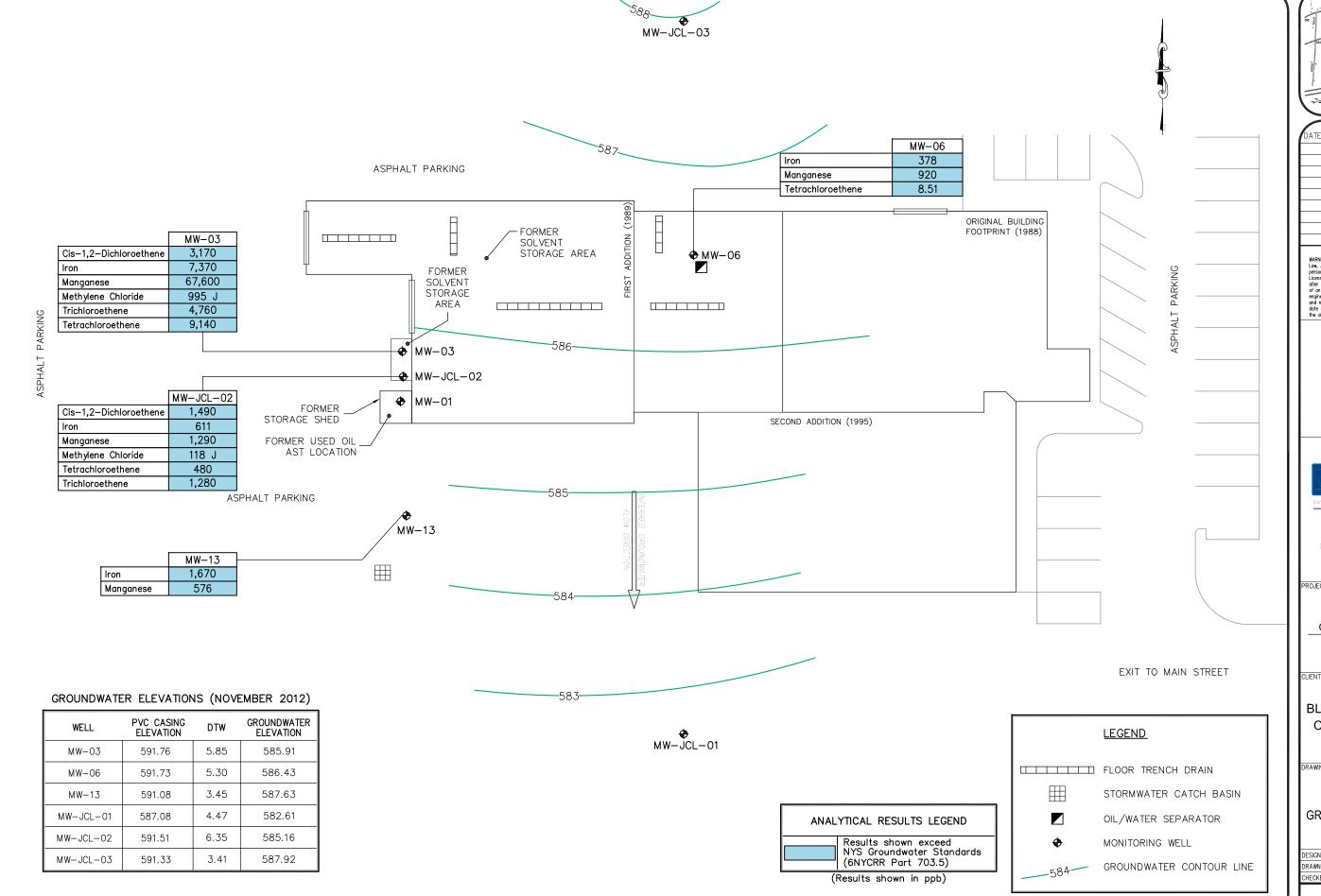
BLW PROPERTIES OF CHURCHVILLE, LLC

POST-REMEDIAL GROUNDWATER RESULTS (JUNE 2012)

	DESIGNED BY: E	RD	SCALE: 1" = 30'
0	DRAWN BY:	DG	DATE: FEBRUARY 2013
(CHECKED BY:	GLA	PROJECT No. 50185-01
ı	SHEET		DRAWING No.

1 of 1

ENV-1





DATE	REVISIONS	BY

DRAWING ALTERATION
WARNING: It is a violation of the New York State Education
Low, Article 145, Section 7209, Special Provision 2, for any
person unless he is acting under the direction of a
Licensed Professional Engineer or Land Surveyor to
alter on Item in any way. If an item bearing the seal
of an engineer or land surveyor so altered, the altering
engineer or land surveyor shall fift, to the Item his seal
and notation "altered by" followed by his signature and
date of such alteration, and a specific description of
the alteration.



175 Sully's Trail, Suite 202 Corporate Crossings Office Park Pittsford, NY 14534 Ph: 385.7417 | Fax: 385.3741 luengineers.com

FORMER CHURCHVILLE FORD SITE MANAGEMENT PLAN

BLW PROPERTIES OF CHURCHVILLE, LLC

DRAWING TITLE:

FIG. 3 POST-REMEDIAL **GROUNDWATER RESULTS** (NOVEMBER 2012)

1 of 1	ENV-1
SHEET	DRAWING No.
CHECKED BY: GLA	PROJECT No. 50185-01
DRAWN BY: DG	DATE: FEBRUARY 2013
DESIGNED BY: ERD	SCALE: 1" = 30'

Former Churchville Ford Site (#V00658-8)

Village of Churchville Town of Riga

Table 1 Groundwater Results - VOCs

	NYS	MV	V-03	MV	V-06	MV	V-13	MW-J	ICL-02
Detected Parameters ¹	Groundwater	Post Ren	nediation						
		Jun-12	Nov-12	Jun-12	Nov-12	Jun-12	Nov-12	Jun-12	Nov-12
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	995 J	ND	ND	ND	ND	ND	118 J
Methyl Ethyl Ketone (2-butanone)	50*	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	17.4	1.75 J	ND	ND	90 J	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl Ether (MTBE)	10*	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11,000	9,140	14.7	8.51	ND	ND	1,600	480
Trichloroethene	5	8,940	4,760	2.22	1.92 J	ND	ND	3,070	1,280
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5,900	3,170	ND	ND	ND	ND	2,490	1,490

~ parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

J- not detected above reporting limit
ND- not detected above reporting limit

Former Churchville Ford Site (#V00658-8) <u>Village of Churchville</u> <u>Town of Riga</u>

Table 2 Groundwater Results - Metals

			V-03	MV	V-06	MV	V-13	MW-J	CL-02
	Groundwater	Post Ren	nediation						
Parameters ¹	Standards ²	Jun-12	Nov-12	Jun-12	Nov-12	Jun-12	Nov-12	Jun-12	Nov-12
Iron	300**	134	7,370	360	378	875	1,670	5,250	611
Manganese	300**	293	67,600	1,290	920	606	576	2,260	1,290

~ parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

LAB REPORT FOR METALS ANALYSIS IN WATER

Client:

Lu Engineers

Lab Project No.: 12:2567

Wilkins RV

Sample Type:

Water

Client Job Site:

SMP Semi-Annual GW Sampling

Method:

EPA 200.7

Client Job No.:

N/A

Date Sampled: 06/15/2012 **Date Received:** 06/15/2012

Date Analyzed: 06/21/2012

Lab Sample No.	Field ID No.	Field Location	Iron Results (mg/L)	Manganese Results (mg/L)
12:2567-01	N/A	MW-03_06-15-12	0.134	2.93
12:2567-02	N/A	MW-06_06-15-12	0.360	1.29
12:2567-03	N/A	MW-13_06-15-12	0.875	0.606
12:2567-04	N/A	MW-JCL-02_06-15-12	5.25	2.26

ELAP ID No.: 10958

Comments:

Approved By:

Bruce Hoogesteger, Technical Director



Client: Lu Engineers, Inc.

Client Job Site:

Wilkins RV

Lab Project Number: 12:2567

SMP Semi-Annual GW Sampling

N/A

Lab Sample Number: 12:2567-01

Client Job Number:

Field Location:

MW-03_06-15-12

Date Sampled:

06/15/2012

Field ID Number:

N/A

Date Received:

06/15/2012

Sample Type: Water Date Analyzed:

06/21/2012

Compound	Results in ug / L
Acetone	< 2,000
Benzene	< 140
Bromochloromethane	< 1,000
Bromodichloromethane	< 400
Bromoform	< 1,000
Bromomethane	< 400
2-Butanone	< 2,000
Carbon disulfide	< 400
Carbon Tetrachloride	< 400
Chlorobenzene	< 400
Chloroethane	< 400
Chloroform	< 400
Chloromethane	< 400
Cyclohexane	< 2,000
Dibromochloromethane	< 400
1,2-Dibromo-3-Chloropropane	< 2,000
1,2-Dibromoethane	< 400
1,2-Dichlorobenzene	< 400
1,3-Dichlorobenzene	< 400
1,4-Dichlorobenzene	< 400
Dichlorodifluoromethane	< 400
1,1-Dichloroethane	< 400
1,2-Dichloroethane	< 400
1,1-Dichloroethene	< 400
cis-1,2-Dichloroethene	5,900
trans-1,2-Dichloroethene	< 400
FLAP Number 10958	Method

Compound	Results in ug / L
1,2-Dichloropropane	< 400
cis-1,3-Dichloropropene	< 400
trans-1,3-Dichloropropene	< 400
1,4-Dioxane	< 4,000
Ethylbenzene	< 400
Freon 113	< 400
2-Hexanone	< 1,000
Isopropylbenzene	< 400
Methyl acetate	< 400
Methyl tert-butyl Ether	< 400
Methylcyclohexane	< 400
Methylene chloride	< 1,000
4-Methyl-2-pentanone	< 1,000
Styrene	< 1,000
1,1,2,2-Tetrachloroethane	< 400
Tetrachloroethene	11,000
Toluene	< 400
1,2,3-Trichlorobenzene	< 1,000
1,2,4-Trichlorobenzene	< 1,000
1,1,1-Trichloroethane	< 400
1,1,2-Trichloroethane	< 400
Trichloroethene	8,940
Trichlorofluoromethane	< 400
Vinyl chloride	< 400
m,p-Xylene	< 400
o-Xylene	< 400

ELAP Number 10958

Method: EPA 8260B

Data File: V98207.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director



Client: Lu Engineers, Inc.

Client Job Site: Wilkins RV

Lab Project Number: 12:2567

Lab Sample Number: 12:2567-02 SMP Semi-Annual GW Sampling

Client Job Number: N/A

Field Location: MW-06_06-15-12

Date Sampled:

06/15/2012

Field ID Number: Sample Type:

N/A

Date Received:

06/15/2012

Date Analyzed: Water

06/21/2012

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00
Cyclohexane	< 10.0
Dibromochloromethane	< 2.00
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 2.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00
Dichlorodifluoromethane	17.4
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
ELAP Number 10958	Metho

Compound	Results in ug / L
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
1,4-Dioxane	< 20.0
Ethylbenzene	< 2.00
Freon 113	< 2.00
2-Hexanone	< 5.00
Isopropylbenzene	< 2.00
Methyl acetate	< 2.00
Methyl tert-butyl Ether	< 2.00
Methylcyclohexane	< 2.00
Methylene chloride	< 5.00
4-Methyl-2-pentanone	< 5.00
Styrene	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	14.7
Toluene	< 2.00
1,2,3-Trichlorobenzene	< 5.00
1,2,4-Trichlorobenzene	< 5.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	2.22
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00

Method: EPA 8260B

Data File: V98205.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director
This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition 122567V2 requirements upon receipt.



Client: Lu Engineers, Inc.

Client Job Site:

Wilkins RV

Lab Project Number: 12:2567

SMP Semi-Annual GW Sampling

Lab Sample Number: 12:2567-03

Client Job Number:

N/A MW-13 06-15-12

Date Sampled:

06/15/2012

Field Location: Field ID Number:

Date Received:

06/15/2012

Sample Type:

N/A Water

Date Analyzed:

06/21/2012

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00
Cyclohexane	< 10.0
Dibromochloromethane	< 2.00
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 2.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00
Dichlorodifluoromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
FLAP Number 10958	Metho

Compound	Results in ug / L
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
1,4-Dioxane	< 20.0
Ethylbenzene	< 2.00
Freon 113	< 2.00
2-Hexanone	< 5.00
Isopropylbenzene	< 2.00
Methyl acetate	< 2.00
Methyl tert-butyl Ether	< 2.00
Methylcyclohexane	< 2.00
Methylene chloride	< 5.00
4-Methyl-2-pentanone	< 5.00
Styrene	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
Toluene	< 2.00
1,2,3-Trichlorobenzene	< 5.00
1,2,4-Trichlorobenzene	< 5.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V98206.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director
This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition 122567V3 requirements upon receipt.



