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December 10, 2010

Calvin Terada, On-Scene Coordinator
United States Environmental Protection Agency, Region 10
1200 Sixth Avenue, ECL-116
Seattle, Washington 98101

RE: Contract No. EP-S7-06-02, Technical Direction Document No. 06-09-0002
Final Removal Evaluation Report, Euclid Road TCE Monitoring Site
Reardan, Washington

Dear Mr. Terada:

Enclosed please find the final Removal Evaluation Report for the Euclid Road TCE Monitoring Site located near Reardan, Washington. This version incorporates EPA comments. If you have any further questions or comments, please contact Mark Woodke at (206) 624-9537 or me at (206) 920-1739.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Steven G. Hall
START-3 Project Leader

enclosure

cc: Mark Woodke, E & E, START-3 Project Manager, Seattle, WA

REMOVAL EVALUATION REPORT

Euclid Road TCE Monitoring Site

Reardan, Washington

TDD: 06-09-0002

Prepared for:

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue

Seattle, Washington 98101

Prepared by:

Ecology and Environment, Inc.

720 Third Avenue, Suite 1700

Seattle, Washington 98104

December 2010

Executive Summary

Ecology & Environment, Inc. (E & E) was tasked by the United States Environmental Protection Agency (EPA) to conduct a Removal Evaluation at the Euclid Road Groundwater and Euclid Road Trichloroethene Monitoring sites which are located in Spokane County near Reardan, Washington. Field work for these projects was conducted from March 2006 through June 2009. The projects focused on potential *n*-nitroso-dimethylamine (NDMA), perchlorate, and trichloroethene (TCE) contamination in monitoring wells and residential wells in the Euclid Road area.

E & E was originally tasked to evaluate the impact of an unknown source of TCE on groundwater. A groundwater sample collected from the Euclid Road area for a separate EPA project was contaminated with 130 micrograms per liter (µg/L) of TCE which exceeded the maximum contaminant level for TCE of 5 µg/L. This contamination was located near several residential drinking water wells believed to be screened in the same aquifer. Samples were also collected for NDMA and perchlorate analyses due to the nearby location of a former Nike missile launching site.

The initial project boundary was the immediate Euclid Road area, but the boundary was expanded several times during the project based on sampling results to include approximately 35 square miles. Fourteen rounds of field sampling activities were conducted during the project. A total of 478 field samples were collected from 128 separate, primarily residential, properties, including groundwater sample collection from eight monitoring wells and whole air sample collection from two residences. NDMA was detected in 44 domestic wells and perchlorate was detected in 112 domestic wells. TCE was detected in four domestic wells and in five monitoring wells at concentrations up to 240 µg/L. TCE was detected in whole air samples in each of the two sampled residences. The sources of these contaminants are unknown, but it is possible that the NDMA and perchlorate results are naturally occurring. The positive TCE results are all located within approximately 0.5 mile of each other near Euclid Road.

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List of Abbreviations

bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
DQOs	Data quality objectives
E & E	Ecology & Environment, Inc.
Ecology	Washington Department of Ecology
EPA	United States Environmental Protection Agency
ERGW	Euclid Road Groundwater
ERTM	Euclid Road TCE Monitoring
GIS	Geographic information system
GPS	Global positioning system
HEC	Herrera Environmental Consultants, Inc.
HHMSSL	Human Health Medium-Specific Screening Level
J	Estimated quantity
MCL	Maximum contaminant level
µg/L	micrograms per liter
mg/kg	Milligrams per kilogram
MS	Matrix spike
MSD	Matrix spike duplicate
MTCA	Model Toxics Control Act
MW	Monitoring well
NDMA	*n*-Nitrosodimethylamine
Nike	Fairchild Nike Battery 87
OSC	On-Scene Coordinator
% R	percent recovery
PA	Preliminary Assessment
QA	Quality Assurance

List of Abbreviations and Acronyms (cont.)

QC	Quality Control
RA	Removal Assessment
RE	Removal Evaluation
RPD	Relative percent difference
RS	Removal Support
SARA	Superfund Amendments and Reauthorization Act
SI	Site Inspection
SOP	Standard Operating Procedure
SSID	Site Spill Identification
SSSPs	Site-Specific Sampling Plans
START	Superfund Technical Assessment and Response Team
SVOCs	Semivolatile Organic Compounds
TAL	Target Analyte List
TCE	Trichloroethene
TDD	Technical Direction Document
UDMH	Unsymmetrical dimethyl hydrazine
VOC	Volatile Organic Compound

1 Introduction

The United States Environmental Protection Agency (EPA), Region 10, Office of Environmental Cleanup has tasked Ecology & Environment, Inc. (E & E), under Superfund Technical Assessment and Response Team (START)-3 contract number EP-S7-06-02, to conduct Removal Support (RS) and Removal Assessment (RA) activities for the Euclid Road Groundwater (ERGW) and Euclid Road Trichloroethene (TCE) Monitoring investigations under Technical Direction Document (TDD) numbers 06-03-0009 and 06-09-0002, respectively, in Spokane County near Reardan, Washington. This project was conducted under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA).

The START conducted the ERGW RS work from March 2006 through June 2007 and conducted the Euclid Road TCE Monitoring (ERTM) RA work from September 2006 through June 2009. The ERGW RS initially focused on *n*-Nitrosodimethyl-amine (NDMA), perchlorate, and TCE contamination in monitoring and residential wells in the Euclid Road area potentially associated with the U. S. Air Force Fairchild Nike Battery 87 (Nike) missile site, but TCE sampling efforts were switched to the ERTM project in September 2006. Field work on both projects was often conducted concurrently between September 2006 and June 2007. This removal evaluation (RE) report is written under TDD 06-09-0002 but covers work on both projects.

Based on the above information, the START was tasked by the EPA On-Scene Coordinator (OSC) to:

- Develop Site-Specific Sampling Plans (SSSPs) to characterize NDMA, perchlorate, and TCE contamination in the wells;
- Collect samples at the site from the monitoring and domestic wells to evaluate the current concentrations of NDMA, perchlorate, and TCE;
- Arrange for commercial laboratory analyses for the samples collected at the site; and
- Write an RE report detailing the results.

2 Site Description and Background

This section describes the site location (subsection 2.1), provides the site ownership history (subsection 2.2), describes the surrounding area (subsection 2.3), discusses operations at the site (subsection 2.4), and discusses previous site investigations (subsection 2.5).

2.1 Site Description

The Euclid Road sites are centered on the Euclid Road area east of Reardan, Washington (Figure 2-1). The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) identification number for the sites is WAN001002626 and the site spill identification (SSID) number is 10DP. The approximate final boundaries of the sampled wells include the area 0.75 mile north of Jacobs Road on the North, State Highway 2 on the south, Ritchey Road on the east, and Christensen Road on the west. Additional wells were sampled outside this area to determine background concentrations.

2.2 Owner and Operator

The Nike missile site was in operation from 1956 to 1965 (HEC 2006). The current owners of the former Nike control area and the Euclid well (the former Nike control area water supply located on Euclid Road) are James and Mary Codiga (HEC 2006). The former Nike launch site is owned by Northwest Microfilms, Inc. The property owners of the other sampled locations are listed in Table 2-1 and all sampled locations are found on Figure 2-2.

2.3 Surrounding Areas

The site lies within the Columbia River basin in the northeast corner of the 55,000 square mile Columbia Plateau. Surface topography at the site and surrounding area is generally flat, with gently rolling hills that slope down to the east-northeast. Based on a review of over 60 geologic logs for wells drilled within 1.5 miles of the Euclid well, the site geology generally consists of bedrock (basalt) occurring within one to four feet below ground surface (bgs), with some excep-

tions where sand, gravel, or clay may extend to 20 feet bgs. The basalt is fractured in some areas, dense in other areas, and occasionally contains clay layers. Springs occur in drainage channels located 1,000 feet north and 1,200 feet south of the Euclid well. (HEC 2006)

The land surrounding the ERGW site is used for agricultural and residential purposes. The former Nike missile launch site is located approximately two miles south of the Euclid well. This location is upgradient of the Euclid well (HEC 2006).

2.4 Site Operations

The Nike site is a former surface-to-air Nike Ajax and Hercules missile site that was used for the storage, assembly, launching, and control of guided missiles in conjunction with the national air defense system (USACE 1989).

The Nike site consisted of a control area and a launcher site that were separated by approximately 3 miles (Figure 2-1). The Euclid well is located between the two areas at a formerly proposed Nike housing location; the housing was never constructed. The Euclid well is located approximately 4.5 miles northwest of Fairchild Air Force Base (Figure 2-2) and was installed by the military in the late 1950s during construction of the Nike site. Water from the Euclid well was piped approximately 2.5 miles into a holding tank at the Nike Launch Control Area. The Euclid well property is currently unoccupied, but has been previously rented for residential use and the land used for raising livestock. (HEC 2006)

Specific information concerning waste characteristics and site operations at the former Fairchild Nike Battery 87 site is limited; waste disposal activities during the time of operation are unknown (Ecology 2001). During a site reconnaissance conducted in June 1999, Washington Department of Ecology (Ecology) representatives were unable to identify any landfills or pits at the launcher or control areas (Ecology 1999). Based on historical site operations, there is no documented evidence of TCE or other volatile organic compound (VOC) usage in the vicinity of the Euclid well. NDMA and perchlorate are known to be associated with rocket fuels (EPA 2006), although there are other uses for these chemicals.

2.5 Previous Investigations

In October 2004, EPA START-2 contractor Herrera Environmental Consultants, Inc. (HEC) performed sampling for the Fairchild Nike Battery 87 preliminary assessment/site inspection (PA/SI) to investigate potential environmental issues at the Nike launcher and control sites. As a part of this sampling effort, HEC collected a groundwater sample from the Euclid well as a measure of background water quality based on the well's location relative to the former Nike launcher and control areas. TCE was detected in the Euclid well at a concentration of 130 micrograms per liter (µg/L), exceeding the Washington Model Toxics Control Act (MTCA) Method A groundwater cleanup level and federal Maximum Contaminant Level (MCL) of 5 µg/L, based on applicable state (WAC 246-290-310) and federal (40 CFR 141.61) laws. Detection of TCE in the Euclid well became the basis for designation of the ERGW and ERTM investigations. (HEC 2006)

In response to the TCE detection, EPA conducted a PA/SI of the former control and launcher areas in October 2004 (HEC 2005). A total of 19 samples, including background and quality assurance (QA), were collected from potential hazardous substance sources and target areas potentially impacted by contaminant migration. Sample locations included areas of stressed vegetation, debris swales, site soils, and sediments, as well as groundwater, surface water, and sediments down slope of potential sources. Results of the 2004 PA/SI indicated no significant concentrations of target analyte list (TAL) metals, semivolatile organic compounds (SVOCs), VOCs, unsymmetrical dimethyl hydrazine (UDMH), or perchlorate present in soils, sediment, or groundwater at the Fairchild Nike Battery 87 site. Motor oil was detected in one soil sample at the launcher area at a concentration of 204 milligrams per kilogram (mg/kg), below the MTCA Method A soil cleanup level of 2,000 mg/kg. TCE was detected in the Euclid well (collected as a background sample) at a concentration of 130 µg/L. (HEC 2006)

Because no TCE was detected in potential source areas at either the Nike launcher or control sites, EPA performed additional sampling to further investigate the presence of TCE in the Euclid well. The presence of TCE in the Euclid well was confirmed at a concentration of 130 µg/L as a result of START resampling conducted in February 2005, which is the same concentration detected during the October 2004 sampling. TCE was not detected in another well located 1,200 feet to the southwest, but was detected at a very low concentration in a well located 1,200 feet to the northwest. (HEC 2006)

Based on the February 2005 sampling results, the HEC START initiated the Euclid Road Groundwater PA/SI (HEC 2006). A review of drilling well logs on file at Ecology was conducted, covering a 1.3-mile radius from the Euclid well. Sixty-four well logs were reviewed, ranging in depth from 60 to 420 feet bgs, and sampling was performed in June 2005 at selected locations. Groundwater samples were collected from nine domestic wells located within a 1-mile radius of the Euclid well, including a background water sample collected from the Remmers well, located approximately 2,700 feet west of the Euclid well. TCE was detected in three of the nine samples at concentrations of 1.2 µg/L in both the Hutterite chicken and livestock wells and 47 µg/L in the Williams well. The detection of TCE in the Williams well, located 700 feet southwest of the Euclid well, resulted in further investigation and an emergency response, which included additional sampling of area domestic wells, the installation of monitoring wells to determine local groundwater conditions, and the installation of water treatment systems at residences impacted by the TCE contamination. (HEC 2006)

Four monitoring wells were installed near the Euclid well between November 7 and 9, 2005, to depths ranging from 66 to 113.5 feet bgs. Water-bearing fractured zones were encountered within the weathered basalt in each of the well borings at depths ranging from 57 to 96 feet bgs. The static water levels measured in each of the wells ranged from 38.50 to 86.88 feet bgs, indicating confined groundwater conditions (a potentiometric surface above the depth of water first encountered during drilling). A potentiometric surface contour map created for the project indicated groundwater flow to the east-southeast. The groundwater gradient generally mimics topography and steepens in the vicinity of the Hall spring. Monitoring well ERMW-3 (listed as MW03 by E & E) is located adjacent to the Hutterite livestock well and water sample analyses from these wells detected respective TCE concentrations of 140 and 1.2 µg/L. The Hutterite well was drilled and cased to 300 feet bgs with no well screen and well ERMW-3 was drilled to 113.5 feet and screened from 93.5 to 113.5 feet bgs. The disparity in these results indicated TCE is moving through the uppermost water-bearing zone and communication of multiple water-bearing zones in the Hutterite well results in lower TCE concentrations from dilution. (HEC 2006)

Sampling results from the monitoring wells installed during the emergency response indicated concentrations of TCE ranging from 3.9 to 140 µg/L. The TCE concentration of 140 µg/L de-

tected in well ERMW-3, located 700 feet upgradient from the Euclid well, was the highest concentration of TCE detected of all area sampling performed to that time. The report indicated that, based on topography and TCE detected in well ERMW-3, a possible source could be incidental dumping along North Wood Road northwest of the well. (HEC 2006)

The RS and RA activities by E & E/START-3 discussed herein are continuations of quarterly groundwater monitoring initiated in November 2005, under TDD 03-08-0009 by HEC as the START-2 contractor to EPA. See Table 2-2 for a summary of historical sample locations and results and Figure 2-3 for historical sample results.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06030901	Jeff Supinger	2118 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	3/28/2006	09:50	X		X	X	47.67767	117.70769	Indoor faucet
06030902	James Supinger	2620 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	3/28/2006	10:15	X		X	X	47.68212	117.71086	Outdoor spigot
06030903	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	3/28/2006	10:45	X		X	X	47.68476	117.71757	Outdoor spigot
06030904	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	30.9	MW	3/28/2006	13:50	X		X	X	47.68931	117.72276	Monitoring well
06030905	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	63.12	MW	3/28/2006	14:25	X		X	X	47.68714	117.72525	Monitoring well
06030906	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	79.7	MW	3/28/2006	14:55	X		X	X	47.68705	117.72233	Monitoring well
06030907	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	59.81	MW	3/28/2006	15:30	X		X	X	47.68624	117.72246	Monitoring well
06030910	Trip Blank 1	na	Water	Grab	na	AJ	3/28/2006	07:00				X	na	na	Trip blank
06030911	Barry Bigler	23717 West Bowie Lane Reardan, WA 99029	GW	Grab	na	MW	3/28/2006	11:05	X		X	X	47.69984	117.73540	Outdoor spigot
06040001	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	4/15/2006	10:29	X		X		47.69099	117.72431	Indoor kitchen faucet
06040002	James Codiga (Euclid Well)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	10:48	X		X	X	47.68708	117.72184	Outdoor spigot
06040003	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	11:07	X		X		47.68479	117.72092	Outdoor spigot
06040004	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	11:15	X		X		47.68483	117.71691	Outdoor spigot
06040005	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	11:28	X		X	X	47.68573	117.71216	Outdoor spigot
06040006	Barry Bigler	23717 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	12:22	X		X		47.69984	117.73540	Outdoor spigot
06040007	Frances Steel	4202 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	4/15/2006	12:35	X		X	X	47.69985	117.72145	Outdoor spigot[b]
06040008	Wayne Remmers	3207 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	12:50	X		X	X	47.68882	117.73321	Outdoor spigot
06040009	Eileen Clouse	6215 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	13:20	X		X	X	47.71396	117.73346	Outdoor spigot
06040010	Buddi Williams	23912 West Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	13:35	X		X	X	47.71676	117.73595	Outdoor spigot
06040011	Doug Hicks	1616 North Ritchey Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	14:40	X		X		47.67315	117.71043	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06040012	Jeff Supinger	2118 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	4/15/2006	15:10	X		X	47.67767	117.70769	Indoor faucet
06040013	James Supinger	2620 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	4/15/2006	15:30	X		X	47.68212	117.71086	Outdoor spigot
06040014	Connie Rucker	23505 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	15:50	X		X	47.66339	117.73085	Outdoor spigot
06040015	Dan Helmer	23103 West Alki Lane Reardan, WA 99029	GW	Grab	60	JF	4/15/2006	16:00	X		X	47.66344	117.72662	Outdoor spigot
06040016	Justin Ikehara	23322 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	16:20	X		X	47.66371	117.72939	Outdoor spigot
06040017	Wayne Horn	110 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	4/15/2006	16:30	X		X	47.65876	117.70988	Outdoor spigot
06040018	Ray Logsdon	22812 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	16:50	X		X	47.65831	117.72241	Outdoor spigot
06040019	James Thompson	22910 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/15/2006	17:10	X		X	47.65825	117.72346	Outdoor spigot
06040025	Trip Blank 2	na	Water	Grab	na	JF	4/15/2006	07:00				X	na	na	Trip blank
06050901	Dave Tueller	6504 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	09:00	X		X	X	47.71885	117.73058	Outdoor spigot
06050902	Richard VanSickle/ John Beamer	6712/6814 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	10:10	X		X	X	47.72102	117.73154	Outdoor spigot (shared well)
06050903	Ozzie Knezovich	6610 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	09:40	X		X	X	47.71907	117.73133	Outdoor spigot
06050904	Vic Wyatt	6814 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	09:20	X		X	X	47.71822	117.73080	Spigot in shed
06050905	Allen Allbee	7006 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	10:30	X		X	X	47.72251	117.73170	Spigot in well house
06050906	Craig Cocklereece	7111 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	10:50	X		X	X	47.72378	117.73314	Outdoor spigot
06050907	Ronald Cocklereece	7123 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	5/26/2006	11:10	X		X	X	47.72425	117.73339	Outdoor spigot
06050911	Trip Blank 3	na	Water	Grab	na	JF	5/26/2006	08:00				X	na	na	Trip blank
06060901	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	MW	6/22/2006	11:00	X		X	X	47.68931	117.72276	Monitoring well
06060902	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	11:50	X		X	X	47.68714	117.72525	Monitoring well
06060903	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	MW	6/22/2006	15:30	X		X	X	47.68705	117.72233	Monitoring well
06060904	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	13:00	X		X	X	47.68624	117.72246	Monitoring well

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06060905	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	13:15	X			X	47.68493	117.72092	Outdoor spigot
06060907	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	13:00	X		X	X	47.68567	117.72351	Outdoor frost free (untreated)
06060908	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	13:45	X		X	X	47.68476	117.71757	Outdoor spigot
06060909	James Supinger	2620 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	09:30	X		X	X	47.68212	117.71086	Outdoor spigot
06060911	Buddi Williams	23912 West Jacobs Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	11:20	X		X	X	47.71676	117.73595	Outdoor spigot
06060912	Doug Hicks	1616 North Ritchey Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	13:50	X		X	X	47.67315	117.71043	Outdoor spigot
06060913	Michael Perin	2819B North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	14:25	X		X	X	47.68437	117.71195	Outdoor spigot
06060914	Duane Perin	2819A North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	14:20	X		X	X	47.68377	117.71243	Outdoor spigot
06060915	Rosemary Slemp	6310 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	12:50	X		X	X	47.71654	117.73112	Outdoor spigot
06060918	Sandy Jorstad	21818 West Highway 2 Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	10:45	X		X	X	47.64403	117.70888	Outdoor spigot
06060919	Marcie Mangold	1607 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	08:30	X		X	X	47.64046	117.70811	Outdoor spigot
06060920	Rex Steinmetz	1509 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	08:20	X		X	X	47.64151	117.70769	Outdoor spigot
06060921	Carl Bettcher	23504 West Alki Lane Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	09:00	X		X	X	47.66430	117.73072	Outdoor spigot
06060922	Jason Echelbarger	3526 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	09:55	X		X	X	47.68998	117.70497	Outdoor spigot
06060923	Jody Dewey	4101 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/23/2006	10:05	X		X	X	47.69176	117.70195	Outdoor spigot
06060924	Alex Murphy	22025 West Jacobs Road Spokane, WA 98224	GW	Grab	na	MW	6/22/2006	21:08	X		X	X	47.71572	117.71145	Outdoor spigot
06060925	Chris Fitzpatrick	22311 West Jacobs Road Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	21:25	X		X	X	47.71516	117.71471	Outdoor spigot
06060926	Brenda Deshazer	22315 North Jacobs Road Reardan, WA 99029	GW	Grab	na	MW	6/22/2006	21:35	X		X	X	47.71269	117.71543	Outdoor spigot
06060927	Adam Lloyd	25512 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	07:10	X		X	X	47.68904	117.75491	Outdoor spigot
06060928	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/23/2006	13:15	X		X	X	na	na	Outdoor spigot (treated)

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06060929	Trip Blank 4	na	Water	Grab	na	MW	6/22/2006	08:00				X	na	na	Trip blank
06060930	Trip Blank 5	na	Water	Grab	na	MW	6/22/2006	08:00				X	na	na	Trip blank
06060801	Robert Shores	1209 South Central Avenue Medical Lake, WA 99022	GW	Grab	na	MW	6/25/2006	19:15	X		X	X	47.64423	117.70924	Indoor faucet[b]
06060802	Jeff Adolf	22312 West State Route 2 Reardan, WA 99029	GW	Grab	na	MW	6/25/2006	19:25	X		X	X	47.64399	117.72414	Outdoor spigot
06060803	Joe Cravens	25313 West Coulee Hite Reardan, WA 99029	GW	Grab	na	MW	6/25/2006	19:50	X		X	X	47.74239	117.75555	Outdoor spigot
06060804	John Sullivan	4020 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/25/2006	20:20	X		X	X	47.69496	117.71005	Outdoor spigot[b]
06060805	Judy Houghton	3912 North Ritchey Road Medical Lake, WA 98022	GW	Grab	na	MW	6/25/2006	20:40	X		X	X	47.69353	117.71008	Outdoor spigot
06060806	Val Sullivan	3312 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	MW	6/25/2006	20:50	X		X	X	47.68800	117.71030	Outdoor spigot
06060807	Adam Lloyd (Garden Irrigation Well)	25512 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	07:40	X		X	X	47.68940	117.75522	Outdoor spigot
06060808	Mary Jane Fell-Bradford	8018 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	08:00	X		X	X	47.73328	117.72657	Outdoor spigot[b]
06060809	Jess Colvin	6003 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	08:45	X		X	X	47.70894	117.73705	Spigot in well house
06060810	Mike Steinmetz	718 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	09:15	X		X	X	47.65126	117.68497	Outdoor spigot
06060811	Karla Jones	716 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	09:25	X		X	X	47.65203	117.68536	Outdoor spigot
06060812	Genny Steinmetz	20003 West Steinmetz Lane Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	09:35	X		X	X	47.65227	117.68426	Outdoor spigot
06060813	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	10:15	X		X	X	47.70282	117.74151	Post treatment system
06060814	James Codiga (Euclid Well)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	10:25	X		X	X	47.68710	117.72109	Spigot in well house
06060815	Shelee Brown	717 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	10:50	X		X	X	47.64980	117.68339	Outdoor spigot[b]
06060816	Ron Ahl	22110 West State Route 2 Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	12:15	X		X	X	47.64366	117.71289	Indoor faucet
06060817	Hazel Ahl	22100 West State Route 2 Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	12:30	X		X	X	47.64400	117.71407	Indoor faucet[b]
06060818	Linda Seagle	22012 West State Route 2 Medical Lake, WA 99029	GW	Grab	na	MW	6/26/2006	12:45	X		X	X	47.64365	117.71134	Outdoor spigot
06060819	Jerry Guhlke	21816 West State Route 2 Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	13:00	X		X	X	47.64388	117.70921	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06060820	McNair Residence (owned by Jerry Guhlke)	21816 West State Route 2 Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	13:20	X		X	X	47.64439	117.70969	Outdoor spigot
06060821	Fran Pierson	2701 North Brooks Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	13:40	X		X	X	47.68538	117.68931	Outdoor spigot
06060822	Joe Garza	2220 Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	14:00	X		X	X	47.67903	117.69774	Outdoor spigot
06060823	Jerry Hoskins	23304 West Jacobs Road Spokane, WA 99224	GW	Grab	na	MW	6/26/2006	14:20	X		X	X	47.71679	117.72845	Outdoor spigot
06060824	Jeremy Anderson	22905 West Jacobs Road Spokane, WA 99224	GW	Grab	na	MW	6/26/2006	14:40	X		X	X	47.71583	117.71884	Outdoor spigot
06060825	Mike Lindsay	22205 West Jacobs Road Spokane, WA 99224	GW	Grab	na	MW	6/26/2006	15:00	X		X	X	47.71540	117.71355	Outdoor spigot
06060826	Tracy Parr	23324 West Sprague Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	15:20	X		X	X	47.65930	117.72940	Indoor faucet
06060827	Les Nee	23212 West Sprague Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	15:45	X		X	X	47.65929	117.72792	Outdoor spigot
06060828	Gary Clemenson	23126 West Sprague Road Reardan, WA 99029	GW	Grab	na	MW	6/26/2006	16:10	X		X	X	47.65933	117.72687	Outdoor spigot
06060829	Dale Luiten	803 North Christensen Road Medical Lake, WA 99022	GW	Grab	na	MW	6/26/2006	16:15	X		X	X	47.66558	117.68268	Outdoor spigot
06060830	Trip Blank 6	na	Water	Grab	na	MW	6/26/2006	08:00				X	na	na	Trip blank
06080501	Chris Fitzpatrick	22311 West Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	08:58	X	X	X	X	47.71516	117.71471	Outdoor spigot
06080502	Brenda Deshazer	22315 North Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	09:10	X	X	X	X	47.71269	117.71543	Outdoor spigot
06080503	Jerry Hoskins	23304 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	8/22/2006	10:05	X	X	X		47.71679	117.72845	Outdoor spigot
06080504	Jeremy Anderson	22905 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	8/22/2006	09:45	X	X	X		47.71583	117.71884	Outdoor spigot
06080505	Buddi Williams	23912 West Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	10:32	X	X	X		47.71676	117.73595	Outdoor spigot
06080506	Alex Murphy	22025 West Jacobs Road Spokane, WA 98224	GW	Grab	na	JF	8/22/2006	09:30	X	X	X		47.71572	117.71145	Outdoor spigot
06080507	Mike Lindsay	22205 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	8/22/2006	10:17	X	X	X		47.71540	117.71355	Outdoor spigot
06080508	Richard Allen	21318 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	8/22/2006	11:20	X	X	X	X	47.71675	117.70223	Outdoor spigot
06080509	Travis Green	20820 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	8/22/2006	11:30	X	X	X	X	47.72206	117.69456	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06080510	Jess Colvin	6003 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	12:00	X	X	X	X	47.70894	117.73705	Outdoor spigot
06080511	Pete Pedersen	710 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	12:20	X	X	X	X	47.66515	117.73100	Outdoor spigot
06080512	Susan Pedersen	21221 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	12:40	X	X	X	X	47.70039	117.70021	Outdoor spigot
06080513	Jorgene Eastman	22811 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	15:45	X	X	X	X	47.65571	117.72174	Outdoor spigot
06080514	Kenneth Jones	21905 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	13:00	X	X	X	X	47.70099	117.70906	Outdoor spigot
06080515	Christine Snow	2702 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	8/22/2006	15:00	X	X	X	X	47.68281	117.68913	Outdoor spigot
06080516	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	13:45	X	X	X	X	47.68493	117.72092	Outdoor spigot
06080517	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	14:15	X	X	X	X	47.68476	117.71757	Outdoor spigot
06080518	Kyle Stevens	4314 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	8/22/2006	15:30	X	X	X	X	47.69751	117.70953	Outdoor spigot
06080520	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	13:55	X	X	X	X	47.68573	117.71216	Outdoor spigot
06080521	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	14:00				X	47.68493	117.72092	Indoor faucet
06080522	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	8/22/2006	14:30				X	47.68375	117.72112	Backup Tank
06080523	Trip Blank 7	na	Water	Grab	na	JF	8/22/2006	08:00				X	na	na	Trip Blank
06090601	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	33.33	JF	9/14/2006	10:00				x	47.68931	117.72276	Monitoring well
06090602	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	65.17	JF	9/14/2006	11:00				X	47.68714	117.72525	Monitoring well
06090603	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	80.10	JF	9/14/2006	12:00				X	47.68705	117.72233	Monitoring well
06090604	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	61.00	JF	9/14/2006	13:00				X	47.68624	117.72246	Monitoring well
06090605	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	9/14/2006	14:00	X	X			47.68567	117.72351	Outdoor spigot
06090606	James Codiga (Euclid Well)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	9/14/2006	14:20	X	X			47.68708	117.72184	Outdoor spigot
06090607	Julie Campbell	20802 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	9/14/2006	14:40	X	X	X	X	47.68418	117.69815	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06090608	Tim Nelson	4110 North Ritchey Road Medical Lake, WA 98022	GW	Grab	na	JF	9/14/2006	15:00	X	X	X	X	47.6956	117.70929	Outdoor spigot
06090609	John Sullivan	4020 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	9/14/2006	15:20	X	X			47.69496	117.71005	Outdoor spigot
06090610	Judy Houghton	3912 North Ritchey Road Medical Lake, WA 98022	GW	Grab	na	JF	9/14/2006	15:40	X	X			47.69353	117.71008	Outdoor spigot
06090611	James Supinger	2620 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	9/14/2006	16:00	X	X			47.68212	117.71086	Outdoor spigot
06090612	Diane Abbey	304 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	9/14/2006	16:20	X	X	X	X	47.66065	117.73111	Outdoor spigot
06090613	Jerry Guhlke	21816 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	06:20	X	X			47.73328	117.72657	Outdoor spigot
06090614	Ron Ahl	22110 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	06:40	X	X			47.64388	117.70921	Indoor faucet
06090615	Hazel Ahl	22100 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	07:00	X	X			47.64366	117.71289	Outdoor spigot[b]
06090616	Mary Jane Fell-Bradford	8018 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	07:20	X	X			47.64400	117.71407	Indoor faucet[b]
06090617	Linda Seagle	22012 West State Route 2 Medical Lake, WA 99029	GW	Grab	na	JF	9/15/2006	07:40	X	X			47.64365	117.71134	Outdoor spigot
06090618	Steve Hatcher	23321 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	08:00	X	X			47.66322	117.72834	Outdoor spigot
06090619	Gary Clemenson	23126 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	08:20	X	X			47.65933	117.72687	Outdoor spigot
06090620	Les Nee	23212 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	08:40	X	X			47.65929	117.72792	Outdoor spigot
06090621	Tracy Parr	23324 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	09:00	X	X	X	X	47.65930	117.72940	Indoor faucet
06090622	Mike Broderius	21114 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	9/15/2006	09:20	X	X	X	X	47.71939	117.69904	Outdoor spigot
06090623	Nancy Eldridge	21202 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	9/15/2006	09:40	X	X	X	X	47.71928	117.701	Outdoor spigot
06090624	Pat Weiner	21615 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	9/15/2006	10:00	X	X	X	X	47.71031	117.70955	Outdoor spigot
06090625	Lisa Taylor	20814 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	9/15/2006	10:20	X	X	X	X	47.71944	117.69597	Outdoor spigot
06090626	Cindi Cleveland	21208 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	9/15/2006	10:40	X	X			47.71719	117.70126	Outdoor spigot
06090627	Joe Garza	2220 Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	11:00	X	X	X	X	47.67903	117.69774	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06090628	Valla Melvin	707 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	11:20	X	X	X	X	47.66401	117.86948	Outdoor spigot
06090629	Larry Chalmers Jane O'Reagan	425 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	11:40	X	X	X	X	47.66235	117.68962	Outdoor spigot
06090630	Ed Burge	813 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	12:00	X	X	X	X	47.66646	117.69205	Outdoor spigot
06090631	Curley Warner	1925 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	12:20	X	X			47.67560	117.70299	Outdoor spigot
06090632	Fran Pierson	2701 North Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	12:40	X	X	X	X	47.68538	117.68931	Outdoor spigot
06090633	Judy Mahoney	3511 North Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	13:00	X	X	X	X	47.69002	117.68970	Outdoor spigot
06090635	Del Corey	20902 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	13:40	X	X	X	X	47.67614	117.69595	Outdoor spigot
06090636	Cheryl McGilley	20702 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	14:00	X	X	X	X	47.67778	117.69362	Outdoor spigot
06090637	Ken Langford	20606 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	14:20	X	X	X	X	47.67833	117.69203	Outdoor spigot
06090639	Trip Blank 8	na	Water	Grab	na	JF	9/15/2006	08:00				X	na	na	Trip blank
06090640	Mark Duncan	1515 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	15:00	X	X			47.67152	117.08375	Outdoor spigot[b]
06090641	Shelee Brown	717 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	15:20	X	X			47.64980	117.68339	Outdoor spigot[b]
06090642	Mike Steinmetz	718 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	15:40	X	X	X	X	47.65126	117.68497	Outdoor spigot
06090643	Genny Steinmetz	20003 West Steinmetz Lane Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	16:00	X	X	X	X	47.65227	117.68426	Outdoor spigot
06090644	Wayne Engstrom	714 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	9/15/2006	16:20	X	X	X	X	47.65149	117.68293	Outdoor spigot
06090645	Lisa Nellis	20626 West Old Sunset Hwy. Reardan, WA 99029	GW	Grab	na	JF	9/15/2006	16:40	X	X	X	X	47.64587	117.69261	Outdoor spigot
06121004	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	61.0	JF	12/13/2006	13:55				X	47.68624	117.72246	Monitoring well
06121005	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	12/13/2006	16:00				X	47.68493	117.72092	Treatment system (pre-treatment)
06121006	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	12/13/2006	16:00				X	47.68493	117.72092	Treatment system (mid-treatment)
06121007	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	12/13/2006	16:00				X	47.68493	117.72092	Treatment system (post-treatment)

Key is found on the last page.

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SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06121008	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	32.6	JF	12/13/2006	11:15				X	47.68931	117.72276	Monitoring well
06121009	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	64.5	JF	12/13/2006	11:50				X	47.68714	117.72525	Monitoring well
06121010	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	80.7	JF	12/13/2006	12:45				X	47.68705	117.72233	Monitoring well
06121011	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	12:10				X	47.70282	117.74151	Treatment system (post-treatment)
06121012	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	12:10				X	47.70282	117.74151	Treatment system (mid-treatment)
06121013	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	12:10				X	47.70282	117.74151	Treatment system (pre-treatment)
06121014	Ronald Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	12/13/2006	16:10				X	47.68573	117.71216	Outdoor spigot
06121015	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	12/13/2006	15:55				X	47.68476	117.71757	Outdoor spigot
06121016	Wendy Matusik	7322 North Brooks Road Spokane, WA 98224	GW	Grab	na	JF	12/14/2006	10:20		X	X	X	47.72486	117.6787	Outdoor spigot
06121017	Travis Green	20820 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/14/2006	10:45		X	X	X	47.72204	117.69458	Outdoor spigot
06121018	Tom Taylor	19701 West Bowie Road Spokane, WA 99022	GW	Grab	na	JF	12/14/2006	09:05		X	X	X	47.69957	117.6841	Outdoor spigot
06121019	Ken Holmes	723 South Brooks Road Medical Lake, WA 98022	GW	Grab	na	JF	12/14/2006	07:45		X	X	X	47.64906	117.68671	Outdoor spigot
06121020	Claire Keeble	3228 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	14:00		X	X	X	47.68869	117.65504	Outdoor spigot
06121021	Phil Cogley	North 6620 Brooks Road Spokane, WA 99224	GW	Grab	na	JF	12/14/2006	14:15		X	X	X	47.7192	117.67535	Outdoor spigot
06121022	Kristin Chaka	20702 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/14/2006	10:55		X	X	X	47.71737	117.69315	Outdoor spigot
06121023	Mike Strope	910 Ritchey Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	14:35		X	X	X	47.64919	117.71229	Outdoor spigot
06121024	Kevin Houghton	1535 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	15:00		X	X	X	47.67232	117.6881	Outdoor spigot
06121025	Darrin Schwartz	20304 West Steinmetz Lane Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	08:00		X	X	X	47.65439	117.68864	Outdoor spigot
06121026	Bill Sabatino	1627 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	07:00		X	X	X	47.67326	117.69958	Outdoor spigot
06121027	Judy Gauna	South 719 Brooks Road Medical Road, WA 99022	GW	Grab	na	JF	12/14/2006	07:45		X	X	X	47.64951	117.68528	Outdoor spigot

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SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06121028	Cynthia Powers	20614 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/14/2006	08:30		X	X	X	47.71633	117.69195	Outdoor spigot
06121029	Travis Learn	20810 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/14/2006	08:40		X	X	X	47.71623	117.69544	Outdoor spigot
06121030	Karen Maher	2620 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	15:40		X	X	X	47.63097	117.71163	Outdoor spigot
06121031	Paul Rodkey	23010 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	16:05		X	X	X	47.66066	117.72488	Outdoor spigot
06121032	Wayne Remmers	3207 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	16:30		X	X	X	47.68882	117.73321	Outdoor spigot
06121033	Brad Pace	1210 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	17:00		X	X	X	47.66924	117.6941	Outdoor spigot
06121034	Ruben Ontiveros	2203 South Rieth Lane Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	17:20		X	X	X	47.63535	117.72057	Outdoor spigot
06121035	Edward Cooper	1808 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	12/14/2006	17;40		X	X	X	47.67465	117.69914	Outdoor spigot
06121036	Justin Rhodes	22320 West Bowie Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	18:00		X	X	X	47.70329	117.72568	Outdoor spigot
06121037	Dale Rhodes	22726 West Bowie Road Reardan, WA 99029	GW	Grab	na	JF	12/14/2006	18:20		X	X	X	47.7037	117.7202	Outdoor spigot
06121038	Paul Shollenberger	22001 West Highway 2 Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	07:25		X	X	X	47.64272	117.71128	Outdoor spigot
06121039	Harry Grennay	26304 West Highway 2 Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	07:40		X	X	X	47.6444	117.76904	Outdoor spigot
06121040	Tim Ahern	2608 North Deep Creek Road Medical Lake, WA 98022	GW	Grab	na	JF	12/15/2006	08:05		X	X	X	47.6814	117.6936	Outdoor spigot
06121041	AnnaMay O'Neill	1207 South Central Road Medical Lake, WA 99022	GW	Grab	na	JF	12/15/2006	08:20		X	X	X	47.64448	117.70919	Outdoor spigot
06121042	Mike Nichols	1201 South Wood Road Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	10:30		X	X	X	47.64595	117.73093	Outdoor spigot
06121043	Rod Soom	21718 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/15/2006	08:50		X	X	X	47.71724	117.70689	Outdoor spigot
06121044	Susie Hodges	West 20202 Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	12/15/2006	10:00		X	X	X	47.67746	117.68078	Outdoor spigot
06121045	Greg Nolt	18411 West Bowie Road Spokane, WA 99244	GW	Grab	na	JF	12/15/2006	09:15		X	X	X	47.69503	117.6636	Outdoor spigot
06121046	Ann Dewitt	1525 Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	12/15/2006	09:25		X	X	X	47.67301	117.68441	Outdoor spigot
06121047	Stuart Sattler	2300 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	10:40		X	X	X	47.65669	117.72563	Outdoor spigot

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EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
06121048	NW Microfilms (Paul Rayburn)	22210 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	11:00		X	X	X	47.65998	117.71384	Outdoor spigot
06121049	Tom Taylor	19701 West Bowie Road Spokane, WA 99022	GW	Grab	na	JF	12/14/2006	09:05		X	X	X	47.69954	117.68222	Outdoor spigot
06121050	Roberta Hanratty	20904 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	12/15/2006	09:45		X	X	X	47.6773	117.69485	Outdoor spigot
06121051	Hutterian Brethren (Chicken coop well)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	12/14/2006	11:35		X	X	X	47.69048	117.72301	Indoor spigot
06121052	Hutterian Brethren (Primary well)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	12/14/2006	11:55		X	X	X	47.69284	117.72243	Indoor spigot
06121053	Gary Clemenson	23126 West Sprague Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	11:15		X			47.65933	117.72687	Outdoor spigot
06121054	Tracy Parr	23324 West Sprague Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	11:25		X			47.65930	117.72940	Indoor faucet
06121055	Hazel Ahl	22100 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	12/15/2006	11:35		X			47.64366	117.71289	Outdoor spigot[b]
06121056	John Soom	21816 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	12/15/2006	09:00		X	X		47.7178	117.70927	Outdoor spigot
06121057	Trip Blank 9	na	Water	Grab	na	JF	12/13/2006	08:00				X	na	na	Trip Blank
06121060	Field Blank	na	Water	Grab	na	JF	12/15/2006	08:00		X			na	na	Field Blank
07040101	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	30.1	JF	4/16/2007	13:00				X	47.68931	117.72276	Monitoring well
07040102	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	62	JF	4/16/2007	13:45				X	47.68714	117.72525	Monitoring well
07040103	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	78.16	JF	4/16/2007	14:20				X	47.68705	117.72233	Monitoring well
07040104	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	58.7	JF	4/16/2007	14:50				X	47.68624	117.72246	Monitoring well
07040105	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	10:40				X	47.68567	117.72351	Treatment system (pre-treatment)
07040106	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	12:20				X	47.68476	117.71757	Outdoor spigot
07040108	James Codiga (Euclid Well)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	11:40				X	47.68708	117.72184	Outdoor spigot
07040109	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	12:00				X	47.68479	117.72092	Treatment system (pre-treatment)
07040110	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	12:00				X	47.68479	117.72092	Treatment system (mid-treatment)
07040111	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	12:00				X	47.68479	117.72092	Treatment system (post-treatment)

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SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07040112	James Codiga (residence)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	11:10				X	47.70282	117.74151	Treatment system (pre-treatment)
07040113	James Codiga (residence)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	11:10				X	47.70282	117.74151	Treatment system (mid-treatment)
07040114	James Codiga (residence)	22900 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	11:10				X	47.70282	117.74151	Treatment system (post-treatment)
07040115	Trip Blank 10	na	Water	Grab	na	JF	4/16/2007	08:00				X	na	na	Trip Blank
07040116	Hutterian Brethren Primary Well	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	4/16/2007	10:05				X	47.69284	117.72243	Indoor spigot
07040117	Hutterian Brethren Chicken Coop	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	4/16/2007	09:45				X	47.69048	117.72301	Indoor spigot
07040118	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	12:00				X	47.68708	117.72184	Treatment system (pre-treatment)
07040119	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	10:40				X	47.68567	117.72351	Treatment system (mid-treatment)
07040120	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	10:40				X	47.68567	117.72351	Treatment system (post-treatment)
07040121	Rick Williams	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	4/16/2007	10:40				X	47.68567	117.72351	Treatment system (pre-treatment duplicate)
07050001	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68721	117.72134	Gore™ Module 532142
07050002	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68714	117.72141	Gore™ Module 532143
07050003	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68709	117.72134	Gore™ Module 532144
07050004	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68709	117.72124	Gore™ Module 532145
07050005	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68716	117.72118	Gore™ Module 532146
07050006	Hutterian Brethren (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:30				X	47.68722	117.72120	Gore™ Module 532147
07050007	Hutterian Brethren Blank (near MW02)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	na				X	na	na	Gore™ Module 532148
07050008	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68942	117.72181	Gore™ Module 532149
07050009	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68938	117.72181	Gore™ Module 532150
07050010	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68934	117.72179	Gore™ Module 532151

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EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07050011	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68932	117.72175	Gore™ Module 532152
07050012	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68932	117.72170	Gore™ Module 532153
07050013	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	18:50				X	47.68934	117.72166	Gore™ Module 532154
07050014	Hutterian Brethren (near MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	na				X	na	na	Gore™ Module 532155
07050015	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				X	47.69288	117.72249	Gore™ Module 532156
07050016	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				na	47.69279	117.72253	Gore™ Module 532157
07050017	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				X	47.69272	117.72234	Gore™ Module 532158
07050018	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				X	47.69279	117.72256	Gore™ Module 532159
07050019	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				X	47.69287	117.72262	Gore™ Module 532160
07050020	Hutterian Brethren (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	19:15				X	47.69278	117.72245	Gore™ Module 532161
07050021	Hutterian Brethren Blank (near Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	JF	6/10/2007	na				X	na	na	Gore™ Module 532162
07050200	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	5/23/2007	10:15				X	47.68573	117.71216	Outdoor spigot
07050201	Trip Blank 11	na	Water	Grab	na	JF	5/23/2007	08:00				X	na	na	Trip Blank
07050202	Intermittent Stream (Ron Thompson Property)	22215 West Sprague Road Reardan, WA 99029	SW	Grab	na	JF	5/23/2007	10:25				X	47.68747	117.71376	Stream
07060001	Joe Cravens	25313 West Coulee Hite Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	06:15	X		X		47.74239	117.75555	Outdoor spigot
07060002	Mary Jane Fell-Bradford	8018 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	06:20	X		X		47.64400	117.71407	Indoor faucet[b]
07060003	Cynthia Powers	20614 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	06:45	X		X		47.71633	117.69195	Outdoor spigot
07060004	Travis Learn	20810 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	06:55	X		X		47.71623	117.69544	Outdoor spigot
07060005	Lisa Taylor	20814 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	07:15	X		X		47.71944	117.69597	Outdoor spigot
07060006	Travis Green	20820 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	07:30	X		X		47.72206	117.69456	Outdoor spigot

Key is found on the last page.

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SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

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Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07060007	Mike Broderius	21114 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	07:50	X		X		47.71939	117.69904	Outdoor spigot
07060008	Wesley Geisinger	21110 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	08:10	X		X		47.71716	117.69928	Outdoor spigot
07060009	Nancy Eldridge	21202 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	08:20	X		X		47.71928	117.701	Outdoor spigot
07060010	Cindi Cleveland	21208 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	08:40		X	X		47.71719	117.70126	Outdoor spigot
07060011	Richard Allen	21318 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	09:10		X	X		47.71675	117.70223	Outdoor spigot
07060012	Pat Weiner	21615 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	09:35		X	X		47.71031	117.70955	Outdoor spigot
07060013	Rod Soom	21718 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	09:45		X	X		47.71724	117.70689	Outdoor spigot
07060014	John Soom	21816 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	10:00		X	X		47.7178	117.70927	Outdoor spigot
07060015	Alex Murphy	22025 West Jacobs Road Spokane, WA 98224	GW	Grab	na	JF	6/11/2007	10:20		X	X		47.71572	117.71145	Outdoor spigot
07060016	Mike Lindsay	22205 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	10:35		X	X		47.71540	117.71355	Outdoor spigot
07060017	Brenda Deshazer	22315 North Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	10:50		X	X		47.71269	117.71543	Outdoor spigot
07060018	Chris Fitzpatrick	22311 West Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	11:05		X	X		47.71516	117.71471	Outdoor spigot
07060019	Jeremy Anderson	22905 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	11:20		X	X		47.71583	117.71884	Outdoor spigot
07060020	Buddi Williams	23912 West Jacobs Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	11:45		X	X		47.71676	117.73595	Outdoor spigot
07060021	Kristin Chaka	20702 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	12:10		X	X		47.71737	117.69315	Outdoor spigot
07060022	Jerry Hoskins	23304 West Jacobs Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	12:30		X	X		47.71679	117.72845	Outdoor spigot
07060023	Eileen Clouse	6215 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	12:55		X	X		47.71396	117.73346	Outdoor spigot
07060024	Rosemary Slemp	6310 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	14:05		X	X		47.71654	117.73112	Outdoor spigot
07060025	Vic Wyatt	6814 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	14:30		X	X		47.71822	117.73080	Spigot in shed
07060026	Dave Tueller	6504 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	14:45		X	X		47.71885	117.73058	Outdoor spigot
07060027	Ozzie Knezovich	6610 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	14:55		X	X		47.71907	117.73133	Outdoor spigot

Key is found on the last page.