Client: Lu Engineers, Inc.

Client Job Site:

Wilkins RV

Lab Project Number: 12:2567

SMP Semi-Annual GW Sampling

Lab Sample Number: 12:2567-04

Client Job Number: Field Location:

N/A

Date Sampled:

06/15/2012

Field ID Number:

MW-JCL-02_06-15-12 N/A

Date Received:

06/15/2012

Sample Type:

Water

Date Analyzed:

06/21/2012

Compound	Results in ug / L
Acetone	< 500
Benzene	< 35.0
Bromochloromethane	< 250
Bromodichloromethane	< 100
Bromoform	< 250
Bromomethane	< 100
2-Butanone	< 500
Carbon disulfide	< 100
Carbon Tetrachloride	< 100
Chlorobenzene	< 100
Chloroethane	< 100
Chloroform	< 100
Chloromethane	< 100
Cyclohexane	< 500
Dibromochloromethane	< 100
1,2-Dibromo-3-Chloropropane	< 500
1,2-Dibromoethane	< 100
1,2-Dichlorobenzene	< 100
1,3-Dichlorobenzene	< 100
1,4-Dichlorobenzene	< 100
Dichlorodifluoromethane	J 90.0
1,1-Dichloroethane	< 100
1,2-Dichloroethane	< 100
1,1-Dichloroethene	< 100
cis-1,2-Dichloroethene	2,490
trans-1,2-Dichloroethene	< 100

Compound	Results in ug / L
1,2-Dichloropropane	< 100
cis-1,3-Dichloropropene	< 100
trans-1,3-Dichloropropene	< 100
1,4-Dioxane	< 1,000
Ethylbenzene	< 100
Freon 113	< 100
2-Hexanone	< 250
Isopropylbenzene	< 100
Methyl acetate	< 100
Methyl tert-butyl Ether	< 100
Methylcyclohexane	< 100
Methylene chloride	< 250
4-Methyl-2-pentanone	< 250
Styrene	< 250
1,1,2,2-Tetrachloroethane	< 100
Tetrachloroethene	1,600
Toluene	< 100
1,2,3-Trichlorobenzene	< 250
1,2,4-Trichlorobenzene	< 250
1,1,1-Trichloroethane	< 100
1,1,2-Trichloroethane	< 100
Trichloroethene	3,070
Trichlorofluoromethane	< 100
Vinyl chloride	< 100
m,p-Xylene	< 100
o-Xylene	< 100

ELAP Number 10958

Method: EPA 8260B

Data File: V98208.D

Comments: ug / L = microgram per Liter

Surrogate outliers indicate probable matrix interference

Signature:

Bruce Hoogesteger: Technical Director



Client: Lu Engineers, Inc.

Client Job Site:

Wilkins RV

Lab Project Number: 12:2567

SMP Semi-Annual GW Sampling

Lab Sample Number: 12:2567-05

Client Job Number: Field Location:

N/A Trip Blank 6-15-12

Date Sampled:

06/15/2012

Field ID Number:

N/A

Date Received:

06/15/2012

Sample Type:

Water

Date Analyzed:

06/20/2012

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00
Cyclohexane	< 10.0
Dibromochloromethane	< 2.00
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 2.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00
Dichlorodifluoromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
C1 AD November 10050	Motho

Compound	Results in ug / L
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
1,4-Dioxane	< 20.0
Ethylbenzene	< 2.00
Freon 113	< 2.00
2-Hexanone	< 5.00
Isopropylbenzene	< 2.00
Methyl acetate	< 2.00
Methyl tert-butyl Ether	< 2.00
Methylcyclohexane	< 2.00
Methylene chloride	< 5.00
4-Methyl-2-pentanone	< 5.00
Styrene	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
Toluene	< 2.00
1,2,3-Trichlorobenzene	< 5.00
1,2,4-Trichlorobenzene	< 5.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V98186.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

CHAIN OF CUSTODY

1092

	mples	5 6/15 YOM Samples	152.5	
6/15/12 1 /00 Date/Time	N Clicabeth a Honch	d @	Temperature:	Comments:
	N Received By	< 	Holding Time:	Comments:
Date/Time	N Relinguished By	Y	Preservation:	Comments:
Total Cost:	N Sampled By	\ \ \	Container Type:	Comments:
delivered by Lu. EAHW		NELAC Compliance	Receipt Parameter	Rec
Custody seals NIA bic		Sample Condition: Per NELAC/ELAP 210/241/242/243/244	on: Per NELAC/ELA	Sample Conditi
		THIS LINE**	USE ONLY BELOW THIS LINE**	*LAB USE
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				9
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			water desired and a second	7
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0 4	02_66-15-12 VXXX	X MW-JCL-02	72:05	4 6/5/17
03	106-15-12 XXX	X 3W-3	72:50	3.615/12
EDD (No hardcopy needs) 02	06-15-12 XXX	X MW-06-	23.	26/15/12
CATA W/Enis 01	06-15-12 water 3 XXX	X MW-03	===	16/15/12
	×- ORTIZ TCL 8. Fe Mn	σ	m	
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List per history.	= z -1 z o o	5	300	
	engineers .com/need NYSDEC Equis GOD frunt; The Cat A	edetweiler@luengineers.comy	&M Sampling	amnual &
1 2 3 1/8/10	ATTN:	, 	1-SWP Sewn.	MINGHS AV-SMP
STD OTHER	FAX: PHONE: FAX:	PHONE:	(800) /24-199/ 311	(585) 647-2530 ° FAX: (585) 647-3
E: ZIP: TURNAROUND TIME: (WORKING DAYS)	4'S TVOIT SWITE 202 ADDRESS: DOMU	ADDRESS: 75 SCA) 4608	179 Lake Avenue Rochester, NY 14608
LAB PROJECT #: CLIENT PROJECT #:	COMPANY:	COMPANY:	SEC	SERVICES,
I An DEC ICCT 4.	REPORT TO: INVOICE TO:			

LAB REPORT FOR METALS ANALYSIS IN WATER

Client:

Lu Engineers, Inc.