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EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07060028	Richard VanSickle/ John Beamer	6712/6814 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	15:15		X	X		47.72102	117.73154	Outdoor spigot
07060029	Allen Allbee	7006 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/11/2007	15:30		X	X		47.72251	117.73170	Spigot in wellhouse
07060030	Wendy Matusik	7322 North Brooks Road Spokane, WA 98224	GW	Grab	na	JF	6/11/2007	16:00		X	X		47.72486	117.6787	Outdoor spigot
07060031	Phil Cogley	North 6620 Brooks Road Spokane, WA 99224	GW	Grab	na	JF	6/11/2007	16:15		X	X		47.7192	117.67535	Outdoor spigot
07060032	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	06:00		X	X		47.70282	117.74151	Post treatment system
07060033	Doug Hicks	1616 North Ritchey Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	06:30		X	X		47.67315	117.71043	Outdoor spigot
07060034	Tom Taylor	19701 West Bowie Road Spokane, WA 99022	GW	Grab	na	JF	6/12/2007	06:45		X	X		47.69957	117.6841	Outdoor spigot
07060035	Julie Campbell	20802 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	07:10		X	X		47.68418	117.69815	Outdoor spigot
07060036	Jeff Supinger	2118 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	07:25		X	X		47.67767	117.70769	Indoor faucet
07060037	James Supinger	2620 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	07:45		X	X		47.68212	117.71086	Outdoor spigot
07060038	Susan Pedersen	21221 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	08:05		X	X		47.70039	117.70021	Outdoor spigot
07060039	Kenneth Jones	21905 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	08:20		X	X		47.70099	117.70906	Outdoor spigot
07060040	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	08:40		X	X		47.68573	117.71216	Outdoor spigot
07060041	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	09:05		X	X		47.68567	117.72351	Outdoor frost free (untreated) Former Rick Williams house
07060042	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	09:20		X	X		47.68476	117.71757	Outdoor spigot
07060043	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	09:40		X	X		47.68479	117.72092	Outdoor spigot
07060044	Duane Perin	2819A North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	09:55		X	X		47.68377	117.71243	Outdoor spigot
07060045	Michael Perin	2819B North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	10:15		X	X		47.68437	117.71195	Outdoor spigot
07060046	Justin Rhodes	22320 West Bowie Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	10:40		X	X		47.70329	117.72568	Outdoor spigot
07060047	Dale Rhodes	22726 West Bowie Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	11:00		X	X		47.7037	117.7202	Outdoor spigot

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REARDAN, WASHINGTON

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07060048	Wayne Remmers	3207 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	11:35		X	X		47.68882	117.73321	Outdoor spigot
07060049	Hutterian Brethren (Primary Well)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	6/12/2007	11:50		X	X		47.69284	117.72243	Spigot in well house
07060050	Barry Bigler	23717 West Bowie Lane Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	12:10		X	X		47.69984	117.73540	Outdoor spigot
07060051	Adam Lloyd	25512 West Euclid Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	12:25		X	X		47.68904	117.75491	Outdoor spigot
07060052	Francis Steel	4202 North Wood Road Reardan, WA 99029-9619	GW	Grab	na	JF	6/12/2007	12:45		X	X		47.69985	117.72145	Spigot in shed[b]
07060053	Tim Ahern	2608 North Deep Creek Road Medical Lake, WA 98022	GW	Grab	na	JF	6/12/2007	13:55		X	X		47.6814	117.6936	Outdoor spigot
07060054	Christine Snow	2702 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	14:30		X	X		47.68281	117.68913	Outdoor spigot
07060055	Judy Mahoney	3511 North Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	14:45		X	X		47.69002	117.68970	Outdoor spigot
07060056	Jason Echelbarger	3526 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	15:10		X	X		47.68998	117.70497	Outdoor spigot
07060057	Judy Houghton	3912 North Ritchey Road Medical Lake, WA 98022	GW	Grab	na	JF	6/12/2007	15:20		X	X		47.69353	117.71008	Outdoor spigot
07060058	John Sullivan	4020 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	15:45		X	X		47.69496	117.71005	Outdoor spigot
07060059	Jody Dewey	4101 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	16:00		X	X		47.69176	117.70195	Outdoor spigot
07060060	Tim Nelson	4110 North Ritchey Road Medical Lake, WA 98022	GW	Grab	na	JF	6/12/2007	16:20		X	X		47.6956	117.70929	Outdoor spigot
07060061	Kyle Stevens	4314 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	16:40		X	X		47.69751	117.70953	Outdoor spigot
07060062	Fran Pierson	2701 North Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	6/12/2007	17:00		X	X		47.68538	117.68931	Outdoor spigot
07060063	Mike Nichols	1201 South Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	06:00		X	X		47.64595	117.73093	Outdoor spigot
07060064	McNair Residence (owned by Jerry Guhlke)	21816 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	06:30		X	X		47.64439	117.70969	Outdoor spigot[b]
07060065	Jerry Guhlke	21816 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	6/12/2007	06:35		X	X		47.64388	117.70921	Outdoor spigot
07060066	Linda Seagle	22012 West State Route 2 Medical Lake, WA 99029	GW	Grab	na	JF	6/12/2007	07:00		X	X		47.64365	117.71134	Outdoor spigot
07060067	Ron Ahl	22110 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	07:20		X	X		47.64366	117.71289	Indoor faucet
07060068	Hazel Ahl	22100 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	07:25		X	X		47.64400	117.71407	Outdoor spigot[b]

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07060069	Harry Grennay	26304 West Highway 2 Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	07:45		X	X		47.6444	117.76904	Outdoor spigot
07060070	Sandy Jorstad	21818 West Highway 2 Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	08:15		X	X		47.64403	117.70888	Outdoor spigot
07060071	Robert Shores	1209 South Central Avenue Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	08:20		X	X		47.64423	117.70924	Outdoor spigot[b]
07060072	Paul Shollenberger	22001 West Highway 2 Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	08:50		X	X		47.64272	117.71128	Outdoor spigot
07060073	AnnaMay O'Neill	1207 South Central Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	08:30		X	X		47.64448	117.70919	Outdoor spigot
07060074	Jeff Adolf	22312 West State Route 2 Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	09:15		X	X		47.64399	117.72414	Outdoor spigot
07060075	NW Microfilms (Paul Rayburn)	22210 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	09:45		X	X		47.65998	117.71384	Outdoor spigot
07060076	Wayne Horn	110 North Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	10:10		X	X		47.65876	117.70988	Outdoor spigot
07060077	Mike Strope	910 Ritchey Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	10:30		X	X		47.64919	117.71229	Outdoor spigot
07060078	Jorgene Eastman	22811 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	11:00		X	X		47.65571	117.72174	Outdoor spigot
07060079	Ray Logsdon	22812 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	11:20		X	X		47.65831	117.72241	Outdoor spigot
07060080	Stuart Sattler	2300 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	11:40		X	X		47.65669	117.72563	Outdoor spigot
07060081	Paul Rodkey	23010 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	12:00		X	X		47.66066	117.72488	Outdoor spigot
07060082	Dan Helmer	23103 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	12:20		X	X		47.66344	117.72662	Outdoor spigot
07060083	Les Nee	23212 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	12:40		X	X		47.65929	117.72792	Outdoor spigot
07060084	Steve Hatcher	23321 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	13:20		X	X		47.66322	117.72834	Outdoor spigot
07060085	Justin Ikehara	23322 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	13:25		X	X		47.66371	117.72939	Outdoor spigot
07060086	Tracy Parr	23324 West Sprague Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	13:00		X	X		47.65930	117.72940	Indoor faucet
07060087	Carl Bettcher	23504 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	14:10		X	X		47.66430	117.73072	Outdoor spigot
07060088	Connie Rucker	23505 West Alki Lane Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	14:15		X	X		47.66339	117.73085	Outdoor spigot

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07060089	Hal Snelling	304 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	14:40		X	X		47.66065	117.73111	Outdoor spigot (Former Diane Abbey residence)
07060090	Pete Pedersen	710 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	15:05		X	X		47.66515	117.73100	Outdoor spigot
07060091	Marcie Mangold	1607 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	15:25		X	X		47.64046	117.70811	Outdoor spigot
07060092	Ruben Ontiveros	2203 South Rieth Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	15:50		X	X		47.63535	117.72057	Outdoor spigot
07060093	Karen Maher	2620 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	16:15		X	X		47.63097	117.71163	Outdoor spigot
07060094	Rex Steinmetz	1509 South Ritchey Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	16:40		X	X		47.64151	117.70769	Outdoor spigot
07060095	Lisa Nellis	20626 West Old Sunset Hwy. Reardan, WA 99029	GW	Grab	na	JF	6/13/2007	06:00		X	X		47.64587	117.69261	Outdoor spigot
07060096	Ken Holmes	723 South Brooks Road Medical Lake, WA 98022	GW	Grab	na	JF	6/13/2007	06:20		X	X		47.64906	117.68671	Outdoor spigot
07060097	Judy Gauna	719 South Brooks Road Medical Road, WA 99022	GW	Grab	na	JF	6/13/2007	06:40		X	X		47.64951	117.68528	Outdoor spigot
07060098	Shelee Brown	717 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	07:05		X	X		47.64980	117.68339	Outdoor spigot[b]
07060099	Wayne Engstrom	714 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	07:30		X	X		47.65149	117.68293	Outdoor spigot
07060100	Genny Steinmetz	20003 West Steinmetz Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/13/2007	08:00		X	X		47.65227	117.68426	Outdoor spigot
07060101	Karla Jones	716 South Brooks Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	08:15		X	X		47.65203	117.68536	Outdoor spigot
07060102	Darrin Schwartz	20304 West Steinmetz Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	08:35		X	X		47.65439	117.68864	Outdoor spigot
07060103	Larry Chalmers Jane O'Reagan	425 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	09:10		X	X		47.66235	117.68962	Outdoor spigot
07060104	Valla Melvin	707 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	09:40		X	X		47.66401	117.86948	Outdoor spigot
07060105	Dale Luiten	803 North Christensen Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	09:50		X	X		47.66558	117.68268	Outdoor spigot
07060106	Ed Burge	813 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	10:25		X	X		47.66646	117.69205	Outdoor spigot
07060107	Brad Pace	1210 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	10:30		X	X		47.66924	117.6941	Outdoor spigot
07060108	Bill Sabatino	1627 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	10:45		X	X		47.67326	117.69958	Outdoor spigot

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07060109	Edward Cooper	1808 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	11:15		X	X		47.67465	117.69914	Outdoor spigot
07060110	Curley Warner	1925 North Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	11:30		X	X		47.67560	117.70299	Outdoor spigot
07060111	Joe Garza	2220 Deep Creek Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	11:50		X	X		47.67903	117.69774	Outdoor spigot
07060112	Del Corey	20902 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	12:10		X	X		47.67614	117.69595	Outdoor spigot
07060113	Roberta Hanratty	20904 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	12:20		X	X		47.6773	117.69485	Outdoor spigot
07060114	Cheryl McGilley	20702 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	12:35		X	X		47.67778	117.69362	Outdoor spigot
07060115	Ken Langford	20606 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	13:00		X	X		47.67833	117.69203	Indoor faucet
07060116	Susie Hodges	20202 West Indiana Lane Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	13:20		X	X		47.67746	117.68078	Outdoor spigot
07060117	Mark Duncan	1515 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	13:40		X	X		47.67152	117.08375	Outdoor spigot[b]
07060118	Ann Dewitt	1525 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	13:55		X	X		47.67301	117.68441	Outdoor spigot
07060119	Kevin Houghton	1535 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	14:20		X	X		47.67232	117.6881	Outdoor spigot
07060120	Greg Nolt	18411 West Bowie Road Spokane, WA 99244	GW	Grab	na	JF	6/14/2007	14:35		X	X		47.69503	117.6636	Outdoor spigot
07060121	Claire Keeble	3228 North Christianson Road Medical Lake, WA 99022	GW	Grab	na	JF	6/14/2007	14:50		X	X		47.68869	117.65504	Outdoor spigot
07060122	Eastern State Hospital Well	West Hallett and South Ladd Roads	GW	Grab	na	JF	6/14/2007	15:20		X	X		47.5946	117.75471	Indoor spigot
07060123	Eileen Clouse backup well	6215 North Wood Road Reardan, WA 99029	GW	Grab	na	JF	6/14/2007	15:50		X	X		47.71396	117.73346	Indoor tank
07100501	Trip Blank 12	na	Water	Grab	na	MW	10/22/2007	08:00				X	na	na	Trip Blank 12
07100502	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	10:20				X	47.68493	117.72092	Treatment system (pre-treatment)
07100503	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	10:20				X	47.68493	117.72092	Treatment system (mid-treatment)
07100504	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	10:20				X	47.68493	117.72092	Treatment system (post-treatment)
07100505	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	08:30				X	47.70282	117.74151	Treatment system (pre-treatment)
07100506	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	08:30				X	47.70282	117.74151	Treatment system (mid-treatment)

Key is found on the last page.

Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07100507	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	08:30				X	47.70282	117.74151	Treatment system (post-treatment)
07100508	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	11:30				X	47.68567	117.72351	Treatment system (pre-treatment)
07100509	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	11:30				X	47.68567	117.72351	Treatment system (mid-treatment)
07100510	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	11:30				X	47.68567	117.72351	Treatment system (post-treatment)
07100511	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	09:55				X	47.68476	117.71757	Outdoor spigot
07100512	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	MW	10/22/2007	11:00				X	47.68573	117.71216	Outdoor spigot
07100513	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	35.14	MW	10/25/2007	11:00				X	47.68931	117.72276	Monitoring well
07100514	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	66.32	MW	10/25/2007	12:00				X	47.68714	117.72525	Monitoring well
07100515	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	82.66	MW	10/25/2007	13:00				X	47.68705	117.72233	Monitoring well
07100516	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	62.9	MW	10/25/2007	14:00				X	47.68624	117.72246	Monitoring well
07100517	Hutterian Brethren (MW05)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	31.51	MW	10/26/2007	09:45				X	47.69101	117.73103	Monitoring well
07100518	Hutterian Brethren (MW06)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	33.65	MW	10/26/2007	09:05				X	47.69007	117.72788	Monitoring well
07100519	Wayne Remmers (MW07)	3207 North Wood Road Reardan, WA 99029	GW	Grab	36.02	MW	10/26/2007	08:30				X	47.68691	117.72955	Monitoring well
07100520	Ron Thompson (MW08)	22215 West Sprague Road Reardan, WA 99029	GW	Grab	70.9	MW	10/26/2007	07:45				X	47.68638	117.71709	Monitoring well
07100521	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	10/24/2007	10:40				X	47.68493	117.72092	Backup Tank
07100522	Rinsate Blank	na	Water	Grab	na	MW	10/25/2007	14:20				X	na	na	Rinsate Blank
07100541	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:05				X	47.70118	117.74301	Gore™ Module
07100542	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:07				X	47.70134	117.74233	Gore™ Module
07100543	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:09				X	47.70129	117.74187	Gore™ Module
07100544	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:15				X	47.69908	117.73586	Gore™ Module
07100545	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:20				X	47.69941	117.73591	Gore™ Module

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SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07100546	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:22				X	47.69967	117.73596	Gore™ Module
07100547	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:25				X	47.69991	117.73588	Gore™ Module
07100548	Wayne Remmers	3207 North Wood Road Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	09:30				X	47.68815	117.73344	Gore™ Module
07100549	Wayne Remmers	3207 North Wood Road Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	09:32				X	47.68839	117.73345	Gore™ Module
07100550	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:40				X	47.69423	117.73318	Gore™ Module
07100551	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:42				X	47.69384	117.73321	Gore™ Module
07100552	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:44				X	47.69349	117.73322	Gore™ Module
07100553	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:46				X	47.69299	117.73321	Gore™ Module
07100554	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:48				X	47.69257	117.73321	Gore™ Module
07100555	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:50				X	47.6919	117.73322	Gore™ Module
07100556	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:52				X	47.69079	117.73325	Gore™ Module
07100557	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:54				X	47.69033	117.73321	Gore™ Module
07100558	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:56				X	47.68997	117.72222	Gore™ Module
07100559	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	09:58				X	47.68962	117.73324	Gore™ Module
07100560	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:00				X	47.68925	117.73321	Gore™ Module
07100561	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:02				X	47.68888	117.73311	Gore™ Module
07100562	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:04				X	47.58837	117.73294	Gore™ Module
07100563	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:06				X	47.68797	117.73304	Gore™ Module
07100564	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:08				X	47.68763	117.73328	Gore™ Module
07100565	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:10				X	47.68723	117.73324	Gore™ Module
07100566	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:15				X	47.58699	117.73592	Gore™ Module

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Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
07100567	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:16				X	47.68696	117.73562	Gore™ Module
07100568	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:17				X	47.68705	117.7354	Gore™ Module
07100569	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:18				X	47.68735	117.73541	Gore™ Module
07100570	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:20				X	47.69081	117.7354	Gore™ Module
07100571	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:21				X	47.69086	117.7359	Gore™ Module
07100572	Hutterian Brethren	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:22				X	47.69098	117.73842	Gore™ Module
07110001	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:30				X	47.68931	117.72276	Monitoring well
07110002	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:30				X	47.68931	117.72276	Monitoring well
07110003	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:30				X	47.68931	117.72276	Monitoring well
07110004	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:40				X	47.68714	117.72525	Monitoring well
07110005	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:40				X	47.68714	117.72525	Gore™ Module
07110006	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:40				X	47.68714	117.72525	Gore™ Module
07110007	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:45				X	47.68705	117.72233	Gore™ Module
07110008	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:45				X	47.68705	117.72233	Gore™ Module
07110009	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	SG	Comp.	na	MW	11/7/2007	10:45				X	47.68705	117.72233	Gore™ Module
07110010	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:50				X	47.68624	117.72246	Gore™ Module
07110011	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:50				X	47.68624	117.72246	Gore™ Module
07110012	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	SG	Comp.	na	MW	11/7/2007	10:50				X	47.68624	117.72246	Gore™ Module
07110013	Trip Blank	na	SG	Comp.	na	MW	11/7/2007	na				X	na	na	Gore™ Module
07110014	Trip Blank	na	SG	Comp.	na	MW	11/7/2007	na				X	na	na	Gore™ Module
07110015	Trip Blank	na	SG	Comp.	na	MW	11/7/2007	na				X	na	na	Gore™ Module
07110016	Trip Blank	na	SG	Comp.	na	MW	11/7/2007	na				X	na	na	Gore™ Module
09060001	Hutterian Brethren (MW01)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	26.47	MW	6/30/2009	10:00				X	47.68931	117.72276	Monitoring well

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Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	Location	Address	Matrix	Type	Water Level (feet bgs)	Sampler	Collection Date	Collection Time	NDMA (STL SOP)	NDMA (CAS EPA Method 521)	Perchlorate	VOCs[a]	North Latitude (decimal degrees)	West Longitude (decimal degrees)	Sample Location
09060002	Harris (MW02)	West Euclid Road (Undeveloped) Reardan, WA 99029	GW	Grab	59.41	MW	6/30/2009	10:45				X	47.68714	117.72525	Monitoring well
09060003	Hutterian Brethren (MW03)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	74.75	MW	6/30/2009	11:30				X	47.68705	117.72233	Monitoring well
09060004	Hall (MW04)	22625 West Euclid Road Reardan, WA 99029	GW	Grab	56.7	MW	6/30/2009	12:15				X	47.68624	117.72246	Monitoring well
09060005	Hutterian Brethren (MW05)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	26.35	MW	6/30/2009	13:00				X	47.69101	117.73103	Monitoring well
09060006	Hutterian Brethren (MW06)	3610 North Wood Road Reardan, WA 99029-9619	GW	Grab	28.3	MW	6/30/2009	13:30				X	47.69007	117.72788	Monitoring well
09060007	Wayne Remmers (MW07)	3207 North Wood Road Reardan, WA 99029	GW	Grab	33.1	MW	6/30/2009	14:00				X	47.68691	117.72955	Monitoring well
09060008	Ron Thompson (MW08)	22215 West Sprague Road Reardan, WA 99029	GW	Grab	79.30	MW	6/30/2009	15:00				X	47.68638	117.71709	Monitoring well
09060009	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	9:30				X	47.68624	117.72246	Treatment system (pre-treatment)
09060010	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	9:35				X	47.68624	117.72246	Treatment system (mid-treatment)
09060011	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	9:40				X	47.68624	117.72246	Treatment system (post-treatment)
09060012	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	10:30				X	47.70282	117.74151	Treatment system (pre-treatment)
09060013	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	10:35				X	47.70282	117.74151	Treatment system (mid-treatment)
09060014	James Codiga (residence)	4803 North Wood Road Reardan, WA 99029	GW	Grab	na	MW	6/29/2009	10:40				X	47.70282	117.74151	Treatment system (post-treatment)
09060015	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/30/2009	11:05				X	47.68567	117.72351	Treatment system (pre-treatment)
09060016	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/30/2009	11:10				X	47.68567	117.72351	Treatment system (mid-treatment)
09060017	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/30/2009	11:15				X	47.68567	117.72351	Treatment system (post-treatment)
09060018	Trip Blank	na	Water	Grab	na	MW	6/30/2009	8:00				X	na	na	na
09060019	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	9:15				X	47.68567	117.72351	Background Outdoor Air
09060022	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	9:05				X	47.68567	117.72351	Indoor Downstairs
09060023	Eugene Thompson	22901 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	9:05				X	47.68567	117.72351	Indoor Upstairs
09060024	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	9:55				X	47.68624	117.72246	Indoor Upstairs

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Table 2-1

SAMPLE COLLECTION AND ANALYTICAL SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Information									Analyses				Location		
Number	**Location**	**Address**	**Matrix**	**Type**	**Water Level (feet bgs)**	**Sampler**	**Collection Date**	**Collection Time**	**NDMA (STL SOP)**	**NDMA (CAS EPA Method 521)**	**Perchlorate**	**VOCs[a]**	**North Latitude (decimal degrees)**	**West Longitude (decimal degrees)**	**Sample Location**
09060025	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	10:00				X	47.68624	117.72246	Indoor Downstairs
09060026	Melvin Hall	22625 West Euclid Road Reardan, WA 99029	Air	Comp.	na	MW	6/30/2009	10:00				X	47.68624	117.72246	Background Outdoor Air
09060027	Rinsate Blank	na	Water	Grab	na	MW	6/30/2009	12:30				X	na	na	na
09060028	Ben Echelbarger	22517 West Euclid Road Reardan, WA 99029	GW	Grab	na	MW	6/30/2009	11:50				X	47.68476	117.71757	Outdoor spigot
09060029	Ron Thompson	22215 West Sprague Road Reardan, WA 99029	GW	Grab	na	MW	6/30/2009	14:30				X	47.68638	117.71709	Outdoor spigot

Key is found on the last page.

Table 2-1 Key

Notes:

[a] Water and air samples were analyzed for TCE only. Soil gas samples were analyzed for TCE and additional VOCs. Soil gas sample depths are approximate.

[b] Sample collection locations varied at these residences.

Key:

AJ	= Alan Jensen.
bgs	= below ground surface.
Comp.	= Composite.
EPA	= United States Environmental Protection Agency.
GW	= Groundwater.
JF	= Joe Fowlow.
MW	= Mark Woodke.
na	= Not Applicable.
NDMA	= N-nitrosodimethylamine.
STL SOP	= Severn-Trent Laboratory Standard Operating Procedure.
SW	= Surface water.
TCE	= Trichloroethene.
VOCs	= Volatile Organic Compounds.

Table 2-2

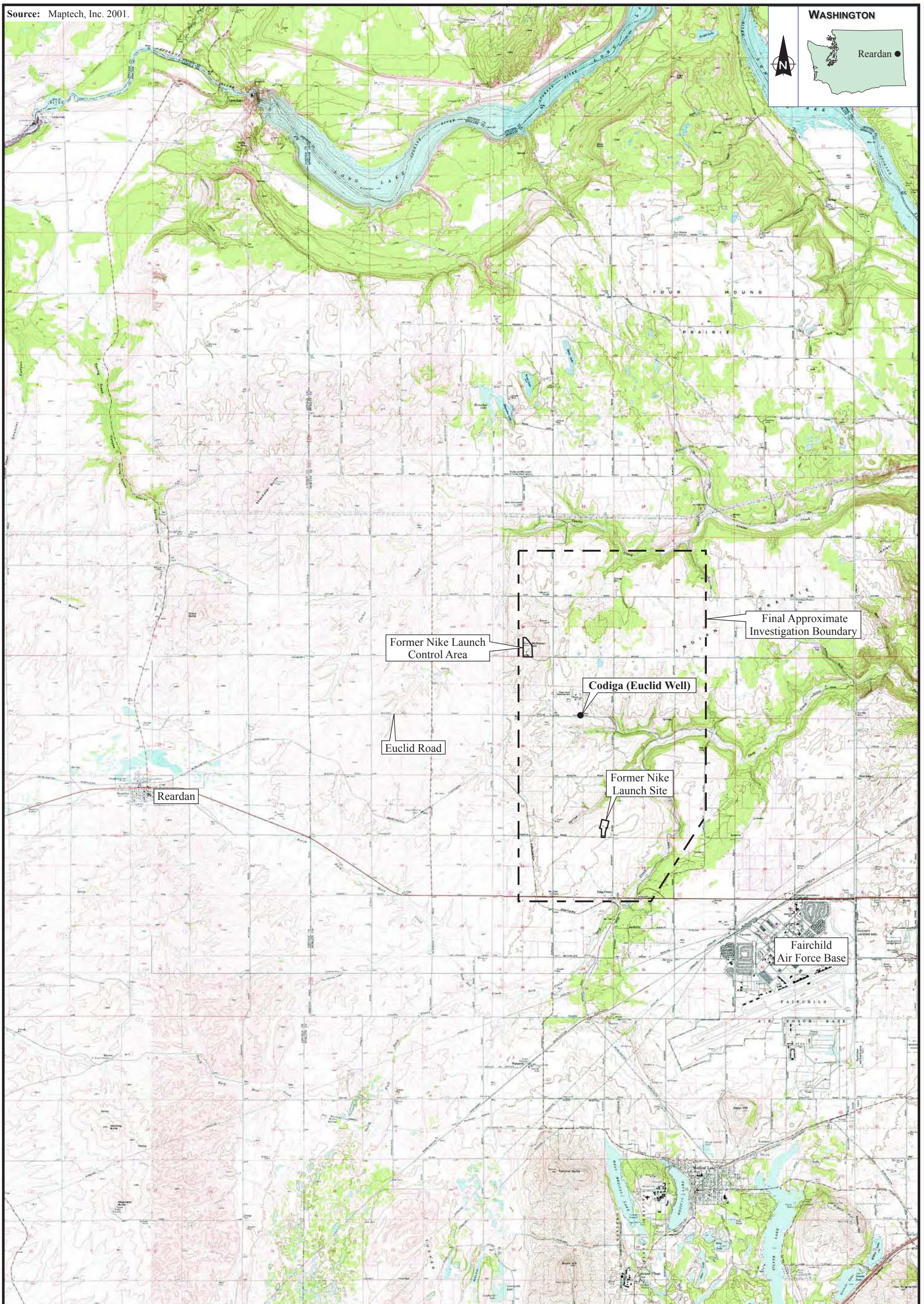
HISTORICAL SAMPLE RESULTS
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

Sample Identification	Collection Date	Sample Location	TCE Sample Result (µg/L)
Euclid Well	October 2004	Euclid Well	**130**
Rick Williams Residence	February 2005	Rick Williams Residence	**47**
Hutterian Livestock Well	February 2005	Hutterian Livestock Well	**1.2**
Hutterian Chicken Coop Well	February 2005	Hutterian Chicken Coop Well	**1.2**
ERGW13	August 2005	Rick Williams Residence Kitchen Faucet	**26**
ERGW14	August 2005	Field Duplicate of ERGW13	**26.6**
ERGW15	August 2005	Rick Williams Residence Bathroom Faucet	**25.2**
ERGW16	August 2005	Melvin Hall Residence	**53.9**
ERGW17	August 2005	Melvin Hall Residence Kitchen Faucet	**59.5**
ERGW18	August 2005	Melvin Hall Residence Bathroom Faucet	**56.5**
ERGW19	August 2005	Ron Thompson Residence	1.00 U
ERGW20	August 2005	Doug Hicks (Northern Well)	0.5 U
ERGW21	August 2005	Doug Hicks (Southern Well)	0.5 U
ERGW22	August 2005	Raymond Logsdon Well	0.5 U
ERGW23	August 2005	Duane Perin Residence	0.5 U
ERGW24	August 2005	Mike Perin Well	0.5 U
ERGW25	August 2005	Melvin Hall Spring	**12.9**
ERGW26	August 2005	Rick Williams Spring	0.5 U
ERGW27	August 2005	Eugene Thompson Well	0.5 U
ERGW28	August 2005	Roy Olsen Well	0.5 U
ERGW29	August 2005	Dan Helmer Well	0.5 U
ERGW31	August 2005	Gary Clemenson Well	0.5 U
ERGW32	August 2005	Field Duplicate of ERGW31	0.5 U
ERGW33	August 2005	Les Nee Well	0.5 U
ERGW34	August 2005	Paul Rodkey Well	0.5 U
ERGW35	August 2005	Dan Helmer Well (New Construction)	0.5 U
ERMW-1	November 2005	900 feet north of Euclid Well on Hutterite Property (MW01)	**3.9**
ERMW-2	November 2005	150 feet east of Euclid Well on Donald Harris Property (MW02)	**83**
ERMW-3	November 2005	Adjacent to Hutterite Livestock well, east of Euclid Well (MW03)	**140**
ERMW-4	November 2005	South of Euclid Well on Hall Property (MW04)	**96**
ERMW-5	November 2005	Field duplicate of ERMW-4	**87**
ERVaultSW	November 2005	Ponded water inside telephone vault located 80 feet south of Euclid Well	0.2 U

Note: Bold type indicates the sample result is above the detection limit.

Key:
µg/L = Micrograms per liter.
TCE = Trichloroethene.
U = Not detected at the listed quantitation limit.

Note: This page intentionally left blank.



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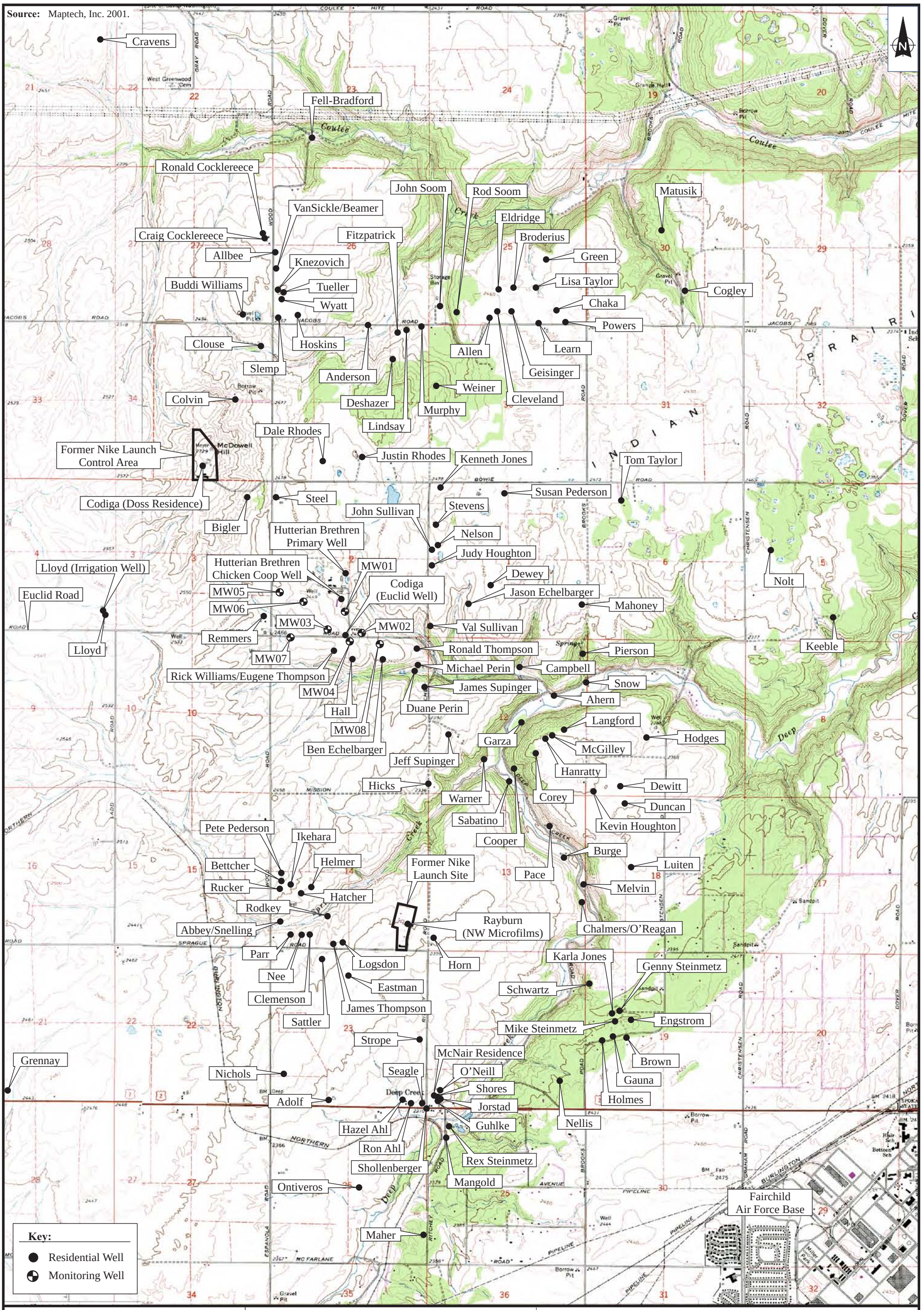
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 2-1
SITE LOCATION MAP

0 4000 8000
Approximate Scale in Feet

Date: 1/22/09 | Drawn by: AES | 10:START-3\06090002\fig 2-1



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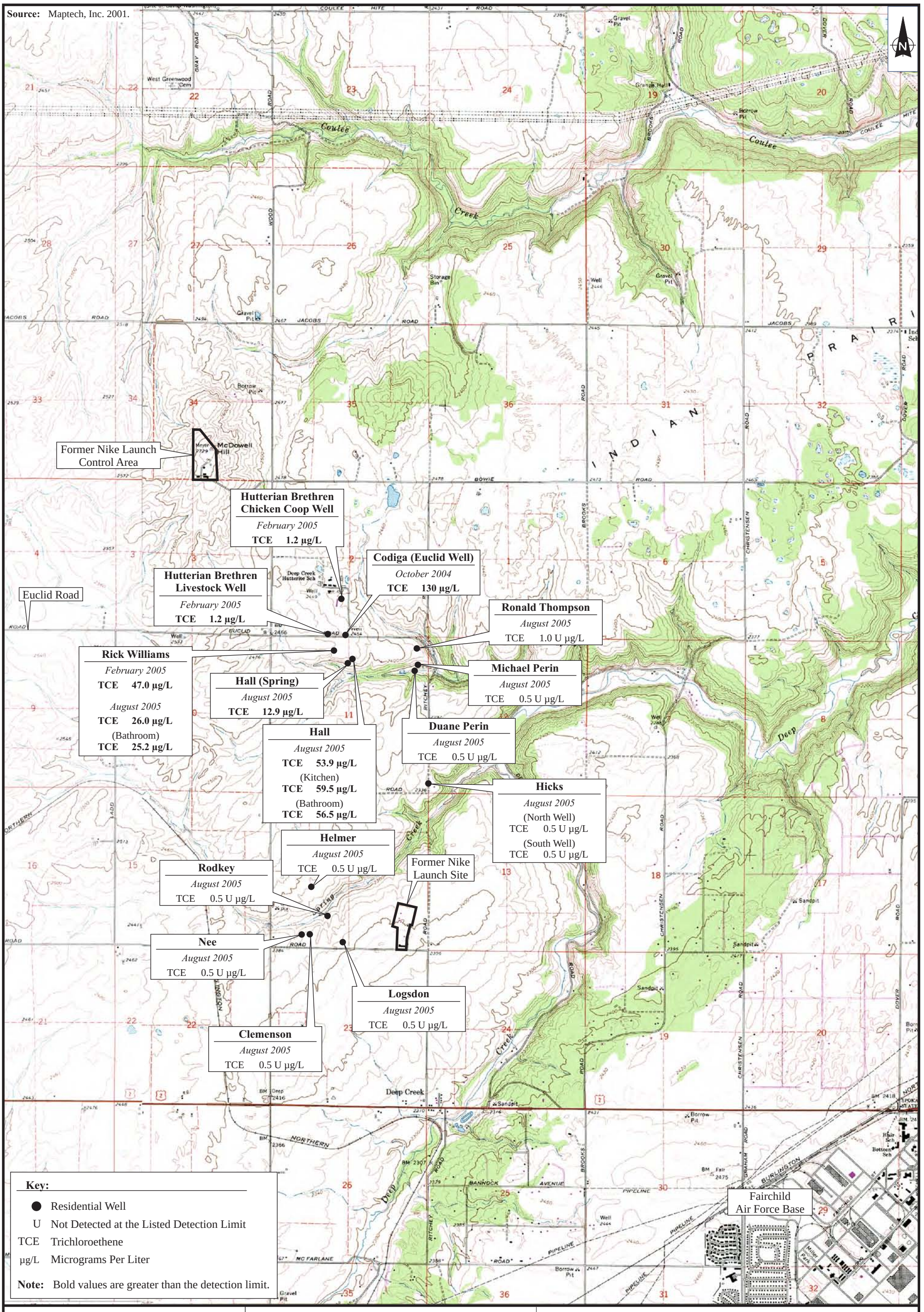
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 2-2
GROUNDWATER SAMPLE LOCATION MAP

Date:	Drawn by:	
12/8/08	AES	10:START-3\06090002\fig 2-2



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Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 2-3
PREVIOUS INVESTIGATIONS
GROUNDWATER SAMPLE LOCATION MAP

Date: 12/10/09
Drawn by: AES
10:START-3\06090002\fig 2-3

3 Media Sampling Activities

EPA tasked E & E START to continue the project in 2006 to evaluate the impact of an unknown source of TCE on groundwater. In addition, samples were collected for NDMA and perchlorate analyses due to the nearby location of the former Nike missile launching site (the former Fairchild Nike Battery 87 site) that at various times housed Ajax and Hercules missiles. The Ajax system utilized UDMH as an igniter while NDMA is a contaminant in UDMH. Hercules missiles used ammonium perchlorate in the propellant mixture. Sampled wells are located at the properties described in Table 2-1 and shown on Figure 2-2.

Sampling activities took place during 14 separate field events which occurred on March 28, April 15, May 26, June 22 and 23, June 25 and 26, August 22, September 14-15, and December 13-15, 2006; April 26, May 23, June 10-15, October 22-26, and November 7, 2007; and June 29 and 30, 2009. Data from these 14 field events are summarized in chronological order in Tables 3-1 through 3-14 and Figures 3-1 through 3-18. Photographic documentation of field activities is provided in Appendix A. As stated in the SSSPs, samples were collected from locations or features considered to be potential contamination sources or targets based on information derived from a review of historical information and recent investigations conducted at the site. Each sample location was recorded with a global positioning system (GPS) unit in the field. The GPS information (Table 2-1) was downloaded to geographic information system (GIS) software or hand-written in the field logbook to be included as a permanent data point on a digital map.

The domestic wells were investigated to determine if the residents were potentially being exposed to NDMA, perchlorate, and/or TCE (subsection 3.1). The monitoring wells were investigated to assist in determining the location(s) of the TCE source(s) and also were sampled for NDMA and perchlorate (subsection 3.2). Results for miscellaneous water samples, including water treatment systems, an irrigation well, backup water supplies, an intermittent stream, and a hospital background location (subsection 3.3), Gore™ Module work (subsection 3.4), vapor in-

trusion work (subsection 3.5), the hydrogeologic evaluation (subsection 3.6), and the monitoring well survey (subsection 3.7) are also provided in this section.

When possible, the water sample results were compared to drinking water limits and exceedances are highlighted in the tables. There are no regulatory limits for NDMA in drinking water so no comparison was performed. The perchlorate results were compared to the EPA Region 6 Human Health Medium-Specific Screening Level (HHMSSL) for tap water of 24.5 µg/L (EPA 2007). TCE water results were compared to the MCL of 5 µg/L (EPA 2000b).

3.1 Domestic Wells

The domestic well assessment began with sampling of the wells closest to the Euclid well and expanded as the investigation continued. Some wells were sampled once and then excluded because no contamination was found, but most wells were sampled two or more times to determine if the results fluctuated over time. During the 2006 sampling, the sample collection efforts were expanded several times to include additional domestic wells inside the approximate investigation boundary not previously sampled. Follow-up sampling at several previously sampled locations also occurred throughout the project to determine if any concentration fluctuations had occurred. A total of 133 domestic wells in the ERGW area were sampled by the end of the investigation. Sampling was generally conducted by purging the wells for approximately 15 minutes prior to sample collection then placing the sample containers underneath the appropriate sampling point nearest to the wellhead and collecting the sample aliquots directly into the sample containers. Domestic well groundwater samples were analyzed for NDMA (STL laboratory standard operating procedure [SOP] and/or EPA method 521), perchlorate (EPA method 6860), and/or TCE (EPA method 8260). Throughout the investigation, the specific parameters analyzed for each domestic well sample were modified depending on the location of the well relative to known areas of contamination. Specifically, TCE, NDMA, and perchlorate were only analyzed for those domestic well samples located in or near the suspected area of impact for these contaminants. Also, the NDMA method was changed during the project from the STL SOP to EPA method 521 due to concerns regarding potential false negative results. Copies of the data QA memoranda are included in Appendix B. Quality assurance information is provided in Appendix C.

3.1.1 March 2006 Analytical Results

Groundwater samples were collected from four domestic wells. The sample results are listed in Table 3-1 and are displayed on Figure 3-1 along with the initial approximate investigation boundary for the project. None of the samples had detectable concentrations of NDMA (STL SOP) or TCE but all four domestic wells sampled in March 2006 had detectable concentrations of perchlorate ranging between 0.22 and 1.3 µg/L. None of the domestic well results exceeded applicable action levels.

3.1.2 April 2006 Analytical Results

Based on the positive perchlorate results in March 2006, the sampling effort was expanded in April.2006. Groundwater samples were collected from 19 domestic wells. The sample results are listed in Table 3-2 and are displayed on Figure 3-2. Two of the six samples analyzed for TCE had detectable concentrations (an estimated quantity (J) of 0.24 J µg/L at the Thompson well and 120 µg/L at the Euclid well). Five of the 19 samples analyzed for NDMA (STL SOP) had detectable concentrations ranging between an estimated quantity of 0.0005 J and 0.0026 µg/L. All 19 samples analyzed for perchlorate had detectable concentrations ranging between an estimated quantity of 0.0078 J and 2.1 µg/L. The Euclid well TCE detection was greater than the MCL of 5 µg/L but none of the other results exceeded applicable action levels.

3.1.3 May 2006 Analytical Results

Based on the positive NDMA, perchlorate, and TCE results in April 2006, the sampling effort was again expanded in May 2006. Groundwater samples were collected from seven domestic wells. The sample results are listed in Table 3-3 and are displayed on Figure 3-3. None of the seven samples analyzed for TCE or NDMA (STL SOP) had detectable concentrations. Five of the seven samples analyzed for perchlorate had detectable concentrations ranging between an estimated quantity of 0.051 J and 3.2 µg/L. None of these results exceeded applicable action levels.

3.1.4 June 2006 Analytical Results

Based on the positive perchlorate results in May 2006, the sampling effort was again expanded in June 2006. Groundwater samples were collected from 49 domestic wells in two sampling events, including one domestic well that had been previously sampled (e.g., the Euclid well). The sample results are listed in Tables 3-4 and 3-5 and are displayed on Figures 3-4 and 3-5

along with the approximate final investigation boundary. The approximate investigation boundary was expanded to include locations near Deep Creek as this low area may have been affected due to its downgradient location. Some locations outside the approximate final investigation boundary were included at the OSC's direction. Two of the 45 samples analyzed for TCE (the Rick Williams residence and the Euclid well) had detectable concentrations (19 and 150 µg/L, respectively). Twenty-nine of the 49 samples analyzed for NDMA (STL SOP) had detectable concentrations ranging between estimated quantities of 0.00069 J and 0.0071 J µg/L. Forty-five of 47 samples analyzed for perchlorate had detectable concentrations ranging between 0.016 and 2.0 µg/L. Both TCE detections were above the MCL of 5.0 µg/L but none of the other domestic well results exceeded applicable action levels.

3.1.5 August 2006 Analytical Results

Based on the positive NDMA, perchlorate, and TCE results in June 2006, the sampling effort was again expanded in August 2006. Groundwater samples were collected from 20 domestic wells. The sample results are listed in Table 3-6 and are displayed on Figure 3-6. None of the domestic well samples analyzed for TCE had a detectable concentration. Two of the 19 samples analyzed for NDMA (STL SOP) had detectable concentrations ranging between an estimated quantity of 0.00066 J and 0.0017 µg/L and seven of the 19 samples analyzed for NDMA (EPA method 521) had detectable concentrations ranging between 0.002 and 0.0038 µg/L. Both NDMA methods were utilized in August 2006 to compare the results and determine which method gave more consistent results. Sixteen of the 18 samples analyzed for perchlorate had detectable concentrations ranging between 0.085 and 2.9 µg/L. None of the domestic well results exceeded applicable action levels.

3.1.6 September 2006 Analytical Results

Based on the positive NDMA and perchlorate results in August 2006, the sampling effort was again expanded in September 2006. Additionally, some domestic wells that had been previously sampled (e.g., the Euclid well) were sampled again so that they could be analyzed for NDMA by EPA method 521. Groundwater samples were collected from 38 domestic wells. The sample results are listed in Table 3-7 and are displayed on Figure 3-7. Six of the 37 samples analyzed for NDMA (STL SOP) had detectable concentrations ranging between an estimated quantity of 0.00081 J and 0.0034 µg/L. Ten of the 35 samples analyzed for NDMA (EPA method 521) had detectable concentrations ranging between 0.0021 and 0.003 µg/L. Both NDMA methods were

utilized in September 2006 to gather additional data for method comparison. Eighteen of the 22 samples analyzed for perchlorate had detectable concentrations ranging between 0.12 and 0.97 µg/L. None of the domestic well results exceeded applicable action levels.

3.1.7 December 2006 Analytical Results

Based on the positive sample results in September 2006, the sampling effort was again expanded in December 2006. Groundwater samples were collected from 39 domestic wells. The sample results are listed in Table 3-8 and are displayed on Figures 3-8 and 3-9. None of the 39 samples analyzed for NDMA (EPA method 521) had a detectable concentration. Based on the results from both NDMA methods in August and September 2006, it was decided that EPA method 521 produced more consistent results and was less likely to produce false negative results, so only EPA method 521 was utilized for NDMA analysis after December 2006. Twenty-nine of the 35 samples analyzed for perchlorate had detectable concentrations ranging between an estimated quantity of 0.0093 J and 2.3 µg/L. None of these results exceeded applicable action levels.

3.1.8 April 2007 Analytical Results

Based on previous TCE results, the sampling effort was conducted near the likely TCE source. Groundwater samples were collected from three domestic wells (the Echelbarger residence, the Euclid well, and the Hutterian primary well; other domestic wells sampled as part of residential treatment systems are discussed in Section 3.3) which were submitted for TCE analysis only since NDMA and perchlorate concentrations in the area did not exceed applicable regulatory limits. The sample results are listed in Table 3-9 and are displayed on Figure 3-10. One of the three samples analyzed for TCE had a detectable concentration (the Euclid well with a result of 170 µg/L). This result was greater than the EPA drinking water MCL of 5.0 µg/L.

3.1.9 May 2007 Analytical Results

A groundwater sample was collected from one domestic well, was submitted for TCE analysis, and had a detectable concentration of 0.29 J µg/L. Additional work for May 2007 is covered in subsection 3.4.1. The sample result is listed in Table 3-10 and is displayed on Figure 3-11.

3.1.10 June 2007 Analytical Results

Sampling for NDMA and perchlorate was conducted in June 2007. Groundwater samples were collected from 121 domestic wells. The sample results are listed in Table 3-11 and are displayed

on Figures 3-12 through 3-14. Three of the samples analyzed for NDMA (EPA method 521) had detectable concentrations ranging between 0.0022 and 0.0028 µg/L. One hundred and one samples analyzed for perchlorate had detectable concentrations ranging between an estimated quantity of 0.014 J and 2.4 µg/L. None of these results exceeded applicable action levels.

3.1.11 October 2007 Analytical Results

Based on the previous TCE results, sampling was conducted near the likely TCE source. Groundwater samples were collected from two domestic wells (the Ben Echelbarger and Ron Thompson residences; other domestic wells sampled as part of residential treatment systems are discussed in Section 3.3) and were submitted for TCE analysis. The sample results are listed in Table 3-12 and are displayed on Figure 3-15. There were no TCE detections in these domestic wells and none of the results exceeded applicable action levels.

3.1.12 June 2009 Analytical Results

Based on the previous TCE results, sampling was again conducted near the likely TCE source. Groundwater samples were collected from two domestic wells (the Ben Echelbarger and Ron Thompson residences) and were submitted for TCE analysis. The sample results are listed in Table 3-14 and are displayed on Figure 3-18. There were no TCE detections in these domestic wells and none of the results exceeded applicable action levels.

3.2 Monitoring Wells

One of the primary goals of the RA was to determine the extent of TCE contamination. The monitoring well (MW) assessment involved the collection of groundwater samples from four MWs installed by HEC/START-2 and four wells installed by E & E /START-3 in October 2007 in the area of the TCE plume. Sampling was conducted using the low-flow method. Prior to sample collection, the wells were purged at approximately one liter per minute and water parameters (pH, conductivity, temperature, dissolved oxygen, turbidity, and salinity) were measured until three consecutive measurements of groundwater parameters stabilized within 10 % of each other. Monitoring well groundwater samples were analyzed for NDMA, perchlorate, and/or TCE.

3.2.1 March 2006 Analytical Results

Groundwater samples were collected from four MWs and were analyzed for NDMA, perchlorate, and TCE. The sample results are listed in Table 3-1 and are displayed on Figure 3-1. None of the samples had detectable concentrations of NDMA but all four MWs had detectable concentrations of perchlorate (ranging between 0.67 and 1.0 µg/L) and TCE. Three of four TCE detections (ranging between an estimated quantity of 0.87 J and 210 µg/L) were greater than the EPA drinking water MCL of 5.0 µg/L, while none of the other results exceeded applicable action levels.

3.2.2 June 2006 Analytical Results

Groundwater samples were collected from four monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-4 and are displayed on Figures 3-4 and 3-5. All four MWs had detectable concentrations of TCE, with three of four detections (ranging between 4.3 and 210 µg/L) greater than the EPA drinking water MCL of 5.0 µg/L.

3.2.3 September 2006 Analytical Results

Groundwater samples were collected from four monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-7 and are displayed on Figure 3-7. All four TCE detections (ranging between 8.3 and 170 µg/L) were greater than the EPA drinking water MCL of 5.0 µg/L.

3.2.4 December 2006 Analytical Results

Groundwater samples were collected from four monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-8 and are displayed on Figures 3-8 and 3-9. All four TCE detections (ranging between 6.8 and 190 µg/L) were greater than the EPA drinking water MCL of 5.0 µg/L.

3.2.5 April 2007 Analytical Results

Groundwater samples were collected from four monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-9 and are displayed on Figure 3-10. All four MWs had detectable concentrations of TCE (ranging between 3.4 and 200 µg/L) and three of these detections were greater than the EPA drinking water MCL of 5.0 µg/L.

3.2.6 October 2007 Analytical Results

Four additional monitoring wells were installed by E & E/START-3 at the site between October 20 and 22, 2007. These wells were installed to attempt to determine the source of the TCE contamination and the migration pathway of the TCE plume and were installed to depths ranging from 66 to 113.5 feet bgs. Well logs are included in Appendix D. Water bearing fractured zones were encountered within the weathered basalt in each of the well borings at depths ranging from 43 to 89 feet bgs. The static water levels measured in each of the wells ranged from 31.51 to 70.90 feet bgs. A potentiometric surface contour map created for the project indicated groundwater flow to the east-southeast (Appendix D). The groundwater gradient generally mimics topography. Monitoring well MW05 is located adjacent to the Hutterite driveway, monitoring well MW06 is located west of the Hutterite potato barn, monitoring well MW07 is located on Bud Remmers' property south of Euclid Road, and MW08 is located on Ron Thompson's property just east of the boundary with Ben Echelbarger's property.

Groundwater samples were collected from the eight area monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-12 and are displayed on Figure 3-15. Five of the eight MWs had detectable concentrations of TCE (ranging between 1.7 and 160 µg/L), with four of the five TCE detections greater than the EPA drinking water MCL of 5.0 µg/L.

3.2.7 June 2009 Analytical Results

Groundwater samples were collected from the eight area monitoring wells and were analyzed for TCE. The sample results are listed in Table 3-14 and are displayed on Figure 3-18. Five of the eight MWs had detectable concentrations of TCE (ranging between 1.2 and 240 µg/L), with three of the five TCE detections greater than the EPA drinking water MCL of 5.0 µg/L.

3.3 Miscellaneous Water Samples

In addition to the domestic and monitoring well samples, the START collected water samples from three groundwater treatment systems (Hall, Codiga, and Rick Williams/Eugene Thompson), the Lloyd irrigation well, the Hutterian Chicken Coop well the Hall backup well, an intermittent stream on Ron Thompson's property on the north side of Euclid Road, the Eastern State Hospital well, and the Clouse backup well. The Codiga system is at the former Nike control site owned by James and Mary Codiga and occupied by two sets of renters during the project. The Williams/Thompson system was initially owned by Rick Williams and was purchased by Eugene

Thompson during the project. Sample collection at the Hall and Clouse backup wells and at the intermittent stream was conducted by dipping the sample container into the water source and collecting the sample directly into the container. Sampling for the other locations was conducted by purging the water for 10 to 15 minutes prior to sample collection, then collecting the samples by placing the sample containers underneath the appropriate sampling point and collecting the sample aliquots directly into the sample containers. The miscellaneous water samples were analyzed for NDMA, perchlorate, and/or TCE. Copies of the data QA memoranda are included in Appendix B.

Two treatment systems were sampled in December 2006 (the Williams/Thompson system was not sampled because the Williams family was in the process of selling the residence and no longer lived there) and were analyzed for TCE. The Hall pre-treatment result was 77 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The Codiga pre-treatment result was 110 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The sample results are listed in Table 3-8 and are displayed on Figures 3-8 and 3-9.

The treatment systems and the Chicken Coop well were sampled in April 2007 and were analyzed for TCE. The Hall pre-treatment result was 77 µg/L (the field duplicate result for this sample was an estimated quantity of 70 J µg/L), exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The Williams/Thompson pre-treatment result was 12 µg/L (the field duplicate result for this sample was 17 µg/L), exceeding the EPA drinking water MCL of 5.0 µg/L, the mid-treatment result was an estimated quantity of 0.21 J µg/L, and the post-treatment result was below the detection limit. The Codiga pre-treatment result was 120 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The Chicken Coop well result was below detection limits. The sample results are listed in Table 3-9 and are displayed on Figure 3-10.

The treatment systems were sampled in October 2007 and were analyzed for TCE. The Hall pre-treatment result was 69 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid-treatment result was 1.8 µg/L and the post-treatment result was below detection limits. The

Eugene Thompson pre-treatment result was 16 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, and the mid- and post-treatment results were below detection limits. The Codiga residence pre-treatment result was 120 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The sample results are listed in Table 3-12 and are displayed on Figure 3-15.

The treatment systems were sampled in June 2009 and were analyzed for TCE. The Hall pre-treatment result was 69 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid-treatment and post-treatment results were below detection limits. The Eugene Thompson pre-treatment result was 22 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, and the mid- and post-treatment results were below detection limits. The Codiga pre-treatment result was 60 µg/L, exceeding the EPA drinking water MCL of 5.0 µg/L, while the mid- and post-treatment results were both below detection limits. The sample results are listed in Table 3-14 and are displayed on Figure 3-18.

The sample from the Lloyd irrigation well (used for the family garden) was collected in June 2006 and was analyzed for TCE (not detected), NDMA (STL SOP; 0.0014 µg/L), and perchlorate (1.1 µg/L). None of the results exceeded applicable action levels. The sample results are listed in Table 3-5 and are displayed on Figure 3-4.

The Hall backup well samples were collected in August 2006 and October 2007, were analyzed for TCE, and the results (12 µg/L and 23 µg/L, respectively) exceeded the MCL of 5.0 µg/L. The sample results are listed in Tables 3-6 and 3-12 and are displayed on Figures 3-6 and 3-15, respectively.

The intermittent stream sample from the Ron Thompson property was collected in May 2007, was analyzed for TCE, and the result was less than detection limits. The sample result is listed in Table 3-10 and is displayed on Figure 3-11.

The Eastern State Hospital well sample was collected in June 2007, was analyzed for NDMA (EPA method 521) and perchlorate, and the results were less than detection limits. The location of this well is not shown on any figures but it is approximately 2.5 miles south/southeast of the Grennay residence (Figure 2-2). The sample results are listed in Table 3-11.

The Clouse backup tank sample was collected in June 2007, was analyzed for NDMA (EPA method 521) and perchlorate, and the results for NDMA were less than detection limits but the perchlorate result was 0.20 µg/L. The sample results are listed in Table 3-11 and are displayed on Figure 3-12.

3.4 Gore™ Modules

Gore™ Modules are passive, sorbent-based samplers constructed of a GORETEX® membrane tube that collects VOCs present in water and soil gas. VOCs present in soil diffuse through the membrane to the adsorbent material, while liquid water and soil particles are prevented from contacting the adsorbent. The adsorbents are located in the bottom of an approximately one-foot length of the membrane tube. The Gore™ Modules were used to attempt to determine the TCE source location by placing them near areas of known TCE groundwater contamination.