GW Sampling

Lab Project No.: 12:4720

Client Job Site:

Wilkins RV-SMP Semi-annual

Sample Type: Method:

Water EPA 6010B

Client Job No.:

N/A

Date Sampled: 11/12/2012 **Date Received:** 11/13/2012

Date Received: 11/13/2012 **Date Analyzed:** 11/15-16/2012

Lab Sample No.	Field ID No.	Field Location	Iron Results (mg/L)	Manganese Results (mg/L)
12:4720-01	N/A	MW-JCL-02_11-12-12	0.611	1.29
12:4720-02	N/A	MW-03_11-12-12	7.37	67.6
12:4720-03	N/A	MW-13_11-12-12	1.67	0.576
12:4720-04	N/A	MW-06_11-12-12	0.378	0.920

ELAP ID No.: 10958

Comments:

Approved By:

Bruce Hoogesteger, Technical Director



Client: Lu Engineers, Inc.

Client Job Site: Wilkins RV-SMP Semi-annual

GW Sampling

Lab Project Number: 12:4720

Lab Sample Number: 12:4720-01

Client Job Number: N/A

Field Location:

MW-JCL-02_11-12-12

Date Sampled:

11/12/2012

Field ID Number:

N/A

Date Received:

11/13/2012

Sample Type: Water Date Analyzed:

< 50.0

< 50.0

< 50.0

< 50.0

< 50.0

< 50.0

< 50.0

< 50.0

1,490

11/14/2012

Results in ug / L
< 250
< 17.5
< 125
< 50.0
< 125
< 50.0
< 250
< 50.0
< 50.0
< 50.0
< 50.0
< 50.0
< 50.0
< 250
< 50.0
< 250
< 50.0

Compound	Results in ug / L
1,2-Dichloropropane	< 50.0
cis-1,3-Dichloropropene	< 50.0
trans-1,3-Dichloropropene	< 50.0
1,4-Dioxane	< 500
Ethylbenzene	< 50.0
Freon 113	< 50.0
2-Hexanone	< 125
Isopropylbenzene	< 50.0
Methyl acetate	< 50.0
Methyl tert-butyl Ether	< 50.0
Methylcyclohexane	< 50.0
Methylene chloride	J 118
4-Methyl-2-pentanone	< 125
Styrene	< 125
1,1,2,2-Tetrachloroethane	< 50.0
Tetrachioroethene	480
Toluene	< 50.0
1,2,3-Trichlorobenzene	< 125
1,2,4-Trichlorobenzene	< 125
1,1,1-Trichloroethane	< 50.0
1,1,2-Trichloroethane	< 50.0
Trichloroethene	1,280
Trichlorofluoromethane	< 50.0
Vinyl chloride	< 50.0
m,p-Xylene	< 50.0
o-Xylene	< 50.0

ELAP Number 10958

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Dichlorodifluoromethane

Analytical Method: EPA 8260B

Data File: X01877.D

Prep Method: EPA 5030

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition 124720V1.XLS requirements upon receipt.



Client: Lu Engineers, Inc.

Client Job Site: Wilkins RV-SMP Semi-annual

Lab Project Number: 12:4720 **GW Sampling** Lab Sample Number: 12:4720-02

Client Job Number:

Field Location: MW-03_11-12-12 Field ID Number: N/A

Date Sampled: 11/12/2012 Date Received: 11/13/2012

Sample Type: Water

Date Analyzed: 11/14/2012

ı		B
Į	Compound	Results in ug / L
	Acetone	< 2,000
	Benzene	< 140
	Bromochloromethane	< 1,000
	Bromodichloromethane	< 400
	Bromoform	< 1,000
	Bromomethane	< 400
	2-Butanone	< 2,000
	Carbon disulfide	< 400
	Carbon Tetrachloride	< 400
	Chlorobenzene	< 400
	Chloroethane	< 400
	Chloroform	< 400
	Chloromethane	< 400
	Cyclohexane	< 2,000
	Dibromochloromethane	< 400
	1,2-Dibromo-3-Chloropropane	< 2,000
	1,2-Dibromoethane	< 400
	1,2-Dichlorobenzene	< 400
	1,3-Dichlorobenzene	< 400
	1,4-Dichlorobenzene	< 400
	Dichlorodifluoromethane	< 400
	1,1-Dichloroethane	< 400
	1,2-Dichloroethane	< 400
	1,1-Dichloroethene	< 400
•	cis-1,2-Dichloroethene	3,170
	trans-1,2-Dichloroethene	< 400

Compound	Results in ug / L
1,2-Dichloropropane	< 400
cis-1,3-Dichloropropene	< 400
trans-1,3-Dichloropropene	< 400
1,4-Dioxane	< 4,000
Ethylbenzene	< 400
Freon 113	< 400
2-Hexanone	< 1,000
Isopropylbenzene	< 400
Methyl acetate	< 400
Methyl tert-butyl Ether	< 400
Methylcyclohexane	< 400
Methylene chloride	J 995
4-Methyl-2-pentanone	< 1,000
Styrene	< 1,000
1,1,2,2-Tetrachloroethane	< 400
Tetrachloroethene	9,140
Toluene	< 400
1,2,3-Trichlorobenzene	< 1,000
1,2,4-Trichlorobenzene	< 1,000
1,1,1-Trichloroethane	< 400
1,1,2-Trichloroethane	< 400
Trichloroethene	4,760
Trichlorofluoromethane	< 400
Vinyl chloride	< 400
m,p-Xylene	< 400 .
o-Xylene	< 400

ELAP Number 10958

Analytical Method: EPA 8260B

Data File: X01879.D

Prep Method: EPA 5030

Comments: ug / L = microgram per Liter

Signature:



Client: Lu Engineers, Inc.