3.4.1 May 2007 Analytical Results

On May 23, 2007, the START placed 18 Gore™ Modules at three locations, six at each location (not including blanks). Five-eighths inch diameter boreholes were installed manually to a depth of one to three feet bgs using stainless steel rods. The modules were placed in the boreholes and were left in place for a minimum of 14 days (equal to the manufacturers' instructions of at least 14 days) before retrieval. Borehole installation and sample collection instructions from the manufacturer were followed. The modules were placed in two locations of known TCE contamination (near monitoring wells MW01 and MW02) and in one area of no known TCE contamination (near the Hutterite primary well) to determine the effectiveness of the technology. Seventeen of the modules were retrieved on June 10, 2007 (one module was not retrieved because the sample cord broke) and were sent to the Gore Module Laboratory in Elkton, Maryland. Sample results from this sampling event are listed in Table 3-10 and are displayed on Figure 3-11. The results indicated no detectable TCE in any of the samples. Chloroform was detected at 0.07 micrograms at location GM-11 and 0.20 micrograms at location GM-12, with both samples located near monitoring well MW01.

3.4.2 October 2007 Analytical Results

On October 24, 2007, the START placed 32 Gore™ Modules in soil at several locations within the site boundary and three Gore™ Modules each in MWs -01 through -04. Five-eighths inch

diameter boreholes were installed manually to a depth of one to three feet bgs using stainless steel rods. The modules were placed in the boreholes and were left in place for a minimum of 14 days (equal to the manufacturers' instructions of at least 14 days) before retrieval. All borehole and sample collection instructions from the manufacturer were followed. The modules in the MWs were left in place for a minimum of two hours (equal to the manufacturers' recommendations) before retrieval. One module was place in the headspace above the water and two modules were placed in the water at each of the MWs. Forty-three of these modules were retrieved on November 7, 2007 (one soil module was not retrieved because the sample cord broke) and were sent to the Gore Module Laboratory in Elkton, Maryland. Results from this sampling event are listed in Table 3-13 and are displayed on Figures 3-16 and 3-17. The results indicated TCE detections in MW02 (a module placed in the water) and MW04 (a module near the water in the headspace) and chlorobenzene, 1,4-dichlorobenzene, 1,1,1,2-tetrachloro-ethane and 1,3-dichlorobenzene detections on Hutterite property near Wood Road south of the driveway.

3.5 Vapor Intrusion

SUMMA® canisters are electropolished stainless steel passivated vessels used to collect whole air samples. The polishing process passivates the stainless steel by creating a chromium oxide-rich surface layer on the interior of the canister. The canisters were used to attempt to determine the TCE source location by placing them near areas of known TCE contamination. Samples were collected for approximately 24 hours at background locations upwind of the Hall and Eugene Thompson residences, upstairs and downstairs at the Eugene Thompson residence, and inside the house and underneath the house at the Hall residence.

3.5.1 June 2009 Analytical Results

Sample results from this sampling event are listed in Table 3-14 and are displayed on Figure 3-18. TCE was detected in all six samples ranging between 0.052 and 0.52 micrograms per cubic meter ($\mu g/m^3$), with the Thompson residence downstairs, Hall residence upstairs, and Hall residence downstairs samples exceeding the Washington MTCA Method B limits for residential air of 0.1 $\mu g/m^3$.

3.6 Hydrogeologic Evaluation

As part of the RA, an E & E hydrogeologist completed a Hydrogeologic Evaluation report (E & E 2006b; Appendix E). The report included a review of available driller's logs for private supply wells located in the project area and an evaluation of the elevations of water-bearing zones and water levels in these wells. Twenty-four private-supply wells, two springs, and four monitoring wells were included in the evaluation. The evaluation indicated that it is unclear whether the occurrence of NDMA and perchlorate in groundwater at the site is related to a common source for both contaminants, while the limited extent of detected TCE groundwater contamination in the project area suggests the TCE source is unrelated to any potential source(s) of NDMA and perchlorate.

3.7 Monitoring Well Survey And Groundwater Flow Direction

As part of the RA, E & E subcontracted a well survey for monitoring wells MW05 through MW08 through White Shield, Inc. (Appendix D). The survey allowed E & E personnel to calculate the groundwater flow direction in the area of the eight monitoring wells. Figures in Appendix D include the groundwater flow directions for the months of November 2005, March 2006, September 2006, December 2006, April 2007, and October 2007. In general, the groundwater flow was to the east-southeast.

Table 3-1

MARCH 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06030901	06030902	06030903	06030904	06030905	06030906	06030907	06030910	06030911	Action Levels
Station Location	Jeff Supinger Residence	James Supinger Residence	Ben Echelbarger Residence	Hutterian Brethren	Harris Property	Hutterian Brethren	Hall Property	Trip Blank 1	Bigler Residence	
Description	Inside Faucet	Outside Spigot	Outside Spigot	MW01	MW02	MW03	MW04	Trip Blank	Outside Spigot	
VOCs (µg/L)										
Trichloroethene	1.0 U	1.0 U	1.0 U	**0.87 J**	**110**	**210**	**130**	1.0 U	1.0 U	5.0
SVOCs (µg/L)										
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	na	0.001 U	NV
Perchlorate	**0.22**	**0.47**	**1.2**	**0.67**	**0.88**	**1.0**	**1.0**	na	**1.3**	24.5

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-2

APRIL 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	**06040001**	**06040002**	**06040003**	**06040004**	**06040005**	**06040006**	**06040007**	**Action Levels**
Station Location	**Hutterian Brethren**	**Codiga (Euclid Well)**	**Hall Residence**	**Ben Echelbarger Residence**	**Ron Thompson Residence**	**Bigler Residence**	**Steel Residence**	
Description	**Inside Faucet**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	
VOCs (µg/L)								
Trichloroethene	na	**120**	na	na	**0.24 J**	na	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	**0.00069 J**	0.001 U	**0.002**	0.001 U	0.001 U	0.001 U	NV
Perchlorate	**0.037**	**0.82**	**0.89**	**1.5**	**1.1**	**1.1**	**0.0078 J**	24.5
EPA Sample ID	**06040008**	**06040009**	**06040010**	**06040011**	**06040012**	**06040013**	**06040014**	**Action Levels**
Station Location	**Remmers Residence**	**Clouse Residence**	**Buddi Williams Residence**	**Hicks Residence**	**Jeff Supinger Residence**	**James Supinger Residence**	**Rucker Residence**	
Description	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Inside Faucet**	**Outside Spigot**	**Outside Spigot**	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	na	na	na	na	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	**0.0026**	**0.0005 J**	0.001 U	**0.0011**	0.001 U	NV
Perchlorate	**2.1**	**1.1**	**0.91**	**1.1**	**0.22**	**0.44**	**0.093**	24.5

EPA Sample ID	**06040015**	**06040016**	**06040017**	**06040018**	**06040019**	**06040025**	**Action Levels**
Station Location	**Helmer Residence**	**Ikehara Residence**	**Horn Residence**	**Logsdon Residence**	**James Thompson Residence**	**Trip Blank 2**	
Description	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Trip Blank**	
VOCs (µg/L)							
Trichloroethene	na	na	na	na	na	1.0 U	5.0
SVOCs (µg/L)							
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	na	NV
Perchlorate	**0.24**	**0.48**	**0.97**	**1.7**	**0.015**	na	24.5

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
UJ = The associated detection limit is an estimated quantity.
VOCs = Volatile organic compounds.

Table 3-3

MAY 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06050901	06050902	06050903	06050904	06050905	06050906	06050907	06050911	Action Levels
Station Location	Tueller Residence	VanSickle / Beamer Residences	Knezovich Residence	Wyatt Residence	Allbee Residence	Craig Cockelreece Residence	Ronald Cockelreece Residence	Trip Blank 3	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Trip Blank	
VOCs (µg/L)									
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)									
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	na	NV
Perchlorate	**0.051 J**	0.10 U	0.10 U	**0.69**	**0.065 J**	**1.1**	**3.2**	na	24.5

Note: Bold type indicates the sample result is above the detection limit.

Key:

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentr is below the sample quantitation limit or because quality control criteria were not m
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-4

PHASE 1 JUNE 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06060901	06060902	06060903	06060904	06060905	06060907	06060908	Action Levels
Station Location	Hutterian Brethren	Harris Property	Hutterian Brethren	Hall Property	Hall Residence	Rick Williams Residence	Ben Echelbarger Residence	
Description	MW01	MW02	MW03	MW04	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	**4.3**	**130**	**210**	**150**	na	**19**	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	na	na	na	na	0.001 U	0.001 U	0.001 U	NV
Perchlorate	na	na	na	na	**1.1**	**1.2**	**1.2**	24.5

EPA Sample ID	06060909	06060911	06060912	06060913	06060914	06060915	06060918	Action Levels
Station Location	James Supinger Residence	Buddi Williams Residence	Hicks Residence	Michael Perin Residence	Duane Perin Residence	Slemp Residence	Jorstad Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	na	na	na	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0013 J**	**0.0071 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NV
Perchlorate	**0.56**	**1.1**	**0.21**	**0.8**	**0.83**	**0.77**	**1.1**	24.5

EPA Sample ID	06060919	06060920	06060921	06060922	06060923	06060924	06060925	Action Levels
Station Location	Mangold Residence	Rex Steinmetz Residence	Bettcher Residence	Jason Echelbarger Residence	Dewey Residence	Murphy Residence	Fitzpatrick Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00069 J**	**0.00081 J**	NV
Perchlorate	**0.90**	0.010 U	**0.016**	**0.51**	**0.24**	**0.71**	**0.7**	24.5

Key is found on next page.

Table 3-4

PHASE 1 JUNE 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06060926	06060927	06060928	06060929	06060930	Action Levels
Station Location	Deshazer Residence	Lloyd Residence	Rick Williams Residence	Trip Blank 4	Trip Blank 5	
Description	Outside Spigot	Outside Spigot	After Filter	Trip Blank	Trip Blank	
VOCs (µg/L)						
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)						
NDMA (STL SOP)	0.001 U	0.001 U	**0.0023**	na	na	NV
Perchlorate	**0.71**	**0.78**	**0.028**	na	na	24.5

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentrati
is below the sample quantitation limit or because quality control criteria were not met ·
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-5

PHASE 2 JUNE 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06060801	06060802	06060803	06060804	06060805	06060806	06060807	Action Levels
Station Location	Shores Residence	Adolf Residence	Cravens Residence	John Sullivan Residence	Judy Houghton Residence	Val Sullivan Residence	Lloyd Residence	
Description	Inside Faucet	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Irrigation Well	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0039**	**0.0032**	0.001 U	**0.0015**	**0.00085 J**	**0.0011**	**0.0014**	NV
Perchlorate	**1.2**	**0.42**	**0.21**	**0.59**	**1.2**	**0.75**	**1.1**	24.5

EPA Sample ID	06060808	06060809	06060810	06060811	06060812	06060813	06060814	Action Levels
Station Location	Fell-Bradford Residence	Colvin Residence	Mike Steinmetz Residence	Karla Jones Residence	Genny Steinmetz Residence	Codiga (Residence)	Codiga (Euclid Well)	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**150**	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0023**	**0.0047**	**0.0065**	0.001 U	**0.0012**	0.0034 U	**0.0052**	NV
Perchlorate	0.010 U	**2**	**0.36**	**0.4**	**0.023**	na	**0.93**	24.5

EPA Sample ID	06060815	06060816	06060817	06060818	06060819	06060820	06060821	Action Levels
Station Location	Brown Residence	Ron Ahl Business	Hazel Ahl Residence	Seagle Residence	Guhlke Residence	McNair Residence	Pierson Residence	
Description	Outside Spigot	Inside Faucet	Inside Faucet	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0033**	**0.0034**	**0.0034**	**0.0033**	**0.0016**	0.001 U	**0.0035**	NV
Perchlorate	**0.44**	**0.38 J**	**0.56**	0.010 U	**1.5**	**0.85**	**0.18**	24.5

The key is found on the next page.

Table 3-5

PHASE 2 JUNE 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06060822	06060823	06060824	06060825	06060826	06060827	06060828	Action Levels
Station Location	Garza Residence	Hoskins Residence	Anderson Residence	Lindsay Residence	Parr Residence	Nee Residence	Clemenson Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0016**	**0.003**	**0.0062**	**0.0058**	**0.0038**	**0.0055**	**0.0046**	NV
Perchlorate	0.010 U	**0.1**	na	**0.62**	**0.97**	**0.62**	**0.67**	24.5

EPA Sample ID	06060829	06060830	Action Levels
Station Location	Luiten Residence	Trip Blank 6	
Description	Outside Spigot	Trip Blank	
VOCs (µg/L)			
Trichloroethene	1.0 U	1.0 U	5.0
SVOCs (µg/L)			
NDMA (STL SOP)	0.001 U	na	NV
Perchlorate	**1**	na	24.5

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-6

AUGUST 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06080501	06080502	06080503	06080504	06080505	06080506	06080507	Action Levels
Station Location	Fitzpatrick Residence	Deshazer Residence	Hoskins Residence	Andersen Residence	Buddi Williams Residence	Murphy Residence	Lindsay Residence	
Description	Inside Faucet	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	na	na	na	na	na	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	0.002 U	0.0021 UJ	0.002 U	**0.0035**	**0.0038**	0.002 U	**0.0026**	NV
Perchlorate	**0.67**	**0.65**	**0.15**	**0.72**	na	**0.72**	**0.64**	24.5

EPA Sample ID	06080508	06080509	06080510	06080511	06080512	06080513	06080514	Action Levels
Station Location	Allen Residence	Green Residence	Colvin Residence	Pete Pederson Residence	Susan Pederson Residence	Eastman Residence	Ken Jones Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	**0.0017**	0.001 U	**0.00066 J**	0.001 U	0.001 U	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	0.002 U	**0.0025**	0.002 U	0.002 U	0.002 U	**0.0027**	0.002 U	NV
Perchlorate	**0.085**	**0.51**	**2.9**	0.02 U	**1.8**	**1.3**	**0.31**	24.5

EPA Sample ID	06080515	06080516	06080517	06080518	06080520	06080521	06080522	Action Levels
Station Location	Snow Residence	Hall Residence	Ben Echelbarger Residence	Stevens Residence	Ron Thompson Residence	Hall Residence	Hall Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Kitchen Faucet	Backup Tank	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12**	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	na	na	NV
NDMA (CAS EPA Method 521)	0.002 U	**0.0026**	0.002 U	**0.002**	0.002 U	na	na	NV
Perchlorate	0.02 U	**1.0**	**0.33**	**0.36**	**1.3**	na	na	24.5

Key is found on the next page.

Table 3-6

AUGUST 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	**06080523**
Station Location	**Trip Blank 7**
Description	**Trip Blank**
VOCs (µg/L)	
Trichloroethene	1.0 U
SVOCs (µg/L)	
NDMA (STL SOP)	na
NDMA (CAS EPA Method 521)	na
Perchlorate	na

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

CAS = Columbia Analytical Services.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
UJ = The analyte was not detected at or above the listed estimated detection limi
VOCs = Volatile organic compounds.

Table 3-7

SEPTEMBER 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06090601	06090602	06090603	06090604	06090605	06090606	06090607	Action Levels
Station Location	Hutterian Brethren	Harris Property	Hutterian Brethren	Hall Property	Rick Williams Residence	Codiga (Euclid Well)	Campbell Residence	
Description	MW01	MW02	MW03	MW04	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	**8.3**	**110**	**170**	**140**	na	na	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	na	na	na	na	**0.0034**	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	na	na	na	na	**0.003**	**0.0023**	0.002 U	NV
Perchlorate	na	na	na	na	na	na	**0.28**	24.5

EPA Sample ID	06090608	06090609	06090610	06090611	06090612	06090613	06090614	Action Levels
Station Location	Nelson Residence	John Sullivan Residence	Judy Houghton Residence	James Supinger Residence	Abbey Residence	Guhlke Residence	Ron Ahl Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	na	na	na	1.0 U	na	na	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	**0.0026**	0.001 U	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	**0.0024**	**0.0025**	0.002 U	**0.0021**	0.002 U	NV
Perchlorate	**0.31**	na	na	na	0.01 U	na	na	24.5

EPA Sample ID	06090615	06090616	06090617	06090618	06090619	06090620	06090621	Action Levels
Station Location	Hazel Ahl Residence	Fell-Bradford Residence	Seagle Residence	Hatcher Residence	Clemenson Residence	Nee Residence	Parr Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Faucet	
VOCs (µg/L)								
Trichloroethene	na	na	na	na	na	na	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	**0.0016**	**0.00043 J**	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	na	0.002 U	0.002 U	**0.003**	na	0.002 U	na	NV
Perchlorate	na	na	na	na	na	na	**0.97**	24.5

EPA Sample ID	06090622	06090623	06090624	06090625	06090626	06090627	06090628	Action Levels
Station Location	Broderius Residence	Eldridge Residence	Weiner Residence	Taylor Residence	Cleveland Residence	Garza Residence	Melvin Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	na	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	**0.0021**	0.002 U	0.002 U	**0.0029**	0.002 U	0.002 U	**0.0021**	NV
Perchlorate	**0.46**	0.010 U	**0.3**	**0.65**	na	0.010 U	**0.44**	24.5

Key is found on the next page.

Table 3-7

SEPTEMBER 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06090629	06090630	06090631	06090632	06090633	06090635	06090636	Action Levels
Station Location	Chalmers/ O'Reagan Residence	Burge Residence	Warner Residence	Pierson Residence	Mahoney Residence	Corey Residence	McGilley Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	na	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	0.001 U	**0.00081 J**	0.001 U	0.001 U	0.001 U	0.001 U	NV
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	0.010 U	**0.43**	**0.51**	**0.12**	**0.16**	**0.76**	**0.68**	24.5

EPA Sample ID	06090637	06090639	06090640	06090641	06090642	06090643	06090644	Action Levels
Station Location	Langford Residence	Trip Blank 8	Duncan Residence	Brown Residence	Mike Steinmetz Residence	Genny Steinmetz Residence	Engstrom Residence	
Description	Outside Spigot	Trip Blank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	na	na	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (STL SOP)	0.001 U	na	0.001 U	0.001 U	0.001 U	0.001 U	**0.001**	NV
NDMA (CAS EPA Method 521)	0.002 U	na	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.67**	na	na	na	**0.33**	**0.14**	**0.38**	24.5

EPA Sample ID	06090645	Action Levels
Station Location	Nellis Residence	
Description	Outside Spigot	
VOCs (µg/L)		
Trichloroethene	1.0 U	5.0
SVOCs (µg/L)		
NDMA (STL SOP)	0.001 U	NV
NDMA (CAS EPA Method 521)	**0.0023**	NV
Perchlorate	**0.36**	24.5

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

CAS = Columbia Analytical Services.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
µg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
STL SOP = Severn-Trent Laboratory Standard Operating Procedure.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-8

DECEMBER 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06121004	06121005	06121006	06121007	06121008	06121009	06121010	Action Levels
Station Location	Hall Property	Hall Residence	Hall Residence	Hall Residence	Hutterian Brethren	Harris Property	Hutterian Brethren	
Description	MW04	Treatment System Pre-Treatment	Treatment System Mid-Treatment	Treatment System Post-Treatment	MW01	MW02	MW03	
VOCs (µg/L)								
Trichloroethene	**160**	**77**	1.0 U	1.0 U	**6.8**	**150**	**190**	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	na	na	na	na	na	na	na	NV
Perchlorate	na	na	na	na	na	na	na	24.5

EPA Sample ID	06121011	06121012	06121013	06121014	06121015	06121016	06121017	Action Levels
Station Location	Codiga (Residence)	Codiga (Residence)	Codiga (Residence)	Ron Thompson Residence	Ben Echelbarger Residence	Matusik Residence	Green Residence	
Description	Treatment System Post-Treatment	Treatment System Mid-Treatment	Treatment System Pre-Treatment	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	**110**	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	na	na	na	na	na	0.002 U	0.002 U	NV
Perchlorate	na	na	na	na	na	**0.067**	**0.55**	24.5

EPA Sample ID	06121018	06121019	06121020	06121021	06121022	06121023	06121024	Action Levels
Station Location	Taylor Residence	Holmes Residence	Keeble Residence	Cogley Residence	Chaka Residence	Strope Residence	Kevin Houghton	
Description	Outside Spigot-House	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.16**	**0.39**	**0.0093 J**	**0.49**	**1.0**	**2.1**	0.010 U	24.5

The key is found on the last page.

Table 3-8

DECEMBER 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06121025	06121026	06121027	06121028	06121029	06121030	06121031	Action Levels
Station Location	Schwartz Residence	Sabatino Residence	Gauna Residence	Powers Residence	Learn Residence	Maher Residence	Rodkey Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.62**	**0.063**	**0.41**	**0.43**	**0.57**	**0.62**	**0.53**	24.5

EPA Sample ID	06121032	06121033	06121034	06121035	06121036	06121037	06121038	Action Levels
Station Location	Remmers Residence	Pace Residence	Ontiveros Residence	Cooper Residence	Justin Rhodes Residence	Dale Rhodes Residence	Shollenberger Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**2.3**	**0.85**	**0.017**	**0.70**	**0.23**	**0.25**	0.010 U	24.5

EPA Sample ID	06121039	06121040	06121041	06121042	06121043	06121044	06121045	Action Levels
Station Location	Grennay Residence	Ahern Residence	O'Neill Residence	Nichols Residence	Rod Soom Residence	Hodges Residence	Nolt Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**1.6**	0.010 U	**1.1**	**0.043**	**0.3**	**0.53**	0.010 U	24.5

The key is found on the last page.

Table 3-8

DECEMBER 2006 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	06121046	06121047	06121048	06121049	06121050	06121051	06121052	Action Levels
Station Location	Dewitt Residence	Sattler Residence	Northwest Microfilms	Taylor Residence	Hanratty Residence	Hutterian Brethren Chicken	Hutterian Brethren	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot-Barn	Outside Spigot	Inside Spigot	Outside Spigot	
VOCs (µg/L)								
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.32 J**	1.0 U	5.0
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	na	na	NV
Perchlorate	**0.68**	**1**	0.010 U	0.010 U	**0.078**	na	na	24.5

EPA Sample ID	06121053	06121054	06121055	06121056	06121057	06121060	Action Levels
Station Location	Clemenson Residence	Parr Residence	Hazel Ahl Residence	John Soom Residence	Trip Blank 9	Field Blank	
Description	Outside Spigot	Inside Faucet	Outside Spigot	Outside Spigot	Trip Blank	Field Blank	
VOCs (µg/L)							
Trichloroethene	na	na	na	1.0 U	1.0 U	na	5.0
SVOCs (µg/L)							
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	na	0.002 U	NV
Perchlorate	na	na	na	na	na	na	24.5

The key is found on the last page.

Table 3-8 Key

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key

CAS = Columbia Analytical Services.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
mg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
NDMA = N-nitrosodimethylamine.
NV = No value.
SVOCs = Semivolatile organic compounds.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-9

APRIL 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07040101	07040102	07040103	07040104	07040105	07040106	07040108	Action Levels
Station Location	Hutterian Brethren	Harris Property	Hutterian Brethren	Hall Property	Rick Williams Residence	Ben Echelbarger Residence	Codiga (Euclid Well)	
Description	MW01	MW02	MW03	MW04	Treatment System Pre-Treatment	Outside Spigot (Domestic Well)	Outside Spigot (Domestic Well)	
VOCs (µg/L)								
Trichloroethene	**3.4**	**170**	**200**	**150**	**12**	1.0 U	**170**	5.0
EPA Sample ID	07040109	07040110	07040111	07040112	07040113	07040114	07040115	Action Levels
Station Location	Hall Residence	Hall Residence	Hall Residence	Codiga (Residence)	Codiga (Residence)	Codiga (Residence)	Trip Blank 10	
Description	Treatment System Pre-Treatment	Treatment System Mid-Treatment	Treatment System Post-Treatment	Treatment System Pre-Treatment	Treatment System Mid-Treatment	Treatment System Post-Treatment	Trip Blank	
VOCs (µg/L)								
Trichloroethene	**77**	1.0 U	1.0 U	**120**	1.0 U	1.0 U	1.0 U	5.0

EPA Sample ID	07040116	07040117	07040118	07040119	07040120	07040121	Action Levels
Station Location	Hutterian Brethren Primary Well	Hutterian Brethren Chicken Coop	Hall Residence	Rick Williams Residence	Rick Williams Residence	Rick Williams Residence	
Description	Outside Spigot (Domestic Well)	Inside Faucet	Treatment System Pre-Treatment (Duplicate)	Treatment System Mid-Treatment	Treatment System Post-Treatment	Treatment System Pre-Treatment (Duplicate)	
VOCs (µg/L)							
Trichloroethene	1.0 U	1.0 U	**70 J**	**0.21 J**	1.0 U	**17**	5.0

Key is found on the next page.

Table 3-9 Key

Note: Bold type indicates the sample result is above the detection limit.

Key:

Shaded results are greater than the listed action levels.

EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.
mg/L = Micrograms per liter.
MW = Monitoring well.
na = Not analyzed.
U = The analyte was not detected at or above the listed detection limit.
VOCs = Volatile organic compounds.

Table 3-10

MAY 2007 COMMERCIAL LABORATORY SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07050001	07050002	07050003	07050004	07050005	07050006	07050007	Action Levels
Station Location	GM-01	GM-02	GM-03	GM-04	GM-05	GM-06	GM-07	
Description	MW02	MW02	MW02	MW02	MW02	MW02	Blank	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-10

MAY 2007 COMMERCIAL LABORATORY SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	**07050008**	**07050009**	**07050010**	**07050011**	**07050012**	**07050013**	**07050014**	**Action Levels**
Station Location	**GM-08**	**GM-09**	**GM-10**	**GM-11**	**GM-12**	**GM-13**	**GM-14**	
Description	**MW01**	**MW01**	**MW01**	**MW01**	**MW01**	**MW01**	**Blank**	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	**0.07**	**0.20**	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-10

MAY 2007 COMMERCIAL LABORATORY SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07050015	07050016	07050017	07050018	07050019	07050020	07050021	Action Levels
Station Location	GM-15	GM-16	GM-17	GM-18	GM-19	GM-20	GM-21	
Description	Hutterian Primary Well	Hutterian Primary Well	Hutterian Primary Well	Hutterian Primary Well	Hutterian Primary Well	Hutterian Primary Well	Blank	
VOCs (µg)								
Chlorobenzene	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	NR	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	NR	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	NR	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	NR	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	NR	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	NR	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	NR	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	NR	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	NR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

EPA Sample ID	07050200	07050201	07050202	Action Levels
Station Location	May 2007-22	May 2007-23	May 2007-24	
Description	Ron Thompson Residence	Trip Blank 11	Intermittent Stream	
VOCs (µg/L)				
Trichloroethene	**0.29 J**	1.0 U	1.0 U	5.0

Key is found on the last page.

Table 3-10 Key

Bold type indicates the sample result is above the detection limit.

Note: Key:

EPA = United States Environmental Protection Agency.

GM = Gore™ Module.

ID = Identification.

J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.

MW = Monitoring well.

µg = Micrograms.

na = Not analyzed.

NR = Not retrieved.

U = The analyte was not detected at or above the listed detection limit.

VOCs = Volatile organic compounds.

Table 3-11

JUNE 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07060001	07060002	07060003	07060004	07060005	07060006	07060007	Action Levels
Station Location	Cravens Residence	Fell-Bradford Residence	Powers Residence	Learn Residence	Taylor Residence	Greene Residence	Broderius Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.028 J**	0.10 U	**0.22**	**0.31**	**0.49**	**0.55**	**0.53**	24.5

EPA Sample ID	07060008	07060009	07060010	07060011	07060012	07060013	07060014	Action Levels
Station Location	Geisinger Residence	Eldridge Residence	Cleveland Residence	Allen Residence	Weiner Residence	Rod Soom Residence	John Soom Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.56**	0.10 U	**0.066 J**	**0.097 J**	**0.31**	**0.31**	**0.28**	24.5

EPA Sample ID	07060015	07060016	07060017	07060018	07060019	07060020	07060021	Action Levels
Station Location	Murphy Residence	Lindsay Residence	Deshazer Residence	Fitzpatrick Residence	Anderson Residence	Buddi Williams Residence	Chaka Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	NV
Perchlorate	**0.81**	**0.63**	**0.69**	**0.66**	**0.75**	**1.1**	**1.0**	24.5

EPA Sample ID	07060022	07060023	07060024	07060025	07060026	07060027	07060028	Action Levels
Station Location	Hoskins Residence	Clouse Residence	Slemp Residence	Wyatt Residence	Tueller Residence	Knezovich Residence	VanSickle/ Beamer Residences	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	**0.0022**	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.097 J**	**1.2**	**0.72**	**0.050 J**	**0.054 J**	0.10 U	0.10 U	24.5

Key is found on the last page.

Table 3-11

JUNE 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07060029	07060030	07060031	07060032	07060033	07060034	07060035	Action Levels
Station Location	Allbee Residence	Matusik Residence	Cogley Residence	Doss Residence	Hicks Residence	Tom Taylor Residence	Campbell Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.055 J**	**0.039 J**	**0.50**	**1.5**	**0.64**	**0.50**	**0.35**	24.5

EPA Sample ID	07060036	07060037	07060038	07060039	07060040	07060041	07060042	Action Levels
Station Location	Jeff Supinger Residence	James Supinger Residence	Susan Pedersen Residence	Ken Jones Residence	Ron Thompson Residence	Eugene Thompson Residence	Ben Echelbarger Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.26**	**0.53**	**1.4**	**0.31**	**1.3**	**1.3**	**1.9**	24.5

EPA Sample ID	07060043	07060044	07060045	07060046	07060047	07060048	07060049	Action Levels
Station Location	Hall Residence	Duane Perin Residence	Michael Perin Residence	Justin Rhodes Residence	Dale Rhodes Residence	Remmers Residence	Hutterian Brethren (Primary Well)	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**1.0**	**1.1**	**0.89**	**0.26**	**0.27**	**2.4**	**0.043 J**	24.5

EPA Sample ID	07060050	07060051	07060052	07060053	07060054	07060055	07060056	Action Levels
Station Location	Bigler Residence	Lloyd Residence	Steel Residence	Ahern Residence	Snow Residence	Mahoney Residence	Jason Echelbarger Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**1.50**	**0.81**	**0.29**	0.10 U	0.10 U	**0.13**	**0.57**	24.5

Key is found on the last page.

Table 3-11

JUNE 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07060057	07060058	07060059	07060060	07060061	07060062	07060063	Action Levels
Station Location	Houghton Residence	Sullivan Residence	Dewey Residence	Nelson Residence	Stevens Residence	Pierson Residence	Nichols Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	NV
Perchlorate	**1.30**	**0.55**	**0.19**	**0.30**	**0.38 J**	**0.17**	**0.14**	24.5

EPA Sample ID	07060064	07060065	07060066	07060067	07060068	07060069	07060070	Action Levels
Station Location	McNair Residence	Guhlke Residence	Seagle Residence	Ron Ahl Residence	Hazel Ahl Residence	Grennay Residence	Jorstad Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.69**	**1.2**	0.10 U	**0.59**	**0.46**	**1.6**	**1.0**	24.5

EPA Sample ID	07060071	07060072	07060073	07060074	07060075	07060076	07060077	Action Levels
Station Location	Shores Residence	Shollenberger Residence	O'Neill Residence	Adolf Residence	Northwest Microfilms	Horn Residence	Strope Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	**0.0028**	0.002 U	NV
Perchlorate	**1.0**	0.10 U	**0.96**	**0.47**	0.10 U	**0.021 J**	**2.0**	24.5

EPA Sample ID	07060078	07060079	07060080	07060081	07060082	07060083	07060084	Action Levels
Station Location	Eastman Residence	Logsdon Residence	Sattler Residence	Rodkey Residence	Helmer Residence	Nee Residence	Hatcher Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**1.2**	**1.1**	**0.98**	**0.53 J**	**0.23**	**0.67**	**0.61**	24.5

Key is found on the last page.

Table 3-11

JUNE 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07060085	07060086	07060087	07060088	07060089	07060090	07060091	Action Levels
Station Location	Ikehara Residence	Parr Residence	Bettcher Residence	Rucker Residence	Snelling Residence	Pete Pedersen Residence	Mangold Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.70**	**0.91**	0.10 U	0.10 U	0.10 U	0.10 U	**0.82**	24.5

EPA Sample ID	07060092	07060093	07060094	07060095	07060096	07060097	07060098	Action Levels
Station Location	Ontiveros Residence	Maher Residence	Rex Steinmetz Residence	Nellis Residence	Holmes Residence	Gauna Residence	Brown Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.014 J**	**0.68**	0.10 U	0.10 U	**0.40**	**0.46**	**0.45**	24.5

EPA Sample ID	07060099	07060100	07060101	07060102	07060103	07060104	07060105	Action Levels
Station Location	Engstrom Residence	Genny Steinmetz Residence	Karla Jones Residence	Schwartz Residence	Chalmers/O'Reagan Residence	Melvin Residence	Luiten Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	**0.0026**	NV
Perchlorate	**0.41**	**0.37**	**0.35**	**0.61**	0.10 U	**0.42**	**0.55**	24.5

EPA Sample ID	07060106	07060107	07060108	07060109	07060110	07060111	07060112	Action Levels
Station Location	Burge Residence	Pace Residence	Sabatino Residence	Cooper Residence	Warner Residence	Garza Residence	Corey Residence	
Description	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.40**	**0.42**	**0.066 J**	**0.56**	**0.48**	0.10 U	**0.77**	24.5

Key is found on the last page.

Table 3-11

JUNE 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	**07060113**	**07060114**	**07060115**	**07060116**	**07060117**	**07060118**	**07060119**	**Action Levels**
Station Location	**Hanratty Residence**	**McGilley Residence**	**Langford Residence**	**Hodges Residence**	**Duncan Residence**	**Dewitt Residence**	**Houghton Residence**	
Description	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	
SVOCs (µg/L)								
NDMA (CAS EPA Method 521)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NV
Perchlorate	**0.022 J**	**0.63**	**0.70**	**0.016 J**	0.10 U	**0.70**	0.10 U	24.5

EPA Sample ID	**07060120**	**07060121**	**07060122**	**07060123**	**Action Levels**
Station Location	**Nolt Residence**	**Keeble Residence**	**Eastern State Hospital Well**	**Clouse Backup Tank**	
Description	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	**Outside Spigot**	
SVOCs (µg/L)					
NDMA (CAS EPA Method 521)	0.002 U	0.002 UJ	0.002 U	0.002 U	NV
Perchlorate	0.10 U	0.10 U	0.10 U	**0.20**	24.5

Key is found on the last page.

Table 3-11 Key

Note: Bold type indicates the sample result is above the detection limit.

Key:

CAS = Columbia Analytical Services

EPA = United States Environmental Protection Agency.

ID = Identification.

J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.

µg/L = Micrograms per liter.

MW = Monitoring well.

na = Not analyzed.

NDMA = N-nitrosodimethylamine.

NV = No value.

U = The analyte was not detected at or above the listed detection limit.

VOCs = Volatile organic compounds.

Table 3-12

OCTOBER 2007 COMMERCIAL LABORATORY GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100501	07100502	07100503	07100504	07100505	07100506	07100507	Action Levels
Station Location	Trip Blank 12	Hall Residence	Hall Residence	Hall Residence	Codiga (Residence)	Codiga (Residence)	Codiga (Residence)	
Description	Trip Blank	Treatment System Pre-Treatment	Treatment System Mid-Treatment	Treatment System Post-Treatment	Treatment System Post-Treatment	Treatment System Mid-Treatment	Treatment System Pre-Treatment	
VOCs (µg/L)								
Trichloroethene	1.0 U	**69**	**1.8**	1.0 U	1.0 U	1.0 U	**120**	5.0

EPA Sample ID	07100508	07100509	07100510	07100511	07100512	07100513	07100514	Action Levels
Station Location	Eugene Thompson Residence	Eugene Thompson Residence	Eugene Thompson Residence	Ben Echelbarger Residence	Ron Thompson Residence	Hutterian Brethren	Harris Property	
Description	Treatment System Pre-Treatment	Treatment System Mid-Treatment	Treatment System Post-Treatment	Outside Spigot (Domestic Well)	Outside Spigot (Domestic Well)	MW01	MW02	
VOCs (µg/L)								
Trichloroethene	**16**	1.0 U	1.0 U	1.0 U	1.0 U	**8.7**	**110**	5.0

EPA Sample ID	07100515	07100516	07100517	07100518	07100519	07100520	07100521	Action Levels
Station Location	Hutterian Brethren	Hall Property	Hutterian Brethren	Hutterian Brethren	Remmers Property	Ron Thompson Property	Hall Residence	
Description	MW03	MW04	MW05	MW06	MW07	MW08	Backup Tank	
VOCs (µg/L)								
Trichloroethene	**160**	**120**	1.0 U	**1.7**	1.0 U	1.0 U	**23**	5.0

EPA Sample ID	07100522	Action Levels
Station Location	Rinsate Blank	
Description	Rinsate Blank	
VOCs (µg/L)		
Trichloroethene	1.0 U	5.0

Note: Bold type indicates the sample result is above the detection limit.

Shaded results are greater than the listed action levels.

Key:

EPA = United States Environmental Protection Agency.

ID = Identification.

J = The analyte was positively identified. The result is estimated because the concentratio is below the sample quantitation limit or because quality control criteria were not met.

µg/L = Micrograms per liter.

MW = Monitoring well.

na = Not analyzed.

U = The analyte was not detected at or above the listed detection limit.

VOCs = Volatile organic compounds.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100541	07100542	07100543	07100544	07100545	07100546	07100547	Action Levels
Station Location	GM-22	GM-23	GM-24	GM-25	GM-26	GM-27	GM-28	
Description	In Soil Near Codiga Residence	In Soil Near Codiga Residence	In Soil Near Codiga Residence	In Soil Near Bigler Residence	In Soil Near Bigler Residence	In Soil Near Bigler Residence	In Soil Near Bigler Residence	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100548	07100549	07100550	07100551	07100552	07100553	07100554	Action Levels
Station Location	GM-29	GM-30	GM-31	GM-32	GM-33	GM-34	GM-35	
Description	In Soil At Remmers Residence	In Soil At Remmers Residence	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100555	07100556	07100557	07100558	07100559	07100560	07100561	Action Levels
Station Location	GM-36	GM-37	GM-38	GM-39	GM-40	GM-41	GM-42	
Description	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100562	07100563	07100564	07100565	07100566	07100567	07100568	Action Levels
Station Location	GM-43	GM-44	GM-45	GM-46	GM-47	GM-48	GM-49	
Description	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Wood Road	In Soil Near Cow Pen	In Soil Near Cow Pen	In Soil Near Cow Pen	
VOCs (µg)								
Chlorobenzene	**0.03**	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	NR	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	NR	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	NR	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	NR	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	NR	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	**0.03**	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	NR	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	NR	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	**0.01**	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	**0.02**	0.01 U	0.01 U	NR	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	NR	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07100569	07100570	07100571	07100572	07111001	07111002	07111003	Action Levels
Station Location	GM-50	GM-51	GM-52	GM-53	GM-54	GM-55	GM-56	
Description	In Soil Near Cow Pen	In Soil Near Garden	In Soil Near Garden	In Soil Near Garden	MW01	MW01	MW01	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07111004	07111005	07111006	07111007	07111008	07111009	07111010	Action Levels
Station Location	GM-57	GM-58	GM-59	GM-60	GM-61	GM-62	GM-63	
Description	MW02	MW02	MW02	MW03	MW03	MW03	MW04	
VOCs (µg)								
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13

OCTOBER 2007 GORETM MODULE SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

EPA Sample ID	07111011	07111012	07111013	07111014	07111015	07111016	Action Levels
Station Location	GM-64	GM-65	GM-66	GM-67	GM-68	GM-69	
Description	MW04	MW04	Field Blank	Field Blank	Field Blank	Field Blank	
VOCs (µg)							
Chlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
cis- & trans-1,2-Dichloroethene	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NV
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
cis-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,1-Dichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,2-Dichloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Trichloroethene	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
1,4-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
Vinyl chloride	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	NV
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NV
Chloroform	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
Carbon tetrachloride	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,2-Trichloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,1,1,2-Tetrachloroethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,1,2,2-Tetrachloroethane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV
1,3-Dichlorobenzene	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NV
1,2-Dichlorobenzene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NV

Key is found on the last page.

Table 3-13 Key

Notes: Bold type indicates the sample result is above the detection limit.

Monitoring well samples were collected in the headspace at each location.

All samples collected from soil gas were collected from 0 - 6 inches below ground surface.

Key:

EPA = United States Environmental Protection Agency.

GM = Gore™ Module.

ID = Identification.

J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.

MW = Monitoring well.

µg = Micrograms.

na = Not analyzed.

NR = Not retrieved.

NV = No value.

U = The analyte was not detected at or above the listed detection limit.

VOCs = Volatile organic compounds.

Table 3-14

JUNE 2009 COMMERCIAL LABORATORY GROUNDWATER AND AIR SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

GROUNDWATER SAMPLE RESULTS								
EPA Sample ID	**09060001**	**09060002**	**09060003**	**09060004**	**09060005**	**09060006**	**09060007**	**Action Levels (Water)**
Station Location	**Hutterian Brethren**	**Harris Property**	**Hutterian Brethren**	**Hall Property**	**Hutterian Brethren**	**Hutterian Brethren**	**Remmers Property**	
Description	**MW01**	**MW02**	**MW03**	**MW04**	**MW05**	**MW06**	**MW07**	
VOCs (µg/L)								
Trichloroethene	**1.3**	**130**	**240**	**150**	0.20 U	**1.2**	0.20 U	5.0

EPA Sample ID	**09060008**	**09060009**	**09060010**	**09060011**	**09060012**	**09060013**	**09060014**	**Action Levels (Water)**
Station Location	**Ron Thompson Property**	**Hall Residence**	**Hall Residence**	**Hall Residence**	**Codiga (Residence)**	**Codiga (Residence)**	**Codiga (Residence)**	
Description	**MW08**	**Treatment System Pre-Treatment**	**Treatment System Mid-Treatment**	**Treatment System Post-Treatment**	**Treatment System Pre-Treatment**	**Treatment System Mid-Treatment**	**Treatment System Post-Treatment**	
VOCs (µg/L)								
Trichloroethene	0.20 U	**69**	0.20 U	0.20 U	**60**	0.20 U	0.20 U	5.0

EPA Sample ID	**09060015**	**09060016**	**09060017**	**09060018**	**09060027**	**09060028**	**09060029**	**Action Levels (Water)**
Station Location	**Eugene Thompson Residence**	**Eugene Thompson Residence**	**Eugene Thompson Residence**	**Trip Blank 13**	**Rinsate Blank**	**Ben Echelbarger Residence**	**Ron Thompson Residence**	
Description	**Treatment System Post-Treatment**	**Treatment System Mid-Treatment**	**Treatment System Pre-Treatment**	**Trip Blank**	**Rinsate Blank**	**Outside Spigot (Domestic Well)**	**Outside Spigot (Domestic Well)**	
VOCs (µg/L)								
Trichloroethene	0.20 U	0.20 U	**22**	0.20 U	0.20 U	0.20 U	0.20 U	5.0

Key is found on the next page.

Table 3-14

JUNE 2009 COMMERCIAL LABORATORY GROUNDWATER AND AIR SAMPLE ANALYTICAL RESULTS SUMMARY
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

AIR SAMPLE RESULTS							
EPA Sample ID	**09060019**	**09060022**	**09060023**	**09060024**	**09060025**	**09060026**	**Action Levels (Air)**
Station Location	**Eugene Thompson Residence**	**Eugene Thompson Residence**	**Eugene Thompson Residence**	**Hall Residence**	**Hall Residence**	**Hall Residence**	
Description	**Background Outdoor Air**	**Downstairs Indoor Air**	**Upstairs Indoor Air**	**Upstairs Indoor Air**	**Downstairs Indoor Air**	**Background Outdoor Air**	
VOCs (µg/L)							
Trichloroethene	**0.052**	**0.16**	**0.065**	**0.52**	**0.52**	**0.063**	0.1

Note: Bold type indicates the sample result is above the detection limit.

Key:

Shaded results are greater than the listed action levels.

EPA = United States Environmental Protection Agency.

ID = Identification.

J = The analyte was positively identified. The result is estimated because the concentration is below the sample quantitation limit or because quality control criteria were not met.

µg/L = Micrograms per liter.

MW = Monitoring well.

na = Not analyzed.

U = The analyte was not detected at or above the listed detection limit.

VOCs = Volatile organic compounds.

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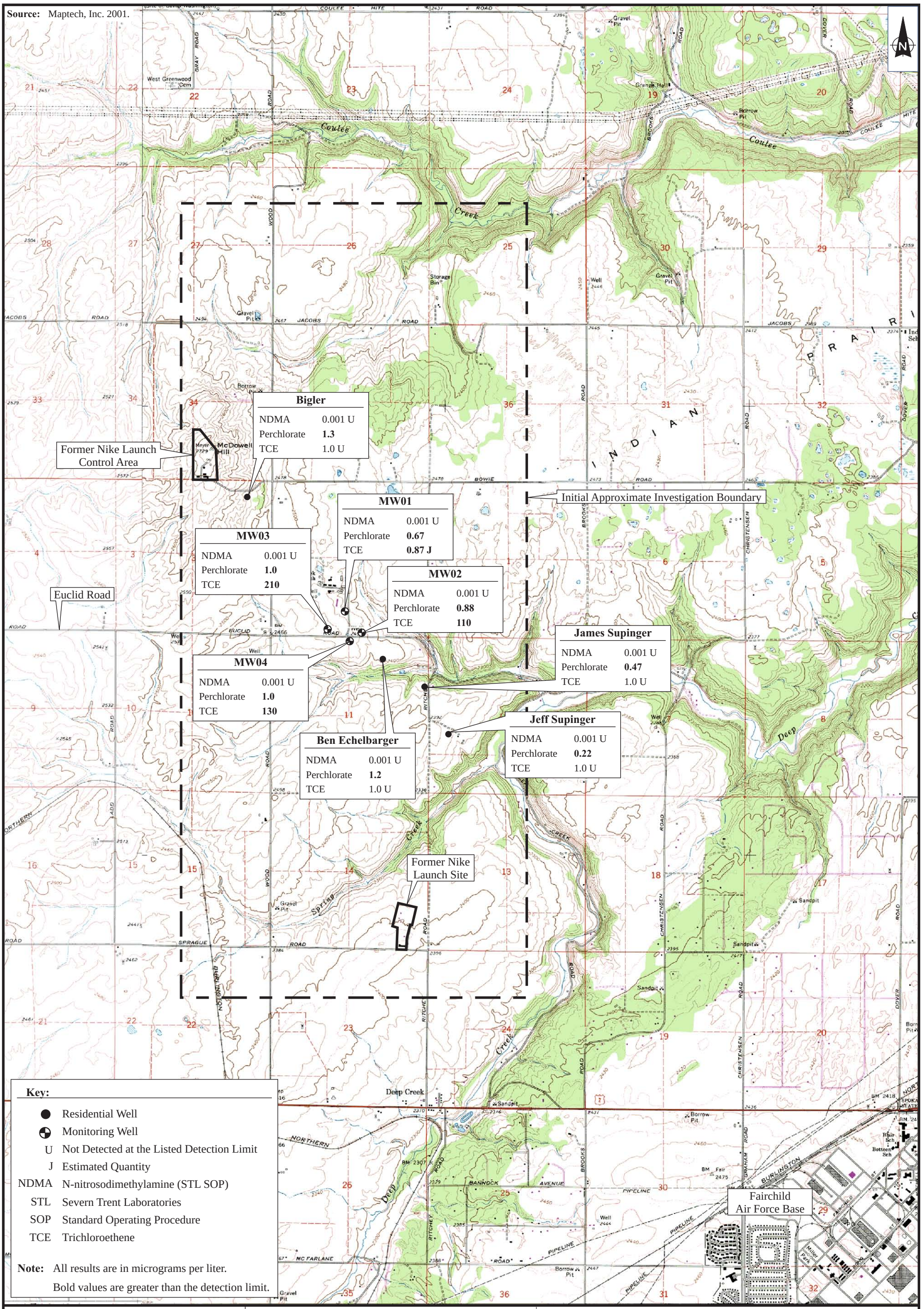

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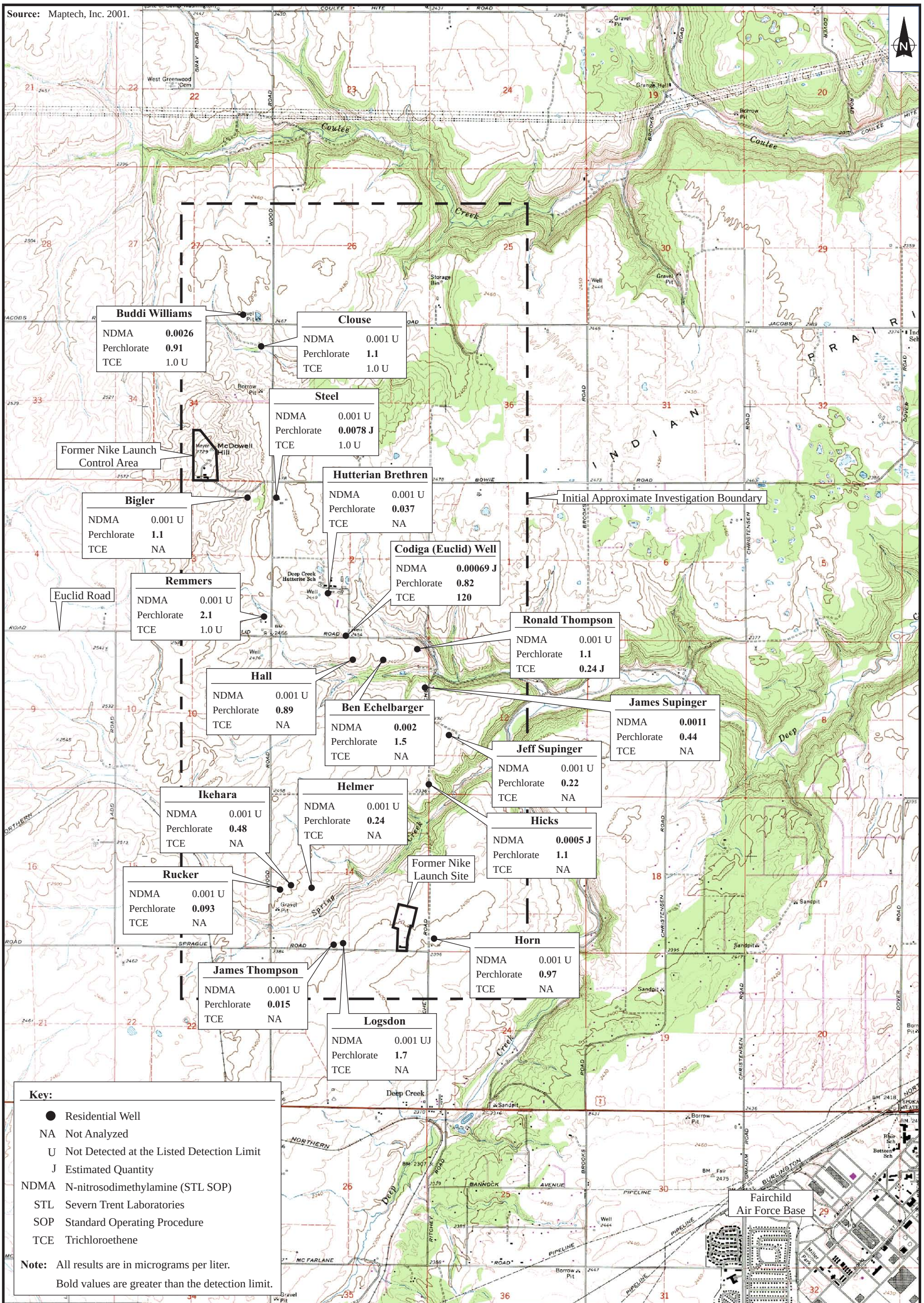
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-1
MARCH 2006 SAMPLE RESULTS MAP

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-1



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Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-2
APRIL 2006 SAMPLE RESULTS MAP

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-2

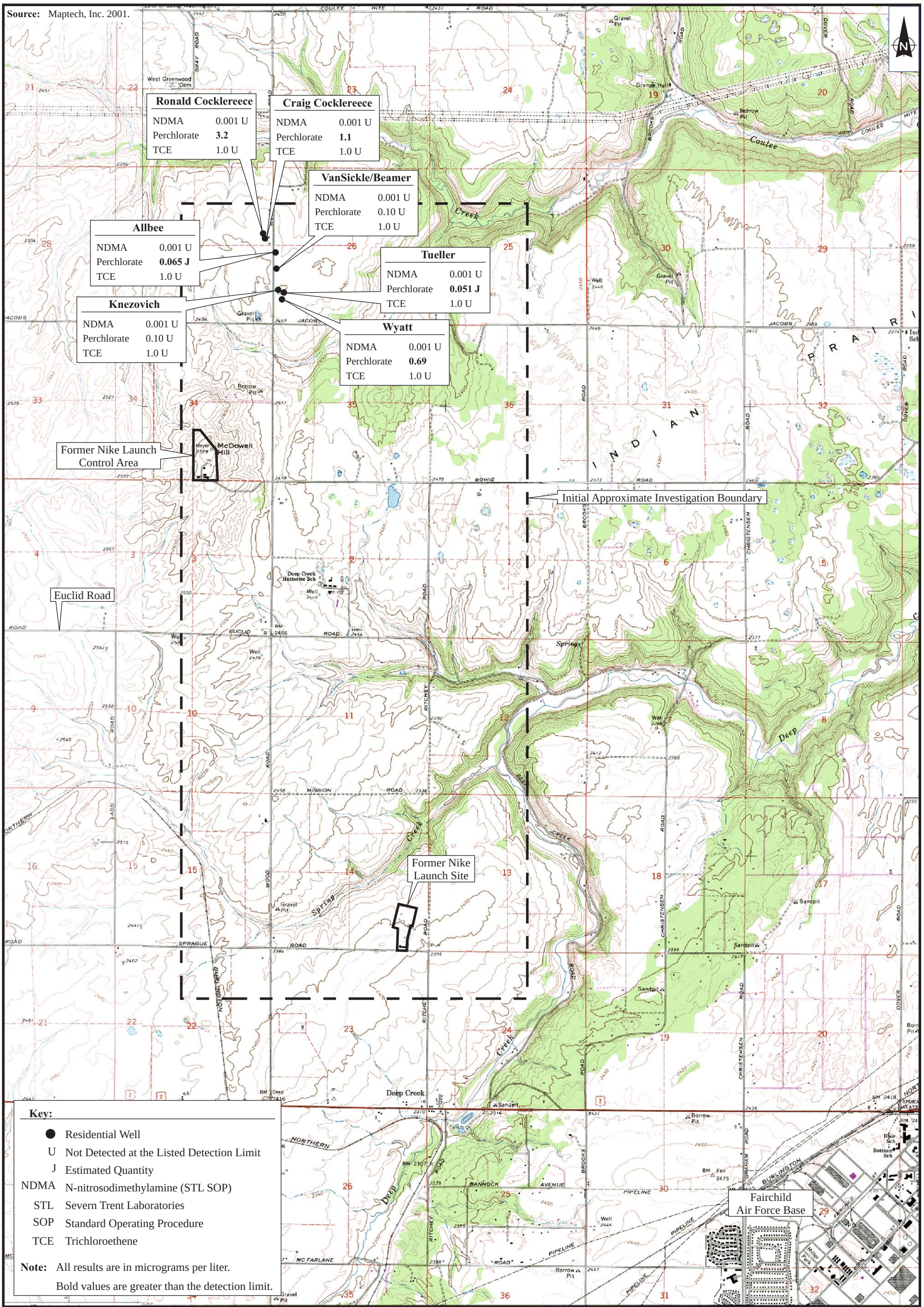

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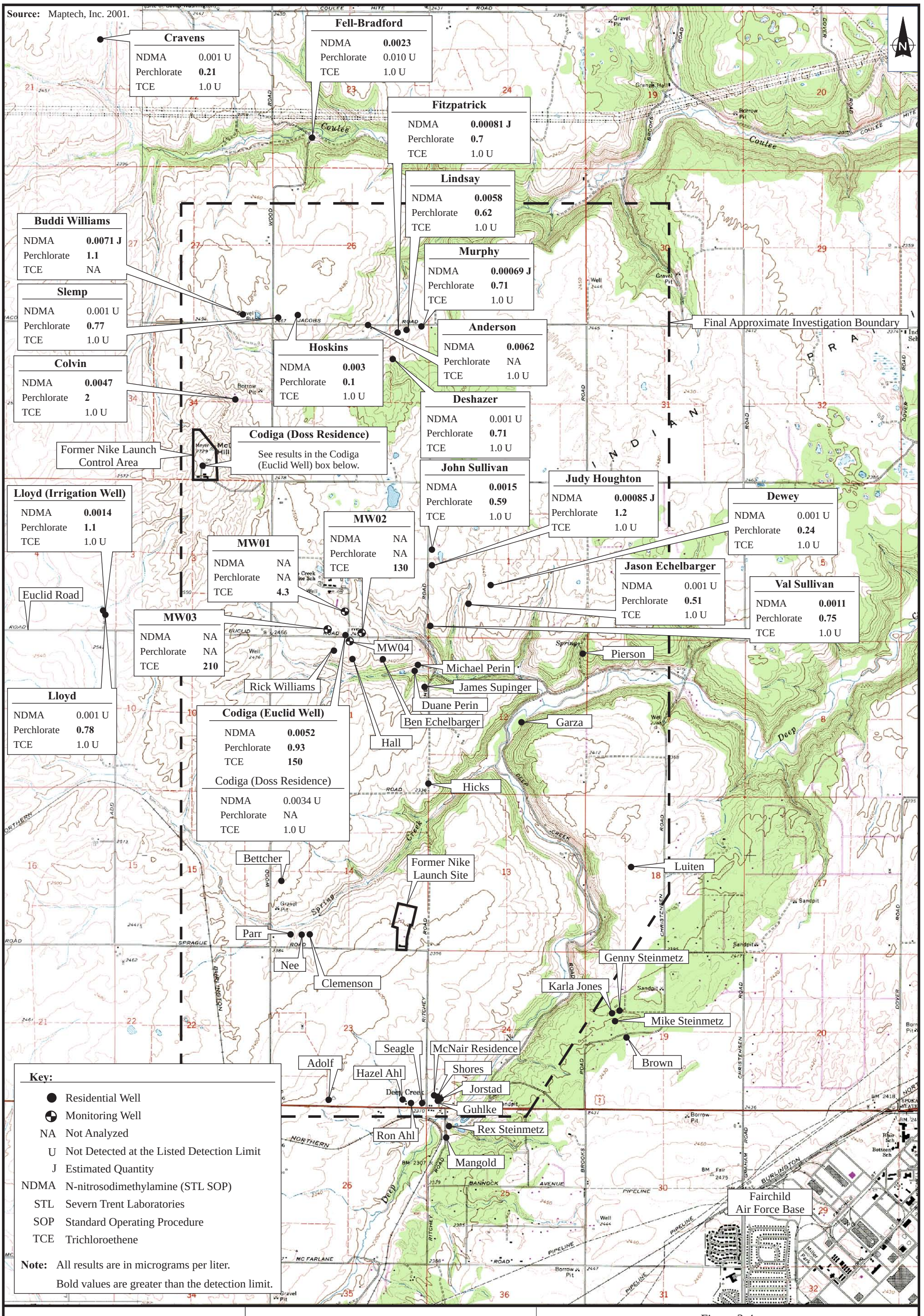
Figure 3-3
MAY 2006 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-3



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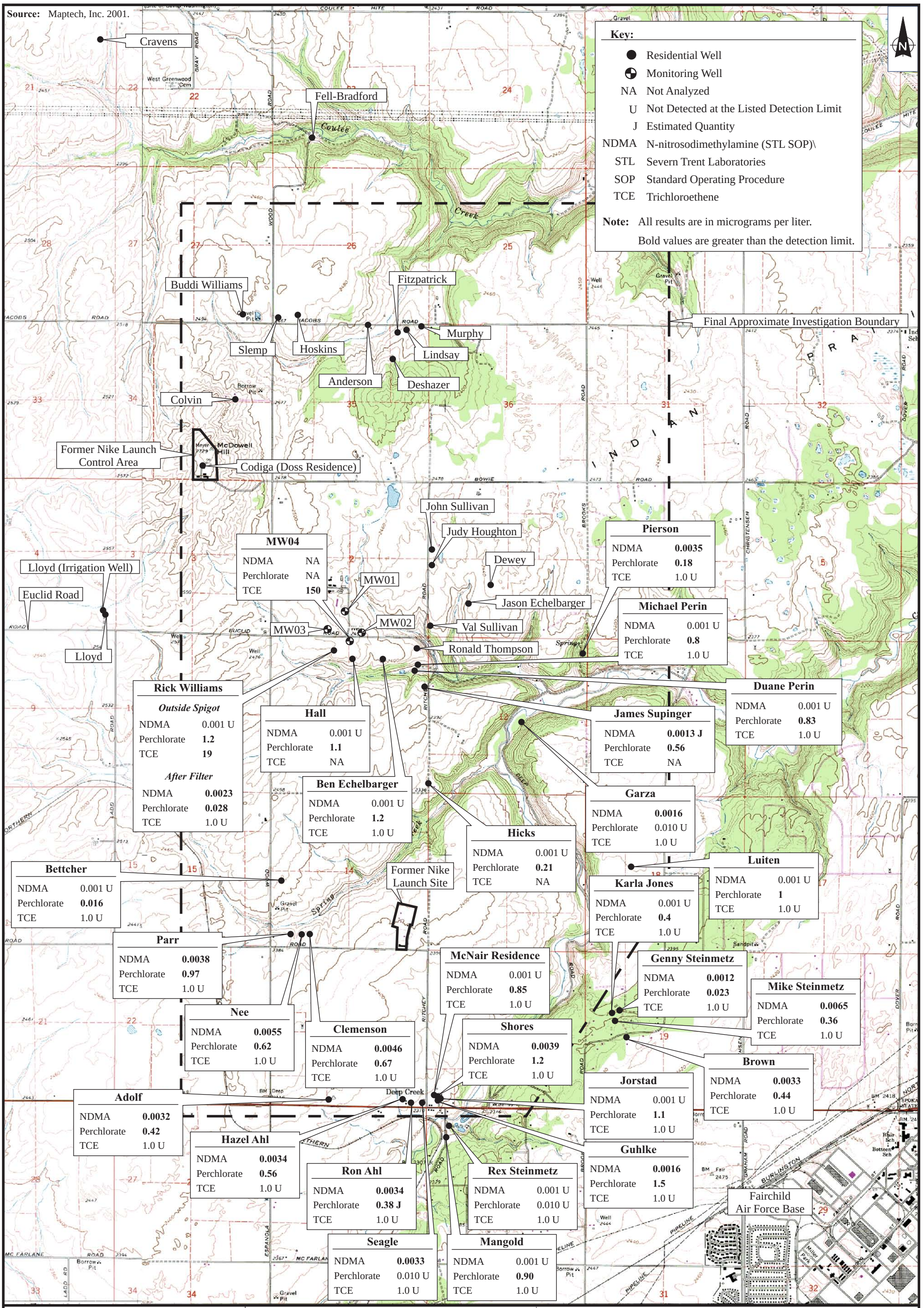
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-4
JUNE 2006 SAMPLE RESULTS MAP
(Locations North of Euclid Road)

Date: 1/5/09 | Drawn by: AES | 10:START-3\06090002\fig 3-4



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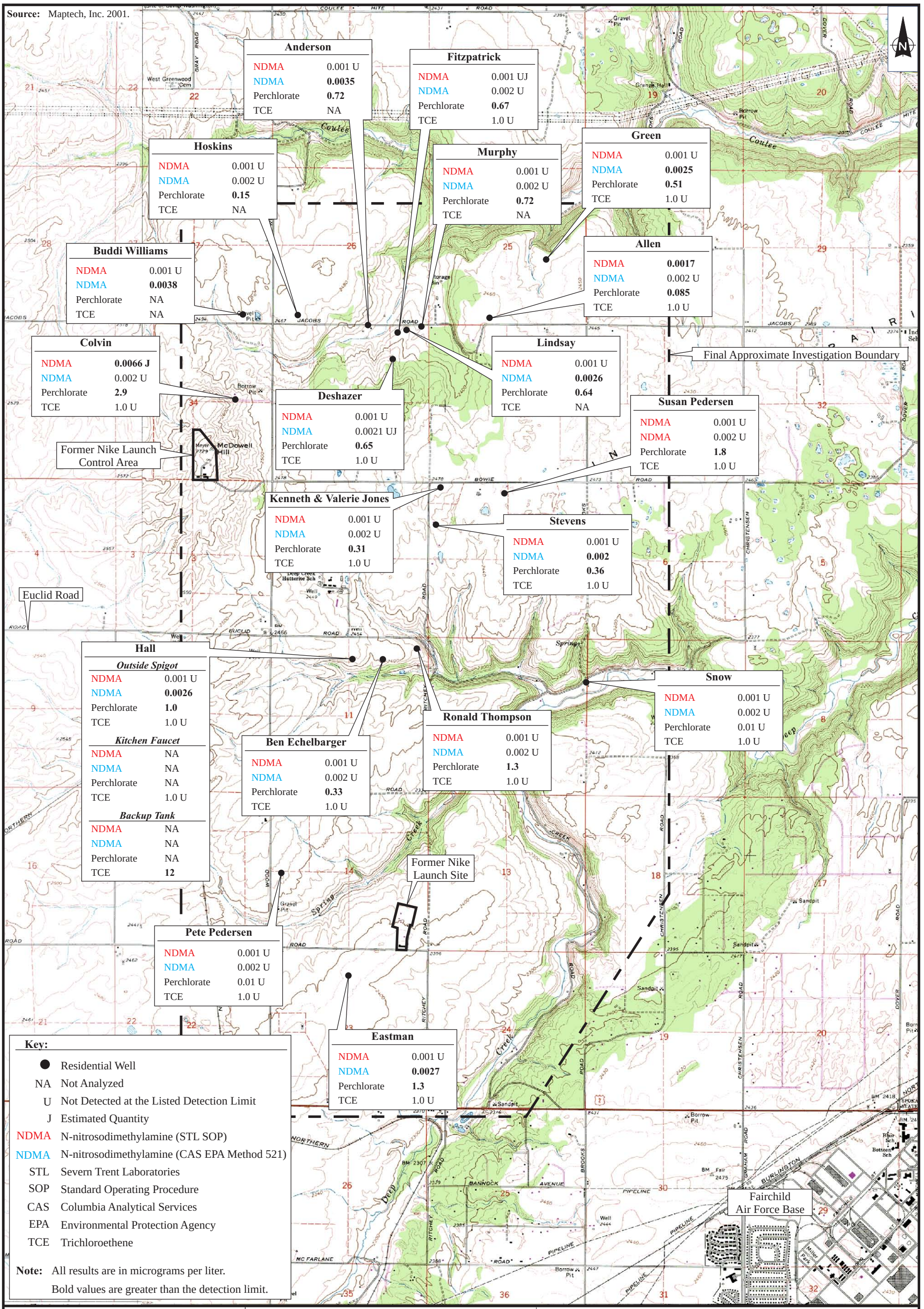
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 3-5
JUNE 2006 SAMPLE RESULTS MAP
(Locations South of Euclid Road)

Date: 1/5/09 | Drawn by: AES | 10:START-3\06090002\fig 3-5



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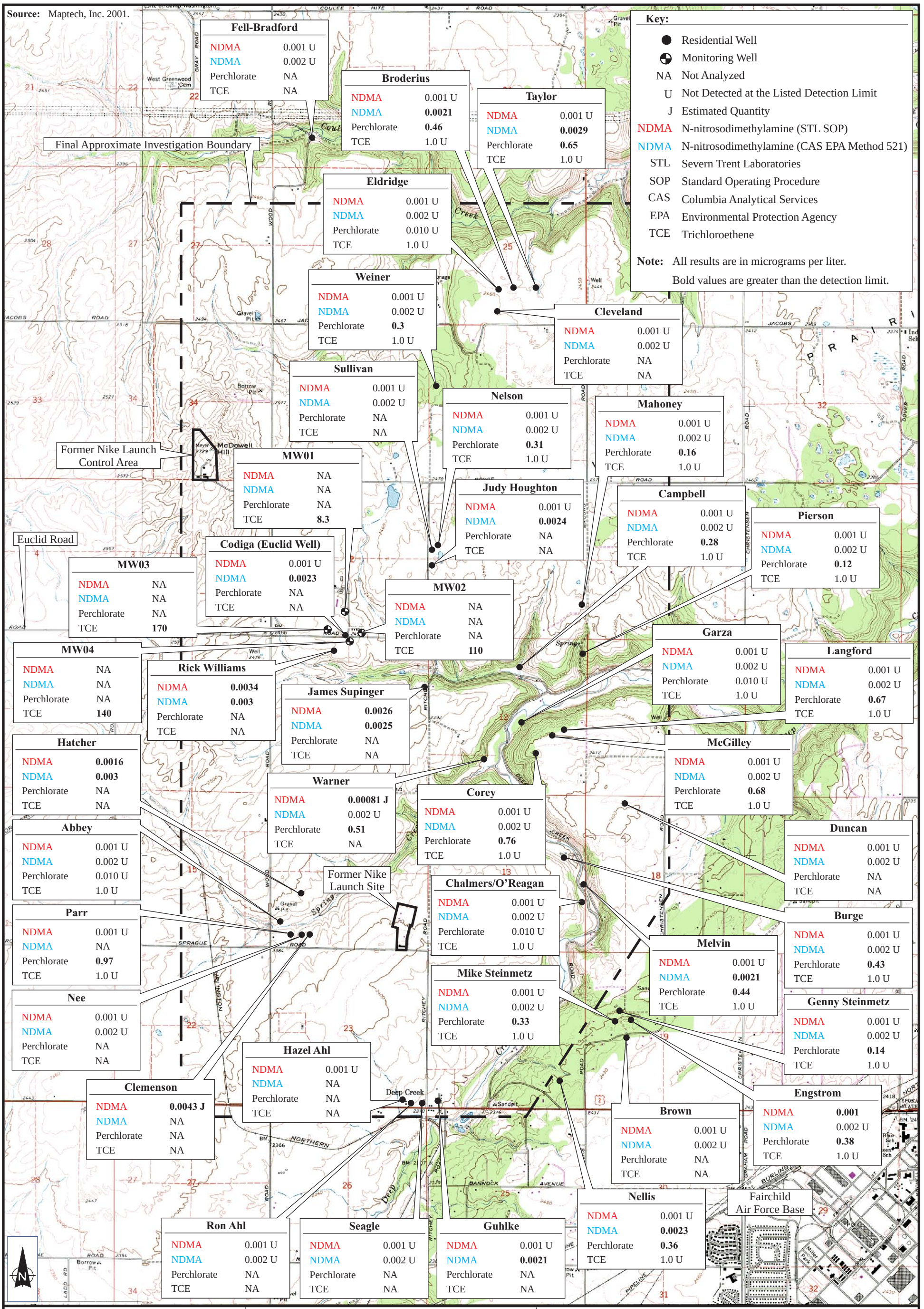
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-6
AUGUST 2006 SAMPLE RESULTS MAP

Date: 1/5/09 | Drawn by: AES | 10:START-3\06090002\fig 3-6



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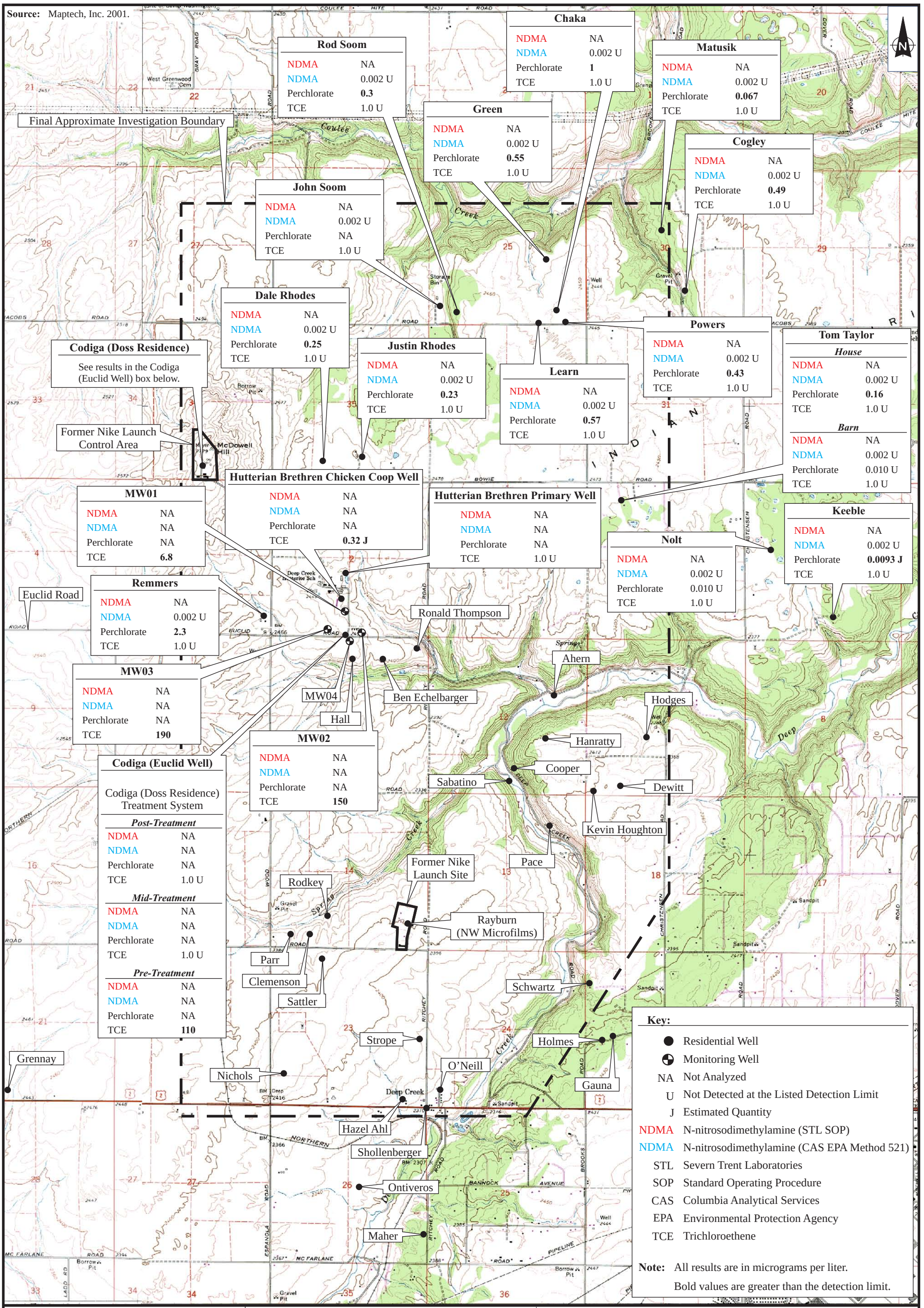
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 3-7
SEPTEMBER 2006 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-7



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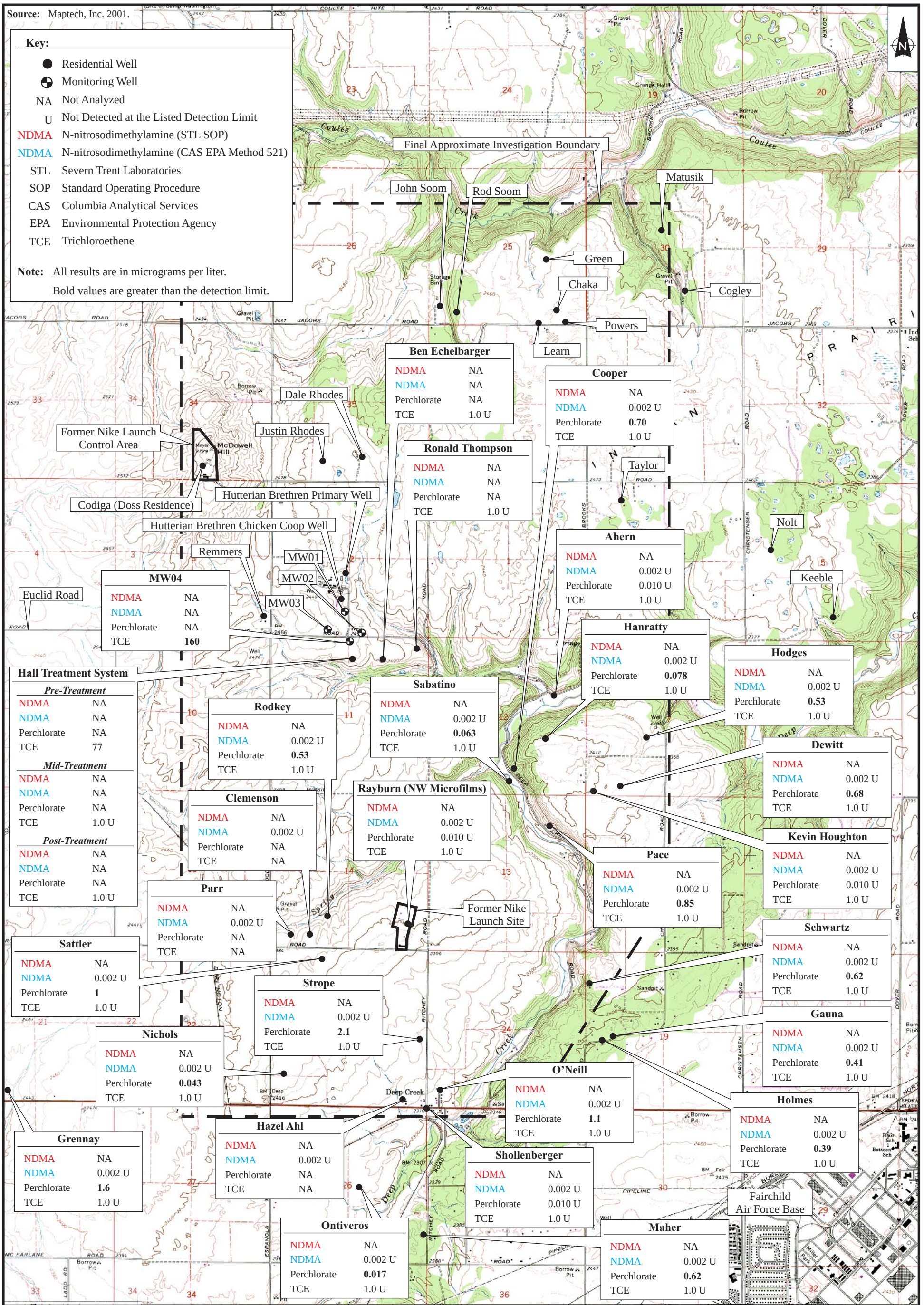
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-8
DECEMBER 2006 SAMPLE RESULTS MAP
(Locations North of Euclid Road)

Date: 1/22/09
Drawn by: AES
10:START-3\06090002\fig 3-8



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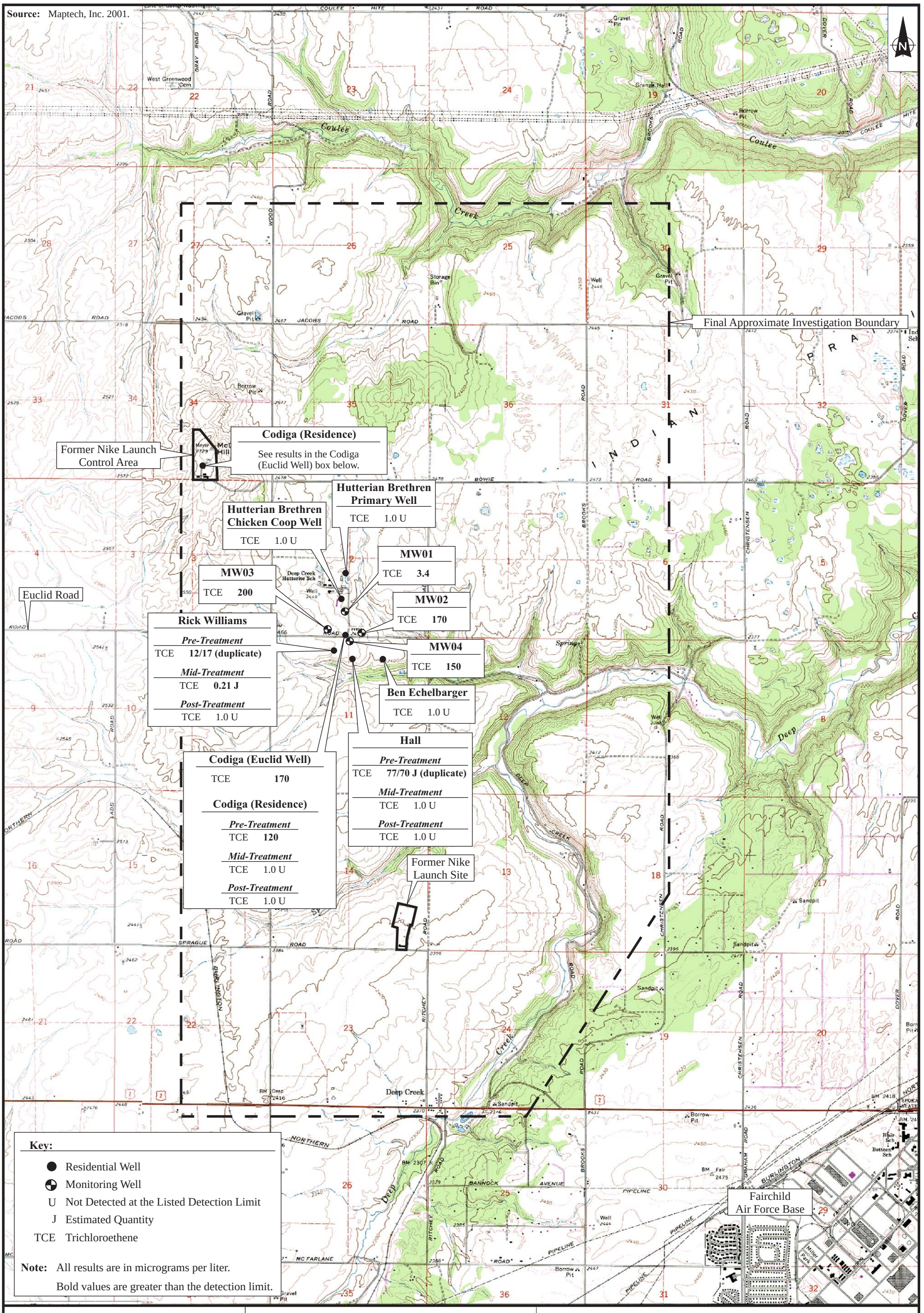
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 3-9
DECEMBER 2006 SAMPLE RESULTS MAP
(Locations South of Euclid Road)

0 1538 3076
Approximate Scale in Feet

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-9



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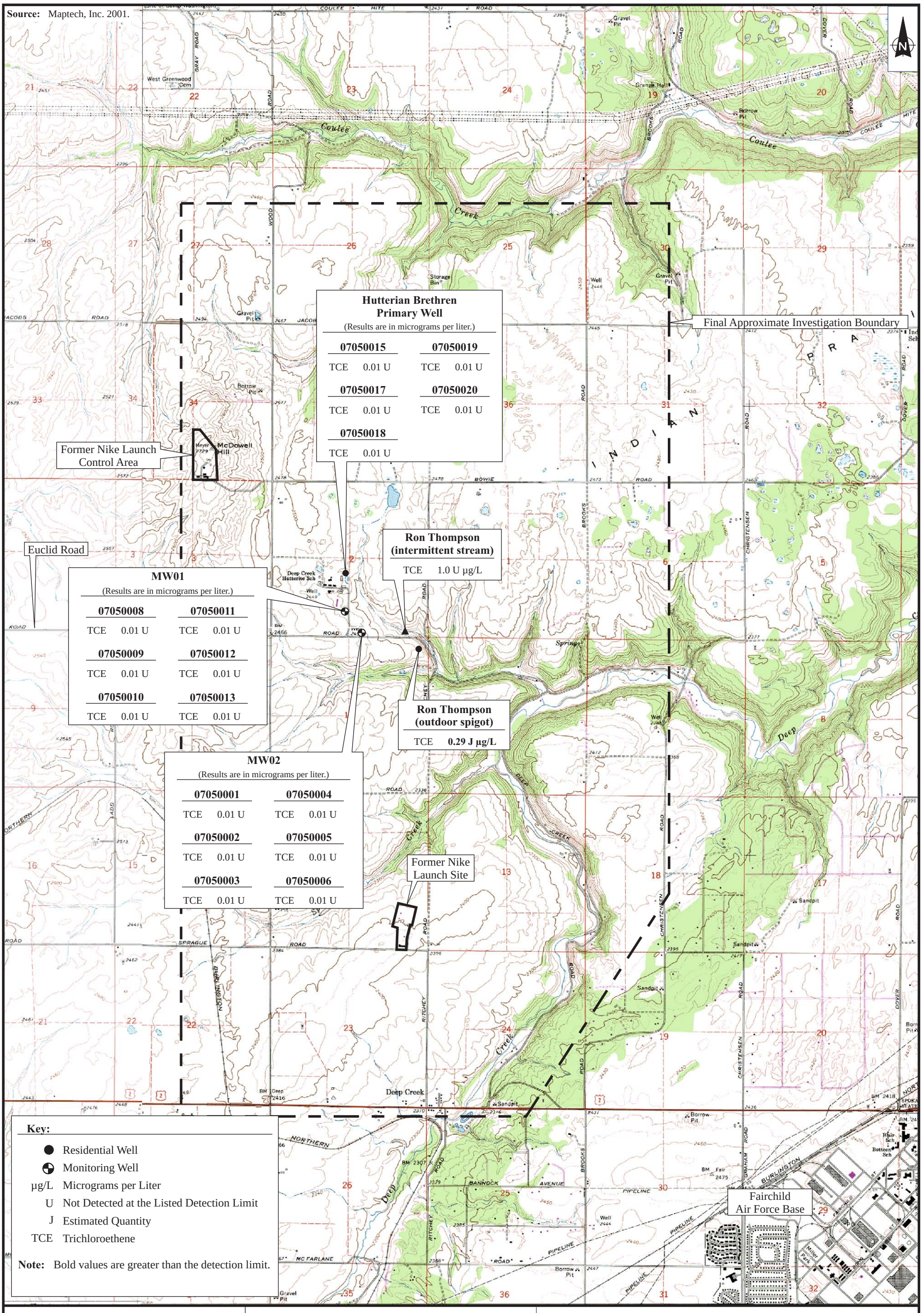
Reardan, Washington

Figure 3-10
APRIL 2007 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 12/10/09
Drawn by: AES
10:START-3\06090002\fig 3-10



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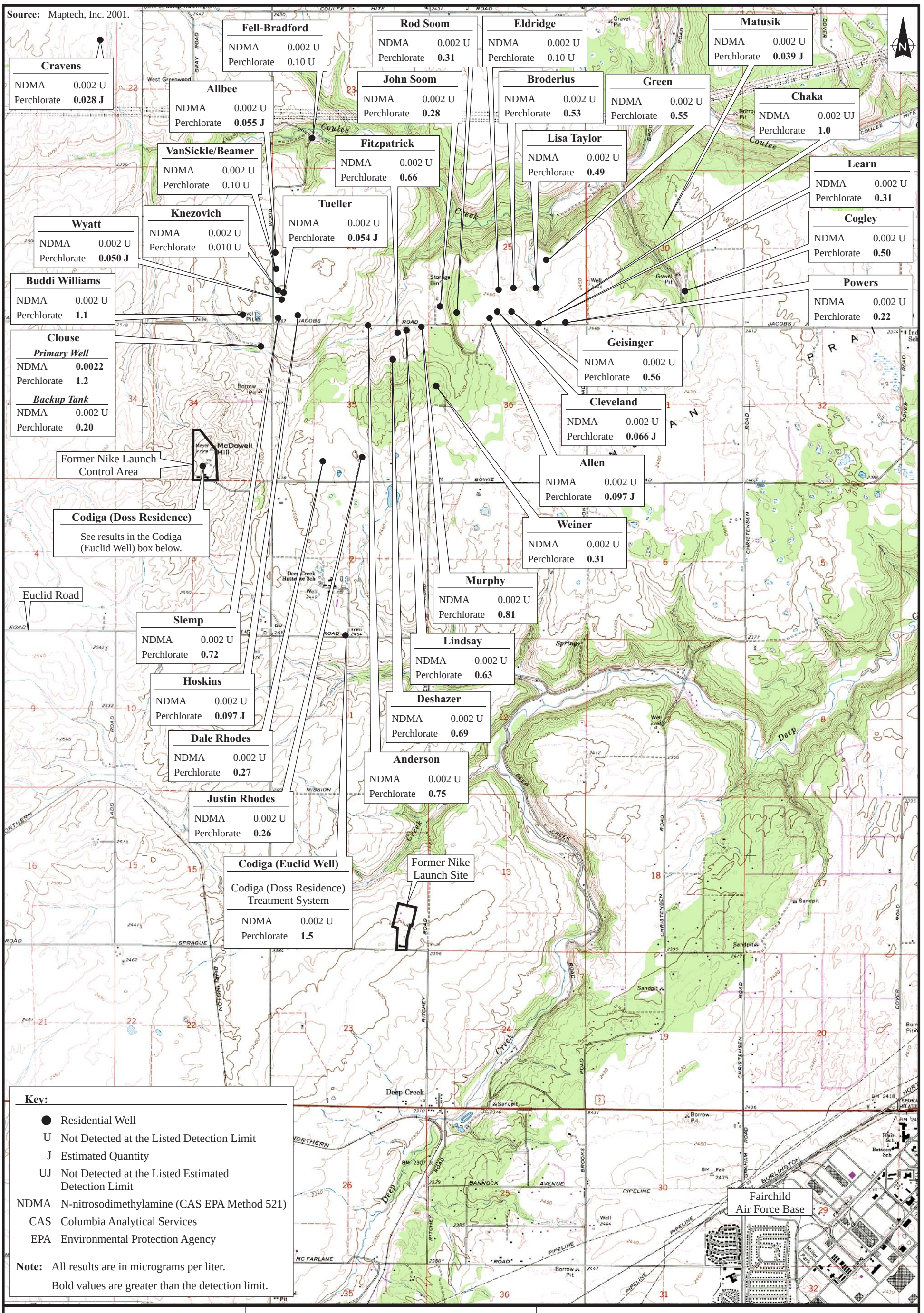
Reardan, Washington

Figure 3-11
MAY 2007 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 11/2/09
Drawn by: AES
10:START-3\06090002\fig 3-11



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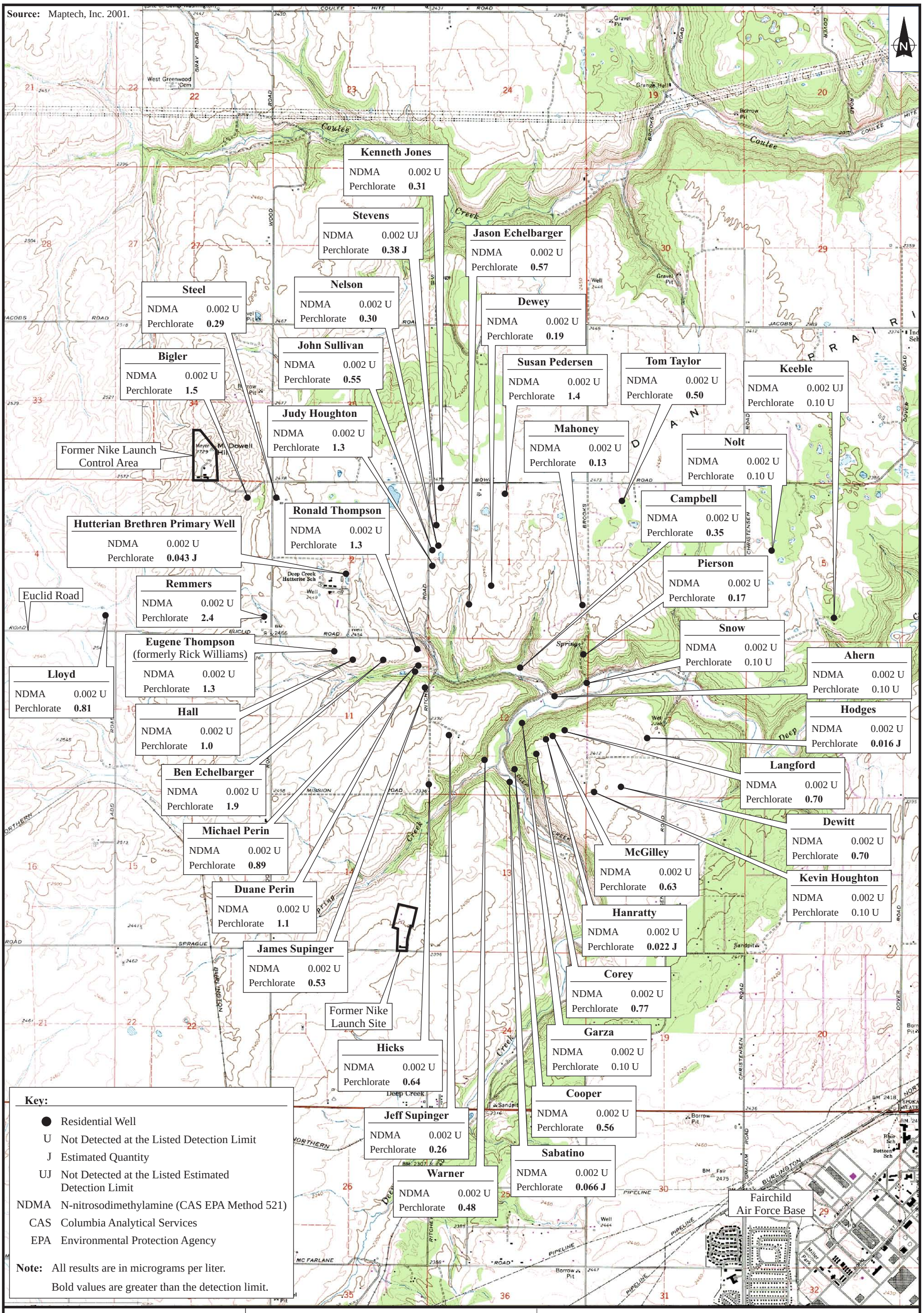
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-12
JUNE 2007 SAMPLE RESULTS MAP
(Northern Euclid Road Site)

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-12



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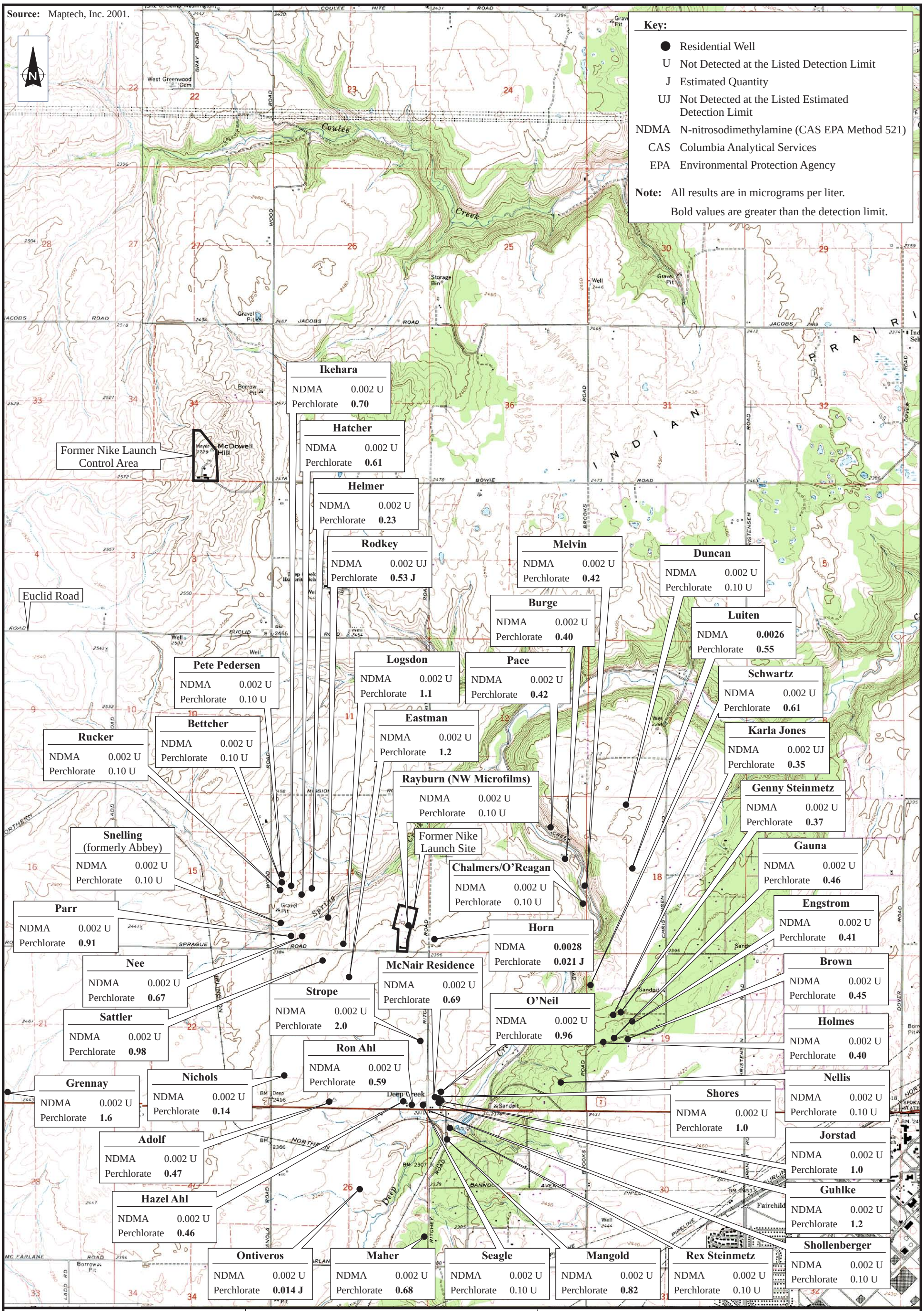
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-13
JUNE 2007 SAMPLE RESULTS MAP
(Central Euclid Road Site)

Date: 1/5/09 | Drawn by: AES | 10:START-3\06090002\fig 3-13



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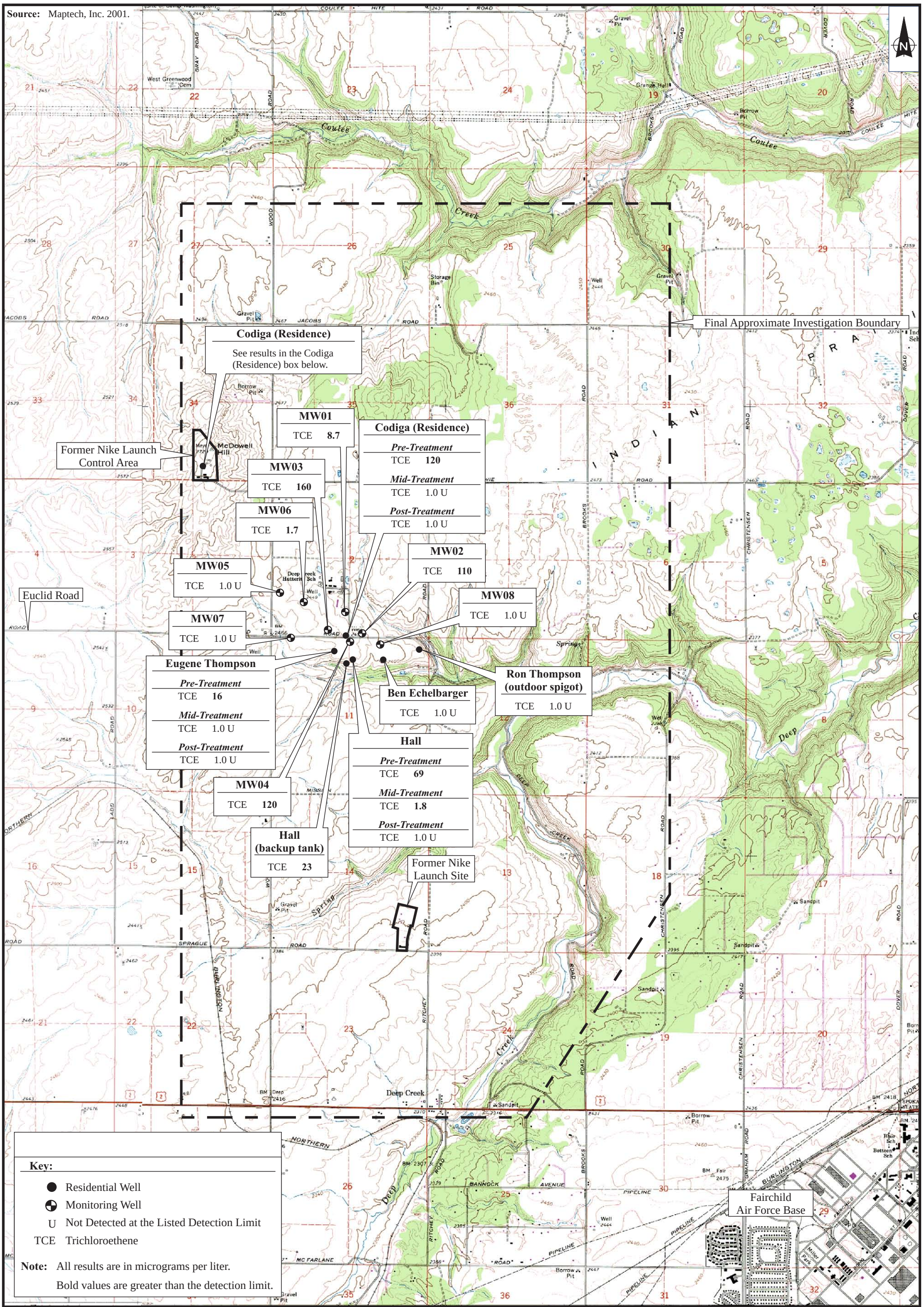
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-14
JUNE 2007 SAMPLE RESULTS MAP
(Southern Euclid Road Site)

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-14



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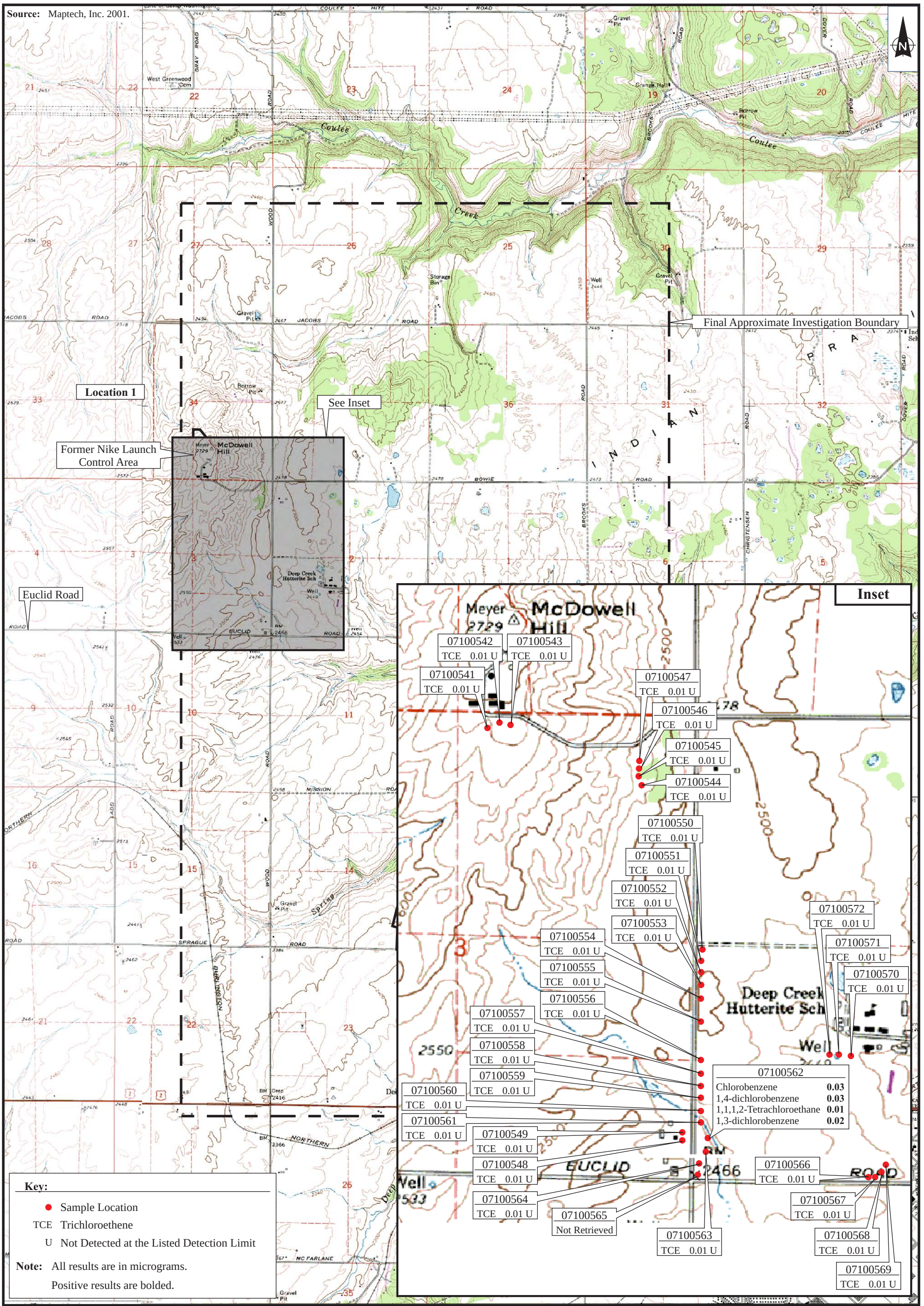
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 3-15
OCTOBER 2007 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 11/13/09
Drawn by: AES
10:START-3\06090002\fig 3-15