Client Job Site: Wilkins RV-SMP Semi-annual

Lab Project Number: 12:4720 **GW Sampling** Lab Sample Number: 12:4720-03

Client Job Number: N/A

Field Location: MW-13_11-12-12

Field ID Number: N/A Sample Type: Water Date Sampled: 11/12/2012 Date Received: 11/13/2012 11/14/2012

Date Analyzed:

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00
Cyclohexane	< 10.0
Dibromochloromethane	< 2.00
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 2.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00
Dichlorodifluoromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
1,4-Dioxane	< 20.0
Ethylbenzene	< 2.00
Freon 113	< 2.00
2-Hexanone	< 5.00
Isopropylbenzene	< 2.00
Methyl acetate	< 2.00
Methyl tert-butyl Ether	< 2.00
Methylcyclohexane	< 2.00
Methylene chloride	< 5.00
4-Methyl-2-pentanone	< 5.00
Styrene	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
Toluene	< 2.00
1,2,3-Trichlorobenzene	< 5.00
1,2,4-Trichlorobenzene	< 5.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00

Data File: X01878.D

ELAP Number 10958

Analytical Method: EPA 8260B

Prep Method: EPA 5030

Comments: ug / L = microgram per Liter

Signature:



Client: Lu Engineers, Inc.

Client Job Site: Wilkins RV-SMP Semi-annual

GW Sampling

Lab Project Number: 12:4720 Lab Sample Number: 12:4720-04

Client Job Number: N/A

Field Location:

MW-06 11-12-12

Field ID Number:

< 10.0 < 2.00

< 10.0

< 2.00

< 2.00

< 2.00 < 2.00

J 1.75

< 2.00

< 2.00

< 2.00

< 2.00

< 2.00

Date Sampled:

11/12/2012

Sample Type:

N/A Water Date Received: Date Analyzed:

Compound

1,2-Dichloropropane

cis-1,3-Dichloropropene trans-1,3-Dichloropropene 11/13/2012 11/14/2012

> Results in ug / I < 2.00

> > < 2.00

< 2.00

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00

150	01.00
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00

1,4-Dioxane	< 20.0	
Ethylbenzene	< 2.00	
Freon 113	< 2.00	
2-Hexanone	< 5.00	
Isopropylbenzene	< 2.00	
Methyl acetate	< 2.00	
Methyl tert-butyl Ether	< 2.00	
Methylcyclohexane	< 2.00	
Methylene chloride	< 5.00	
4-Methyl-2-pentanone	< 5.00	
Styrene	< 5.00	
1,1,2,2-Tetrachloroethane	< 2.00	
Tetrachloroethene	8.51	
Toluene	< 2.00	
1,2,3-Trichlorobenzene	< 5.00	
1,2,4-Trichlorobenzene	< 5.00	
1,1,1-Trichloroethane	< 2.00	
1,1,2-Trichloroethane	< 2.00	
	Ethylbenzene Freon 113 2-Hexanone Isopropylbenzene Methyl acetate Methyl tert-butyl Ether Methylcyclohexane Methylene chloride 4-Methyl-2-pentanone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,1,1-Trichloroethane	Ethylbenzene < 2.00

ELAP Number 10958

Cyclohexane

Dibromochloromethane 1,2-Dibromo-3-Chloropropane

1,2-Dibromoethane

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene Dichlorodifluoromethane

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analytical Method: EPA 8260B

Trichloroethene

Vinyl chloride

m,p-Xylene

o-Xylene

Trichlorofluoromethane

< 2.00 Data File: X01863.D

1.92

< 2.00

< 2.00

< 2.00

Prep Method: EPA 5030

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director



Client: Lu Engineers, Inc.

Client Job Site:

Wilkins RV-SMP Semi-annual

Lab Project Number: 12:4720

GW Sampling

Lab Sample Number: 12:4720-05

Client Job Number:

Field Location:

TRIP BLANK_11-12-12

Date Sampled:

11/12/2012

Field ID Number:

N/A

N/A

Date Received:

11/13/2012

Sample Type:

Water

Date Analyzed:

11/14/2012

Compound	Results in ug / L
Acetone	< 10.0
Benzene	< 0.700
Bromochloromethane	< 5.00
Bromodichloromethane	< 2.00
Bromoform	< 5.00
Bromomethane	< 2.00
2-Butanone	< 10.0
Carbon disulfide	< 2.00
Carbon Tetrachloride	< 2.00
Chlorobenzene	< 2.00
Chloroethane	< 2.00
Chloroform	< 2.00
Chloromethane	< 2.00
Cyclohexane	< 10.0
Dibromochloromethane	< 2.00
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 2.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00
Dichlorodifluoromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
1,4-Dioxane	< 20.0
Ethylbenzene	< 2.00
Freon 113	< 2.00
2-Hexanone	< 5.00
Isopropylbenzene	< 2.00
Methyl acetate	< 2.00
Methyl tert-butyl Ether	< 2.00
Methylcyclohexane	< 2.00
Methylene chloride	< 5.00
4-Methyl-2-pentanone	< 5.00
Styrene	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
Toluene	< 2.00
1,2,3-Trichlorobenzene	< 5.00
1,2,4-Trichlorobenzene	< 5.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00

Data File: X01860.D

ELAP Number 10958

Analytical Method: EPA 8260B

Prep Method: EPA 5030

Comments: ug / L = microgram per Liter

Signature:



CHAIN OF CUSTODY



Chain of Custody Supplement

Client:	Lu	Completed by:	EAH
Lab Project ID:	12:4720	Date:	11/12/12
	Sample Conditio Per NELAC/ELAP 21(
NE Condition	ELAC compliance with the sample o Yes	ondition requirements upo No	n receipt N/A
Container Type			
Comments		•	•
Transferred to method- compliant container			
Headspace (<1 mL) Comments	∑ Voas		X Metals
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments	<u> </u>		
Temperature Comments	La Ciced from	Samples @17:	Metals
Sufficient Sample Quantity Comments			

SITE-WIDE INSPECTION FORM FORMER CHURCHVILLE FORD VCP SITE

Date: 6/5/12

Name: Eric Detweiler

Company: Lu Engineers (for Wilkins RV)

Position of person(s) conducting maintenance/inspection activities: Environmental Consultant

Document the following information during each biannual site visit for groundwater sampling:

- 1. Compliance with all ECs/ICs, including site usage Yes, all ECs/ICs appear to be in proper compliance.
- 2. An evaluation of the condition and continued effectiveness of the Site Cap and SSDS 2. An evaluation of the condition and continued effectiveness of the Site Cap and SSDS

 Asphalt Cop generally in good condition. Some minor potholes/cracks on

 north side of building with some asphalt patching in place (not source area).

 Some minor cracking/patched asphalt on west end of building in source

 area but generally in good condition. Interior floor of building in very good

 condition throughout SSDS system working as designed and drawing same

 amount of vacuum as upon initial start up (0.8" wc@Bay3, 0.5" wc@Bay5)

 3. General site conditions at the time of the inspection

 Generally Site conditions are very good; much improved "house keeping" over previous

 punerally Nearly all chemicals and cleaners used by previous owner are now

 gove; No change in condition of interior floor in source area or Site Cap.

 4. The site management activities being conducted including where appropriate confirmation

- 4. The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection No sampling of air required per SMP as long as SSDS remains functional: conduct Sampling of 4 site monitoring wells including MW-3, MW-b, MW-13 and MW-JCL-2 for TCL VOC and Fe/Mn analysis.
- 5. Compliance with permits and schedules included in the Operation and Maintenance Plan Yes; this is first round of bi-annual sampling and inspection for 2012.
- 6. Confirm that site records are up to date Yes
- 7. Conduct a visual inspection of the complete SSDS (i.e., vent fan, piping, warning device, labeling on systems, etc.). Both SSDS fans are running as normal & generating Same Sub-slab vacuum as upon installation (Bay 3 fan operating at 0.8" WC and Bay 5 fam operating @ 0.5" WC); all piping in like-new condition, both manameters functioning as normal, labeling is intact

8.	Conduct an inspection of all surfaces to which vacuum is applied.	
	Concrete workshop floor in very good condition	unchanged since
	Concrete workshop floor in very good condition, SSDS installation; epoxy coated throughout	J.

9. Inspect all components for condition and proper operation. Are both fans operational? Yes, Both fans operational and manameters functioning as normal.

- 10. Inspect the exhaust or discharge point to verify that no air intakes have been located nearby.

 No new air intakes near discharge pt. since install(| none near discharge at true of install)
- 11. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYSDOH Guidance (i.e.; with the systems running, smoke tubes will used to check for leaks through concrete cracks, floor joints and at the suction points and any leaks will be resealed until smoke is no longer observed flowing through the opening).

No leaks detected throughout system

12. Interview an appropriate occupant seeking comments and observations regarding the operation of the System.

Shop manager indicates that system has been fully operational Since install and is checked daily.

Any Questions or Service needed to the SSDS call MITIGATION TECH at 1-800-637-9228

End of Inspection Form

Date: 11/12/2012
Name: Eric Detweiler
Company: Lu Engineers (for Wilkins RV)
Position of person(s) conducting maintenance/inspection activities: Environmental Consultant
Document the following information during each biannual site visit for groundwater sampling:
1. Compliance with all ECs/ICs, including site usage Yes, all ECs/ICs appear to be in compliance.
2. An evaluation of the condition and continued effectiveness of the Site Cap and SSDS Asphalt (Site Cap) generally in good condition surrounding building. Some min potholes on north side of building with some asphalt potching in place (not within source area); some minor cracking/patched asphalt on west-end of bldg in source allow generally this area is in good condition; Interior concrete floor in workshop in very good condition throughout the poxy coated. SSDS system working as designed a drawing Same vacuum as upon install (0.5 wc@ Bay 5, 0.8 wc Bay 3) 3. General site conditions at the time of the inspection Site in very good condition overall; much of asphalt covered by RVs during inspection. Very good "house keeping" in workshop area with minimal amous of cleaners chemicals 4. The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection Ground water sampling being conducted concurrently with site inspection. No air sampling required with SSDS in place of functional. Wells sampled include NW-3, NW-5, NW-5CL-62
5. Compliance with permits and schedules included in the Operation and Maintenance Plan Yes, this is 2nd GW sampling event of 2012 (bi-annual required per SME)
6. Confirm that site records are up to date Yes

SITE-WIDE INSPECTION FORM

FORMER CHURCHVILLE FORD VCP SITE

7. Conduct a visual inspection of the complete SSDS (i.e., vent fan, piping, warning device, labeling on systems, etc.). Both SSDS fans running as designed and are generating proper vacuum (Bay 3 fan operating@ 0.8" wc, Bay 5 fan@ 0.5" Manometers functioning proper by on both piping headers, all piping/exhaust in very good condition; labeling intact > no apparent leaks

- 8. Conduct an inspection of all surfaces to which vacuum is applied.

 Concrete workshop floor in very good and ition; epoxy coated; unchanged since last inspection (June 2012)
- 9. Inspect all components for condition and proper operation. Are both fans operational? Yes, both functioning as intended.
- 10. Inspect the exhaust or discharge point to verify that no air intakes have been located nearby.

 No air intakes in proximity to SSDS exhaust is no new air intakes
- 11. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYSDOH Guidance (i.e.; with the systems running, smoke tubes will used to check for leaks through concrete cracks, floor joints and at the suction points and any leaks will be resealed until smoke is no longer observed flowing through the opening).

No leaks detected in SSDS

12. Interview an appropriate occupant seeking comments and observations regarding the operation of the System.

Shop manager check system duity; indicates that no problems have been observed with SSDS since justallation

Any Questions or Service needed to the SSDS call MITIGATION TECH at 1-800-637-9228

End of Inspection Form



Project Name Wilkins RV Location ID MW-06 Field Sample ID MW-06_D6-15-12 Sampling Event Activity Time 12120 Sample Time 13.15 Date 6/15/12									
SAMPL	ING NOT	ES Al	uell vol =	2.6 gal	(×3=7.	8gal			
Final De Screen I Total Vo [purge volu	epth to Wa Length clume Pur ume (millilite Water in casi	ater 4.6 tter // O ged 8 rs per minute) > ng - 2" diamet	feet feet gall c time duration	Well Pump ons PID V (minutes) x	Depth o Intake De Well Head 0.00026 gal/m	epth	fee	<u>v</u>	Vell Diameter 2" Vell Integrity: Cap ok Casing ok Locked yes Collar ok
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
12:40	9.05	-	17.2	7.71	NA	12.4	1423	15.6	Comments
13:15		4 gal 8 gal	17.1	7.80	MA	34.9	1377	13.1	
P	Purge Obse	ervations: 1	nitial pung rized:y	e unter v	rose/rust u	clov, high	turbility	cleaning a	Her 4 gal removed
Type of Type of Type of	Pump:_ <u>ط</u> Tubing: Water Qua FICAL PA er <u>Vol</u>	ality Meter:	Dailer Lamotte 20	,	Гу гон 6Р 	LOC	ibrated: CATION N ∪ell Vol =	OTES	l.3=7.8g-Q
Signature Checked		En De	fil .		- -				