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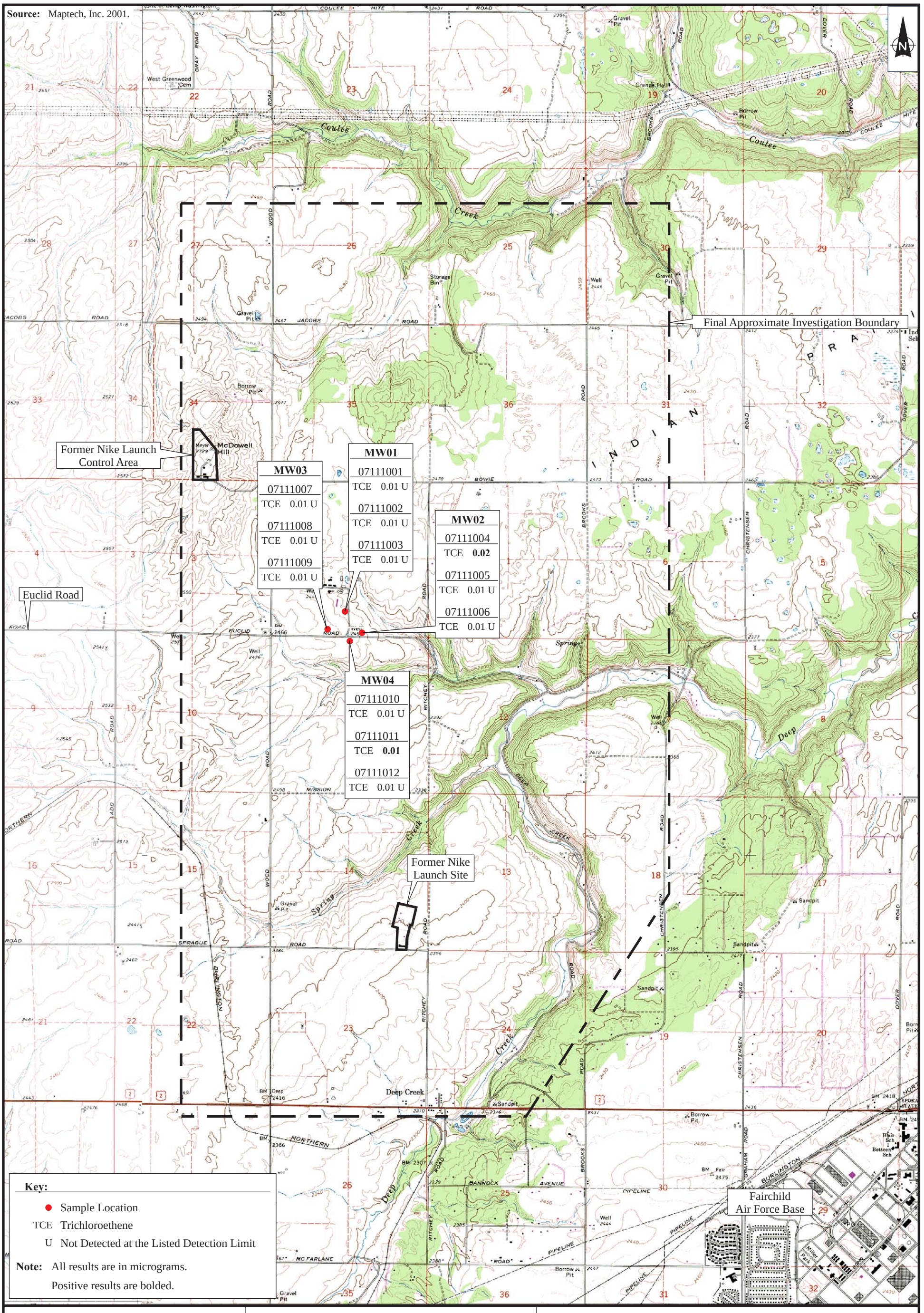
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-16
OCTOBER 2007 GORE™ MODULE
SOIL GAS SAMPLE RESULTS MAP

Date: 1/5/09
Drawn by: AES
10:START-3\06090002\fig 3-16



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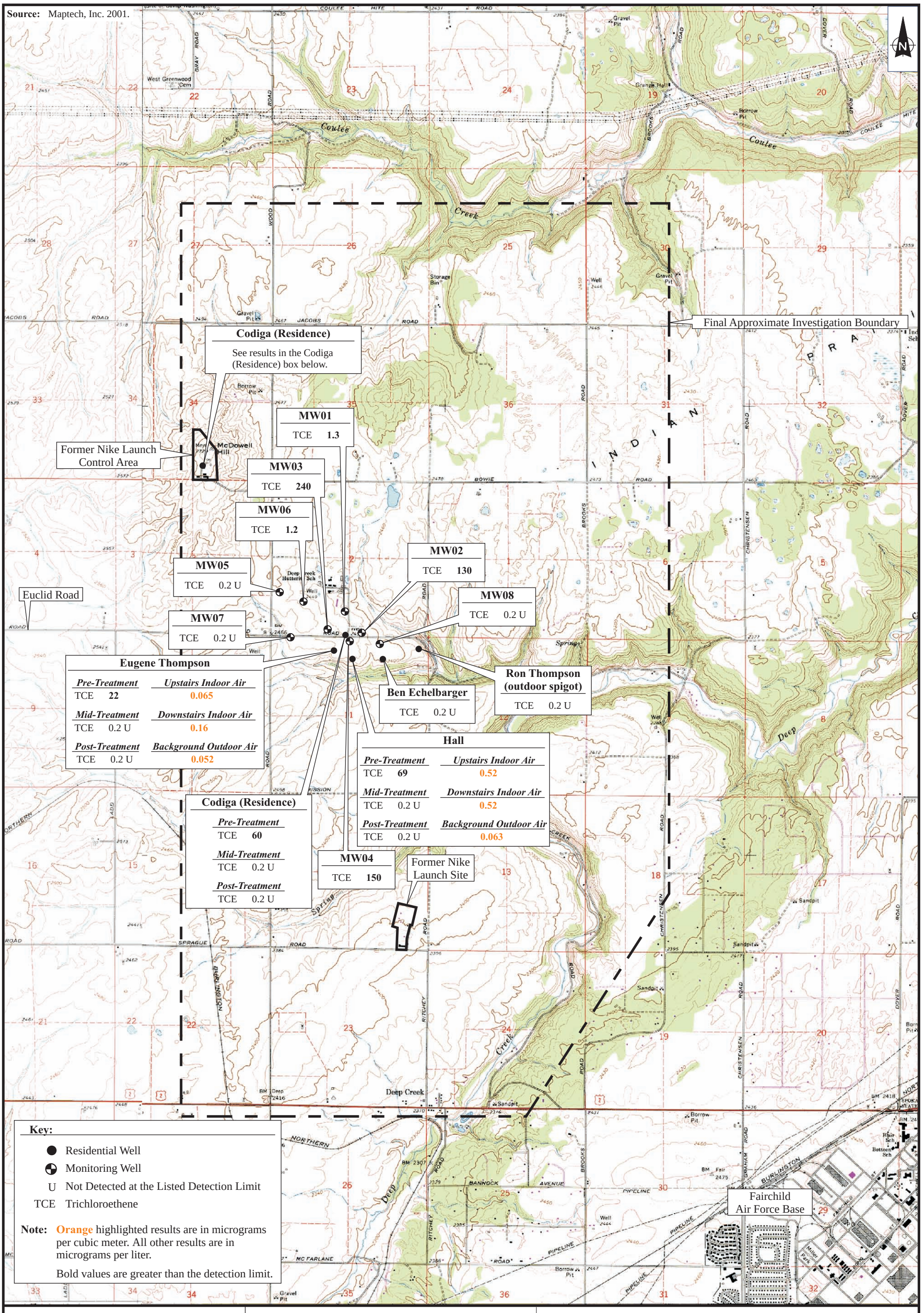
EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

Figure 3-17
OCTOBER 2007 GORE™ MODULE
MONITORING WELL SAMPLE RESULTS MAP

Date: 12/10/09
Drawn by: AES
10:START-3\06090002\fig 3-17



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EUCLID ROAD TCE MONITORING SITE
Reardan, Washington

Figure 3-18
JUNE 2009 SAMPLE RESULTS MAP

0 1538 3076
Approximate Scale in Feet

Date: 7/20/09
Drawn by: AES
10:START-3\06090002\fig 3-18

4 Summary and Conclusions

The START was tasked by the EPA to conduct an RA at the ERGW site in conjunction with work at the ERTM site; this RA report primarily discusses the work conducted for the ERGW investigation but discusses ERTM work when applicable. The initial objective of the RA was to monitor the TCE concentrations in domestic and monitoring wells in the Euclid Road area of Reardan, Washington, with secondary goals to determine if NDMA and/or perchlorate contamination were present in these wells. START conducted fourteen rounds of RA field activities between March 2006 and June 2009. After the results from each month between March and December, 2006 were received, the OSC expanded the sample collection effort to include additional domestic wells inside the approximate investigation boundary not previously sampled and to conduct follow-up sampling at some previously sampled locations to determine if any concentration fluctuations had occurred. In general, individual sample results were consistent with results from the same locations throughout the project. After December 2006, sampling was primarily conducted at locations that had previously been sampled. A total of 478 field samples (including QA, whole air, and soil gas samples) involving 978 separate analyses were collected from 128 different properties, including 128 domestic supply wells, one chicken coop well, three residential water treatment systems, two residences, two backup domestic water supply sources, one hospital background well, one domestic irrigation well, one intermittent stream, eight monitoring wells, and 64 soil gas samples and were analyzed for NDMA, perchlorate, and/or TCE. NDMA was detected in 44 domestic wells and in the domestic irrigation well at concentrations between 0.000069 and 0.0071 µg/L. Perchlorate was detected in 112 domestic wells, in the domestic irrigation well, and in four monitoring wells at concentrations between 0.0078 and 3.2 µg/L. TCE was detected in four domestic wells, in the backup domestic water supply source, and in five monitoring wells at concentrations between 0.24 and 240 µg/L. TCE was detected in whole air samples at the Hall and Eugene Thompson residences at concentrations exceeding the Washington MTCA Method B limits for residential air of 0.1 $\mu g/m^3$.

5 References

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A Photographic Documentation

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
1-1	March 28, 2006	0945	MW	South	Jeff and Mariam Supinger residence.
1-2	March 28, 2006	0950	MW	East	Jeff and Mariam Supinger sample location.
1-3	March 28, 2006	1010	MW	East	James and Jean Supinger residence.
1-4	March 28, 2006	1012	MW	East	James and Jean Supinger sample location.
1-5	March 28, 2006	1040	MW	East	Ben Echelbarger residence sample location.
1-6	March 28, 2006	1040	MW	East	Ben Echelbarger residence sample location.
1-7	March 28, 2006	1110	MW	North	Barry Bigler residence sample location.
1-8	March 28, 2006	1110	MW	North	Barry Bigler residence sample location.
1-9	March 28, 2006	1230	MW	East	MW01 sample location.
1-10	March 28, 2006	1415	MW	East	MW02 sample location.
1-11	March 28, 2006	1445	MW	East	MW03 sample location.
1-12	March 28, 2006	1515	MW	North	MW04 sample location.
2-1	April 15, 2006	1030	MW	North	Sample collection inside Hutterite building.
2-2	April 15, 2006	1035	MW	North	Outside of Hutterite building.
2-3	April 15, 2006	1045	MW	Northeast	James Codiga (Euclid) well.
2-4	April 15, 2006	1050	MW	Northeast	Collection of sample from James Codiga well.
2-5	April 15, 2006	1105	MW	South	Melvin Hall residence sample location.
2-6	April 15, 2006	1105	MW	North	Melvin Hall residence sample location.
2-7	April 15, 2006	1115	MW	South	Ben Echelbarger residence sample location.
2-8	April 15, 2006	1115	MW	South	Ben Echelbarger residence sample location.
2-9	April 15, 2006	1220	MW	North	Barry Bigler residence sample location.
2-10	April 15, 2006	1235	MW	South	Frances Steele residence sample location.
2-11	April 15, 2006	1250	MW	North	Bud Remmers residence well and sample location.
2-12	April 15, 2006	1320	MW	East	Eileen Clouse residence sample location.
2-13	April 15, 2006	1335	MW	East	Buddi Williams residence well.
2-14	April 15, 2006	1550	MW	South	Doug Hicks residence well (residence in background).
2-15	April 15, 2006	1600	MW	North	Dan Helmer residence sample location near driveway.
2-16	April 15, 2006	1620	MW	West	Justin Ikehara residence sample location.
2-17	April 15, 2006	1630	MW	North	Wayne Horn residence sample location.
2-18	April 15, 2006	1650	MW	North	Ray Logsdon residence sample location (next to house).
2-19	April 15, 2006	1710	MW	North	James Thompson's well in field.
3-1	May 26, 2006	0900	MW	East	Dave Tueller residence. Well is near shed in background.
3-2	May 26, 2006	0900	MW	East	Dave Tueller residence. Purging of well.
3-3	May 26, 2006	0915	MW	South	Dave Tueller residence sampling; Vic Wyatt well in background.
3-4	May 26, 2006	0940	MW	North	Sample collection from Ozzie Knezovich residence.
3-5	May 26, 2006	1010	MW	North	Well shed at Richard VanSickle/John Beamer residences.
3-6	May 26, 2006	1025	MW	South	Allen Allbee residence well bunker (underground).
3-7	May 26, 2006	1050	MW	Northwest	Purging of Craig Cocklereece's well.
3-8	May 26, 2006	1110	MW	Southeast	Ronald Cocklereece's well house.
4-1	June 22, 2006	1040	MW	South	MW01 sample location.
4-2	June 22, 2006	1125	MW	North	MW02 sample location.
4-3	June 22, 2006	1245	MW	North	MW04 sample location.
4-4	June 22, 2006	1330	MW	East	Melvin Hall residence sample location.
4-5	June 22, 2006	1345	MW	East	Ben Echelbarger residence sample location.
4-6	June 22, 2006	1520	MW	South	MW03 sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
4-7	June 22, 2006	2105	MW	West	Alex Murphy residence sample location.
4-8	June 22, 2006	2120	MW	East	Chris Fitzpatrick residence sample location.
4-9	June 22, 2006	2130	MW	Southeast	Brenda Deshazer residence sample location.
4-10	June 23, 2006	0725	MW	Southeast	Adam Lloyd residence sample location.
4-11	June 23, 2006	0730	MW	Southeast	Adam Lloyd residence sample location.
4-12	June 23, 2006	0820	MW	South	Rex Steinmetz residence sample location.
4-13	June 23, 2006	0830	MW	Northeast	Marcie Mangold residence sample location.
4-14	June 23, 2006	0900	MW	South	Carl Bettcher residence sample location.
4-15	June 23, 2006	0920	MW	East	James Supinger residence sample location.
4-16	June 23, 2006	0955	MW	West	Jason Echelbarger residence sample location.
4-17	June 23, 2006	1005	MW	North	Jody Dewey residence sample location.
4-18	June 23, 2006	1045	MW	West	Back of Sandy Jorstad residence.
4-19	June 23, 2006	1115	MW	East	Buddi Williams residence sample location.
4-20	June 23, 2006	1250	MW	Southeast	Rosemary Slemp residence sample location.
4-21	June 23, 2006	1305	MW	Northwest	Rick Williams residence well.
4-22	June 23, 2006	1305	MW	South	Rick Williams house sample location.
4-23	June 23, 2006	1345	MW	South	Connie Rucker house sample location.
4-24	June 23, 2006	1420	MW	Southwest	Duane Perin field.
4-25	June 23, 2006	1425	MW	Northeast	Michael Perin residence sample location.
4-26	June 23, 2006	1430	MW	Northeast	Duane Perin residence sample location.
5-1	June 25, 2006	1915	MW	East	Robert Shores residence.
5-2	June 25, 2006	1915	MW	Down	Robert Shores sample location.
5-3	June 25, 2006	1925	MW	Southeast	Jeff Adolf residence sample location.
5-4	June 25, 2006	1950	MW	Southeast	Joe Cravens residence sample location.
5-5	June 25, 2006	2020	MW	South	John Sullivan residence sample location.
5-6	June 25, 2006	2040	MW	Southwest	Judy Houghton residence sample location.
5-7	June 25, 2006	2050	MW	Southwest	Val Sullivan residence sample location.
5-8	June 26, 2006	0710	MW	North	Adam Lloyd old well sample location.
5-9	June 26, 2006	0810	MW	South	Mary Jane Fell-Bradford residence sample location.
5-10	June 26, 2006	0845	MW	South	Jess Colvin residence sample location.
5-11	June 26, 2006	0915	MW	West	Mike Steinmetz residence sample location.
5-12	June 26, 2006	0925	MW	West	Karla Jones residence sample location.
5-13	June 26, 2006	0935	MW	East	Genny Steinmetz residence sample location.
5-14	June 26, 2006	1015	MW	South	Codiga hill sample location.
5-15	June 26, 2006	1025	MW	North	James Codiga (Euclid) well sample location.
5-16	June 26, 2006	1040	MW	West	Shelee Brown residence sample location.
5-17	June 26, 2006	1205	MW	East	Ron Ahl business/residence sample location.
5-18	June 26, 2006	1230	MW	South	Hazel Ahl residence sample location.
5-19	June 26, 2006	1240	MW	East	Linda Seagle residence sample location.
5-20	June 26, 2006	1300	MW	East	Jerry Guhlke residence sample location.
5-21	June 26, 2006	1305	MW	Northwest	McNair residence sample location.
5-22	June 26, 2006	1340	MW	South	Fran Pierson residence sample location.
5-23	June 26, 2006	1400	MW	Down	Joe Garza residence sample location.
5-24	June 26, 2006	1420	MW	West	Jerry Hoskins residence sample location.
5-25	June 26, 2006	1450	MW	North	Jeremy Anderson residence sample location.
5-26	June 26, 2006	1500	MW	West	Mike Lindsay residence sample location.
5-27	June 26, 2006	1520	MW	North	Tracy Parr residence (sample location inside house).

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
5-28	June 26, 2006	1545	MW	South	Les Nee residence sample location.
5-29	June 26, 2006	1610	MW	South	Gary Clemensen residence sample location.
5-30	June 26, 2006	1615	MW	West	Dale Luiten residence sample location.
6-1	August 22, 2006	0855	MW	South	Chris Fitzpatrick residence sample location.
6-2	August 22, 2006	0910	MW	South	Brenda Deshazer residence sample location.
6-3	August 22, 2006	0930	MW	West	Alex Murphy residence sample location.
6-4	August 22, 2006	0955	MW	North	Jeremy Anderson residence sample location.
6-5	August 22, 2006	1005	MW	West	Jerry Hoskins residence sample location.
6-6	August 22, 2006	1017	MW	South	Mike Lindsay residence sample location.
6-7	August 22, 2006	1032	MW	West	Buddi Williams residence sample location.
6-8	August 22, 2006	1120	MW	North	Richard Allen residence sample location.
6-9	August 22, 2006	1130	MW	North	Travis Green residence sample location.
6-10	August 22, 2006	1200	MW	South	Jess Colvin residence sample location.
6-11	August 22, 2006	1220	MW	South	Pete Pedersen residence sample location.
6-12	August 22, 2006	1240	MW	West	Susan Pedersen residence sample location.
6-13	August 22, 2006	1300	MW	West	Ken Jones residence sample location.
6-14	August 22, 2006	1345	MW	North	Melvin Hall residence sample location.
6-15	August 22, 2006	1405	MW	Southwest	Melvin Hall spring sample location.
6-16	August 22, 2006	1415	MW	Southeast	Ben Echelbarger sample location.
6-17	August 22, 2006	1430	MW	Southeast	Ron Thompson residence sample location.
6-18	August 22, 2006	1505	MW	West	Christine Snow residence sample location.
6-19	August 22, 2006	1530	MW	Northeast	Kyle Stevens residence sample location.
6-20	August 22, 2006	1545	MW	South	Jorgene Eastman residence sample location.
7-1	September 14, 2006	1000	MW	North	MW01 sample location.
7-2	September 14, 2006	1100	MW	Northwest	MW02 sample location.
7-3	September 14, 2006	1200	MW	Northwest	MW03 sample location.
7-4	September 14, 2006	1300	MW	North	MW04 sample location.
7-5	September 14, 2006	1400	MW	South	Rick Williams residence sample location.
7-6	September 14, 2006	1420	MW	North	Codiga Well sample location.
7-7	September 14, 2006	1440	MW	Northwest	Julie Campbell residence sample location.
7-8	September 14, 2006	1500	MW	Southeast	Tim Nelson residence sample location.
7-9	September 14, 2006	1520	MW	Southeast	John Sullivan residence sample location.
7-10	September 14, 2006	1540	MW	Southeast	Judy Houghton residence sample location.
7-11	September 14, 2006	1600	MW	East	James Supinger residence sample location.
7-12	September 14, 2006	1620	MW	East	Diane Abbey residence sample location.
7-13	September 15, 2006	0640	MW	East	Ron Ahl residence sample location.
7-14	September 15, 2006	0700	MW	East	Hazel Ahl residence sample location.
7-15	September 15, 2006	0720	MW	East	Jerry Guhlke residence sample location.
7-16	September 15, 2006	0740	MW	East	Linda Seagle residence sample location.
7-17	September 15, 2006	0800	MW	North	Steve Hatcher residence sample location.
7-18	September 15, 2006	0820	MW	Southwest	Gary Clemenson residence sample location.
7-19	September 15, 2006	0840	MW	Southeast	Les Nee residence sample location.
7-20	September 15, 2006	0900	MW	Northeast	Tracy Parr residence sample location.
7-21	September 15, 2006	0920	MW	North	Mike Broderius residence sample location.
7-22	September 15, 2006	0940	MW	Northwest	Nancy Eldridge residence sample location.
7-23	September 15, 2006	1000	MW	West	Pat Weiner residence sample location.
7-24	September 15, 2006	1020	MW	North	Lisa Taylor residence sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
7-25	September 15, 2006	1040	MW	Down	Joe Garza residence sample location.
7-26	September 15, 2006	1100	MW	Northwest	Valla Melvin residence sample location.
7-27	September 15, 2006	1140	MW	Northwest	Chalmers/O'Reagan residence sample location.
7-28	September 15, 2006	1200	MW	North	Ed Burge residence sample location.
7-29	September 15, 2006	1340	MW	Northwest	Del Corey residence sample location.
7-30	September 15, 2006	1400	MW	Northwest	Cheryl McGilley residence sample location.
7-31	September 15, 2006	1420	MW	North	Ken Langford residence sample location.
7-32	September 15, 2006	1430	MW	West	Judy Mahoney residence sample location.
7-33	September 15, 2006	1450	MW	South	Fran Pierson residence sample location.
7-34	September 15, 2006	1500	MW	South	Mark Duncan residence sample location.
7-35	September 15, 2006	1520	MW	South	Shelee Brown residence sample location.
7-36	September 15, 2006	1540	MW	West	Mike Steinmetz residence sample location.
7-37	September 15, 2006	1600	MW	North	Genny Steinmetz residence sample location.
7-38	September 15, 2006	1620	MW	East	Wayne Engstrom residence sample location.
7-39	September 15, 2006	1640	MW	East	Lisa Nellis residence sample location.
8-1	December 13, 2006	1555	MW	East	Echelbarger residence sample location.
8-2	December 14, 2006	0725	MW	West	Sabatino residence sample location.
8-3	December 14, 2006	0745	MW	Northeast	Holmes residence sample location.
8-4	December 14, 2006	0800	MW	West	Schwartz residence sample location.
8-5	December 14, 2006	0830	MW	Northwest	Powers residence sample location.
8-6	December 14, 2006	0840	MW	North	Learn residence sample location.
8-7	December 14, 2006	0905	MW	East	Tom Taylor residence sample location.
8-8	December 14, 2006	0910	MW	Northeast	Tom Taylor barn sample location.
8-9	December 14, 2006	1020	MW	Southwest	Matusik well sample location.
8-10	December 14, 2006	1045	MW	North	Green residence sample location.
8-11	December 14, 2006	1155	MW	East	Hutterian Brethren Primary Well sample location.
8-12	December 14, 2006	1210	MW	North	Codiga treatment system.
8-13	December 14, 2006	1210	MW	North	Codiga treatment system.
8-14	December 14, 2006	1400	MW	Northeast	Keeble residence sample location.
8-15	December 14, 2006	1415	MW	West	Cogley residence sample location.
8-16	December 14, 2006	1435	MW	Southwest	Strope residence sample location.
8-17	December 14, 2006	1500	MW	Northwest	Houghton residence sample location.
8-18	December 14, 2006	1540	MW	North	Marr residence sample location.
8-19	December 14, 2006	1605	MW	West	Rodkey residence sample location.
8-20	December 14, 2006	1630	MW	North	Remmers residence sample location.
8-21	December 14, 2006	1700	MW	Southwest	Pace residence sample location.
8-22	December 14, 2006	1720	MW	East	Ontiveros residence sample location.
8-23	December 14, 2006	1800	MW	North	Justin Rhodes residence sample location.
8-24	December 14, 2006	1820	MW	South	Dale Rhodes residence sample location.
8-25	December 15, 2006	0725	MW	Southwest	Shollenberger residence sample location.
8-26	December 15, 2006	0740	MW	Northwest	Grennay residence sample location.
8-27	December 15, 2006	0805	MW	Southwest	Ahern residence sample location.
8-28	December 15, 2006	0820	MW	East	O 'Neill residence sample location.
8-29	December 15, 2006	0850	MW	Northeast	Rod Soom residence sample location.
8-30	December 15, 2006	0900	MW	North	John Soom residence sample location.
8-31	December 15, 2006	0915	MW	Southwest	Nolt residence sample location.
8-32	December 15, 2006	0925	MW	West	Dewitt residence sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
8-33	December 15, 2006	1000	MW	South	Hodges residence sample location.
8-34	December 15, 2006	1030	MW	Southeast	Nichols residence sample location.
8-35	December 15, 2006	1040	MW	Northwest	Sattler residence sample location 1.
8-36	December 15, 2006	1100	MW	Southwest	Rayburn (NW Microfilms) sample location.
8-37	December 15, 2006	1115	MW	Southwest	Clemenson residence sample location 2.
8-38	December 15, 2006	1130	MW	East	Hazel Ahl residence sample location.
9-1	April 16, 2007	0945	MW	South	Hutterian Brethren – chicken coop well sample location.
9-2	April 16, 2007	1005	MW	East	Hutterian Brethren – primary well sample location.
9-3	April 16, 2007	1045	MW	North	Rick Williams treatment system sample location.
9-4	April 16, 2007	1050	MW	Northwest	Rick Williams frost-free well (not sampled).
9-5	April 16, 2007	1120	MW	South	Codiga treatment system sample locations.
9-6	April 16, 2007	1140	MW	North	Euclid well sample location.
9-7	April 16, 2007	1200	MW	East	Hall treatment system sample locations.
9-8	April 16, 2007	1220	MW	East	Ben Echelbarger sample location.
9-9	April 16, 2007	1300	MW	East	MW01 sample location.
9-10	April 16, 2007	1345	MW	East	MW02 sample location.
9-11	April 16, 2007	1420	MW	East	MW03 sample location.
9-12	April 16, 2007	1500	MW	West	MW04 sample location.
10-1	May 23, 2007	1010	MW	Southeast	Ron Thompson residence sample location.
10-2	May 23, 2007	1020	MW	Down	Pond downstream from surface water sample location.
10-3	May 23, 2007	1020	MW	Down	Surface water sample location.
10-4	May 23, 2007	1020	MW	Down	Surface water sample location and pond.
10-5	May 23, 2007	1140	MW	East	Gore™ Module locations near Hutterite Primary Well.
10-6	May 23, 2007	1230	MW	Southeast	Gore™ Module location near MW01.
10-7	May 23, 2007	1300	MW	Southeast	Gore™ Module locations near MW02.
10-8	May 23, 2007	1300	MW	North	Gore™ Module locations near MW02.
11-1	June 10, 2007	1830	MW	East	Gore™ Module locations near MW02.
11-2	June 10, 2007	1850	MW	Southeast	Gore™ Module locations near MW01.
11-3	June 10, 2007	1915	MW	East	Gore™ Module locations near Hutterite Primary Well.
11-4	June 11, 2007	0600	MW	South	Cravens residence sample location.
11-5	June 11, 2007	0620	MW	Down	Fell-Bradford residence sample location.
11-6	June 11, 2007	0645	MW	East	Powers residence sample location.
11-7	June 11, 2007	0655	MW	East	Learn residence sample location.
11-8	June 11, 2007	0715	MW	Northeast	Lisa Taylor residence sample location.
11-9	June 11, 2007	0730	MW	North	Greene residence sample location.
11-10	June 11, 2007	0750	MW	North	Geisinger residence sample location.
11-11	June 11, 2007	0805	MW	North	Eldridge residence sample location.
11-12	June 11, 2007	0815	MW	North	Broderius residence sample location.
11-13	June 11, 2007	0835	MW	East	Cleveland residence sample location.
11-14	June 11, 2007	0900	MW	North	Allen residence sample location.
11-15	June 11, 2007	0925	MW	Southwest	Weiner residence sample location.
11-16	June 11, 2007	0940	MW	North	Rod Soom residence sample location.
11-17	June 11, 2007	1000	MW	North	John Soom residence sample location.
11-18	June 11, 2007	1030	MW	West	Lindsay residence sample location.
11-19	June 11, 2007	1045	MW	South	Fitzpatrick residence sample location.
11-20	June 11, 2007	1105	MW	East	Deshazer residence sample location.
11-21	June 11, 2007	1120	MW	Southeast	Anderson residence sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
11-22	June 11, 2007	1135	MW	Northwest	Buddi Williams residence sample location.
11-23	June 11, 2007	1205	MW	South	Chaka residence sample location.
11-24	June 11, 2007	1225	MW	West	Hoskins residence sample location.
11-25	June 11, 2007	1250	MW	North	Clouse residence sample location.
11-26	June 11, 2007	1415	MW	South	Slemp residence sample location.
11-27	June 11, 2007	1425	MW	East	Wyatt residence sample location.
11-28	June 11, 2007	1430	MW	East	Tueller residence sample location.
11-29	June 11, 2007	1445	MW	North	Knezovich residence sample location.
11-30	June 11, 2007	1510	MW	East	VanSickle/Beamer residences sample location.
11-31	June 11, 2007	1525	MW	West	Allbee residence sample location.
11-32	June 11, 2007	1600	MW	West	Matusik residence sample location.
11-33	June 11, 2007	1615	MW	Northwest	Cogley residence sample location.
11-34	June 12, 2007	0600	MW	South	Codiga sample location.
11-35	June 12, 2007	0630	MW	West	Hicks residence sample location.
11-36	June 12, 2007	0645	MW	East	Tom Taylor residence sample location.
11-37	June 12, 2007	0705	MW	West	Campbell residence sample location.
11-38	June 12, 2007	0720	MW	North	Jeff Supinger residence sample location.
11-39	June 12, 2007	0740	MW	East	James Supinger residence sample location.
11-40	June 12, 2007	0800	MW	Southwest	Pederson residence sample location.
11-41	June 12, 2007	0815	MW	West	Ken Jones residence sample location.
11-42	June 12, 2007	0835	MW	East	Ron Thompson residence sample location.
11-43	June 12, 2007	0855	MW	West	Eugene Thompson residence sample location.
11-44	June 12, 2007	0915	MW	East	Ben Echelbarger residence sample location.
11-45	June 12, 2007	0940	MW	North	Melvin Hall residence sample location.
11-46	June 12, 2007	1000	MW	South	Duane Perin residence sample location.
11-47	June 12, 2007	1010	MW	Northeast	Michael Perin residence sample location.
11-48	June 12, 2007	1035	MW	Northwest	Justin Rhodes residence sample location.
11-49	June 12, 2007	1050	MW	West	Dale Rhodes residence sample location.
11-50	June 12, 2007	1120	MW	North	Bud Remmers residence sample location.
11-51	June 12, 2007	1135	MW	East	Hutterite Primary Well sample location.
11-52	June 12, 2007	1155	MW	North	Bigler residence sample location.
11-53	June 12, 2007	1215	MW	East	Lloyd residence sample location.
11-54	June 12, 2007	1240	MW	East	Steele residence sample location.
11-55	June 12, 2007	1350	MW	South	Ahern residence sample location.
11-56	June 12, 2007	1420	MW	West	Snow residence sample location.
11-57	June 12, 2007	1440	MW	Down	Mahoney residence sample location.
11-58	June 12, 2007	1500	MW	Northwest	Jason Echelbarger residence sample location.
11-59	June 12, 2007	1520	MW	West	Houghton residence sample location.
11-60	June 12, 2007	1540	MW	South	John Sullivan residence sample location.
11-61	June 12, 2007	1600	MW	Northwest	Dewey residence sample location.
11-62	June 12, 2007	1620	MW	Down	Nelson residence sample location.
11-63	June 12, 2007	1640	MW	East	Stevens residence sample location.
11-64	June 13, 2007	0600	MW	South	Nichols residence sample location.
11-65	June 13, 2007	0620	MW	West	McNair residence sample location.
11-66	June 13, 2007	0625	MW	East	Guhlke residence sample location.
11-67	June 13, 2007	0645	MW	East	Seagle residence sample location.
11-68	June 13, 2007	0700	MW	East	Hazel Ahl residence sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
11-69	June 13, 2007	0710	MW	East	Ron Ahl residence sample location.
11-70	June 13, 2007	0750	MW	North	Grennay residence sample location.
11-71	June 13, 2007	0810	MW	West	Jorstad residence sample location.
11-72	June 13, 2007	0815	MW	East	Shores residence sample location.
11-73	June 13, 2007	0850	MW	South	O'Neill residence sample location.
11-74	June 13, 2007	0820	MW	East	Shollenberger residence sample location.
11-75	June 13, 2007	0900	MW	East	Adolf residence sample location.
11-76	June 13, 2007	0950	MW	South	Northwest Microfilms sample location.
11-77	June 13, 2007	1015	MW	North	Horn residence sample location.
11-78	June 13, 2007	1030	MW	East	Strope residence sample location.
11-79	June 13, 2007	1100	MW	South	Eastman residence sample location.
11-80	June 13, 2007	1120	MW	North	Logsdon residence sample location.
11-81	June 13, 2007	1140	MW	West	Sattler residence sample location.
11-82	June 13, 2007	1200	MW	South	Rodkey residence sample location.
11-83	June 13, 2007	1220	MW	West	Helmer residence sample location.
11-84	June 13, 2007	1240	MW	East	Nee residence sample location.
11-85	June 13, 2007	1300	MW	North	Parr residence sample location.
11-86	June 13, 2007	1320	MW	Southwest	Hatcher residence sample location.
11-87	June 13, 2007	1325	MW	West	Ikehara residence sample location.
11-88	June 13, 2007	1405	MW	South	Bettcher residence sample location.
11-89	June 13, 2007	1410	MW	East	Rucker residence sample location.
11-90	June 13, 2007	1430	MW	East	Snelling residence sample location.
11-91	June 13, 2007	1450	MW	South	Pederson residence sample location.
11-92	June 13, 2007	1520	MW	East	Mangold residence sample location.
11-93	June 13, 2007	1540	MW	East	Ontiveros residence sample location.
11-94	June 13, 2007	1610	MW	North	Maher residence sample location.
11-95	June 13, 2007	1640	MW	South	Rex Steinmetz residence sample location.
11-96	June 14, 2007	0550	MW	West	Nellis residence sample location.
11-97	June 14, 2007	0615	MW	East	Holmes residence sample location.
11-98	June 14, 2007	0635	MW	West	Gauna residence sample location.
11-99	June 14, 2007	0655	MW	North	Brown residence sample location.
11-100	June 14, 2007	0720	MW	South	Engstrom residence sample location.
11-101	June 14, 2007	0755	MW	North	Genny Steinmetz residence sample location.
11-102	June 14, 2007	0805	MW	West	Jones residence sample location.
11-103	June 14, 2007	0825	MW	West	Schwartz residence sample location.
11-104	June 14, 2007	0900	MW	Northwest	Chalmers/O'Reagan residence sample location.
11-105	June 14, 2007	0920	MW	North	Melvin residence sample location.
11-106	June 14, 2007	0940	MW	North	Luiten residence sample location.
11-107	June 14, 2007	1025	MW	North	Burge residence sample location.
11-108	June 14, 2007	1020	MW	South	Pace residence sample location.
11-109	June 14, 2007	1040	MW	West	Sabatino residence sample location.
11-110	June 14, 2007	1105	MW	East	Cooper residence sample location.
11-111	June 14, 2007	1120	MW	Northwest	Warner residence sample location.
11-112	June 14, 2007	1155	MW	Down	Garza residence sample location.
11-113	June 14, 2007	1205	MW	West	Corey residence sample location.
11-114	June 14, 2007	1215	MW	West	Hanratty residence sample location.
11-115	June 14, 2007	1240	MW	West	McGilley residence sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
11-116	June 14, 2007	1250	MW	North	Langford residence sample location.
11-117	June 14, 2007	1300	MW	South	Hodges residence sample location.
11-118	June 14, 2007	1325	MW	West	Duncan residence sample location.
11-119	June 14, 2007	1345	MW	East	DeWitt residence sample location.
11-120	June 14, 2007	1415	MW	West	Houghton residence sample location.
11-121	June 14, 2007	1430	MW	South	Nolt residence sample location.
11-122	June 14, 2007	1450	MW	South	Keeble residence sample location.
11-123	June 14, 2007	1515	MW	North	Eastern State Hospital sample location.
11-124	June 14, 2007	1545	MW	South	Clouse backup tank sample location.
12-1	October 22, 2007	0925	MW	East	Drilling at MW05.
12-2	October 22, 2007	1145	MW	East	Drilling at MW05.
12-3	October 23, 2007	0830	MW	Southeast	Drilling at MW06.
12-4	October 23, 2007	0830	MW	Southeast	Drilling at MW06.
12-5	October 23, 2007	0830	MW	East	Drilling at MW06.
12-6	October 23, 2007	1300	MW	Southeast	Drilling at MW07.
12-7	October 23, 2007	1300	MW	East	Drilling at MW07.
12-8	October 24, 2007	0825	MW	South	Codiga sample location.
12-9	October 24, 2007	0950	MW	East	Ben Echelbarger residence sample location.
12-10	October 24, 2007	1020	MW	East	Hall treatment system sample location.
12-11	October 25, 2007	0810	MW	South	Location of MW08 (approximate center of photo in field).
12-12	October 25, 2007	0820	MW	West	Location of Gore™ Modules near Codiga property.
12-13	October 25, 2007	0824	MW	South	Location of Gore™ Modules near Bigler residence.
12-14	October 25, 2007	0827	MW	South	Location of Gore™ Modules at Remmers residence.
12-15	October 25, 2007	0832	MW	North	Gore™ Modules near Wood Road north of driveway.
12-16	October 25, 2007	0833	MW	South	Gore™ Modules near Wood Road south of driveway.
12-17	October 25, 2007	0841	MW	Southwest	Location of Gore™ Modules near cow pens.
12-18	October 25, 2007	0845	MW	West	Location of Gore™ Modules vegetable garden.
12-19	November 7, 2007	0850	MW	East	Location of Gore™ Modules near Codiga property.
12-20	November 7, 2007	0900	MW	North	Location of Gore™ Modules near Bigler residence.
12-21	November 7, 2007	0915	MW	South	Location of Gore™ Modules at Remmers residence.
12-22	November 7, 2007	0930	MW	North	Gore™ Modules near Wood Road north of driveway.
12-23	November 7, 2007	0930	MW	South	Gore™ Modules near Wood Road south of driveway.
12-24	November 7, 2007	0950	MW	East	Location of Gore™ Modules near vegetable garden.
13-1	June 29, 2009	0910	MW	Southeast	Eugene Thompson downstairs air sample location.
13-2	June 29, 2009	0912	MW	Down	Eugene Thompson upstairs air sample location
13-3	June 29, 2009	0915	MW	Southwest	Eugene Thompson outdoors (background) air sample location
13-4	June 29, 2009	0950	MW	Southwest	Hall outdoors (background) air sample location
13-5	June 29, 2009	0958	MW	Down	Hall upstairs air sample location
13-6	June 30, 2009	0810	MW	Southeast	MW01 sample location.
13-7	June 30, 2009	1030	MW	Southeast	MW02 sample location.
13-8	June 30, 2009	1120	MW	Northeast	Thompson water treatment system.
13-9	June 30, 2009	1150	MW	Southeast	Echelbarger sample location.
13-10	June 30, 2009	1155	MW	Southeast	MW04 sample location.
13-11	June 30, 2009	1215	MW	Northeast	MW05 sample location.
13-12	June 30, 2009	1300	MW	Southeast	MW06 sample location.
13-13	June 30, 2009	1330	MW	Down	MW07 sample location.
13-14	June 30, 2009	1405	MW	East	Ron Thompson sample location.

PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial Number: Personal Digital **TDD Number:** 06-09-0002

Lens Type: 35 millimeter **Site Name:** Euclid Road TCE Monitoring Site

Photo	Date	Time	By	Direction	Description
13-15	June 30, 2009	1415	MW	West	MW08 sample location.

Note: All photographs were taken by Mark Woodke (MW).