	Name <u>L</u> n ID <u>I</u> Time <u>I</u>	DIKINS MW-19 21:00	RV 3	Field Samp	Sample II ole Time _	/2 -	Job # $\frac{56/85-01}{\text{Sampling Event # }}$ Date $\frac{(\nu/15/12)}{2}$		
SAMPL	ING NOT	<u>es</u>							·
Final De Screen I Total Vo [purge volu	epth to Wa Length clume Purg ame (milliliter Water in casis DATA	s per minute) x ng – 2" diamet	feed feed feed feed feed feed feed feed	Well Pump ons PID V	Depth Depth	pth	R fee	<u>t</u>	Well Diameter 2" Well Integrity: Cap Casing Locked Collar broken
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
			17.2	7.18	NA	27.6	695.6	-55	Comments
	1.6								
P	urge Obse	rvations:	Clean	100					
Type of I Type of I Type of I Type of I ANALYT Paramete	Pump:_de Tubing: Water Qua FICAL PA Er Volu	llity Meter: RAMETE R	tion Lamotle Myron Sample Co	2620we LoP		LOC	Mo loolts	DTES OL = LOCH	cover Collar - needs to



Project 1	Name Wil	Kins RV						ī	lob # 50/85-01
Activity Time /0:45 Field Sample ID Mw-JCL-02_06-15-12 Sampling Event # Sample Time 17:05 Date 6/15/12									
SAMPL	ING NOT	<u>ES</u>							,
Final De Screen I Total Ve [purge volume of	Length	ater 5, ater 34, 5 Iter 34, 5 JO ged 12 rs per minute) x ing -2" diamet	feet feet gall x time duration ter = 0.163 gall	Well Pump lons PID V (minutes) x (ons per foot o	0.00026 gal/m of depth, 4" d	35.75 epth	fee JA A	<u>t</u> V	Well Diameter 2' Well Integrity: Cap ok Casing ok Locked yes Collar ok
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond.	ORP	Comments
11:14	Water (It)			7.15	NA NA	19.9	(mS/cm)	(mV) -31	Comments
11:50		5 to gal	15.2	7.89	NA	31.5	1131	-39	e15.11 4. 1.717
12:00	34.22	10 gal 12 gal	15.0	7.90	NA	92.5	11 34	10	Slight tarbidity
		1-3-		7.10		15.			1 / 40 018119
EOUIPM Type of	1ENT DOC	Bailer	-	1 inaeus	ed as wa	Ill bailed m)	near dry,	no odors	nosheen
Type of	Tubing:	<u> </u>	11.11. 21	70.1					
Type of	Water Qua	ality Meter:	Lamotte 20	20, Myn	on 6P	Cali	brated:	nes,	
ANALY	ΓΙCAL PA	RAMETER	28			LOC	CATION N	OTES	
Paramete			<u>Sample Co</u>	llected			well vol =		,
VOCs	2x	40 ml			_			0	
Fe 3N	In 1x	250 ml	/	1					
			··		_				
						·-			
			~~		_	-			
Signature	e: <i>4</i>	in Det	hal			-		_	
Checked	By:				_	-			



Project Name WIKINS RV Location ID MW-3 Field Sample ID MW-03_06-15-12 Sampling Event # J Activity Time 10:45 Sample Time 11:45 Date 6-15-12										
SAMPLING NOTES										
Initial Depth to Water										
Depth to Time Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (alaS/cm)	ORP (mV)	Comments		
11:45		15.4	8.0		<i>)5.</i> 4	1058	0			
Purge Obs	ervations: _	clear	<u></u>			1 - 10-1				
Purge Observations:										
Signature:	Signature:									

Lu Engineers

Location	Name <u>Wil</u> n ID <u>Mu</u> Time	kins RV N-JCL-0 11:00	-SMP	Field Samp	Sample ID	MW-JCL- 12:08	<u>-12</u> s	ob # 50185-01 Sampling Event # 2 Z Date 11/12/12	
SAMPL	ING NOT	<u>ES</u>							
Screen I Total Vo [purge volu	Length olume Purg ume (milliliter Water in casi	rs per minute) 🤉	feet feet gall time duration er = 0.163 gall	Well Pump ons PID V (minutes) x	0.00026 gal/mi	35.75 epth	fee	<u>-</u> -	Vell Diameter 2" Vell Integrity: Cap Casing Locked Collar leaking curb by gaske
Time	Depth to	Purge Rate	Temp.	pH (verite)	Dissolved	Turbidity	Cond.	ORP	
11:10	Water (ft) 6.5	(ml/min)	(deg. C)	(units) 7.29	O2 (mg/L)	(NTU)	(mS/cm)	(mV) /63	Comments
11.10	-	NA	14.9	7.46		70.9	1.102	-47	11 0 . 1
11:50		NA	14.1	7.73		89.2		-52	T gal purged
17.30	2000	1014		1175		07.6	1.123		7 gal puiged
-									
-							_		
<u> </u>							_		
-									
-									
L									
F	Purge Obse	rvations: _	water go	enerally	clear, no	Sheen or	· oder of	her than	sulphus-like
F	urge Wate	er Containe	rized:	yes - 15	3 gal. de	un			
EQUIPM	MENT DO	CUMENTA	TION						
~ ~	Device: _		dedicated b	pailer					
	Tubing:		NA						
Type of	Water Qua	ality Meter:	Myron 6P:	: LaMotte	2020		Calibra	ted:y<	S
4 NT 4 T 37	TICAT DA	ID A BATESTERN	3.0			T 0.4	7	0.000	
		RAMETER		1100404			CATION N	The second second second	
Parameter Volumes Sample Collected									
Fe/Mn		250 ml	1/		_	•	···		
1 0/14111	I A .	230 III			_	sk h	vell bails	to with	in p.41th of dru
4	 -			**			er purgi		O: evacuate total
		1 21			_	of	7 000	7 - 9	1
7		- \ \	40		_		0	-	
Signatur	e:	w Water	nt -						
Checked		500 S 50 ON 10			-750				