Photo 1-1

Photo 1-2

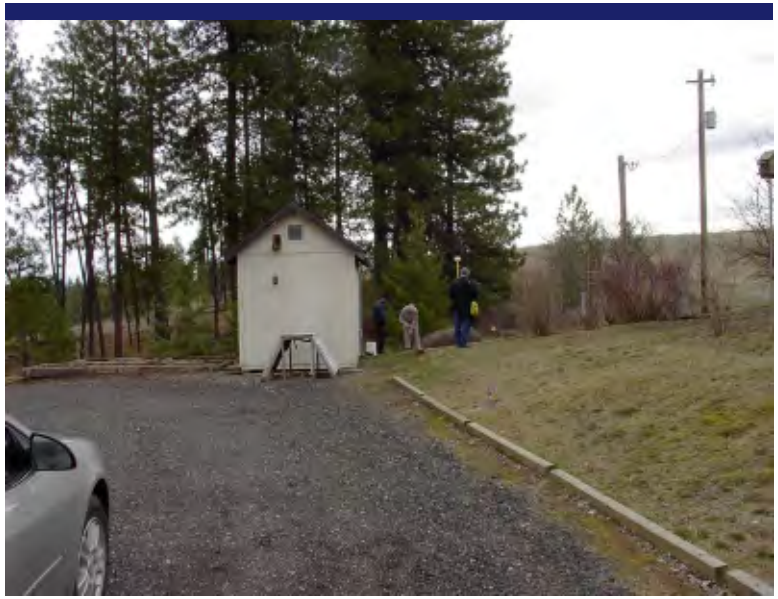


Photo 1-3

Photo 1-4

Photo 1-5

Photo 1-6

Photo 1-7

Photo 1-8

Photo 1-9

Photo 1-10

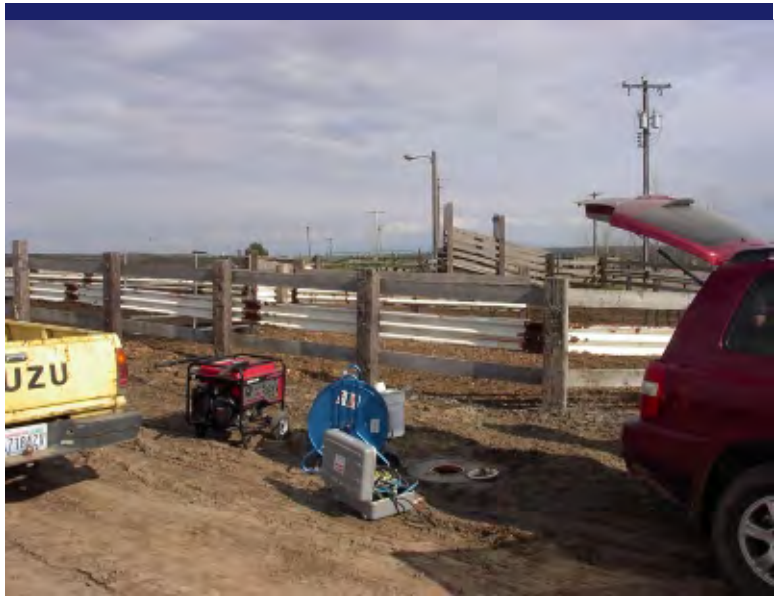


Photo 1-11

Photo 1-12

Photo 2-1

Photo 2-2

Photo 2-3

Photo 2-4

Photo 2-5

Photo 2-6

Photo 2-7

Photo 2-8

Photo 2-9

Photo 2-10

Photo 2-11

Photo 2-12

Photo 2-13

Photo 2-14

Photo 2-15

Photo 2-16

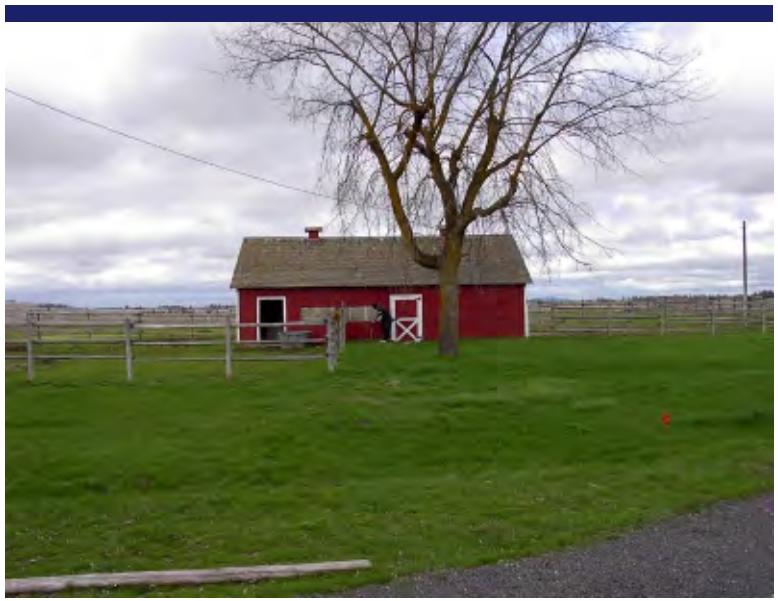


Photo 2-17

Photo 2-18

Photo 2-19

Photo 3-1

Photo 3-2

Photo 3-3

Photo 3-4

Photo 3-5

Photo 3-6

Photo 3-7

Photo 3-8

Photo 4-1

Photo 4-2

Photo 4-3

Photo 4-4

Photo 4-5

Photo 4-6

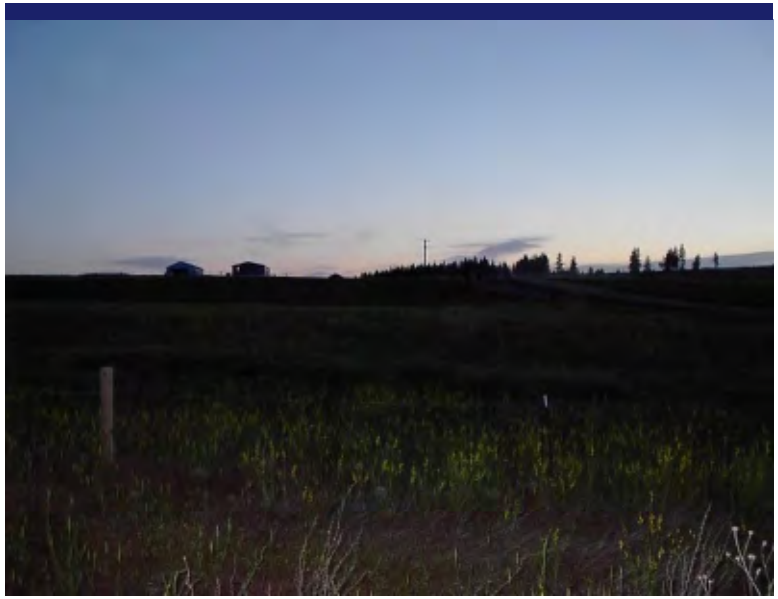


Photo 4-7

Photo 4-8

Photo 4-9

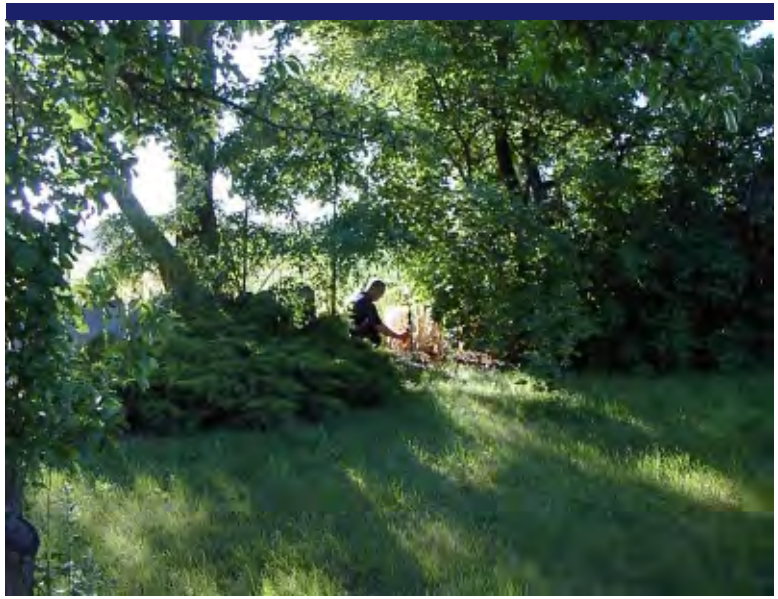


Photo 4-10

Photo 4-11

Photo 4-12

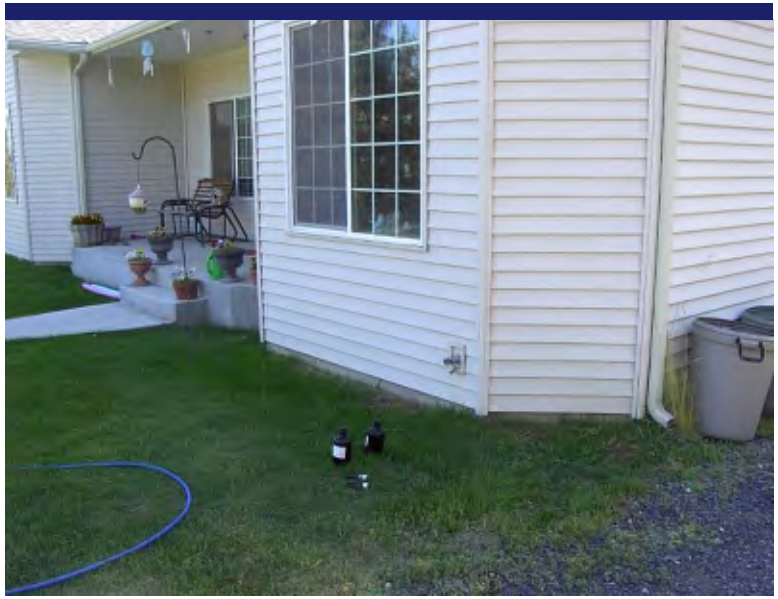


Photo 4-13

Photo 4-14

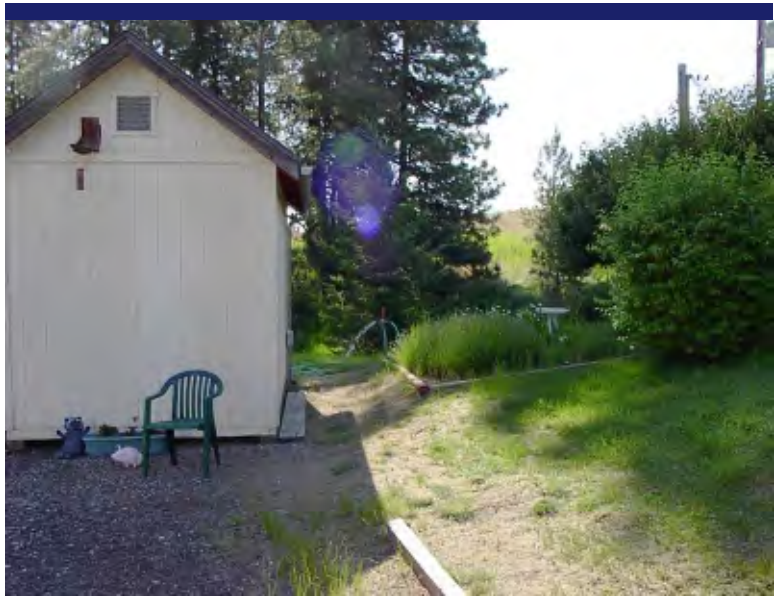


Photo 4-15

Photo 4-16

Photo 4-17

Photo 4-18

Photo 4-19

Photo 4-20

Photo 4-21

Photo 4-22

Photo 4-23

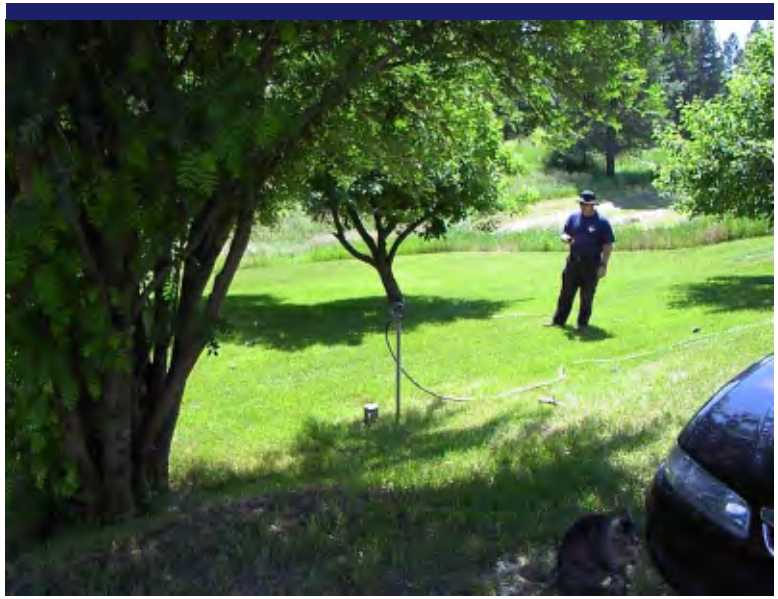


Photo 4-24

Photo 4-25

Photo 4-26

Photo 5-1

Photo 5-2

Photo 5-3

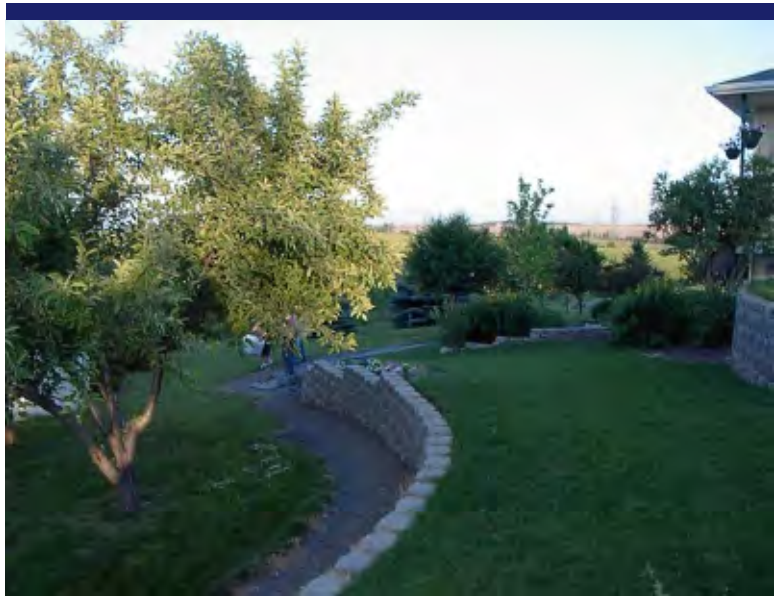


Photo 5-4

Photo 5-5

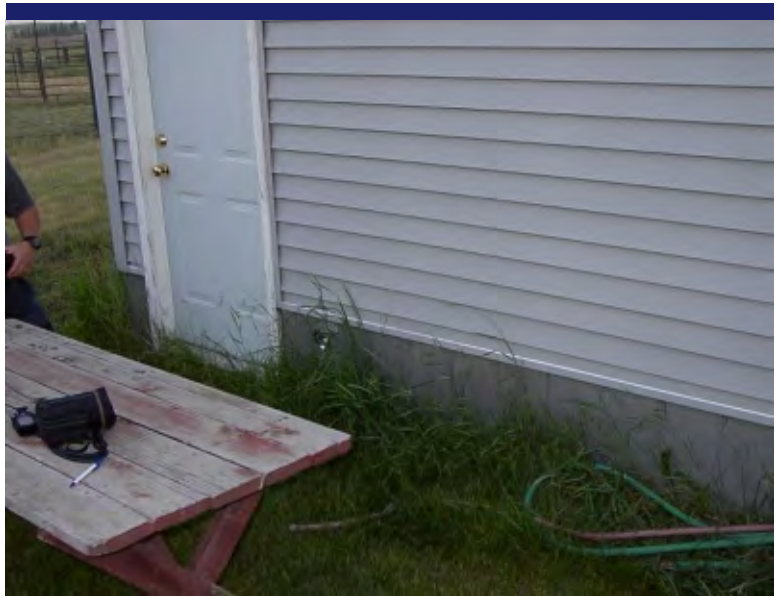


Photo 5-6

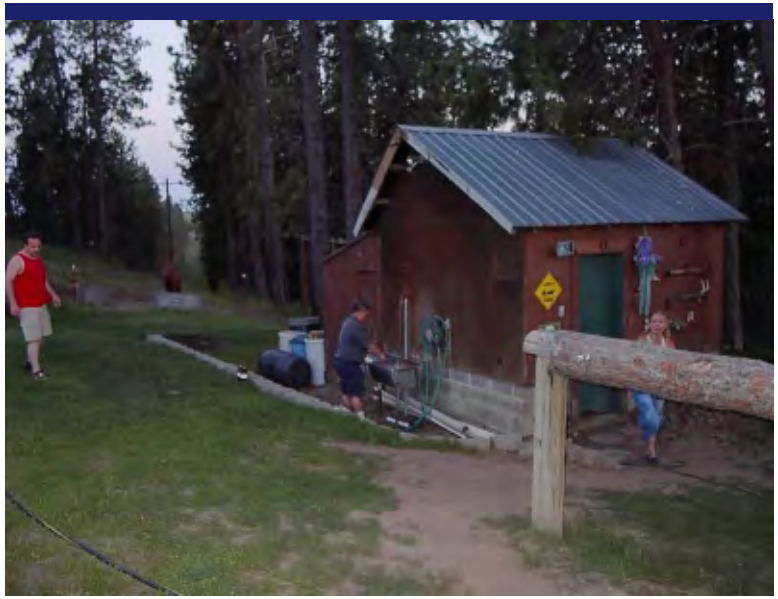


Photo 5-7

Photo 5-8

Photo 5-9

Photo 5-10

Photo 5-11

Photo 5-12

Photo 5-13

Photo 5-14

Photo 5-15

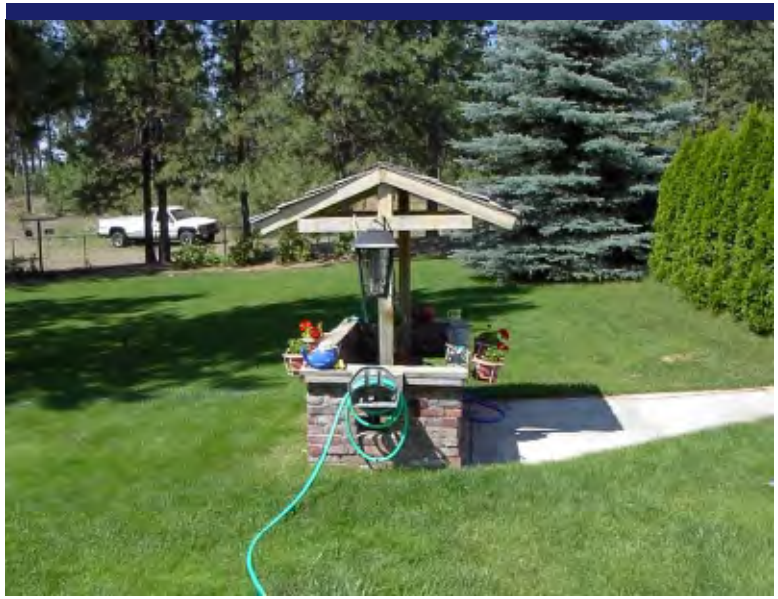


Photo 5-16

Photo 5-17

Photo 5-18

Photo 5-19

Photo 5-20

Photo 5-21

Photo 5-22

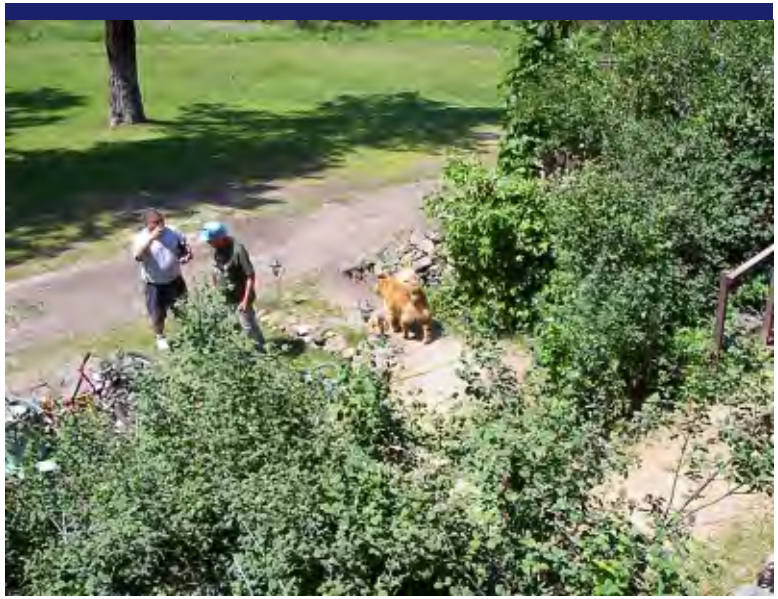


Photo 5-23

Photo 5-24

Photo 5-25

Photo 5-26

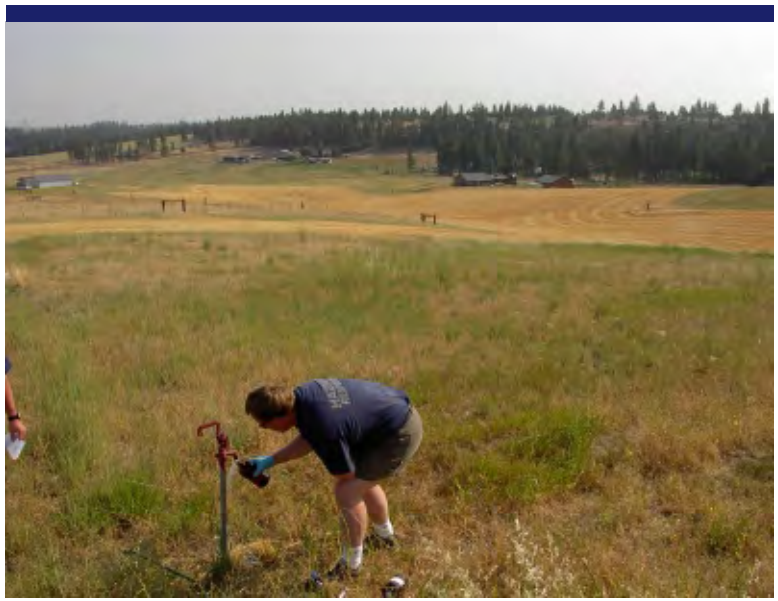
Photo 5-27

Photo 5-28

Photo 5-29

Photo 5-30

Photo 6-1



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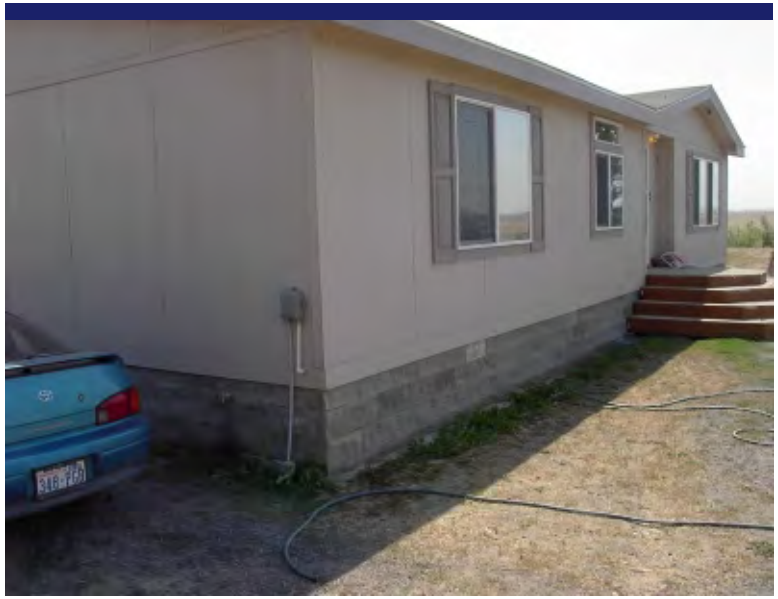

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Photo 6-12

Photo 6-13

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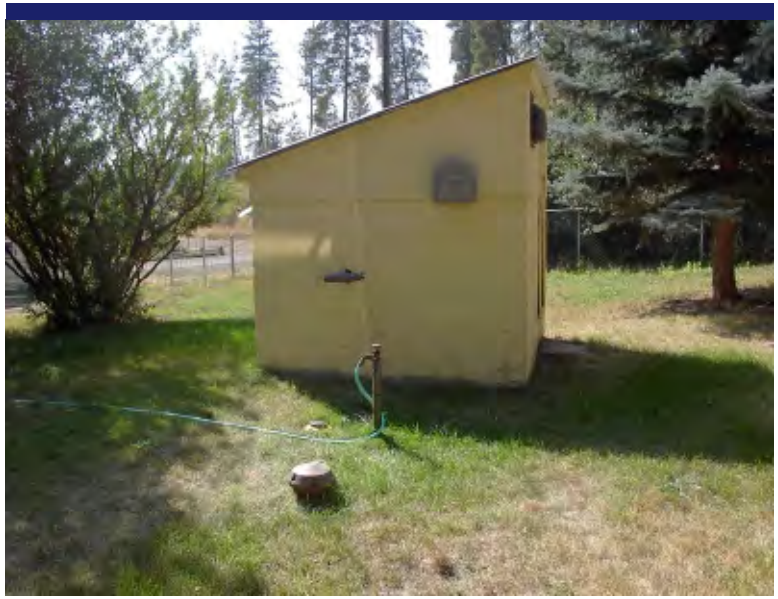

Photo 6-18

Photo 6-19

Photo 6-20

Photo 7-1

Photo 7-2

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Photo 7-7

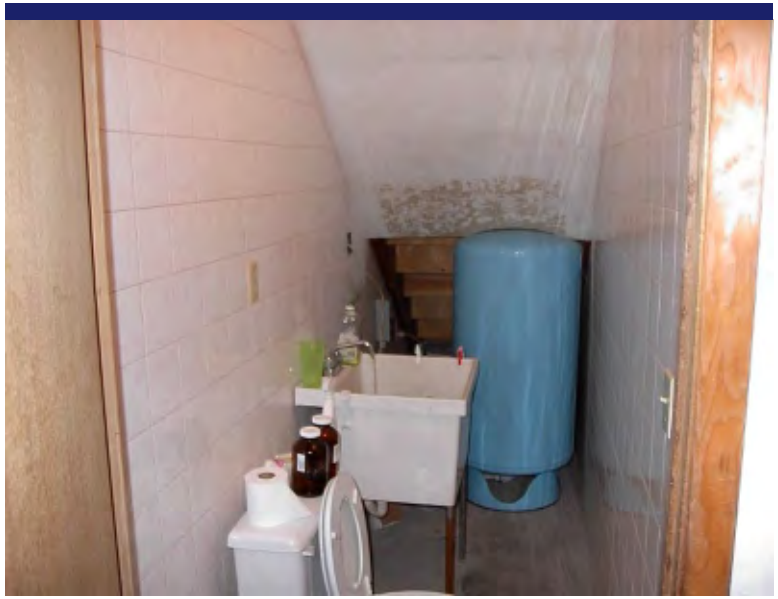
Photo 7-8

Photo 7-9

Photo 7-10

Photo 7-11

Photo 7-12



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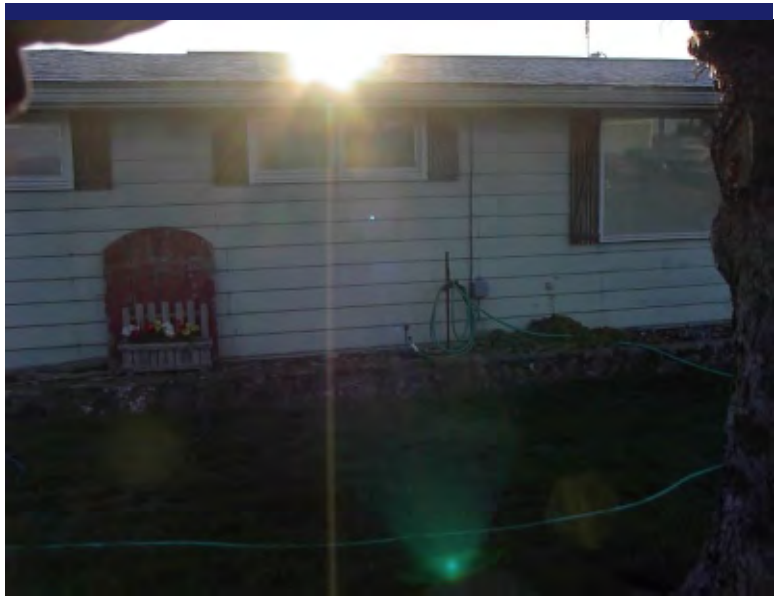

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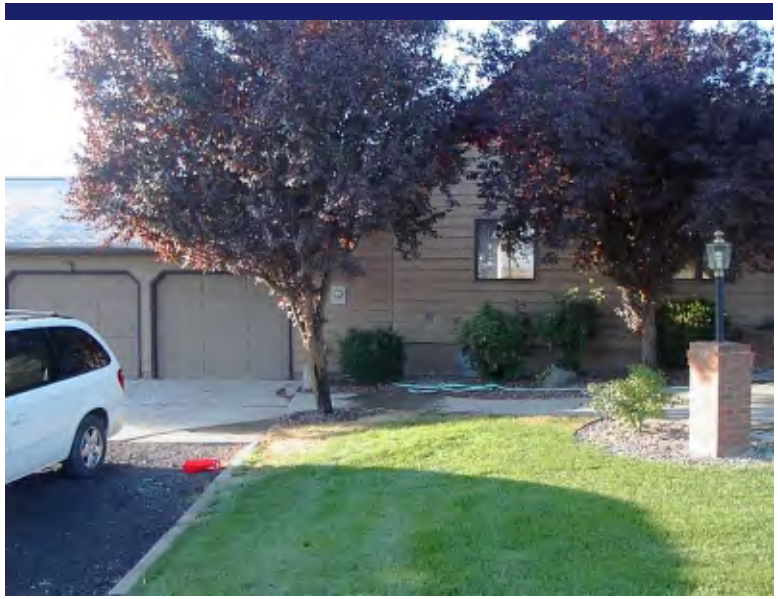

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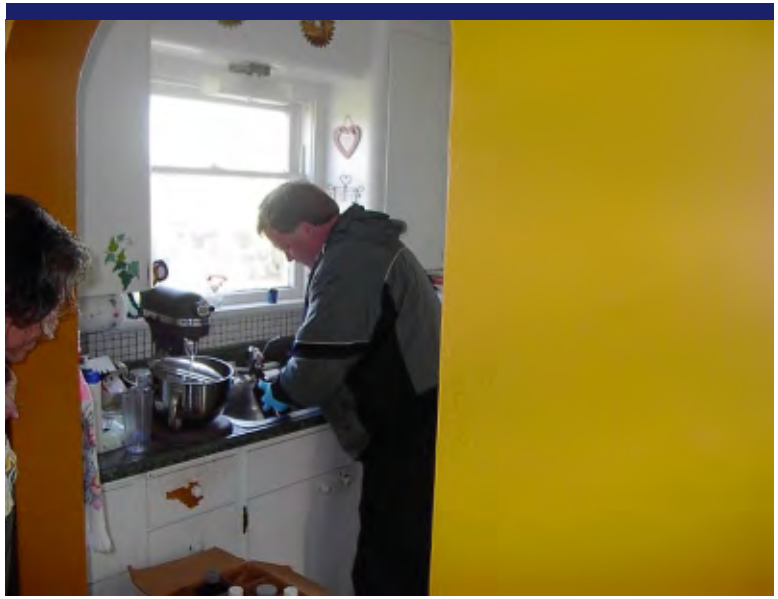

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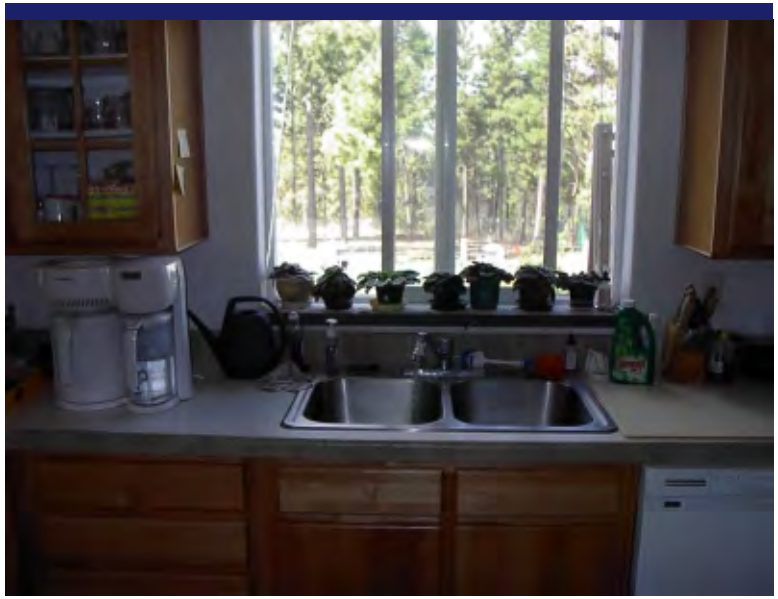

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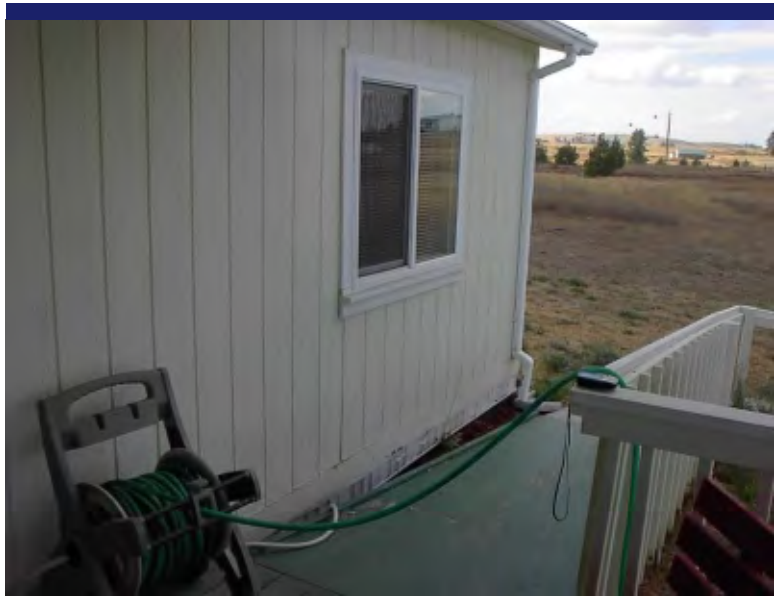

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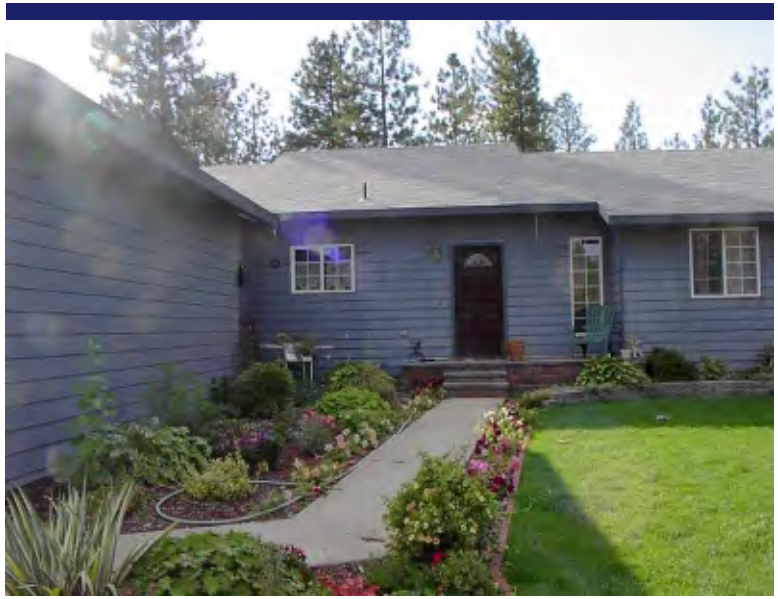

Photo 7-36

Photo 7-37

Photo 7-38

Photo 7-39

Photo 8-1

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Photo 8-7

Photo 8-8

Photo 8-9

Photo 8-10

Photo 8-11

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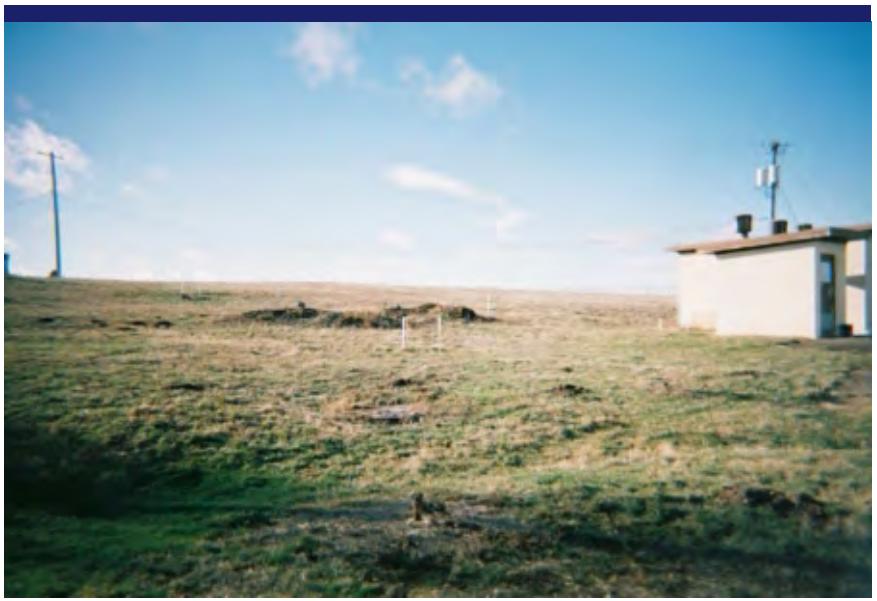

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Photo 8-37

Photo 8-38

Photo 9-1

Photo 9-2

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Photo 9-4

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Photo 9-9

Photo 9-10

Photo 9-11

Photo 9-12

Photo 10-1

Photo 10-2

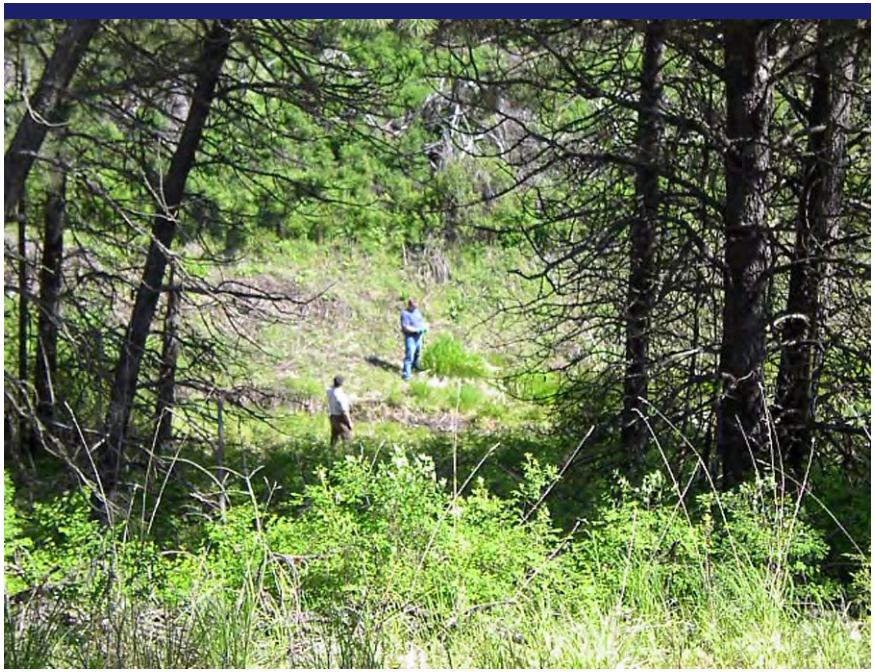

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Photo 11-1

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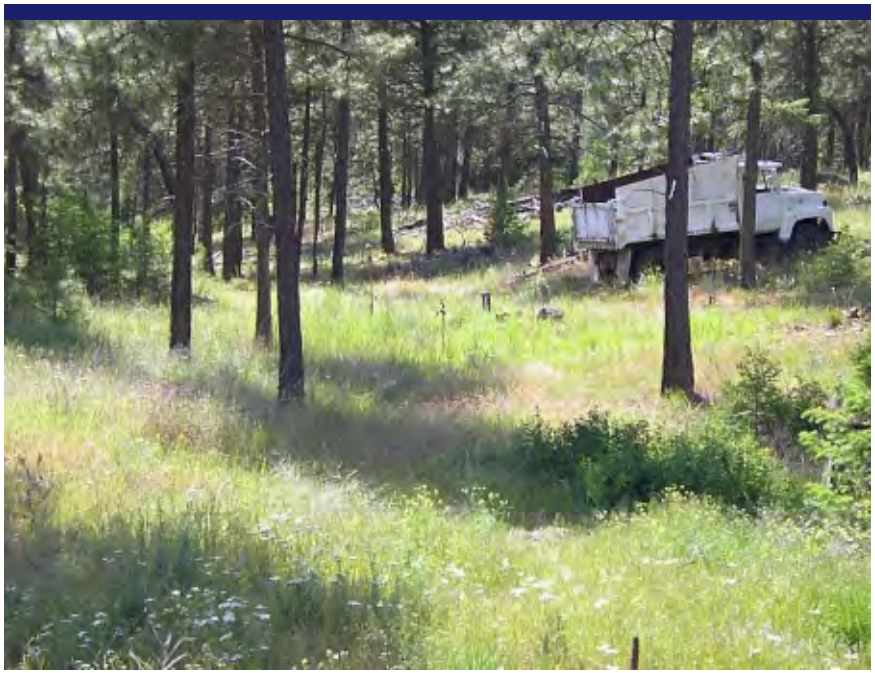

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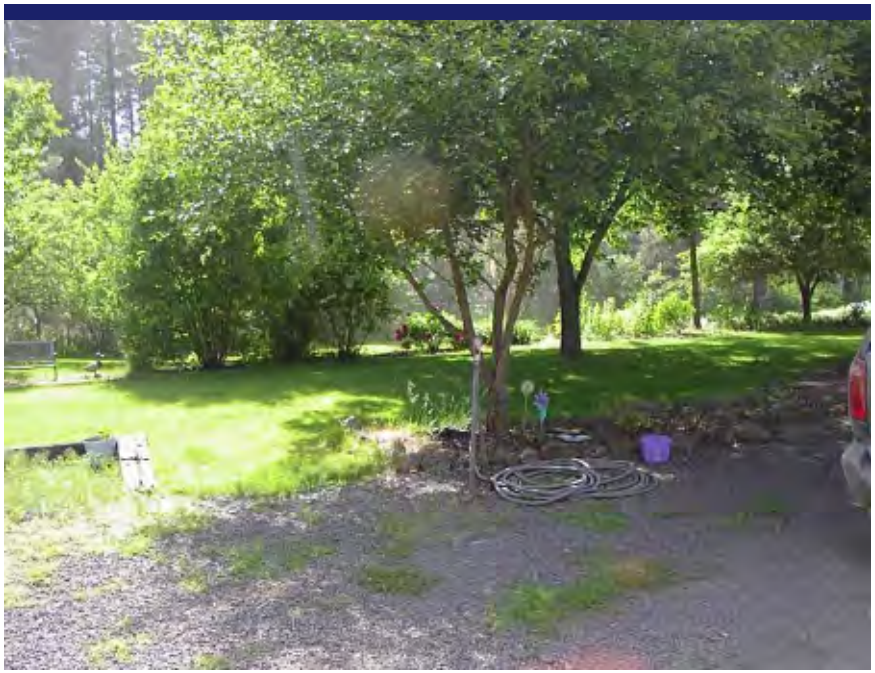

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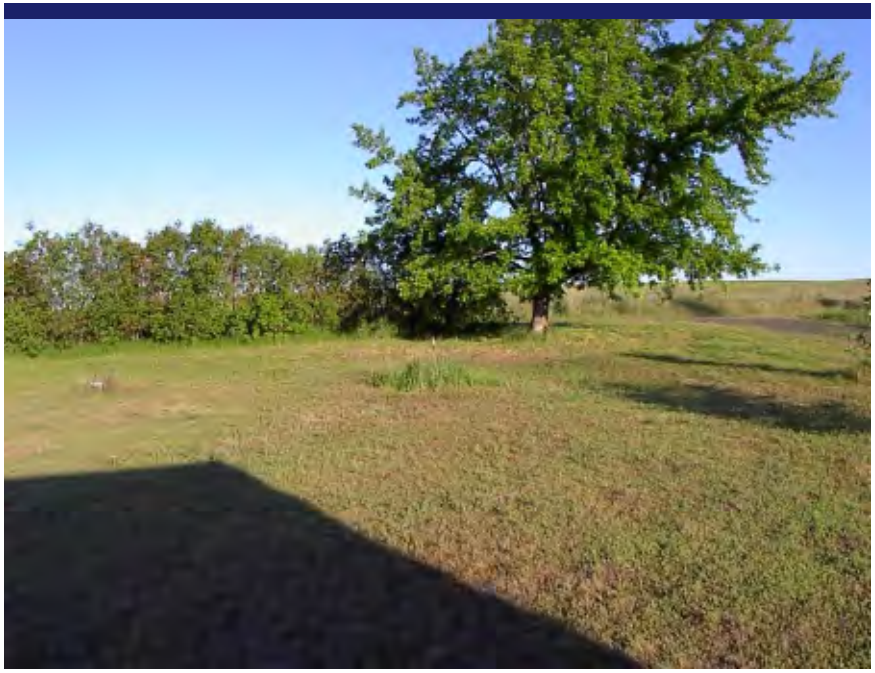

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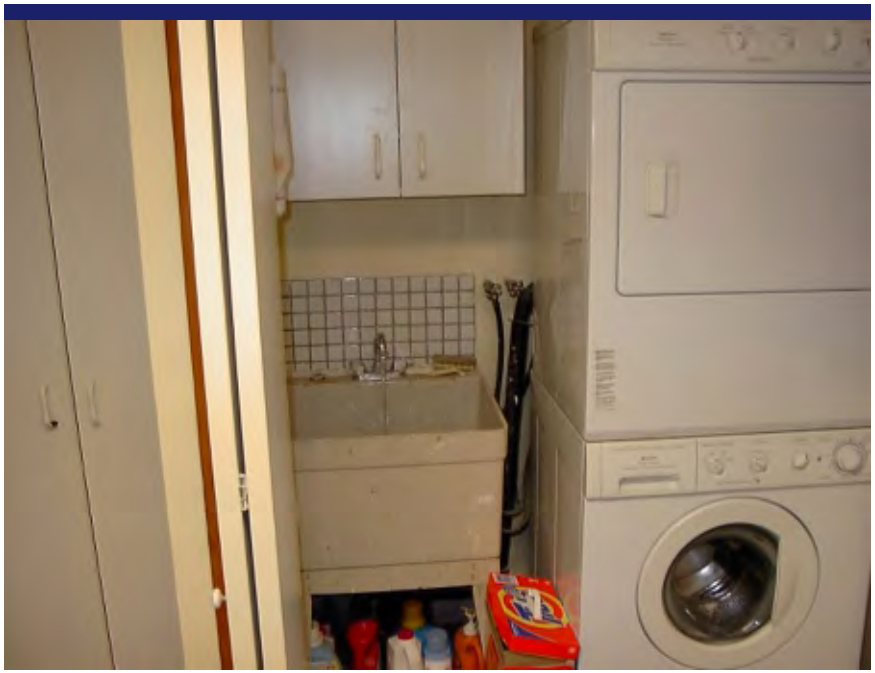

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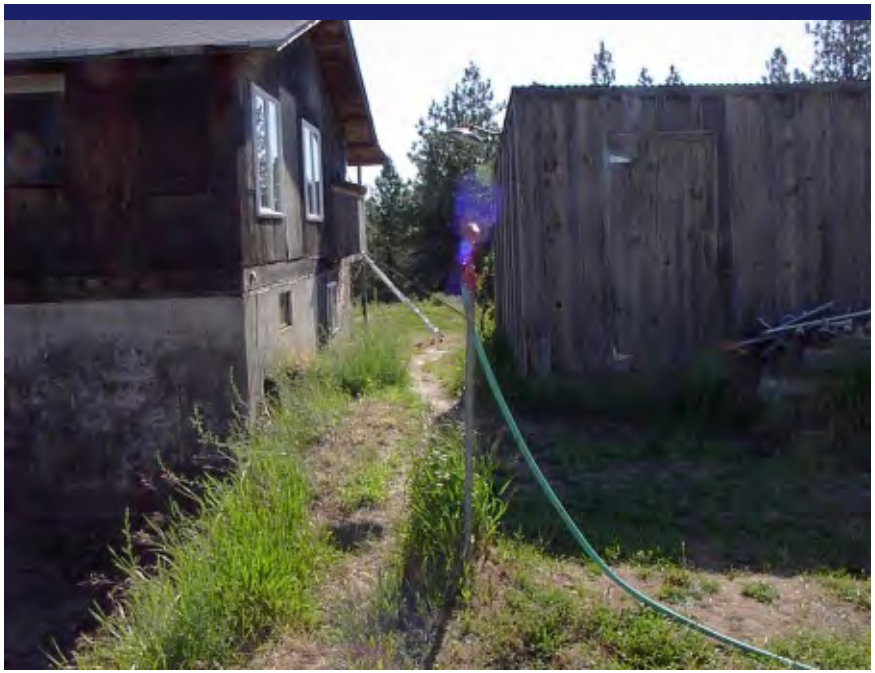

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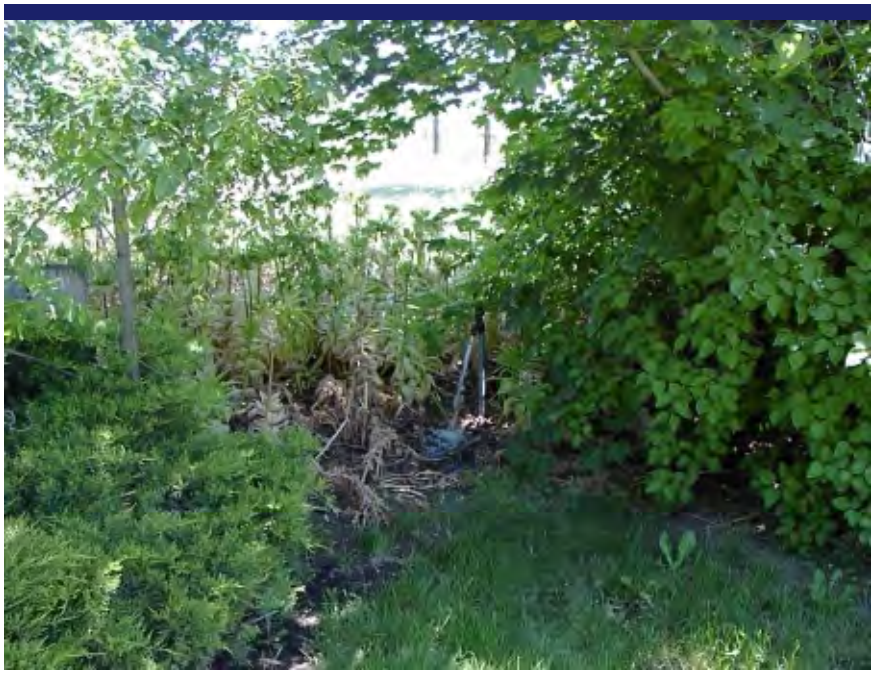

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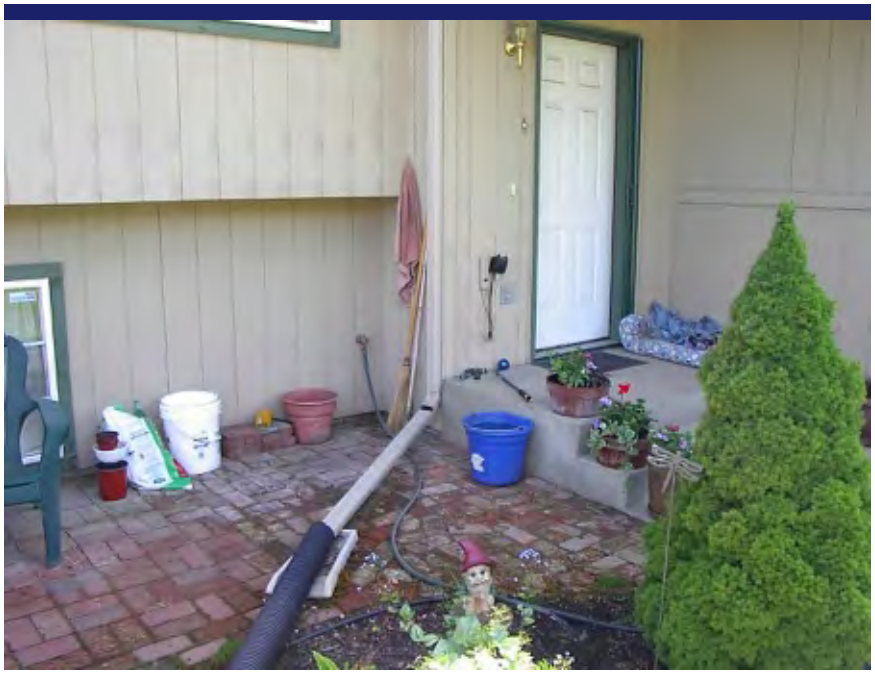

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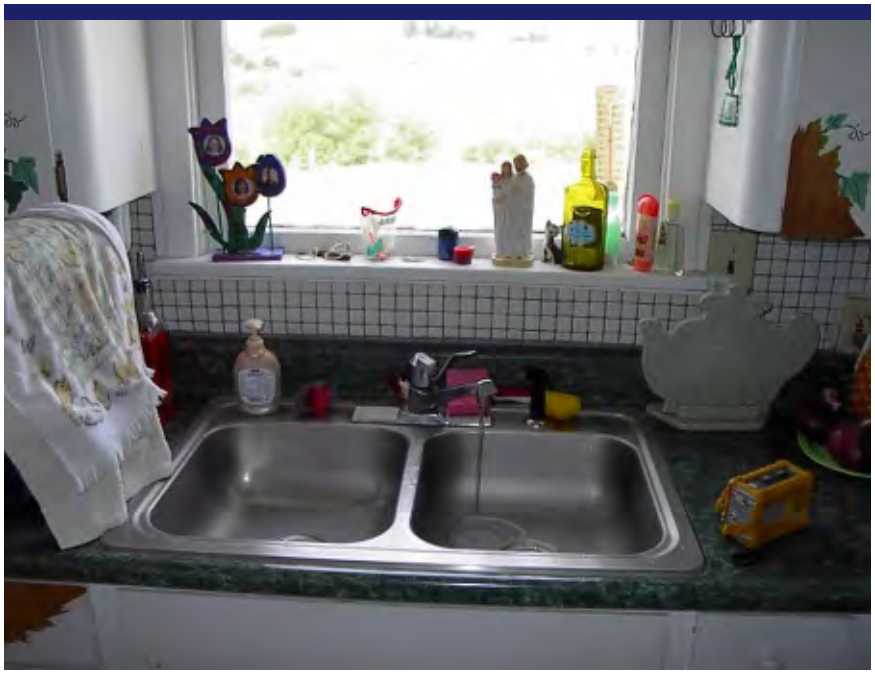

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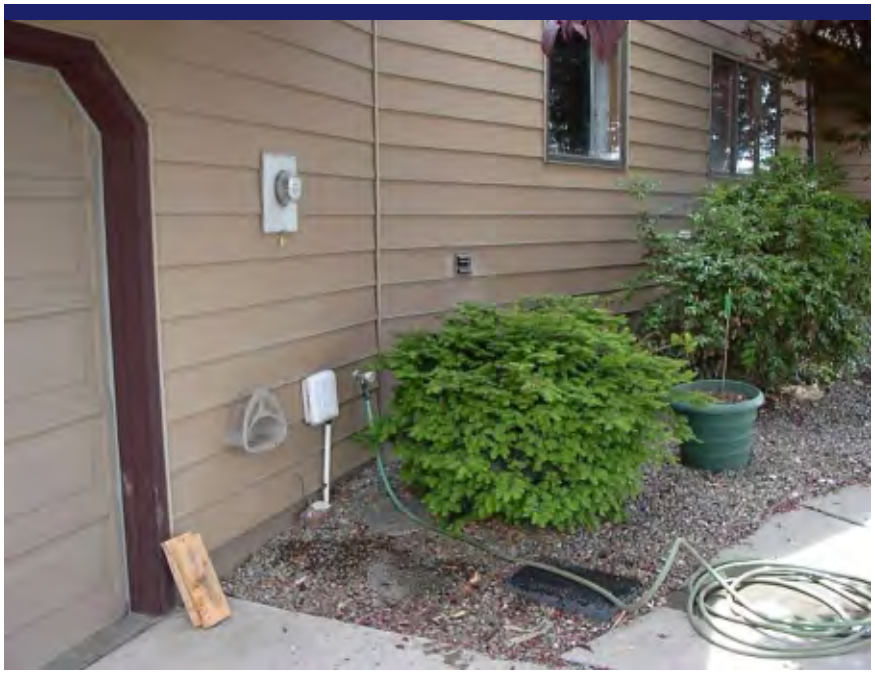

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Photo 11-93

Photo 11-94

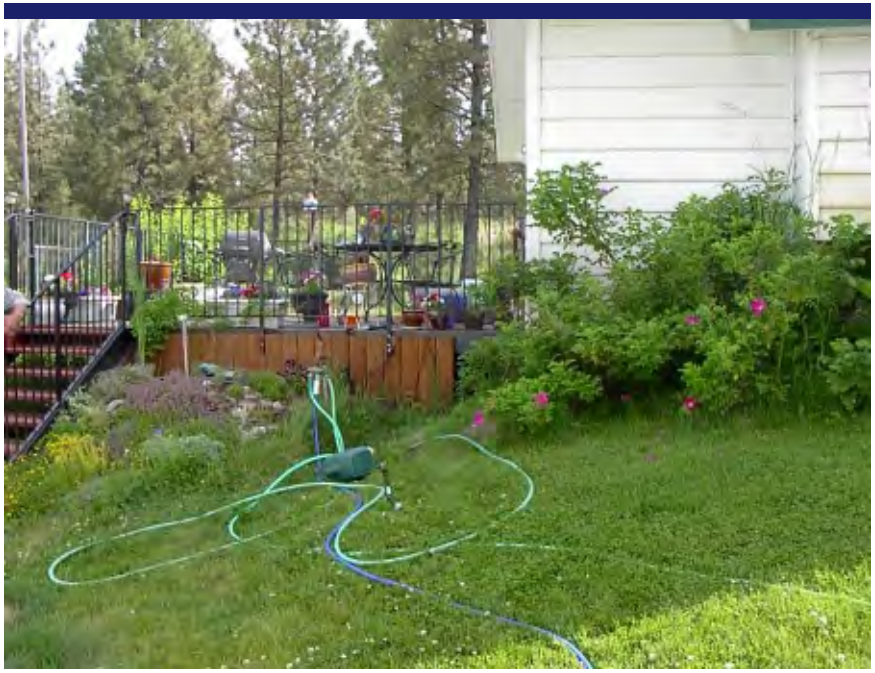

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Photo 11-99

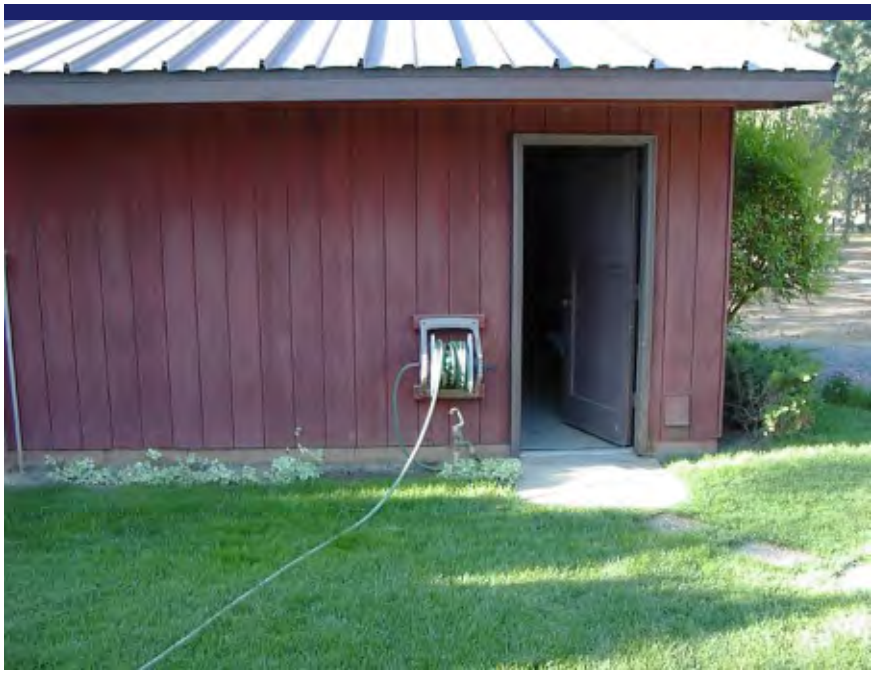

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Photo 11-102

Photo 11-103

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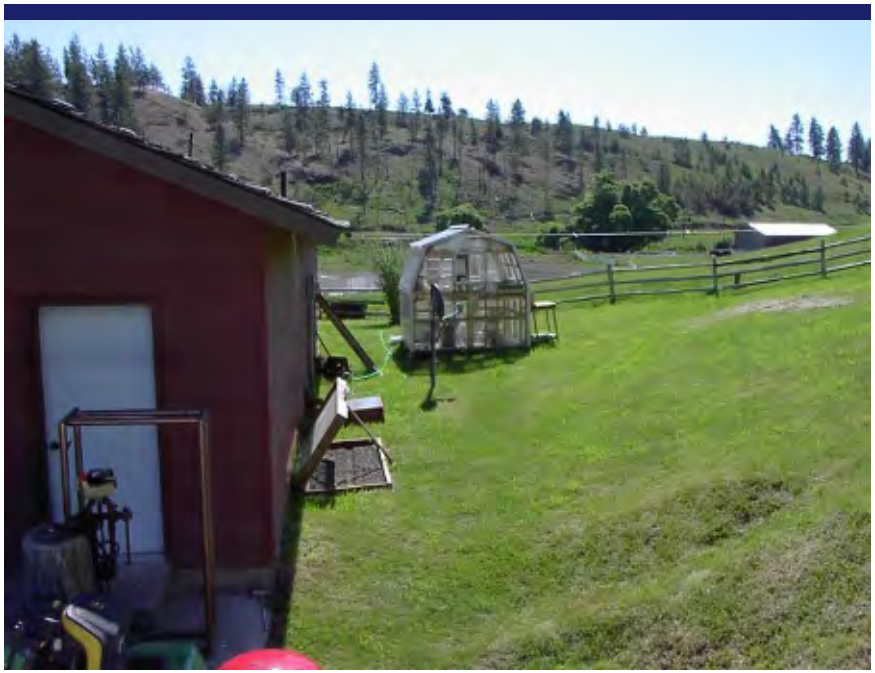
Photo 11-107



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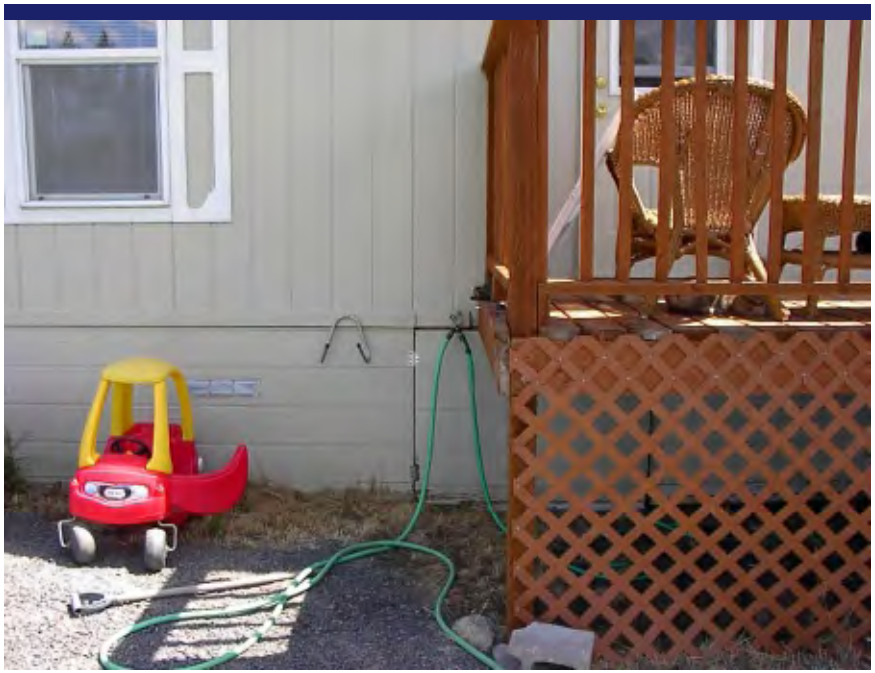

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Photo 11-111

Photo 11-112

Photo 11-113

Photo 11-114

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Photo 11-118

Photo 11-119

Photo 11-120

Photo 11-121

Photo 11-122

Photo 11-123

Photo 11-124

Photo 12-1

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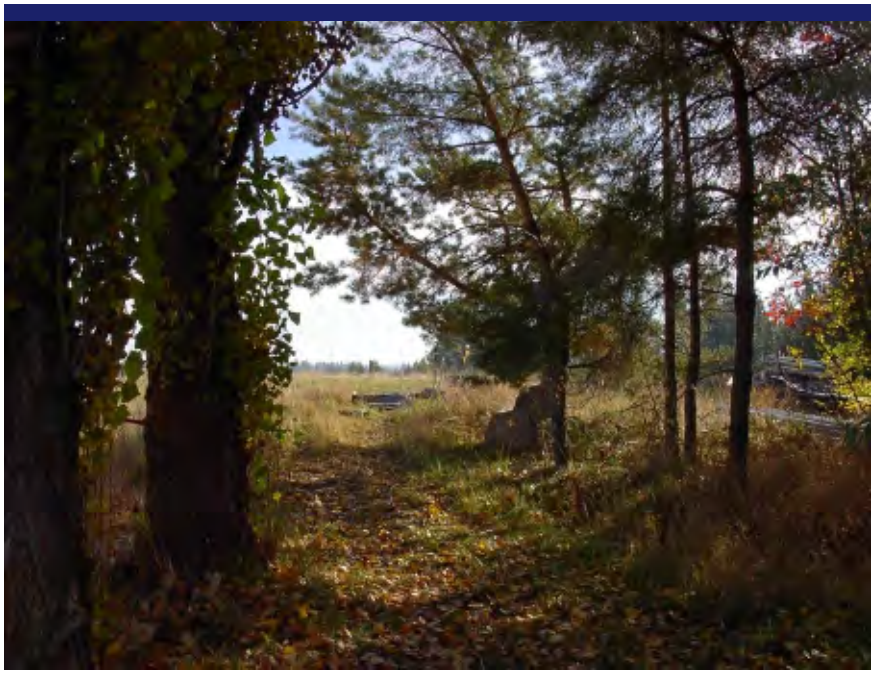

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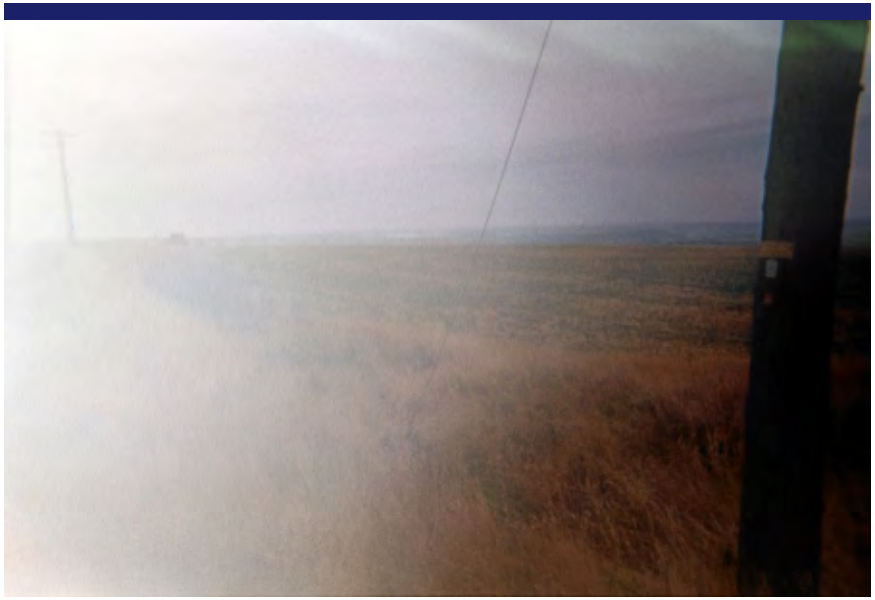

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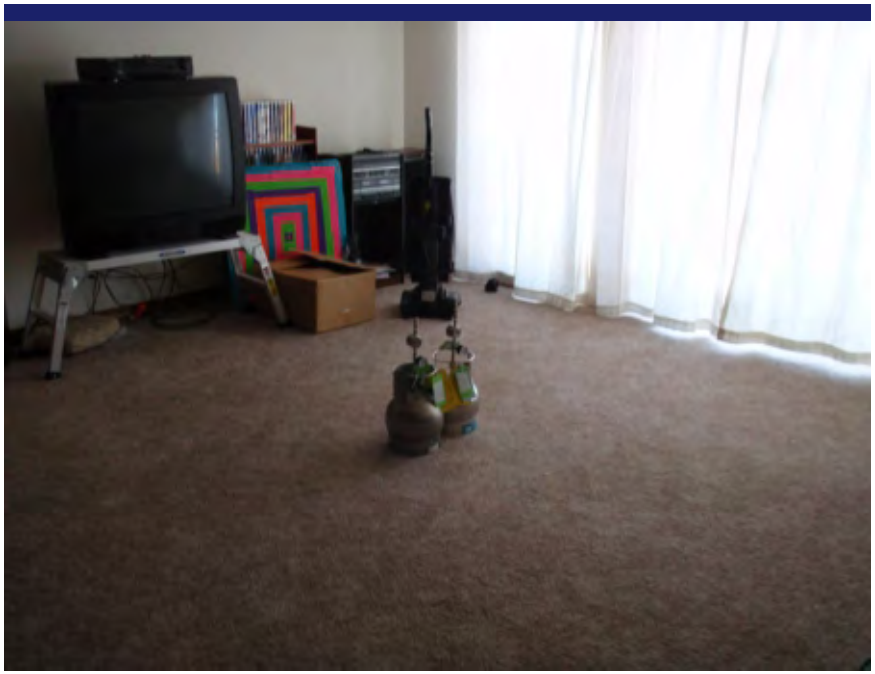

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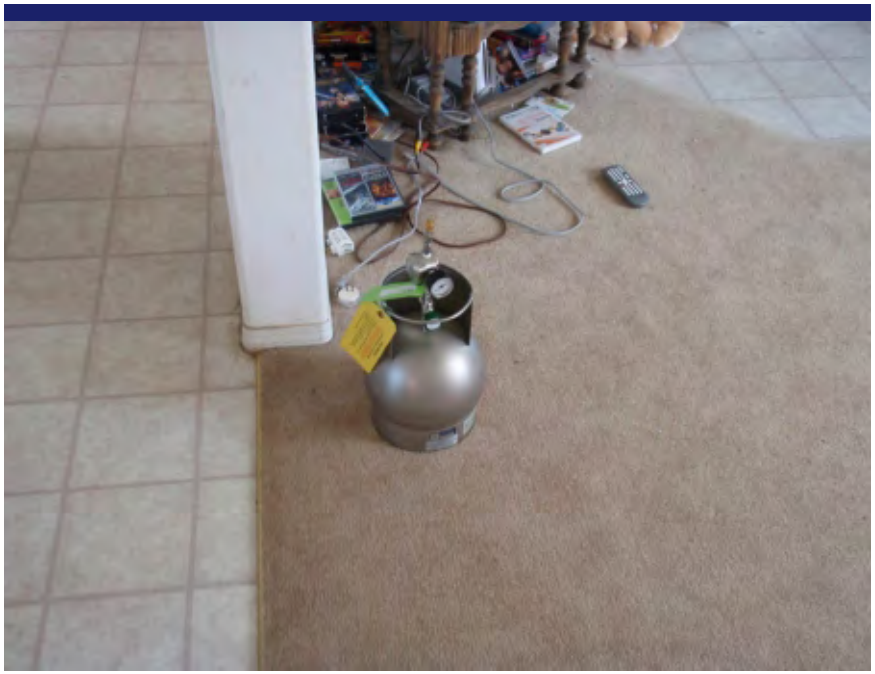

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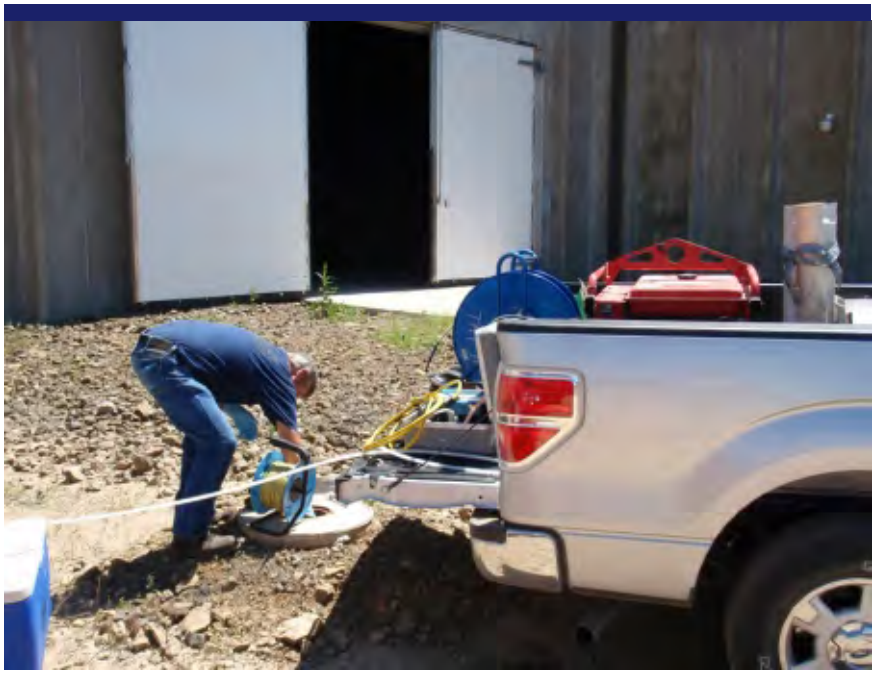

Photo 13-12

Photo 13-13

Photo 13-14

Photo 13-15

B Data Validation Memoranda

ecology and environment, inc.
International Specialists in the Environment
2101 Fourth Avenue, Suite 1900, Seattle, WA 98121
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: April 19, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of nine water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06030901	06030902	06030903	06030904	06030905
06030906	06030907	06030910	06030911	

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on March 28, 2006, were extracted for NDMA analysis of March 31 or April 4, 2006, were extracted for perchlorate analysis on March 30, 2006, and were analyzed for TCE on March 31, 2006, for NDMA between April 6 and 12, 2006, and for perchlorate on March 30, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate.

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

recycled paper

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. Continuing Calibration: Acceptable.

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. System Monitoring Compounds (SMCs; TCE and NDMA only): Acceptable.

All SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan,

and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030901
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-001
Matrix:	WATER	**Lab WorkOrder:**	H18AK1AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 07:27
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	92	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

MW 4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030902
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-002
Matrix:	WATER	**Lab WorkOrder:**	H18AT1AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 07:47
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

MW 4/9/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030903
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-003
Matrix:	WATER	**Lab WorkOrder:**	H18AW1AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 08:07
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

MW 4/19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030904
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-004
Matrix:	WATER	**Lab WorkOrder:**	H18AX1AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 08:27
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.87	0.16	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

MW 4-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030905
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-005
Matrix:	WATER	**Lab WorkOrder:**	H18A21AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 09:27
Sample Aliquot:	7.5 mL	**Instrument ID:**	R1
Dilution Factor:	2.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**110**	0.43	2.7	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	115	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

MW
4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030906
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-006
Matrix:	WATER	**Lab WorkOrder:**	H18A31AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 09:47
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**210**	1.1	6.7	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	115	65	126	
2037-26-5	Toluene-d8	107	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

JMW
4/18/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030907
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-007
Matrix:	WATER	**Lab WorkOrder:**	H18A41AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 10:07
Sample Aliquot:	4 mL	**Instrument ID:**	R1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**130**	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	123	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

MW
4-12-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030910
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-008
Matrix:	WATER	**Lab WorkOrder:**	H18A51AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 10:27
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	118	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

MW
4/19/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030911
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-009
Matrix:	WATER	**Lab WorkOrder:**	H18A91AD
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/31/06 05:58
QC Batch ID:	6093147	**Date/Time Analyzed:**	03/31/06 10:47
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	118	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

MM 4/19/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030901
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-001
Matrix:	WATER	**Lab WorkOrder:**	H18AK1AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	03/31/06 10:00
QC Batch ID:	6090217	**Date/Time Analyzed:**	04/06/06 19:05
Sample Aliquot:	1027 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	70	20	150	

MW 4/8/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030902
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-002
Matrix:	WATER	**Lab WorkOrder:**	H18AT1AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	03/31/06 10:00
QC Batch ID:	6090217	**Date/Time Analyzed:**	04/06/06 19:29
Sample Aliquot:	1012 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	96	20	150	

MW
4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030903
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-003
Matrix:	WATER	**Lab WorkOrder:**	H18AW1AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 13:00
QC Batch ID:	6094275	**Date/Time Analyzed:**	04/12/06 18:05
Sample Aliquot:	1029 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	93	20	150	

MW 4-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030904
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-004
Matrix:	WATER	**Lab WorkOrder:**	H18AX1AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 13:00
QC Batch ID:	6094275	**Date/Time Analyzed:**	04/12/06 18:29
Sample Aliquot:	1025 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	102	20	150	

MW
4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030905
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-005
Matrix:	WATER	**Lab WorkOrder:**	H18A21AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 13:00
QC Batch ID:	6094275	**Date/Time Analyzed:**	04/12/06 19:40
Sample Aliquot:	1036 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	106	20	150	

MW 4/19/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030906
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-006
Matrix:	WATER	**Lab WorkOrder:**	H18A31AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 12:00
QC Batch ID:	6094285	**Date/Time Analyzed:**	04/11/06 20:54
Sample Aliquot:	1021 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	95	20	150	

MW
4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030907
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-007
Matrix:	WATER	**Lab WorkOrder:**	H18A41AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 12:00
QC Batch ID:	6094285	**Date/Time Analyzed:**	04/11/06 21:18
Sample Aliquot:	1018 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	104	20	150	

MW 4/19/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030911
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-009
Matrix:	WATER	**Lab WorkOrder:**	H18A91AA
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/04/06 12:00
QC Batch ID:	6094285	**Date/Time Analyzed:**	04/11/06 21:42
Sample Aliquot:	1032 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	100	20	150	

MW
4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030901
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-001
Matrix:	WATER	**Lab WorkOrder:**	H18AK1AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 08:03
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.22**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW
4-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030902
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-002
Matrix:	WATER	**Lab WorkOrder:**	H18AT1AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 08:24
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.47	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

JMW
4-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030903
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-003
Matrix:	WATER	**Lab WorkOrder:**	H18AW1AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 11:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4/19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030904
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-004
Matrix:	WATER	**Lab WorkOrder:**	H18AX1AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 11:39
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.67**	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4-11-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030905
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-005
Matrix:	WATER	**Lab WorkOrder:**	H18A21AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 12:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.88**	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030906
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-006
Matrix:	WATER	**Lab WorkOrder:**	H18A31AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 13:04
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.0**	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030907
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-007
Matrix:	WATER	**Lab WorkOrder:**	H18A41AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 13:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06030911
Lot/SDG Number:	D6C290373	**Lab Sample ID:**	D6C290373-009
Matrix:	WATER	**Lab WorkOrder:**	H18A91AC
% Moisture:	N/A	**Date/Time Collected:**	03/28/06 00:00
Basis:	Wet	**Date/Time Received:**	03/29/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/06 06:18
QC Batch ID:	6089063	**Date/Time Analyzed:**	03/30/06 13:46
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 4/9-06

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MEMORANDUM

DATE: May 9, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 20 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06040001	06040002	06040003	06040004	06040005
06040006	06040007	06040008	06040009	06040010
06040011	06040012	06040013	06040014	06040015
06040016	06040017	06040018	06040019	06040020

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on April 15, 2006, were extracted for NDMA analysis on April 18, 20, 22, or 29, 2006, were extracted for perchlorate analysis on April 20, 2006, and were analyzed for TCE on April 20, 2006, for NDMA on April 24 or May 1, 2006, and for perchlorate on April 21, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate except the reextraction of sample 06050018 for NDMA. The original result for this sample was used.

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. Continuing Calibration: Acceptable.

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. System Monitoring Compounds (SMCs; TCE and NDMA only): Satisfactory.

All SMC recoveries were within QC limits except the original NDMA analysis of sample 06040018 (9% vs. the QC limits of 20% - 150%). The sample was reextracted outside of holding time limits, so the original result was used. The associated sample quantitation limit was qualified as an estimated quantity (UJ).

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Acceptable.

MS, MSD, LCS, and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040002
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-020
Matrix:	WATER	**Lab WorkOrder:**	H3JC31AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 15:41
Sample Aliquot:	8 mL	**Instrument ID:**	E
Dilution Factor:	2.5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	120	0.40	2.5	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	79	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	92	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

JMW 5-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040005
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-021
Matrix:	WATER	**Lab WorkOrder:**	H3JC51AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 16:05
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**0.24**	0.16	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	83	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	95	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

MW 5/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040007
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-022
Matrix:	WATER	**Lab WorkOrder:**	H3JC61AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 16:28
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	97	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040008
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-023
Matrix:	WATER	**Lab WorkOrder:**	H3JC71AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 16:50
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	70	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	86	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040009
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-024
Matrix:	WATER	**Lab WorkOrder:**	H3JC81AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 17:38
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	95	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040010
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-025
Matrix:	WATER	**Lab WorkOrder:**	H3JC91AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 18:02
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	93	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040025
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-026
Matrix:	WATER	**Lab WorkOrder:**	H3JDA1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 08:56
QC Batch ID:	6111237	**Date/Time Analyzed:**	04/20/06 18:25
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040001
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-001
Matrix:	WATER	**Lab WorkOrder:**	H3JA21AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 10:29
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/20/06 19:00
QC Batch ID:	6110522	**Date/Time Analyzed:**	04/24/06 22:06
Sample Aliquot:	948 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	99	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040002
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-002
Matrix:	WATER	**Lab WorkOrder:**	H3JA41AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 10:48
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/20/06 19:00
QC Batch ID:	6110522	**Date/Time Analyzed:**	04/24/06 22:29
Sample Aliquot:	1033 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	**0.69**	0.36	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	96	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040003
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-003
Matrix:	WATER	**Lab WorkOrder:**	H3JA51AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:07
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 15:25
Sample Aliquot:	1002 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	92	20	150	

MW 5906

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040004
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-004
Matrix:	WATER	**Lab WorkOrder:**	H3JA61AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:15
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/20/06 19:00
QC Batch ID:	6110522	**Date/Time Analyzed:**	04/24/06 22:53
Sample Aliquot:	1023 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	2.0	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	94	20	150	

MW
5906

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040005
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-005
Matrix:	WATER	**Lab WorkOrder:**	H3JA71AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:28
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 15:49
Sample Aliquot:	1012 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	92	20	150	

MW 5-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040006
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-006
Matrix:	WATER	**Lab WorkOrder:**	H3JA81AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:22
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 16:12
Sample Aliquot:	984 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	89	20	150	

MW 5-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040007
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-007
Matrix:	WATER	**Lab WorkOrder:**	H3JA91AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:35
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 16:36
Sample Aliquot:	1032 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	96	20	150	

MW 5-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040008
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-008
Matrix:	WATER	**Lab WorkOrder:**	H3JCD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 17:00
Sample Aliquot:	1003 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	89	20	150	

MW
5906

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040009
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-009
Matrix:	WATER	**Lab WorkOrder:**	H3JCF1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 13:20
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 17:23
Sample Aliquot:	991 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	88	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040010
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-010
Matrix:	WATER	**Lab WorkOrder:**	H3JCG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 13:55
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 18:10
Sample Aliquot:	1013 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	2.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	100	20	150	

MW
5-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040011
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-011
Matrix:	WATER	**Lab WorkOrder:**	H3JCJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 14:40
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 18:34
Sample Aliquot:	1013 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	**0.50**	0.36	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	95	20	150	

MW 5/9/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040012
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-012
Matrix:	WATER	**Lab WorkOrder:**	H3JCM1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:10
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 18:57
Sample Allquot:	1018 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	91	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040013
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-013
Matrix:	WATER	**Lab WorkOrder:**	H3JCN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:30
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 19:21
Sample Aliquot:	1025 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.1	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	100	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040014
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-014
Matrix:	WATER	**Lab WorkOrder:**	H3JCP1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 19:45
Sample Aliquot:	965 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	124	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040015
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-015
Matrix:	WATER	**Lab WorkOrder:**	H3JCR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 20:08
Sample Aliquot:	1011 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	102	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040016
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-016
Matrix:	WATER	**Lab WorkOrder:**	H3JCV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:20
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/22/06 08:00
QC Batch ID:	6111597	**Date/Time Analyzed:**	04/24/06 20:31
Sample Aliquot:	1030 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	109	20	150	

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040017
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-017
Matrix:	WATER	**Lab WorkOrder:**	H3JC01AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:30
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/18/06 12:00
QC Batch ID:	6108265	**Date/Time Analyzed:**	04/24/06 13:04
Sample Aliquot:	924 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	92	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040018
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-018
Matrix:	WATER	**Lab WorkOrder:**	H3JC11AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/18/06 12:00
QC Batch ID:	6108265	**Date/Time Analyzed:**	04/24/06 13:27
Sample Aliquot:	893 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	9.0	20	150	*

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040019
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-019
Matrix:	WATER	**Lab WorkOrder:**	H3JC21AA
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	04/18/06 12:00
QC Batch ID:	6108265	**Date/Time Analyzed:**	04/24/06 13:51
Sample Aliquot:	907 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	77	20	150	

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040001
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-001
Matrix:	WATER	**Lab WorkOrder:**	H3JA21AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 10:29
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 09:18
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.037**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040002
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-002
Matrix:	WATER	**Lab WorkOrder:**	H3JA41AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 10:48
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 10:22
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.82**	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040003
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-003
Matrix:	WATER	**Lab WorkOrder:**	H3JA51AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:07
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 10:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.89	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040004
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-004
Matrix:	WATER	**Lab WorkOrder:**	H3JA61AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:15
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 11:05
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.5	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040005
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-005
Matrix:	WATER	**Lab WorkOrder:**	H3JA71AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 11:28
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 11:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040006
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-006
Matrix:	WATER	**Lab WorkOrder:**	H3JA81AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:22
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 11:47
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040007
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-007
Matrix:	WATER	**Lab WorkOrder:**	H3JA91AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:35
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 12:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0078	0.0026	0.010	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040008
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-008
Matrix:	WATER	**Lab WorkOrder:**	H3JCD1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 12:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 12:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.1	0.026	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040009
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-009
Matrix:	WATER	**Lab WorkOrder:**	H3JCF1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 13:20
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 13:12
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040010
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-010
Matrix:	WATER	**Lab WorkOrder:**	H3JCG1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 13:55
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 13:33
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.91**	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040011
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-011
Matrix:	WATER	**Lab WorkOrder:**	H3JCJ1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 14:40
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 13:55
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040012
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-012
Matrix:	WATER	**Lab WorkOrder:**	H3JCM1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:10
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 14:16
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.22**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040013
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-013
Matrix:	WATER	**Lab WorkOrder:**	H3JCN1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:30
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 14:37
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.44**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040014
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-014
Matrix:	WATER	**Lab WorkOrder:**	H3JCP1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 15:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 14:58
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.093**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040015
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-015
Matrix:	WATER	**Lab WorkOrder:**	H3JCR1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 15:20
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.24**	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040016
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-016
Matrix:	WATER	**Lab WorkOrder:**	H3JCV1AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:20
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 15:41
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.48	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040017
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-017
Matrix:	WATER	**Lab WorkOrder:**	H3JC01AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:30
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 16:23
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.97	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040018
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-018
Matrix:	WATER	**Lab WorkOrder:**	H3JC11AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 16:50
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 16:45
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.7	0.013	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

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STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06040019
Lot/SDG Number:	D6D180325	**Lab Sample ID:**	D6D180325-019
Matrix:	WATER	**Lab WorkOrder:**	H3JC21AC
% Moisture:	N/A	**Date/Time Collected:**	04/15/06 00:00
Basis:	Wet	**Date/Time Received:**	04/18/06 08:45
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/06 10:05
QC Batch ID:	6110264	**Date/Time Analyzed:**	04/21/06 17:06
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.015	0.0026	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

MW 5-9-06

ecology and environment, inc.
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MEMORANDUM

DATE: June 21, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 8 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06050901	06050902	06050903	06050904	06050905
06050906	06050907	06050911		

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on May 26, 2006, were extracted for NDMA analysis on May 27, 2006, were extracted for perchlorate analysis on May 31, 2006, and were analyzed for TCE on May 30, 2006, for NDMA on June 9 and 10, 2006, and for perchlorate on June 2, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate.

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

recycled paper

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. **System Monitoring Compounds (SMCs; TCE and NDMA only): Acceptable.**

All SMC recoveries were within QC limits.

7. **Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Satisfactory.**

MS, MSD, LCS, and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the NDMA MS analysis with a high recovery. No action was taken as NDMA was not detected in any samples.

8. **Duplicate Analysis: Satisfactory.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits except the MS/MSD for NDMA due to the high MS recovery; no action was taken based on this discrepancy.

9. **Internal Standards (TCE only): Acceptable.**

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050901
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-001
Matrix:	WATER	Lab WorkOrder:	H6C4M1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 16:51
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050902
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-002
Matrix:	WATER	Lab WorkOrder:	H6C5A1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 17:55
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050903
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-003
Matrix:	WATER	Lab WorkOrder:	H6C5J1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 18:16
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	85	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050904
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-004
Matrix:	WATER	Lab WorkOrder:	H6C5L1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 18:38
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	115	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

Form 1 Analysis Data Sheet Equivalent

MW 6-19-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050905
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-005
Matrix:	WATER	Lab WorkOrder:	H6C5P1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 18:59
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	~~U~~

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	113	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06050906
Lot/SDG Number:	D6E270148	**Lab Sample ID:**	D6E270148-006
Matrix:	WATER	**Lab WorkOrder:**	H6C5Q1AD
% Moisture:	N/A	**Date/Time Collected:**	05/26/06 00:00
Basis:	Wet	**Date/Time Received:**	05/27/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/30/06 14:35
QC Batch ID:	6151085	**Date/Time Analyzed:**	05/30/06 19:20
Sample Aliquot:	20 mL	**Instrument ID:**	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	~~U~~

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	123	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	116	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050907
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-007
Matrix:	WATER	Lab WorkOrder:	H6C5V1AD
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 19:41
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	~~U~~ MW

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	115	65	126	
2037-26-5	Toluene-d8	84	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050911
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-008
Matrix:	WATER	Lab WorkOrder:	H6C501AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/30/06 14:35
QC Batch ID:	6151085	Date/Time Analyzed:	05/30/06 20:02
Sample Aliquot:	20 mL	Instrument ID:	G
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	U 0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	93	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06050901
Lot/SDG Number:	D6E270148	**Lab Sample ID:**	D6E270148-001
Matrix:	WATER	**Lab WorkOrder:**	H6C4M2AA
% Moisture:	N/A	**Date/Time Collected:**	05/26/06 00:00
Basis:	Wet	**Date/Time Received:**	05/27/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	05/27/06 14:00
QC Batch ID:	6147135	**Date/Time Analyzed:**	06/09/06 23:23
Sample Aliquot:	999 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	~~U~~

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	148	20	150	

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050902
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-002
Matrix:	WATER	Lab WorkOrder:	H6C5A2AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/27/06 14:00
QC Batch ID:	6147135	Date/Time Analyzed:	06/10/06 00:58
Sample Aliquot:	1021 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	126	20	150	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050903
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-003
Matrix:	WATER	Lab WorkOrder:	H6C5J2AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/27/06 14:00
QC Batch ID:	6147135	Date/Time Analyzed:	06/10/06 01:22
Sample Aliquot:	1016 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	~~U~~

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	137	20	150	

U Result is less than the method detection limit (MDL).

MN 6/9-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050904
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-004
Matrix:	WATER	Lab WorkOrder:	H6C5L2AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/27/06 14:00
QC Batch ID:	6147135	Date/Time Analyzed:	06/10/06 01:45
Sample Aliquot:	993 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	124	20	150	

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06050905
Lot/SDG Number:	D6E270148	**Lab Sample ID:**	D6E270148-005
Matrix:	WATER	**Lab WorkOrder:**	H6C5P2AA
% Moisture:	N/A	**Date/Time Collected:**	05/26/06 00:00
Basis:	Wet	**Date/Time Received:**	05/27/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	05/27/06 14:00
QC Batch ID:	6147135	**Date/Time Analyzed:**	06/10/06 02:09
Sample Aliquot:	1030 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	U MW

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	117	20	150	

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050906
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-006
Matrix:	WATER	Lab WorkOrder:	H6C5Q2AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/27/06 14:00
QC Batch ID:	6147135	Date/Time Analyzed:	06/10/06 02:32
Sample Aliquot:	1015 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	145	20	150	

U Result is less than the method detection limit (MDL).

Form 1 Analysis Data Sheet Equivalent

MW 6-19-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050907
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-007
Matrix:	WATER	Lab WorkOrder:	H6C5V2AA
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/27/06 14:00
QC Batch ID:	6147135	Date/Time Analyzed:	06/10/06 02:56
Sample Aliquot:	1035 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	U 0.36	1.0	~~U~~ Me

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	121	20	150	

U Result is less than the method detection limit (MDL).

Form 1 Analysis Data Sheet Equivalent

MW 6-19-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050901
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-001
Matrix:	WATER	Lab WorkOrder:	H6C4M1AC
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	6860	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/31/06 16:12
QC Batch ID:	6151523	Date/Time Analyzed:	06/02/06 11:30
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.051	J 0.026	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050902
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-002
Matrix:	WATER	Lab WorkOrder:	H6C5A1AC
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	6860	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/31/06 16:12
QC Batch ID:	6151523	Date/Time Analyzed:	06/02/06 12:36
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.026	U 0.026	0.10	~~U~~ MW

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050903
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-003
Matrix:	WATER	Lab WorkOrder:	H6C5J1AC
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	6860	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/31/06 16:12
QC Batch ID:	6151523	Date/Time Analyzed:	06/02/06 12:57
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.026	U 0.026	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6/9-08

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050904
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-004
Matrix:	WATER	Lab WorkOrder:	H6C5L1AC
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	6860	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	05/31/06 16:12
QC Batch ID:	6151523	Date/Time Analyzed:	06/02/06 13:18
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.69	0.026	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06050905
Lot/SDG Number:	D6E270148	**Lab Sample ID:**	D6E270148-005
Matrix:	WATER	**Lab WorkOrder:**	H6C5P1AC
% Moisture:	N/A	**Date/Time Collected:**	05/26/06 00:00
Basis:	Wet	**Date/Time Received:**	05/27/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/31/06 16:12
QC Batch ID:	6151523	**Date/Time Analyzed:**	06/02/06 13:39
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.065 J	0.026	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 6/9/06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06050906
Lot/SDG Number:	D6E270148	**Lab Sample ID:**	D6E270148-006
Matrix:	WATER	**Lab WorkOrder:**	H6C5Q1AC
% Moisture:	N/A	**Date/Time Collected:**	05/26/06 00:00
Basis:	Wet	**Date/Time Received:**	05/27/06 09:00
Analysis Method:	6860	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/31/06 16:12
QC Batch ID:	6151523	**Date/Time Analyzed:**	06/02/06 14:01
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.026	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6/9-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06050907
Lot/SDG Number:	D6E270148	Lab Sample ID:	D6E270148-007
Matrix:	WATER	Lab WorkOrder:	H6C5V1AC
% Moisture:	N/A	Date/Time Collected:	05/26/06 00:00
Basis:	Wet	Date/Time Received:	05/27/06 09:00
Analysis Method:	6860	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	05/31/06 16:12
QC Batch ID:	6151523	Date/Time Analyzed:	06/02/06 14:22
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	3.2	0.26	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-19-06

Form 1 Analysis Data Sheet Equivalent

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: July 31, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 30 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06060901	06060902	06060903	06060904	06060905
06060906	06060907	06060908	06060909	06060910
06060911	06060912	06060913	06060914	06060915
06060916	06060917	06060918	06060919	06060920
06060921	06060922	06060923	06060924	06060925
06060926	06060927	06060928	06060929	06060930

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on June 22 and23, 2006, were extracted for NDMA analysis between June 26 and July 5, 2006, were extracted for perchlorate analysis on June 30, 2006, and were analyzed for TCE on June 28, 2006, for NDMA between June 29 and July 10, 2006, and for perchlorate between July 3 and 5, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate.

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

recycled paper

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. Continuing Calibration: Acceptable.

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix except for NDMA samples 06060913, 06060914, 06060915, and 06060926; these samples were reextracted and reanalyzed but the system monitoring compound was not added to the associated blank, so the original analyses were reported. No action was taken based on this discrepancy as NDMA was not detected in the original analysis of these samples. There were no detections in any method blank.

6. System Monitoring Compounds (SMCs; TCE and NDMA only): Acceptable.

All SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Satisfactory.

MS, MSD, LCS, and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the NDMA spike analyses associated with sample 06060919, 06060920, and 06060921 (the spike had a high recovery and the samples did not have NDMA detections, therefore no action was taken) and the NDMA spike analyses associated with samples 06060905, 06060907, 06060908, 06060909, 06060911, and 06060912 (associated positive sample results were qualified as estimated quantities [J]).

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060901
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-001
Matrix:	WATER	**Lab WorkOrder:**	H77A51AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 11:29
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	4.3	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	65	126	
2037-26-5	Toluene-d8	116	78	118	
1868-53-7	Dibromofluoromethane	96	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060902
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-002
Matrix:	WATER	**Lab WorkOrder:**	H77A61AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 12:26
Sample Aliquot:	7.5 mL	**Instrument ID:**	R1
Dilution Factor:	2.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	130	0.43	2.7	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	98	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060903
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-003
Matrix:	WATER	**Lab WorkOrder:**	H77A71AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 12:44
Sample Aliquot:	4 mL	**Instrument ID:**	R1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**210**	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	99	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

JMW 7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060904
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-004
Matrix:	WATER	**Lab WorkOrder:**	H77A81AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 13:03
Sample Aliquot:	7.5 mL	**Instrument ID:**	R1
Dilution Factor:	2.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	150	0.43	2.7	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	98	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060907
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-006
Matrix:	WATER	**Lab WorkOrder:**	H77CC1AD
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 13:22
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	19	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060908
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-007
Matrix:	WATER	**Lab WorkOrder:**	H77CE1AD
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 13:41
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060913
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-026
Matrix:	WATER	**Lab WorkOrder:**	H77DP1AD
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 07:52
QC Batch ID:	6180065	**Date/Time Analyzed:**	06/28/06 17:00
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	111	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060914
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-011
Matrix:	WATER	**Lab WorkOrder:**	H77CJ1AD
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 14:00
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060915
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-012
Matrix:	WATER	**Lab WorkOrder:**	H77CK1AD
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 14:19
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060918
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-013
Matrix:	WATER	Lab WorkOrder:	H77CL1AD
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 14:38
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060919
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-014
Matrix:	WATER	Lab WorkOrder:	H77CM1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 14:57
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060920
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-015
Matrix:	WATER	Lab WorkOrder:	H77CN1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 15:15
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	101	75	115	

U Result is less than the method detection limit (MDL).

7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060921
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-016
Matrix:	WATER	**Lab WorkOrder:**	H77CP1AD
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 08:39
QC Batch ID:	6180064	**Date/Time Analyzed:**	06/28/06 15:34
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MN
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060922
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-017
Matrix:	WATER	Lab WorkOrder:	H77CQ1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 15:53
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	99	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060923
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-018
Matrix:	WATER	Lab WorkOrder:	H77CR1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 16:12
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	96	79	119	
460-00-4	4-Bromofluorobenzene	101	75	115	

U Result is less than the method detection limit (MDL).

Jm
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060924
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-019
Matrix:	WATER	Lab WorkOrder:	H77CT1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 16:31
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

MW 7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060925
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-020
Matrix:	WATER	Lab WorkOrder:	H77CV1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 16:49
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060926
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-021
Matrix:	WATER	Lab WorkOrder:	H77CW1AD
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 17:08
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	111	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060927
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-022
Matrix:	WATER	Lab WorkOrder:	H77CX1AD
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/28/06 08:39
QC Batch ID:	6180064	Date/Time Analyzed:	06/28/06 17:27
Sample Aliquot:	20 mL	Instrument ID:	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060928
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-023
Matrix:	WATER	**Lab WorkOrder:**	H77C01AD
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 07:52
QC Batch ID:	6180065	**Date/Time Analyzed:**	06/28/06 16:05
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	112	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060929
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-024
Matrix:	WATER	**Lab WorkOrder:**	H77C11AA
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 07:52
QC Batch ID:	6180065	**Date/Time Analyzed:**	06/28/06 16:23
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	112	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060930
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-025
Matrix:	WATER	**Lab WorkOrder:**	H77C31AA
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/28/06 07:52
QC Batch ID:	6180065	**Date/Time Analyzed:**	06/28/06 16:42
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	102	75	115	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060905
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-005
Matrix:	WATER	**Lab WorkOrder:**	H77CA1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/26/06 19:00
QC Batch ID:	6177638	**Date/Time Analyzed:**	06/30/06 08:57
Sample Aliquot:	1045 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	64	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060907
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-006
Matrix:	WATER	**Lab WorkOrder:**	H77CC1AA
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/26/06 19:00
QC Batch ID:	6177638	**Date/Time Analyzed:**	06/30/06 10:09
Sample Aliquot:	958 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	50	20	150	

U Result is less than the method detection limit (MDL).

MW
7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060908
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-007
Matrix:	WATER	Lab WorkOrder:	H77CE1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/26/06 19:00
QC Batch ID:	6177638	Date/Time Analyzed:	06/30/06 10:33
Sample Aliquot:	1006 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	43	20	150	

U Result is less than the method detection limit (MDL).

MW 7/3/06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060909
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-008
Matrix:	WATER	**Lab WorkOrder:**	H77CF1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/26/06 19:00
QC Batch ID:	6177638	**Date/Time Analyzed:**	06/30/06 10:57
Sample Aliquot:	1036 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.3 J	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	20	150	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060911
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-009
Matrix:	WATER	**Lab WorkOrder:**	H77CG1AA
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/26/06 19:00
QC Batch ID:	6177638	**Date/Time Analyzed:**	06/30/06 11:21
Sample Aliquot:	994 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	7.1 J	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	39	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060912
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-010
Matrix:	WATER	Lab WorkOrder:	H77CH1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/26/06 19:00
QC Batch ID:	6177638	Date/Time Analyzed:	06/30/06 11:45
Sample Aliquot:	971 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	43	20	150	

U Result is less than the method detection limit (MDL).

JMW
7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060913
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-026
Matrix:	WATER	Lab WorkOrder:	H77DP1AA
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/29/06 19:00
QC Batch ID:	6180572	Date/Time Analyzed:	07/05/06 18:28
Sample Aliquot:	985 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	67	20	150	

U Result is less than the method detection limit (MDL).

7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060914
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-011
Matrix:	WATER	Lab WorkOrder:	H77CJ1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/29/06 19:00
QC Batch ID:	6180572	Date/Time Analyzed:	07/05/06 17:16
Sample Aliquot:	987 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	43	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060915
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-012
Matrix:	WATER	Lab WorkOrder:	H77CK1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/29/06 19:00
QC Batch ID:	6180572	Date/Time Analyzed:	07/05/06 17:40
Sample Aliquot:	931 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	20	150	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060918
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-013
Matrix:	WATER	Lab WorkOrder:	H77CL1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/30/06 15:40
QC Batch ID:	6181554	Date/Time Analyzed:	07/05/06 20:26
Sample Aliquot:	1039 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	56	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060919
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-014
Matrix:	WATER	**Lab WorkOrder:**	H77CM1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/27/06 19:00
QC Batch ID:	6178572	**Date/Time Analyzed:**	06/29/06 10:52
Sample Aliquot:	1021 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	60	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060920
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-015
Matrix:	WATER	**Lab WorkOrder:**	H77CN1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/27/06 19:00
QC Batch ID:	6178572	**Date/Time Analyzed:**	06/29/06 11:19
Sample Aliquot:	1023 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	40	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060921
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-016
Matrix:	WATER	**Lab WorkOrder:**	H77CP1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/27/06 19:00
QC Batch ID:	6178572	**Date/Time Analyzed:**	06/29/06 11:45
Sample Aliquot:	1026 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	44	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060922
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-017
Matrix:	WATER	Lab WorkOrder:	H77CQ1AA
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/28/06 17:00
QC Batch ID:	6179584	Date/Time Analyzed:	07/05/06 13:42
Sample Aliquot:	1024 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	64	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060923
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-018
Matrix:	WATER	Lab WorkOrder:	H77CR1AA
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/28/06 17:00
QC Batch ID:	6179584	Date/Time Analyzed:	07/05/06 14:06
Sample Aliquot:	1033 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	58	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060924
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-019
Matrix:	WATER	Lab WorkOrder:	H77CT1AA
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/28/06 17:00
QC Batch ID:	6179584	Date/Time Analyzed:	07/05/06 14:29
Sample Aliquot:	1031 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.69	0.36	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	62	20	150	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060925
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-020
Matrix:	WATER	**Lab WorkOrder:**	H77CV1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/28/06 17:00
QC Batch ID:	6179584	**Date/Time Analyzed:**	07/05/06 14:53
Sample Aliquot:	1035 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	**0.81**	0.36	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	61	20	150	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060926
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-021
Matrix:	WATER	**Lab WorkOrder:**	H77CW1AA
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/29/06 19:00
QC Batch ID:	6180572	**Date/Time Analyzed:**	07/05/06 18:04
Sample Aliquot:	1046 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	51	20	150	

U Result is less than the method detection limit (MDL).

JMW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060927
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-022
Matrix:	WATER	Lab WorkOrder:	H77CX1AA
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	06/30/06 15:40
QC Batch ID:	6181554	Date/Time Analyzed:	07/05/06 20:50
Sample Aliquot:	1027 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	66	20	150	

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060928
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-023
Matrix:	WATER	**Lab WorkOrder:**	H77C01AA
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	06/30/06 15:40
QC Batch ID:	6181554	**Date/Time Analyzed:**	07/05/06 21:13
Sample Aliquot:	967 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	2.3	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	75	20	150	

U Result is less than the method detection limit (MDL).

MW 7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060905
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-005
Matrix:	WATER	Lab WorkOrder:	H77CA1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/05/06 11:05
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060907
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-006
Matrix:	WATER	Lab WorkOrder:	H77CC1AC
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/03/06 18:14
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060908
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-007
Matrix:	WATER	Lab WorkOrder:	H77CE1AC
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	61181465	Date/Time Analyzed:	07/03/06 18:38
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JM
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060909
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-008
Matrix:	WATER	**Lab WorkOrder:**	H77CF1AC
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 19:02
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.56**	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060911
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-009
Matrix:	WATER	Lab WorkOrder:	H77CG1AC
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/03/06 19:51
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060912
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-010
Matrix:	WATER	**Lab WorkOrder:**	H77CH1AC
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 20:15
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.21**	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-3-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060913
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-026
Matrix:	WATER	Lab WorkOrder:	H77DP1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/04/06 02:19
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.80	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060914
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-011
Matrix:	WATER	**Lab WorkOrder:**	H77CJ1AC
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 20:39
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.83	0.0052	0.050	

CAS No.	Surrogate	% Rec.	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060915
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-012
Matrix:	WATER	**Lab WorkOrder:**	H77CK1AC
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 21:04
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.77	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060918
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-013
Matrix:	WATER	**Lab WorkOrder:**	H77CL1AC
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 21:28
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060919
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-014
Matrix:	WATER	**Lab WorkOrder:**	H77CM1AC
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 21:52
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.90**	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060920
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-015
Matrix:	WATER	**Lab WorkOrder:**	H77CN1AC
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/03/06 22:16
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0010	0.0010	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060921
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-016
Matrix:	WATER	Lab WorkOrder:	H77CP1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/03/06 22:41
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.016	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060922
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-017
Matrix:	WATER	Lab WorkOrder:	H77CQ1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/05/06 12:18
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.51	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-3-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060923
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-018
Matrix:	WATER	Lab WorkOrder:	H77CR1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/03/06 23:53
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.24	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060924
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-019
Matrix:	WATER	**Lab WorkOrder:**	H77CT1AC
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/04/06 00:18
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.71**	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060925
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-020
Matrix:	WATER	Lab WorkOrder:	H77CV1AC
% Moisture:	N/A	Date/Time Collected:	06/22/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/04/06 00:42
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.70	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060926
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-021
Matrix:	WATER	**Lab WorkOrder:**	H77CW1AC
% Moisture:	N/A	**Date/Time Collected:**	06/22/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/04/06 01:06
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.71	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060927
Lot/SDG Number:	D6F240209	**Lab Sample ID:**	D6F240209-022
Matrix:	WATER	**Lab WorkOrder:**	H77CX1AC
% Moisture:	N/A	**Date/Time Collected:**	06/23/06 00:00
Basis:	Wet	**Date/Time Received:**	06/24/06 09:00
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/30/06 13:47
QC Batch ID:	6181465	**Date/Time Analyzed:**	07/04/06 01:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.78**	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060928
Lot/SDG Number:	D6F240209	Lab Sample ID:	D6F240209-023
Matrix:	WATER	Lab WorkOrder:	H77C01AC
% Moisture:	N/A	Date/Time Collected:	06/23/06 00:00
Basis:	Wet	Date/Time Received:	06/24/06 09:00
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 13:47
QC Batch ID:	6181465	Date/Time Analyzed:	07/04/06 01:55
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.028	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-06

ecology and environment, inc.
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MEMORANDUM

DATE: August 1, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 30 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06060801	06060802	06060803	06060804	06060805
06060806	06060807	06060808	06060809	06060810
06060811	06060812	06060813	06060814	06060815
06060816	06060817	06060818	06060819	06060820
06060821	06060822	06060823	06060824	06060825
06060826	06060827	06060828	06060829	06060830

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were generally maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received at 0.5°C, 0.7°C, 2.9°C, 3.8°C, 4.0°C, and 4.3°C; no action was taken based on the sample coolers measured below 2.0°C. The samples were collected on June 26, 2006, were extracted for NDMA analysis between July 1 and 3, 2006, were extracted for perchlorate analysis on July 6, 2006, and were analyzed for TCE between June 30 and July 3, 2006, for NDMA between July 7 and 10, 2006, and for perchlorate between July 6 and 8, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate.

recycled paper

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. **Blanks: Satisfactory.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank except in the NDMA blank associated with the reextraction and reanalysis of sample 06060813 at 0.0019 micrograms per liter; the NDMA result in sample 06060813 was qualified as not detected (U).

6. **System Monitoring Compounds (SMCs; TCE and NDMA only): Satisfactory.**

All applicable SMC recoveries were within QC limits except (1) the slightly low recovery of NDMA-d6 (an internal standard reported as a SMC) in the NDMA method blank associated with samples 06060801 through 06060816 and 06060818 through 06060821. No action was taken based on this slight outlier. The laboratory reported that the vial was on its side in the sample refrigerator prior to analysis; it is believed that this may have contributed to the slightly low recovery; and (2) the TCE SMC dibromofluoromethane had slightly high recoveries in samples 06060823, 06060825, 06060826, 06060829, and 06060830. No action was taken based on these slight outliers as TCE was not detected in these samples.

7. **Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Satisfactory.**

MS, MSD, LCS, and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the perchlorate MS and MSD results associated with sample 06060816 with high recoveries. The perchlorate result in sample 06060816 was qualified as an estimated quantity (J).

8. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060801
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-001
Matrix:	WATER	Lab WorkOrder:	H8AN01AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 09:24
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	92	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	97	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060802
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-002
Matrix:	WATER	Lab WorkOrder:	H8AN21AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 09:43
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

MK
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060803
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-003
Matrix:	WATER	Lab WorkOrder:	H8AN31AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 10:01
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MW
7/3/06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060804
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-004
Matrix:	WATER	Lab WorkOrder:	H8AN41AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 10:19
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	65	126	
2037-26-5	Toluene-d8	107	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060805
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-005
Matrix:	WATER	Lab WorkOrder:	H8AN51AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 10:38
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	65	126	
2037-26-5	Toluene-d8	111	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-7-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060806
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-006
Matrix:	WATER	Lab WorkOrder:	H8AN61AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 10:56
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Snrrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	114	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	105	75	115	

U Result is less than the method detection limit (MDL).

JMW 7-3-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060807
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-007
Matrix:	WATER	Lab WorkOrder:	H8AN71AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 11:15
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

JM
7/3/06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060808
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-008
Matrix:	WATER	Lab WorkOrder:	H8AN81AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 11:34
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	103	75	115	

U Result is less than the method detection limit (MDL).

7-25-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060809
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-009
Matrix:	WATER	Lab WorkOrder:	H8APA1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 11:52
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	92	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060810
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-010
Matrix:	WATER	Lab WorkOrder:	H8APC1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 12:11
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060811
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-011
Matrix:	WATER	Lab WorkOrder:	H8APD1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 12:30
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060812
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-012
Matrix:	WATER	Lab WorkOrder:	H8APE1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 12:48
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	107	79	119	
460-00-4	4-Bromofluorobenzene	105	75	115	

U Result is less than the method detection limit (MDL).

MW
7-31-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060813
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-013
Matrix:	WATER	Lab WorkOrder:	H8APF1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 13:07
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060814
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-014
Matrix:	WATER	Lab WorkOrder:	H8APH1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 13:25
Sample Aliquot:	4 mL	Instrument ID:	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	150	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	113	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	117	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

JMW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060815
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-015
Matrix:	WATER	Lab WorkOrder:	H8APJ1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 13:44
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	107	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

MW
7-31-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060816
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-016
Matrix:	WATER	Lab WorkOrder:	H8APK1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 14:03
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	

U Result is less than the method detection limit (MDL).

7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060817
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-017
Matrix:	WATER	Lab WorkOrder:	H8APL1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/03/06 06:38
QC Batch ID:	6186066	Date/Time Analyzed:	07/03/06 08:02
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

7-3-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060818
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-018
Matrix:	WATER	Lab WorkOrder:	H8APN1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 14:59
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	97	78	118	
1868-53-7	Dibromofluoromethane	107	79	119	
460-00-4	4-Bromofluorobenzene	101	75	115	

U Result is less than the method detection limit (MDL).

7-31-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060819
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-019
Matrix:	WATER	Lab WorkOrder:	H8APP1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 15:18
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW 7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060820
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-020
Matrix:	WATER	Lab WorkOrder:	H8APQ1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 15:36
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	107	79	119	
460-00-4	4-Bromofluorobenzene	103	75	115	

U Result is less than the method detection limit (MDL).

7-3-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060821
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-021
Matrix:	WATER	Lab WorkOrder:	H8APR1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 08:00
QC Batch ID:	6184033	Date/Time Analyzed:	06/30/06 15:55
Sample Aliquot:	20 mL	Instrument ID:	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	111	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060822
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-022
Matrix:	WATER	Lab WorkOrder:	H8APT1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 14:31
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	116	79	119	
460-00-4	4-Bromofluorobenzene	84	75	115	

U Result is less than the method detection limit (MDL).

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060823
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-023
Matrix:	WATER	Lab WorkOrder:	H8APV1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 14:52
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	114	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	120	79	119	*
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

7/3/06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060824
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-024
Matrix:	WATER	Lab WorkOrder:	H8APW1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 15:12
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	118	79	119	
460-00-4	4-Bromofluorobenzene	84	75	115	

U Result is less than the method detection limit (MDL).

MW 7/3/06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060825
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-025
Matrix:	WATER	Lab WorkOrder:	H8APX1AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 15:32
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	117	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	123	79	119	*
460-00-4	4-Bromofluorobenzene	84	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW
7-3-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060826
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-026
Matrix:	WATER	Lab WorkOrder:	H8AP01AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 15:52
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	119	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	122	79	119	*
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

JMW
7-3-06

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060827
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-027
Matrix:	WATER	Lab WorkOrder:	H8AP21AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 16:13
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	118	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	119	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MV
7-31-06

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060828
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-028
Matrix:	WATER	Lab WorkOrder:	H8AP31AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 16:33
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	118	65	126	
2037-26-5	Toluene-d8	107	78	118	
1868-53-7	Dibromofluoromethane	119	79	119	
460-00-4	4-Bromofluorobenzene	81	75	115	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060829
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-029
Matrix:	WATER	Lab WorkOrder:	H8AP41AD
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 16:53
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	124	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	125	79	119	*
460-00-4	4-Bromofluorobenzene	85	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060830
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-030
Matrix:	WATER	Lab WorkOrder:	H8AP71AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	8260B	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	06/30/06 10:50
QC Batch ID:	6181474	Date/Time Analyzed:	06/30/06 17:13
Sample Aliquot:	20 mL	Instrument ID:	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	113	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	122	79	119	*
460-00-4	4-Bromofluorobenzene	84	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW
7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060801
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-001
Matrix:	WATER	Lab WorkOrder:	H8AN01AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 18:19
Sample Aliquot:	1025 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.9	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	73	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060802
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-002
Matrix:	WATER	Lab WorkOrder:	H8AN21AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 18:43
Sample Aliquot:	1032 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.2	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	103	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060803
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-003
Matrix:	WATER	Lab WorkOrder:	H8AN31AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 19:07
Sample Aliquot:	1029 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	90	18	142	

U Result is less than the method detection limit (MDL).

MW
7/3/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060804
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-004
Matrix:	WATER	Lab WorkOrder:	H8AN41AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 19:30
Sample Aliquot:	1011 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.5	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	94	18	142	

U Result is less than the method detection limit (MDL).

MW
7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060805
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-005
Matrix:	WATER	Lab WorkOrder:	H8AN51AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/10/06 12:14
Sample Aliquot:	1032 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.85	J 0.36	1.0	J MW

CAS No.	Surrogate	% Rec.	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	66	18	142	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060806
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-006
Matrix:	WATER	Lab WorkOrder:	H8AN61AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 20:18
Sample Aliquot:	1013 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.1	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	100	18	142	

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060807
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-007
Matrix:	WATER	Lab WorkOrder:	H8AN71AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 21:05
Sample Aliquot:	985 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.4	0.36	1.0	

CAS No.	Surrogate	% Rec.	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	136	18	142	

U Result is less than the method detection limit (MDL).