Project Location Activity	Job #50185-01 Sampling Event #0_2 Date11/12/12									
SAMPLING NOTES										
Initial Depth to Water 5.85 feet Measurement Point TOR Well Diameter Final Depth to Water well Measurement Point TOR Well Diameter Screen Length Depth 21.33 feet Well Integrity: Screen Length Depth Depth										
Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp.	рН	Dissolved	Turbidity	Cond.	ORP		
12:25		NA	(deg. C)	(units) 7.36	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments	
1 6.20		NA	16.3	7.55		12.0	0.9797	56	1	
12:58		NA	16.0	7.85		7.96	1.015	19	puged 5 gal	
12100		1011	16.0	(10)		1461	2.062	575	pugged 10 gol-red/rust	
									Color	
							_			
)	4.	4. 1 9191	1						
P	urge Obse	rvations: _	Tubidity	cecrease	s as well	is purgo	Luntil ap	Prox. 8	gal	
r	urge wate	r Containe	rizea:	yes - 3	s gove an	rum				
EOUIPM	IENT DOC	UMENTA	TION							
			<u> </u>							
Type of I	Device:		dedicated b	ailer						
Type of '	Γubing:		NA		_					
Type of '	Water Qua	lity Meter:	Myron 6P;	LaMotte			Calibrat	ed:	0.0	
								7		
		RAMETER	<u>s</u>			LOC	CATION NO	OTES		
	Parameter Volumes Sample Collected well vol. = 2.5 gal									
	VOCs 2 x 40 ml									
Fe/Mn	1 x 2	250 ml			_	1. 1	٠.	Δ		
					_	# at	ter purgin	re of gal	, puple sodium	
				-	_	Der	mangana	و دماه	ration appears in	
						601	tour of la	orler (6); transitions to	
Signature		in Och	0				o purple.		good/rust red as	
Checked						120	nging co	ntinue	S 40°	



Project Location Activity	Name Win ID Time	ilkins RV MW-13 13:15	-SMP	Field Samj	l Sample ID ple Time	13:55	.11-12-12_	_	Job #50185-01 Sampling Event # <u>2</u> 2 Date11/12/12
SAMPL	ING NOT	<u>ES</u>							
Screen I Total Vo [purge volu	Length olume Purg ume (milliliter f Water in casi	rater 3.4 16.3 10 rged 6.0 rs per minute) x ing - 2" diamete	feet gall x time duration	t Well t Pump lons PID V	Surement Po Depth p Intake De Well Head _ 0.00026 gal/mi of depth, 4" dia	pth	fee MA	- -	Well Diameter
Time	Depth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
13:20	Water (ft) 4.0	(ml/min)	(deg. C)	(units) 7.19	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
3.20	15.8	NA	13.0	7.29		1.35	670.3	300	
1	1637	NA NA	16.0			127	672.2	88	puged 5 gal.
 	16.37	787	16.1	7.44		123	663.6	52	purged 6.6 gal
									
									
-									
		_							
-	\vdash								
									-
P	Purge Obse	ervations:	المنائط		ad altha.	0110000	IN E	^	
P	urge Wate	er Container	rized.	105 - 55	gal. dry	evacuu	11 2 80	<u> </u>	
•	urgo mato	n Container	.1200.	163 00	gur. an	m			1000
EQUIPM	IENT DOC	CUMENTA	<u>TION</u>						
				ailer					
	Tubing:		NA (P					8	0.59
Type or	Water Qua	ality Meter:	Myron 6P;	LaMotte	<u>2020 </u>		Calibrat	ted:ye	<u>'S</u>
ANAT.VI	CTC'AT. DA'	RAMETER	10			T 06	7 4 PP		
Paramete			<u>ss</u> Sample Col	11ected		LUC	CATION NO	<u>TES</u>	٨
VOCs		40 ml	Janipie Co.	<u>IICCICU</u>			vell vol. =	L.C Ja	<u> </u>
Fe/Mn		250 ml			_	13 			
					-				
					_	N			
Signature Checked	:: <u> </u>	i Deta	P		_	-			



Location	Name <mark>Wil</mark> n ID ⁄ Time	Kins RV- NW-06 14:15	SMP	Field Sam	l Sample II ple Time _	MW-06_ 15:00	11-12-12	_	Job # <u>50185-01</u> Sampling Event # 2_ Date <u>11/12/12</u>
SAMPL	ING NOT	<u>ES</u>						_	
Final De Screen I Total Ve [purge volu	epth to Wa Length olume Pur ume (millilite Water in casi	rater 5.3 ater 19.6 ged 7.1 rs per minute) r ing – 2" diamet	fee fee gall x time duration	t Well t Pump lons PID	0.00026 gal/m	20.10 epth	MA fee	<u>-</u> -	Well Diameter 2 4 Well Integrity: Cap Casing Locked Collar
T:	Depth to	Purge Rate	Temp.	pН	Dissolved	Turbidity	Cond.	ORP	
Time	Water (ft)	(ml/min)	(deg. C)	(units)	O2 (mg/L)	(NTU)	(mS/cm)	(mV)	Comments
14:20		NA	18.1	7.57	~	13.9	1.137	225	
1.4	NA	NA	17.7	7.61		21.8	1.234	243	4 gal. evacuated
14:50	NA	M	17.1	7.95		42.3	1.506	242	7.5 gal evacuated
		ervations:er Container		unter ge les - 55	nerally c	lear			
Trmo of I	Device:		1 12 / 11	••					
Type of T			<u>dedicated b</u> NA	aller	_				
		lity Meter:		LaMotte	2020		Calibrat	ted: 🚾	
		RAMETER				100	CATION NO		***************************************
Paramete			Sample Col	lected			ell vo = 2		
VOCs		40 ml				-	<u> </u>		
Fe/Mn	1 x 2	250 ml	V		- - -	& Ba	iled withinging 6 ga	1 0.5'0 L	f dry after
Signature Checked		in Deg	4		_				