MN
7-3-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060808
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-008
Matrix:	WATER	Lab WorkOrder:	H8AN81AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 21:29
Sample Aliquot:	998 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	2.3	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	94	18	142	

U Result is less than the method detection limit (MDL).

JMN 7/3/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060809
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-009
Matrix:	WATER	Lab WorkOrder:	H8APA1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 21:53
Sample Aliquot:	1007 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	4.7	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	106	18	142	

U Result is less than the method detection limit (MDL).

JMW
7-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060810
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-010
Matrix:	WATER	Lab WorkOrder:	H8APC1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 22:17
Sample Aliquot:	1017 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	6.5	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	127	18	142	

U Result is less than the method detection limit (MDL).

JW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060811
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-011
Matrix:	WATER	Lab WorkOrder:	H8APD1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 22:40
Sample Aliquot:	1012 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	87	18	142	

U Result is less than the method detection limit (MDL).

JMW
7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060812
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-012
Matrix:	WATER	Lab WorkOrder:	H8APE1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 23:04
Sample Aliquot:	1017 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.2	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	70	18	142	

U Result is less than the method detection limit (MDL).

MW
7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060813
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-013
Matrix:	WATER	Lab WorkOrder:	H8APF2AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/03/06 14:00
QC Batch ID:	6184067	Date/Time Analyzed:	07/07/06 14:19
Sample Aliquot:	1028 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.4	U 0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060814
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-014
Matrix:	WATER	Lab WorkOrder:	H8APH1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/07/06 23:51
Sample Aliquot:	1024 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	5.2	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	88	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060815
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-015
Matrix:	WATER	Lab WorkOrder:	H8APJ1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/08/06 00:39
Sample Aliquot:	1028 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.3	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	101	18	142	

U Result is less then the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060816
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-016
Matrix:	WATER	Lab WorkOrder:	H8APK1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/08/06 01:02
Sample Aliquot:	1018 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.4	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	69	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060817
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-017
Matrix:	WATER	Lab WorkOrder:	H8APL1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/10/06 13:49
Sample Aliquot:	1025 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.4	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	43	18	142	

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060818
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-018
Matrix:	WATER	Lab WorkOrder:	H8APN1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/08/06 02:14
Sample Aliquot:	1027 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.3	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	99	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060819
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-019
Matrix:	WATER	Lab WorkOrder:	H8APP1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/10/06 17:24
Sample Aliquot:	993 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	58	18	142	

U Result is less than the method detection limit (MDL).

MW 7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060820
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-020
Matrix:	WATER	Lab WorkOrder:	H8APQ1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/10/06 13:02
Sample Aliquot:	1011 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	132	18	142	

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060821
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-021
Matrix:	WATER	Lab WorkOrder:	H8APR1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/01/06 14:00
QC Batch ID:	6182041	Date/Time Analyzed:	07/08/06 03:25
Sample Aliquot:	1029 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.5	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	94	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060822
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-022
Matrix:	WATER	Lab WorkOrder:	H8APT1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 06:10
Sample Aliquot:	1032 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	71	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060823
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-023
Matrix:	WATER	Lab WorkOrder:	H8APV1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 06:34
Sample Aliquot:	1051 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.0	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	75	18	142	

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060824
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-024
Matrix:	WATER	Lab WorkOrder:	H8APW1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 07:21
Sample Aliquot:	1002 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	6.2	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	59	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060825
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-025
Matrix:	WATER	Lab WorkOrder:	H8APX1AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 07:45
Sample Aliquot:	1029 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	5.8	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	80	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060826
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-026
Matrix:	WATER	Lab WorkOrder:	H8AP01AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 08:09
Sample Aliquot:	1002 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.8	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	57	18	142	

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060827
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-027
Matrix:	WATER	Lab WorkOrder:	H8AP21AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/10/06 14:13
Sample Aliquot:	1050 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	5.5	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	18	142	

U Result is less than the method detection limit (MDL).

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060828
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-028
Matrix:	WATER	Lab WorkOrder:	H8AP31AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 08:56
Sample Aliquot:	1022 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	4.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	63	18	142	

U Result is less than the method detection limit (MDL).

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060829
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-029
Matrix:	WATER	Lab WorkOrder:	H8AP41AA
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	SOP	Date/Time Leached:	
Unit:	ng/L	Date/Time Extracted:	07/02/06 14:30
QC Batch ID:	6183024	Date/Time Analyzed:	07/08/06 09:20
Sample Aliquot:	1038 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	68	18	142	

U Result is less than the method detection limit (MDL).

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060801
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-001
Matrix:	WATER	Lab WorkOrder:	H8AN01AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 14:46
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/3/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060802
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-002
Matrix:	WATER	Lab WorkOrder:	H8AN21AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/06/06 23:44
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.42	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060803
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-003
Matrix:	WATER	Lab WorkOrder:	H8AN31AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 00:08
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.21	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060804
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-004
Matrix:	WATER	Lab WorkOrder:	H8AN41AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 00:33
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.59	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060805
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-005
Matrix:	WATER	Lab WorkOrder:	H8AN51AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 15:11
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060806
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-006
Matrix:	WATER	Lab WorkOrder:	H8AN61AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 15:40
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.75	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MPW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060807
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-007
Matrix:	WATER	Lab WorkOrder:	H8AN71AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 16:05
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-7-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060808
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-008
Matrix:	WATER	Lab WorkOrder:	H8AN81AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 02:10
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0010	0.0010	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060809
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-009
Matrix:	WATER	Lab WorkOrder:	H8APA1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 16:29
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.0	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060810
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-010
Matrix:	WATER	Lab WorkOrder:	H8APC1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 16:53
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.36	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060811
Lot/SDG Number:	D6F270263	**Lab Sample ID:**	D6F270263-011
Matrix:	WATER	**Lab WorkOrder:**	H8APD1AC
% Moisture:	N/A	**Date/Time Collected:**	06/26/06 00:00
Basis:	Wet	**Date/Time Received:**	06/27/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/06/06 15:14
QC Batch ID:	6187471	**Date/Time Analyzed:**	07/07/06 17:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.40	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060812
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-012
Matrix:	WATER	Lab WorkOrder:	H8APE1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 17:42
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.023	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060814
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-014
Matrix:	WATER	Lab WorkOrder:	H8APH1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 18:06
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.93	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060815
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-015
Matrix:	WATER	Lab WorkOrder:	H8APJ1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 18:55
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.44	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060816
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-016
Matrix:	WATER	Lab WorkOrder:	H8APK1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 15:14
QC Batch ID:	6187471	Date/Time Analyzed:	07/07/06 19:19
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.38	J 0.0052	0.050	

CAS No.	Surrogate	%Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060817
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-017
Matrix:	WATER	Lab WorkOrder:	H8APL1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 23:46
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.56	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060818
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-018
Matrix:	WATER	Lab WorkOrder:	H8APN1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/08/06 00:58
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0010	0.0010	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-31-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060819
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-019
Matrix:	WATER	Lab WorkOrder:	H8APP1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/08/06 01:23
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.5	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060820
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-020
Matrix:	WATER	Lab WorkOrder:	H8APQ1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/08/06 01:47
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.85	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060821
Lot/SDG Number:	D6F270263	**Lab Sample ID:**	D6F270263-021
Matrix:	WATER	**Lab WorkOrder:**	H8APR1AC
% Moisture:	N/A	**Date/Time Collected:**	06/26/06 00:00
Basis:	Wet	**Date/Time Received:**	06/27/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/06/06 16:02
QC Batch ID:	6187499	**Date/Time Analyzed:**	07/07/06 10:42
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.18	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-7-06

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060822
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-022
Matrix:	WATER	Lab WorkOrder:	H8APT1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 11:06
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0010	0.0010	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-3-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060823
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-023
Matrix:	WATER	Lab WorkOrder:	H8APV1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 11:30
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.10	0.0010	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060825
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-025
Matrix:	WATER	Lab WorkOrder:	H8APX1AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 20:32
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.62	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060826
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-026
Matrix:	WATER	Lab WorkOrder:	H8AP01AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 20:56
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.97	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060827
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-027
Matrix:	WATER	Lab WorkOrder:	H8AP21AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 21:20
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.62	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-31-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06060828
Lot/SDG Number:	D6F270263	**Lab Sample ID:**	D6F270263-028
Matrix:	WATER	**Lab WorkOrder:**	H8AP31AC
% Moisture:	N/A	**Date/Time Collected:**	06/26/06 00:00
Basis:	Wet	**Date/Time Received:**	06/27/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/06/06 16:02
QC Batch ID:	6187499	**Date/Time Analyzed:**	07/07/06 21:44
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.67	0.0052	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/31/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06060829
Lot/SDG Number:	D6F270263	Lab Sample ID:	D6F270263-029
Matrix:	WATER	Lab WorkOrder:	H8AP41AC
% Moisture:	N/A	Date/Time Collected:	06/26/06 00:00
Basis:	Wet	Date/Time Received:	06/27/06 08:30
Analysis Method:	LC-0024	Date/Time Leached:	
Unit:	ug/L	Date/Time Extracted:	07/06/06 16:02
QC Batch ID:	6187499	Date/Time Analyzed:	07/07/06 22:09
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.010	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/3/06

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MEMORANDUM

DATE: September 25, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 19 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

06080501	06080502	06080503	06080504	06080505
06080506	06080507	06080508	06080509	06080510
06080511	06080512	06080513	06080514	06080515
06080516	06080517	06080518	06080520	

Data Qualifications:

1. **Sample Holding Times: Satisfactory.**

The samples were generally maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received at 6.8°C and 3.3°C; no action was taken based on the slight QC temperature outlier. The samples were collected on August 22, 2006, were extracted for NDMA analysis on August 31, 2006 and September 11, 2006 (sample 06080502 only), and were analyzed for NDMA between July 7 and 13, 2006, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA, except the extraction for sample 06080502. The sample quantitation limit was qualified as an estimated quantity (UJ).

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

recycled paper

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. System Monitoring Compounds (SMCs): Acceptable.

All applicable SMC recoveries were within QC limits.

6. Matrix Spike (MS)/Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Acceptable.

MS, LCS and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

7. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080501	**Units:**	ng/L
Lab Code:	K0607137-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/07/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	09/07/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080502	**Units:**	ng/L
Lab Code:	K0607137-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.1 UJ	1	09/11/06	09/13/06	KWG0615338	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	09/13/06	Acceptable

MW 9-25-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080503	**Units:**	ng/L
Lab Code:	K0607137-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/07/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	117	70-130	09/07/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080504	**Units:**	ng/L
Lab Code:	K0607137-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**3.5**		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080505	**Units:**	ng/L
Lab Code:	K0607137-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**3.8**		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	09/08/06	Acceptable

Comments: MW9-25-08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080506	**Units:**	ng/L
Lab Code:	K0607137-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	99	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080507	**Units:**	ng/L
Lab Code:	K0607137-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.6		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080508	**Units:**	ng/L
Lab Code:	K0607137-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	110	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080509	**Units:**	ng/L
Lab Code:	K0607137-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.5		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	94	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080510	**Units:**	ng/L
Lab Code:	K0607137-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080511	**Units:**	ng/L
Lab Code:	K0607137-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080512	**Units:**	ng/L
Lab Code:	K0607137-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	108	70-130	09/08/06	Acceptable

Comments: Mwq-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080513	**Units:**	ng/L
Lab Code:	K0607137-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.7		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080514	**Units:**	ng/L
Lab Code:	K0607137-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	09/08/06	Acceptable

MW 9-25-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080515	**Units:**	ng/L
Lab Code:	K0607137-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080516	**Units:**	ng/L
Lab Code:	K0607137-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.6		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	99	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080517	**Units:**	ng/L
Lab Code:	K0607137-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080518	**Units:**	ng/L
Lab Code:	K0607137-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.0		2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	118	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607137
Project:	NDMA	**Date Collected:**	08/22/2006
Sample Matrix:	Water	**Date Received:**	08/23/2006

Nitrosamines by EPA 521

Sample Name:	06080520	**Units:**	ng/L
Lab Code:	K0607137-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	08/31/06	09/08/06	KWG0615052	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	76	70-130	09/08/06	Acceptable

Comments: MW 9-25-06

ecology and environment, inc.
International Specialists in the Environment
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MEMORANDUM

DATE: September 29, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 22 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06080501	06080502	06080503	06080504	06080505
06080506	06080507	06080508	06080509	06080510
06080511	06080512	06080513	06080514	06080515
06080516	06080517	06080518	06080520	06080521
06080522	06080523			

Data Qualifications:

1. **Sample Holding Times: Satisfactory.**

The samples were maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received at 4.0°C, 4.8°C, and 3.9°C. The sample were collected on August 22, 2006, were extracted for NDMA analysis between August 28 and September 9, were extracted for perchlorate analysis on September 7, 2006, and were analyzed for TCE on August 29, for NDMA between September 1 and 12, 2006, and for perchlorate betweeu September 7 and 10, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 or 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate except for the NDMA extraction for sample 06080501; this NDMA sample result was qualified as an estimated quantity (UJ).

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

recycled paper

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. Continuing Calibration: Acceptable.

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

6. System Monitoring Compounds (SMCs; TCE and NDMA only): Acceptable.

All applicable SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The associated numerical value is the estimated sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080501
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-001
Matrix:	WATER	**Lab WorkOrder:**	JC5HF1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 08:58
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/07/06 23:14
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.67**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-28-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080502
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-002
Matrix:	WATER	**Lab WorkOrder:**	JC5HK1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:10
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/07/06 23:38
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.65**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080503
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-018
Matrix:	WATER	**Lab WorkOrder:**	JC7WC1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 10:05
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 04:29
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.15	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080504
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-019
Matrix:	WATER	**Lab WorkOrder:**	JC7WF1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:55
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 04:54
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.72**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

Table of Contents

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080506
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-021
Matrix:	WATER	**Lab WorkOrder:**	JC7WK1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:30
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 05:18
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.72	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080507
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-022
Matrix:	WATER	**Lab WorkOrder:**	JC7WL1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 10:17
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 05:42
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.64**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080508
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-003
Matrix:	WATER	**Lab WorkOrder:**	JC5HL1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 00:03
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.085**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080509
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-004
Matrix:	WATER	**Lab WorkOrder:**	JC5HN1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 01:15
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.51**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080510
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-005
Matrix:	WATER	**Lab WorkOrder:**	JC5HQ1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 02:48
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.9	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080511
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-006
Matrix:	WATER	**Lab WorkOrder:**	JC5HT1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 02:52
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080512
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-007
Matrix:	WATER	**Lab WorkOrder:**	JC5HW1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 03:12
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.8**	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080513
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-008
Matrix:	WATER	**Lab WorkOrder:**	JC5H01AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 03:37
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
9-26-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080514
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-009
Matrix:	WATER	**Lab WorkOrder:**	JC5H31AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/08/06 04:05
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.31**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080515
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-010
Matrix:	WATER	**Lab WorkOrder:**	JC5H41AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 00:47
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 9-26-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080516
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-011
Matrix:	WATER	**Lab WorkOrder:**	JC5H51AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 01:11
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080517
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-012
Matrix:	WATER	**Lab WorkOrder:**	JC5H61AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 01:35
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.33**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080518
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-013
Matrix:	WATER	**Lab WorkOrder:**	JC5H71AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 02:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.36**	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080520
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-014
Matrix:	WATER	**Lab WorkOrder:**	JC5H81AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	LC-0024	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/07/06 15:45
QC Batch ID:	6250497	**Date/Time Analyzed:**	09/10/06 02:24
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080501
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-001
Matrix:	WATER	**Lab WorkOrder:**	JC5HF2AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 08:58
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	09/09/06 16:00
QC Batch ID:	6251508	**Date/Time Analyzed:**	09/12/06 18:11
Sample Aliquot:	973 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	50	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080502
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-002
Matrix:	WATER	**Lab WorkOrder:**	JC5HK1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:10
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 11:23
Sample Aliquot:	1004 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	69	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080503
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-018
Matrix:	WATER	**Lab WorkOrder:**	JC7WC1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 10:05
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/29/06 21:15
QC Batch ID:	6241557	**Date/Time Analyzed:**	09/01/06 15:32
Sample Aliquot:	1033 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	48	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-00

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080504
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-019
Matrix:	WATER	**Lab WorkOrder:**	JC7WF1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:55
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/29/06 21:15
QC Batch ID:	6241557	**Date/Time Analyzed:**	09/01/06 15:55
Sample Aliquot:	1005 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	56	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080505
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-020
Matrix:	WATER	**Lab WorkOrder:**	JC7WJ1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 10:32
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/29/06 21:15
QC Batch ID:	6241557	**Date/Time Analyzed:**	09/01/06 16:19
Sample Aliquot:	1006 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec.	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	52	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080506
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-021
Matrix:	WATER	**Lab WorkOrder:**	JC7WK1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:30
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/29/06 21:15
QC Batch ID:	6241557	**Date/Time Analyzed:**	09/01/06 16:43
Sample Aliquot:	1048 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080507
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-022
Matrix:	WATER	**Lab WorkOrder:**	JC7WL1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 10:17
Basis:	Wet	**Date/Time Received:**	08/25/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/29/06 21:15
QC Batch ID:	6241557	**Date/Time Analyzed:**	09/01/06 17:06
Sample Aliquot:	1046 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	34	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080508
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-003
Matrix:	WATER	**Lab WorkOrder:**	JC5HL1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 11:47
Sample Aliquot:	1000 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.7	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	59	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080509
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-004
Matrix:	WATER	**Lab WorkOrder:**	JC5HN1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 12:11
Sample Aliquot:	933 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	52	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080510
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-005
Matrix:	WATER	**Lab WorkOrder:**	JC5HQ1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 12:35
Sample Aliquot:	1009 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	**0.66**	0.36	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	57	18	142	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080511
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-006
Matrix:	WATER	**Lab WorkOrder:**	JC5HT1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 12:59
Sample Aliquot:	914 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	41	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080512
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-007
Matrix:	WATER	**Lab WorkOrder:**	JC5HW1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 13:23
Sample Aliquot:	952 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	52	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080513
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-008
Matrix:	WATER	**Lab WorkOrder:**	JC5H01AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 14:11
Sample Aliquot:	973 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080514
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-009
Matrix:	WATER	**Lab WorkOrder:**	JC5H31AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 14:35
Sample Aliquot:	968 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	44	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080515
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-010
Matrix:	WATER	**Lab WorkOrder:**	JC5H41AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 14:59
Sample Aliquot:	970 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	18	142	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080516
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-011
Matrix:	WATER	**Lab WorkOrder:**	JC5H51AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 15:23
Sample Aliquot:	987 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080517
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-012
Matrix:	WATER	**Lab WorkOrder:**	JC5H61AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 15:47
Sample Aliquot:	971 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW 9-28-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080518
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-013
Matrix:	WATER	**Lab WorkOrder:**	JC5H71AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 16:11
Sample Aliquot:	962 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	47	18	142	

U Result is less than the method detection limit (MDL).

DMW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080520
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-014
Matrix:	WATER	**Lab WorkOrder:**	JC5H81AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	SOP	**Date/Time Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	08/28/06 12:00
QC Batch ID:	6240220	**Date/Time Analyzed:**	09/12/06 16:35
Sample Aliquot:	966 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080501
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-001
Matrix:	WATER	**Lab WorkOrder:**	JC5HF1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 08:58
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 14:50
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

JMW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080502
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-002
Matrix:	WATER	**Lab WorkOrder:**	JC5HK1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 09:10
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 15:11
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080508
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-003
Matrix:	WATER	**Lab WorkOrder:**	JC5HL1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 15:33
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	112	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080509
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-004
Matrix:	WATER	**Lab WorkOrder:**	JC5HN1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 15:54
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MV 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080510
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-005
Matrix:	WATER	**Lab WorkOrder:**	JC5HQ1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 16:15
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080511
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-006
Matrix:	WATER	**Lab WorkOrder:**	JC5HT1AC
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 16:36
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080512
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-007
Matrix:	WATER	**Lab WorkOrder:**	JC5HW1AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 17:19
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080513
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-008
Matrix:	WATER	**Lab WorkOrder:**	JC5H01AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 17:40
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080514
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-009
Matrix:	WATER	**Lab WorkOrder:**	JC5H31AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 18:01
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	114	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	118	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080515
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-010
Matrix:	WATER	**Lab WorkOrder:**	JC5H41AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 18:23
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

MW 9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080516
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-011
Matrix:	WATER	**Lab WorkOrder:**	JC5H51AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 18:44
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

MW 9-2606

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080517
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-012
Matrix:	WATER	**Lab WorkOrder:**	JC5H61AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 19:05
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080518
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-013
Matrix:	WATER	**Lab WorkOrder:**	JC5H71AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 09:13
QC Batch ID:	6242142	**Date/Time Analyzed:**	08/29/06 19:26
Sample Aliquot:	20 mL	**Instrument ID:**	C
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080520
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-014
Matrix:	WATER	**Lab WorkOrder:**	JC5H81AD
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 16:47
QC Batch ID:	6242228	**Date/Time Analyzed:**	08/29/06 19:32
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	87	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	96	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080521
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-015
Matrix:	WATER	**Lab WorkOrder:**	JC5JD1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 16:47
QC Batch ID:	6242228	**Date/Time Analyzed:**	08/29/06 19:53
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	94	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080522
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-016
Matrix:	WATER	**Lab WorkOrder:**	JC5JE1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 16:47
QC Batch ID:	6242228	**Date/Time Analyzed:**	08/29/06 20:13
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	12	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	97	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06080523
Lot/SDG Number:	D6H240329	**Lab Sample ID:**	D6H240329-017
Matrix:	WATER	**Lab WorkOrder:**	JC5JF1AA
% Moisture:	N/A	**Date/Time Collected:**	08/22/06 00:00
Basis:	Wet	**Date/Time Received:**	08/24/06 08:30
Analysis Method:	8260B	**Date/Time Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	08/29/06 16:47
QC Batch ID:	6242228	**Date/Time Analyzed:**	08/29/06 20:33
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	95	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
9-26-06

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: October 26, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 35 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

06090905	06090906	06090907	06090908	06090909
06090910	06090911	06090912	06090913	06090914
06090916	06090917	06090918	06090920	06090922
06090923	06090924	06090925	06090926	06090927
06090928	06090929	06090930	06090931	06090932
06090933	06090935	06090936	06090937	06090940
06090941	06090942	06090943	06090944	06090945

Data Qualifications:

1. **Sample Holding Times: Satisfactory.**

The samples were generally maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received between 0.2°C and 2.6°C; no action was taken based on the slight QC temperature outliers. The samples were collected on September 14 and 15, 2006, were extracted for NDMA analysis on September 28 or 29, 2006, and were analyzed for NDMA by October 6, 2006, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

recycled paper

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. **System Monitoring Compounds (SMCs): Satisfactory.**

All applicable SMC recoveries were within QC limits except in sample 06090942 with a high recovery. No action was taken based on this outlier as NDMA was not detected in the sample.

6. **Matrix Spike (MS)/Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Analysis: Acceptable.**

MS, LCS and LCSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

7. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. **Internal Standards: Satisfactory.**

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts except as noted above in the SMC section.

9. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

11. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurauce/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Coutract Laboratory Program National Functional Guidelines for Organic Data Review". Based upou the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090905	**Units:**	ng/L
Lab Code:	K0607957-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	3.0		2.0	1	09/28/06	10/06/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	10/06/06	Acceptable

MW 102606

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090906	**Units:**	ng/L
Lab Code:	K0607957-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.3		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090907	**Units:**	ng/L
Lab Code:	K0607957-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	77	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090908	**Units:**	ng/L
Lab Code:	K0607957-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	77	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090909	**Units:**	ng/L
Lab Code:	K0607957-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	94	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090910	**Units:**	ng/L
Lab Code:	K0607957-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.4**		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	100	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090911	**Units:**	ng/L
Lab Code:	K0607957-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.5**		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	82	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090912	**Units:**	ng/L
Lab Code:	K0607957-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090913	**Units:**	ng/L
Lab Code:	K0607957-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.1**		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090914	**Units:**	ng/L
Lab Code:	K0607957-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	10/05/06	Acceptable

MM 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090916	**Units:**	ng/L
Lab Code:	K0607957-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	10/05/06	Acceptable

Comments: JMW 10-26-06

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/14/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090917	**Units:**	ng/L
Lab Code:	K0607957-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090918	**Units:**	ng/L
Lab Code:	K0607957-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	3.0		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	10/05/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090920	**Units:**	ng/L
Lab Code:	K0607957-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090922	**Units:**	ng/L
Lab Code:	K0607957-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.1		2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090923	**Units:**	ng/L
Lab Code:	K0607957-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	119	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090924	**Units:**	ng/L
Lab Code:	K0607957-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/05/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	99	70-130	10/05/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090925	**Units:**	ng/L
Lab Code:	K0607957-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.9**		2.0	1	09/28/06	10/06/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	119	70-130	10/06/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090926	**Units:**	ng/L
Lab Code:	K0607957-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/06/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	10/06/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090927	**Units:**	ng/L
Lab Code:	K0607957-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/28/06	10/06/06	KWG0617074	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	10/06/06	Acceptable

MW 102606

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090928	**Units:**	ng/L
Lab Code:	K0607957-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.1**		2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	112	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090929	**Units:**	ng/L
Lab Code:	K0607957-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	99	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090930	**Units:**	ng/L
Lab Code:	K0607957-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	96	70-130	10/06/06	Acceptable

MW 10/26/06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090931	**Units:**	ng/L
Lab Code:	K0607957-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	111	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project: Site # 06030009
Sample Matrix: Water

Service Request: K0607957
Date Collected: 09/15/2006
Date Received: 09/16/2006

Nitrosamines by EPA 521

Sample Name: 06090932
Lab Code: K0607957-025

Units: ng/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 521

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	120	70-130	10/06/06	Acceptable

MW 10/26/06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090933	**Units:**	ng/L
Lab Code:	K0607957-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	10/06/06	Acceptable

JMW 102606

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090935	**Units:**	ng/L
Lab Code:	K0607957-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	128	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090936	**Units:**	ng/L
Lab Code:	K0607957-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	116	70-130	10/06/06	Acceptable

MW
10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090937	**Units:**	ng/L
Lab Code:	K0607957-029	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	102	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090940	**Units:**	ng/L
Lab Code:	K0607957-030	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	10/06/06	Acceptable

JMW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090941	**Units:**	ng/L
Lab Code:	K0607957-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090942	**Units:**	ng/L
Lab Code:	K0607957-032	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	142	70-130	10/06/06	Outside Control Limits

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090943	**Units:**	ng/L
Lab Code:	K0607957-033	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	128	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090944	**Units:**	ng/L
Lab Code:	K0607957-034	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	115	70-130	10/06/06	Acceptable

MW 10-26-06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0607957
Project:	Site # 06030009	**Date Collected:**	09/15/2006
Sample Matrix:	Water	**Date Received:**	09/16/2006

Nitrosamines by EPA 521

Sample Name:	06090945	**Units:**	ng/L
Lab Code:	K0607957-035	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.3**		2.0	1	09/29/06	10/06/06	KWG0617076	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	123	70-130	10/06/06	Acceptable

MW
10-26-06

Comments:

ecology and environment, inc.
International Specialists in the Environment

Pacific Building, 720 Third Avenue, Suite 1700, Seattle, Washington 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: October 10, 2006

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 45 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260), n-nitrosodimethylamine (NDMA) analysis (STL-Denver Standard Operating Procedure [SOP]), and perchlorate (EPA SW-846 Method 6860) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06090601	06090602	06090603	06090604	06090605
06090606	06090607	06090608	06090609	06090610
06090611	06090612	06090613	06090614	06090615
06090616	06090617	06090618	06090620	06090621
06090622	06090623	06090624	06090625	06090626
06090627	06090628	06090629	06090630	06090631
06090632	06090633	06090634	06090635	06090636
06090637	06090638	06090639	06090640	06090641
06090642	06090643	06090644	06090645	

Data Qualifications:

1. Sample Holding Times: Acceptable.

The samples were generally maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received at 0.9°C, 3.0°C, 2.4°C, 2.6°C, 2.4°C and 2.8°C; no action was taken based on the samples received slightly below QC limits. The samples were collected on September 14 and 15, 2006, were extracted for NDMA analysis between September 17 and 21, were extracted for perchlorate analysis between September 27 and 28, 2006, and were analyzed for TCE on September 20 or 21, for NDMA between September 21 and 26, 2006, and for perchlorate on September 29, 2006, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 7 or 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA and perchlorate.

2. Tuning (TCE analysis only): Acceptable.

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for NDMA and perchlorate were both greater than 0.995.

4. Continuing Calibration: Acceptable.

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for NDMA and perchlorate were within QC limits.

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank that affected sample results.

6. System Monitoring Compounds (SMCs; TCE and NDMA only): Acceptable.

All applicable SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards (TCE only): Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090607
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-007
Matrix:	WATER	Lab WorkOrder:	JEGDC1AC
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 00:01
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.28	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090608
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-008
Matrix:	WATER	Lab WorkOrder:	JEGDE1AC
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 00:25
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.31	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090612
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-012
Matrix:	WATER	Lab WorkOrder:	JEGDK1AC
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 00:49
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090621
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-021
Matrix:	WATER	Lab WorkOrder:	JEGDW1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 01:13
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.97	0.10	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090622
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-022
Matrix:	WATER	Lab WorkOrder:	JEGD11AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 03:15
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.46	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090623
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-023
Matrix:	WATER	Lab WorkOrder:	JEGEA1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 03:39
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090624
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-024
Matrix:	WATER	Lab WorkOrder:	JEGEC1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 04:03
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.30	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090625
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-025
Matrix:	WATER	Lab WorkOrder:	JEGEE1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 04:27
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.65	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MM 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090627
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-027
Matrix:	WATER	Lab WorkOrder:	JEGEJ1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 04:52
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090628
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-028
Matrix:	WATER	Lab WorkOrder:	JEGEK1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 05:16
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.44	0.020	0.010	

CAS No.	Surrogate	%Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090629
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-029
Matrix:	WATER	Lab WorkOrder:	JEGEL1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/27/06 18:07
QC Batch ID:	6270669	Date/Time Analyzed:	09/29/06 05:40
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.020	0.020	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090630
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-030
Matrix:	WATER	Lab WorkOrder:	JEGEM1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 07:42
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.43	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090631
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-031
Matrix:	WATER	Lab WorkOrder:	JEGEN1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 08:54
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.51	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MRD
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090632
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-032
Matrix:	WATER	Lab WorkOrder:	JEGER1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 09:19
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.12	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090633
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-033
Matrix:	WATER	Lab WorkOrder:	JEGET1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 09:43
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.16	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090635
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-034
Matrix:	WATER	Lab WorkOrder:	JEGEV1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 10:56
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.76	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090636
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-035
Matrix:	WATER	Lab WorkOrder:	JEGEW1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 11:20
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.68	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090637
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-036
Matrix:	WATER	Lab WorkOrder:	JEGEX1AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 11:44
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.67	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090642
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-040
Matrix:	WATER	Lab WorkOrder:	JEGE31AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 12:08
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.33	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090643
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-041
Matrix:	WATER	Lab WorkOrder:	JEGE41AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 12:33
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.14	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MM
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090644
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-042
Matrix:	WATER	Lab WorkOrder:	JEGE61AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 12:57
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.38	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
10-4-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090645
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-043
Matrix:	WATER	Lab WorkOrder:	JEGE71AC
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	LC-0024	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/28/06 12:40
QC Batch ID:	6271354	Date/Time Analyzed:	09/29/06 13:21
Sample Aliquot:	5 mL	Instrument ID:	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.36	0.020	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

Mm
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090605
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-005
Matrix:	WATER	Lab WorkOrder:	JEGC81AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 13:13
Sample Aliquot:	897 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	3.4	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090606
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-006
Matrix:	WATER	Lab WorkOrder:	JEGDA1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 13:39
Sample Aliquot:	869 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090607
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-007
Matrix:	WATER	Lab WorkOrder:	JEGDC1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 14:05
Sample Aliquot:	968 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090608
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-008
Matrix:	WATER	Lab WorkOrder:	JEGDE1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 14:31
Sample Aliquot:	941 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	%Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	46	18	142	

U Result is less than the method detection limit (MDL).

MW 10-8-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090609
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-009
Matrix:	WATER	Lab WorkOrder:	JEGDF1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 14:57
Sample Aliquot:	1028 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	19	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090610
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-010
Matrix:	WATER	Lab WorkOrder:	JEGDH1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 15:23
Sample Aliquot:	1033 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	43	18	142	

U Result is less than the method detection limit (MDL).

MW 10906

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090611
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-011
Matrix:	WATER	Lab WorkOrder:	JEGDJ1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 15:50
Sample Aliquot:	1019 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	2.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	42	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090612
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-012
Matrix:	WATER	Lab WorkOrder:	JEGDK1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 16:44
Sample Aliquot:	1010 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	51	18	142	

U Result is less than the method detection limit (MDL).

MW
10-4-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090613
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-013
Matrix:	WATER	Lab WorkOrder:	JEGDL1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 17:12
Sample Aliquot:	929 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	79	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090614
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-014
Matrix:	WATER	Lab WorkOrder:	JEGDM1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 17:40
Sample Aliquot:	976 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	45	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090615
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-015
Matrix:	WATER	**Lab WorkOrder:**	JEGDN1AA
% Moisture:	N/A	**Date/Time Collected:**	09/14/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	SOP	**Date Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	09/17/06 12:00
QC Batch ID:	6260027	**Date/Time Analyzed:**	09/21/06 18:08
Sample Aliquot:	967 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	51	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090616
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-016
Matrix:	WATER	Lab WorkOrder:	JEGDP1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/17/06 12:00
QC Batch ID:	6260027	Date/Time Analyzed:	09/21/06 18:36
Sample Aliquot:	947 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	47	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090617
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-017
Matrix:	WATER	Lab WorkOrder:	JEGDQ1AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/25/06 19:54
Sample Aliquot:	926 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	68	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090618
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-018
Matrix:	WATER	Lab WorkOrder:	JEGDR1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/25/06 20:29
Sample Aliquot:	924 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.6	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	74	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090619
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-019
Matrix:	WATER	Lab WorkOrder:	JEGDT1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/25/06 21:06
Sample Aliquot:	965 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.43	J 0.36	1.0	J mu

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	56	18	142	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 10/08

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090620
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-020
Matrix:	WATER	Lab WorkOrder:	JEGDV1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/25/06 21:43
Sample Aliquot:	984 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	62	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090621
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-021
Matrix:	WATER	Lab WorkOrder:	JEGDW1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/25/06 23:01
Sample Aliquot:	1028 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	53	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090622
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-022
Matrix:	WATER	Lab WorkOrder:	JEGD11AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/26/06 01:04
Sample Aliquot:	976 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	66	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090623
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-023
Matrix:	WATER	Lab WorkOrder:	JEGEA1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/26/06 01:46
Sample Aliquot:	1031 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090624
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-024
Matrix:	WATER	Lab WorkOrder:	JEGEC1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/26/06 02:29
Sample Aliquot:	1034 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	49	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090625
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-025
Matrix:	WATER	Lab WorkOrder:	JEGEE1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/26/06 15:13
Sample Aliquot:	1029 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	70	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090626
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-026
Matrix:	WATER	Lab WorkOrder:	JEGEG1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/19/06 13:00
QC Batch ID:	6262378	Date/Time Analyzed:	09/26/06 03:48
Sample Aliquot:	984 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	%Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	69	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090627
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-027
Matrix:	WATER	Lab WorkOrder:	JEGEJ1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 18:33
Sample Aliquot:	1023 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	48	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090628
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-028
Matrix:	WATER	Lab WorkOrder:	JEGEK1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 18:57
Sample Aliquot:	929 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	48	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090629
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-029
Matrix:	WATER	Lab WorkOrder:	JEGEL1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 19:21
Sample Aliquot:	948 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	53	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090630
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-030
Matrix:	WATER	Lab WorkOrder:	JEGEM1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 19:44
Sample Aliquot:	956 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090631
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-031
Matrix:	WATER	Lab WorkOrder:	JEGEN1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 20:08
Sample Aliquot:	940 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.81	J 0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	52	18	142	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090632
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-032
Matrix:	WATER	Lab WorkOrder:	JEGER1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 20:56
Sample Aliquot:	1029 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	55	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090633
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-033
Matrix:	WATER	Lab WorkOrder:	JEGET1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 21:20
Sample Aliquot:	935 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	47	18	142	

U Result is less than the method detection limit (MDL).

MW 10906

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090635
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-034
Matrix:	WATER	Lab WorkOrder:	JEGEV1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 21:43
Sample Aliquot:	1030 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	53	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090636
Lot/SDG Number:	D6J160210	Lab Sample ID:	D6J160210-035
Matrix:	WATER	Lab WorkOrder:	JEGEW1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 22:07
Sample Aliquot:	907 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	58	18	142	

U Result is less than the method detection limit (MDL).

MW 10-4-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090637
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-036
Matrix:	WATER	Lab WorkOrder:	JEGEX1AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 22:31
Sample Aliquot:	933 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	45	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090640
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-038
Matrix:	WATER	Lab WorkOrder:	JEGE11AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 22:54
Sample Aliquot:	939 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	65	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090641
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-039
Matrix:	WATER	Lab WorkOrder:	JEGE21AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264374	Date/Time Analyzed:	09/26/06 23:18
Sample Aliquot:	995 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	64	18	142	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090642
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-040
Matrix:	WATER	Lab WorkOrder:	JEGE31AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264375	Date/Time Analyzed:	09/26/06 07:04
Sample Aliquot:	905 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	72	18	142	

U Result is less than the method detection limit (MDL).

JMW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090643
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-041
Matrix:	WATER	Lab WorkOrder:	JEGE41AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264375	Date/Time Analyzed:	09/26/06 07:52
Sample Aliquot:	874 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	54	18	142	

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090644
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-042
Matrix:	WATER	**Lab WorkOrder:**	JEGE61AA
% Moisture:	N/A	**Date/Time Collected:**	09/15/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	SOP	**Date Leached:**	
Unit:	ng/L	**Date/Time Extracted:**	09/21/06 14:00
QC Batch ID:	6264375	**Date/Time Analyzed:**	09/26/06 08:41
Sample Aliquot:	984 mL	**Instrument ID:**	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	1.0	0.36	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	68	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090645
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-043
Matrix:	WATER	Lab WorkOrder:	JEGE71AA
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	SOP	Date Leached:	
Unit:	ng/L	Date/Time Extracted:	09/21/06 14:00
QC Batch ID:	6264375	Date/Time Analyzed:	09/26/06 09:31
Sample Aliquot:	1020 mL	Instrument ID:	CIMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
62-75-9	N-Nitrosodimethylamine	0.36	0.36	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
Q39885-14-8	N-Nitrosodimethylamine-d6	53	18	142	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090601
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-001
Matrix:	WATER	Lab WorkOrder:	JEGC41AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 11:02
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	8.3	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	78	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	83	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090602
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-002
Matrix:	WATER	Lab WorkOrder:	JEGC51AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 11:22
Sample Aliquot:	5 mL	Instrument ID:	P
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	110	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	84	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090603
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-003
Matrix:	WATER	Lab WorkOrder:	JEGC61AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 13:44
Sample Aliquot:	5 mL	Instrument ID:	P
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	170	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	89	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090604
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-004
Matrix:	WATER	Lab WorkOrder:	JEGC71AA
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 14:05
Sample Aliquot:	5 mL	Instrument ID:	P
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	140	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	88	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	86	75	115	

U Result is less than the method detection limit (MDL).

MW 10-4-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090607
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-007
Matrix:	WATER	Lab WorkOrder:	JEGDC1AD
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 11:42
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

MW 10/9/06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090608
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-008
Matrix:	WATER	Lab WorkOrder:	JEGDE1AD
% Moisture:	N/A	Date/Time Collected:	09/14/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 12:23
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	90	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	92	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090612
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-012
Matrix:	WATER	**Lab WorkOrder:**	JEGDK1AD
% Moisture:	N/A	**Date/Time Collected:**	09/14/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/20/06 08:33
QC Batch ID:	6263491	**Date/Time Analyzed:**	09/20/06 12:43
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	90	65	126	
2037-26-5	Toluene-d8	92	78	118	
1868-53-7	Dibromofluoromethane	93	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090621
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-021
Matrix:	WATER	Lab WorkOrder:	JEGDW1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 12:03
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090622
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-022
Matrix:	WATER	Lab WorkOrder:	JEGD11AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 14:25
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090623
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-023
Matrix:	WATER	Lab WorkOrder:	JEGEA1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 14:45
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	87	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	92	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090624
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-024
Matrix:	WATER	Lab WorkOrder:	JEGEC1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 15:05
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	84	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090625
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-025
Matrix:	WATER	Lab WorkOrder:	JEGEE1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 15:26
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090627
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-027
Matrix:	WATER	Lab WorkOrder:	JEGEJ1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 15:46
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	89	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	93	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090628
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-028
Matrix:	WATER	Lab WorkOrder:	JEGEK1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 16:06
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	88	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	92	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090629
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-029
Matrix:	WATER	Lab WorkOrder:	JEGEL1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 16:26
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	87	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090630
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-030
Matrix:	WATER	Lab WorkOrder:	JEGEM1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 16:47
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW 10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090632
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-032
Matrix:	WATER	**Lab WorkOrder:**	JEGER1AD
% Moisture:	N/A	**Date/Time Collected:**	09/15/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/20/06 08:33
QC Batch ID:	6263491	**Date/Time Analyzed:**	09/20/06 17:07
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090633
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-033
Matrix:	WATER	Lab WorkOrder:	JEGET1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/21/06 09:04
QC Batch ID:	6265101	Date/Time Analyzed:	09/21/06 14:58
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	97	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	83	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090635
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-034
Matrix:	WATER	**Lab WorkOrder:**	JEGEV1AD
% Moisture:	N/A	**Date/Time Collected:**	09/15/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/20/06 08:33
QC Batch ID:	6263491	**Date/Time Analyzed:**	09/20/06 17:47
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090636
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-035
Matrix:	WATER	Lab WorkOrder:	JEGEW1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 08:33
QC Batch ID:	6263491	Date/Time Analyzed:	09/20/06 18:08
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	86	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090637
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-036
Matrix:	WATER	Lab WorkOrder:	JEGEX1AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 09:22
QC Batch ID:	6264349	Date/Time Analyzed:	09/20/06 17:45
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	109	79	119	
460-00-4	4-Bromofluorobenzene	113	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06090639
Lot/SDG Number:	D6I160210	**Lab Sample ID:**	D6I160210-037
Matrix:	WATER	**Lab WorkOrder:**	JEGE01AA
% Moisture:	N/A	**Date/Time Collected:**	09/15/06 00:00
Basis:	Wet	**Date/Time Received:**	09/16/06 08:54
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	09/20/06 09:22
QC Batch ID:	6264349	**Date/Time Analyzed:**	09/20/06 18:08
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	93	79	119	
460-00-4	4-Bromofluorobenzene	116	75	115	*

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW
10-4-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090642
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-040
Matrix:	WATER	Lab WorkOrder:	JEGE31AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 09:22
QC Batch ID:	6264349	Date/Time Analyzed:	09/20/06 18:32
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	115	75	115	

U Result is less than the method detection limit (MDL).

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090643
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-041
Matrix:	WATER	Lab WorkOrder:	JEGE41AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 09:22
QC Batch ID:	6264349	Date/Time Analyzed:	09/20/06 18:55
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	90	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	116	75	115	*

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW
10-9-06

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090644
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-042
Matrix:	WATER	Lab WorkOrder:	JEGE61AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 09:22
QC Batch ID:	6264349	Date/Time Analyzed:	09/20/06 19:19
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	96	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	116	75	115	*

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW
10-9-06

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06090645
Lot/SDG Number:	D6I160210	Lab Sample ID:	D6I160210-043
Matrix:	WATER	Lab WorkOrder:	JEGE71AD
% Moisture:	N/A	Date/Time Collected:	09/15/06 00:00
Basis:	Wet	Date/Time Received:	09/16/06 08:54
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	09/20/06 09:22
QC Batch ID:	6264349	Date/Time Analyzed:	09/20/06 19:43
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	116	75	115	*

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW 10-9-06

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: January 19, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 33 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

06121019	06121020	06121021	06120922	06120923
06120924	06120925	06121030	06121031	06121032
06121033	06121034	06121035	06121036	06121037
06121038	06121039	06121040	06121041	06121042
06121043	06121044	06121045	06121046	06121047
06121048	06121049	06121050	06121053	06121054
06121055	06121056	06121060		

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected between December 14 and 16, 2006, were extracted for NDMA analysis on December 28, 2006, and were analyzed for NDMA by January 10, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

recycled paper

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. System Monitoring Compounds (SMCs): Acceptable.

All applicable SMC recoveries were within QC limits.

6. Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Acceptable.

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the batch KWG0700499 MS and MSD recoveries each with a low recovery. No action was taken based on this batch QC outlier alone.

7. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. Precision and Bias Determination: Not Performed

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121019	**Units:**	ng/L
Lab Code:	K0611004-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	01/09/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121020	**Units:**	ng/L
Lab Code:	K0611004-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	01/09/07	Acceptable

MW
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121021	**Units:**	ng/L
Lab Code:	K0611004-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	01/09/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121022	**Units:**	ng/L
Lab Code:	K0611004-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	01/09/07	Acceptable

MW
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121023	**Units:**	ng/L
Lab Code:	K0611004-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL		Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	U	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121024	**Units:**	ng/L
Lab Code:	K0611004-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	01/10/07	Acceptable

MW
H407

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121025	**Units:**	ng/L
Lab Code:	K0611004-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121030	**Units:**	ng/L
Lab Code:	K0611004-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	01/10/07	Acceptable

JMW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121031	**Units:**	ng/L
Lab Code:	K0611004-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	01/10/07	Acceptable

MW 1/18/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121032	**Units:**	ng/L
Lab Code:	K0611004-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	01/10/07	Acceptable

MN
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121033	**Units:**	ng/L
Lab Code:	K0611004-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	83	70-130	01/10/07	Acceptable

MW 1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121034	**Units:**	ng/L
Lab Code:	K0611004-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	01/10/07	Acceptable

MW 1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121035	**Units:**	ng/L
Lab Code:	K0611004-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	82	70-130	01/10/07	Acceptable

MW
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121036	**Units:**	ng/L
Lab Code:	K0611004-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	U	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	U	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	01/10/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121037	**Units:**	ng/L
Lab Code:	K0611004-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	01/10/07	Acceptable

AMN
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121038	**Units:**	ng/L
Lab Code:	K0611004-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	01/10/07	Acceptable

MN
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121039	**Units:**	ng/L
Lab Code:	K0611004-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	94	70-130	01/10/07	Acceptable

MN
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121040	**Units:**	ng/L
Lab Code:	K0611004-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	01/10/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121041	**Units:**	ng/L
Lab Code:	K0611004-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	01/10/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121042	**Units:**	ng/L
Lab Code:	K0611004-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	01/10/07	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121043	**Units:**	ng/L
Lab Code:	K0611004-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	01/10/07	Acceptable

MN
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/15/2006
Sample Matrix:	Water	**Date Received:**	12/21/2006

Nitrosamines by EPA 521

Sample Name:	06121044	**Units:**	ng/L
Lab Code:	K0611004-033	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	92	70-130	01/10/07	Acceptable

MW
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121045	**Units:**	ng/L
Lab Code:	K0611004-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	01/10/07	Acceptable

MW
1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121046	**Units:**	ng/L
Lab Code:	K0611004-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	01/10/07	Acceptable

MW
HQ07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121047	**Units:**	ng/L
Lab Code:	K0611004-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	01/10/07	Acceptable

MN
1-11-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121048	**Units:**	ng/L
Lab Code:	K0611004-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121049	**Units:**	ng/L
Lab Code:	K0611004-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	01/10/07	Acceptable

MN
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121050	**Units:**	ng/L
Lab Code:	K0611004-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/15/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121053	**Units:**	ng/L
Lab Code:	K0611004-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/15/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121054	**Units:**	ng/L
Lab Code:	K0611004-029	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	01/10/07	Acceptable

MN
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/15/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121055	**Units:**	ng/L
Lab Code:	K0611004-030	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0611004
Project:	NDMA/06030009	**Date Collected:**	12/15/2006
Sample Matrix:	Water	**Date Received:**	12/16/2006

Nitrosamines by EPA 521

Sample Name:	06121056	**Units:**	ng/L
Lab Code:	K0611004-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	01/10/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project: NDMA/06030009
Sample Matrix: Water

Service Request: K0611004
Date Collected: 12/15/2006
Date Received: 12/16/2006

Nitrosamines by EPA 521

Sample Name: 06121060
Lab Code: K0611004-032
Extraction Method: METHOD
Analysis Method: 521

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/10/07	KWG0700501	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	100	70-130	01/10/07	Acceptable

MW 1-9-07

Comments:

ecology and environment, inc.
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MEMORANDUM

DATE: January 19, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 7 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

06121016	06121017	06121018	06121026	06121027
06121028	06121029			

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C except one cooler which was received at1.3°C; no action was taken based on this slight discrepancy. The samples were collected on December 14, 2006, were extracted for NDMA analysis on December 28, 2006, and were analyzed for NDMA by January 9, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

recycled paper

5. **System Monitoring Compounds (SMCs): Acceptable.**

All applicable SMC recoveries were within QC limits.

6. **Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.**

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the MS and MSD recoveries for sample 06121028, each with a low recovery. The sample quantitation limit for this sample was qualified as an estimated quantity (UJ).

7. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. **Internal Standards: Acceptable.**

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

11. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121016	**Units:**	ng/L
Lab Code:	K0610963-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	01/09/07	Acceptable

MW 1-19-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121017	**Units:**	ng/L
Lab Code:	K0610963-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 U	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	01/09/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121018	**Units:**	ng/L
Lab Code:	K0610963-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	01/09/07	Acceptable

MW 1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121026	**Units:**	ng/L
Lab Code:	K0610963-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	01/09/07	Acceptable

MW
1-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121027	**Units:**	ng/L
Lab Code:	K0610963-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	01/09/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121028	**Units:**	ng/L
Lab Code:	K0610963-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0 UJ	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	92	70-130	01/09/07	Acceptable

MW
1/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0610963
Project:	NDMA/Site #06030009	**Date Collected:**	12/14/2006
Sample Matrix:	Water	**Date Received:**	12/15/2006

Nitrosamines by EPA 521

Sample Name:	06121029	**Units:**	ng/L
Lab Code:	K0610963-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	12/28/06	01/09/07	KWG0700499	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	01/09/07	Acceptable

MW
1-19-07

Comments:

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MEMORANDUM

DATE: January 18, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 51 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260) and perchlorate (EPA SW-846 Method 6860/STL-Denver SOP DEN LC-0024) analysis were performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

06121004	06121005	06121006	06121007	06121008	06121009
06121010	06121011	06121012	06121013	06121014	06121015
06121016	06121017	06121018	06121019	06121020	06121021
06121022	06121023	06121024	06121025	06121026	06121027
06121028	06121029	06121030	06121031	06121032	06121033
06121034	06121035	06121036	06121037	06121038	06121039
06121040	06121041	06121042	06121043	06121044	06121045
06121046	06121047	06121048	06121049	06121050	06121051
06121052	06121056	06121057			

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C, with sample coolers received at 5.1°C, 5.3°C, 5.4°C, 5.1°C, 5.0°C, 5.2°C, and 4.3°C. The samples were collected between December 13 and 15, 2006, were extracted for perchlorate analysis by January 5, 2007, and were analyzed for TCE by December 20, 2006, and for perchlorate by January 8, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE and less than 28 days between collection and analysis for perchlorate.

2. **Tuning (TCE analysis only): Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

recycled paper

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%. The correlation coefficients for perchlorate was greater than 0.995.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%. All initial and continuing calibration verifications for perchlorate were within QC limits.

5. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank that affected sample results.

6. **System Monitoring Compounds (SMCs; TCE only): Acceptable.**

All applicable SMC recoveries were within QC limits.

7. **Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Acceptable.**

MS, MSD, BS and BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

9. **Internal Standards (TCE only): Acceptable.**

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121019
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-016
Matrix:	WATER	**Lab WorkOrder:**	JLPM31AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/05/07 21:04
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.39**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

1-18-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121020
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-017
Matrix:	WATER	**Lab WorkOrder:**	JLPM51AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/05/07 22:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.0093** J	0.0088	0.010	JMU

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121021
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-018
Matrix:	WATER	**Lab WorkOrder:**	JLPM61AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/05/07 22:59
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.49	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121022
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-019
Matrix:	WATER	**Lab WorkOrder:**	JLPM71AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/07/07 00:55
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.0**	0.044	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/18/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121023
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-020
Matrix:	WATER	**Lab WorkOrder:**	JLPM81AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/07/07 01:23
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.1	0.088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121024
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-021
Matrix:	WATER	**Lab WorkOrder:**	JLPNA1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 00:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121025
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-022
Matrix:	WATER	**Lab WorkOrder:**	JLPND1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 09:06
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.62**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121029
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-026
Matrix:	WATER	**Lab WorkOrder:**	JLPNJ1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 09:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.57	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

1/8-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121030
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-027
Matrix:	WATER	**Lab WorkOrder:**	JLPNK1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 10:03
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.62**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 1-18-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121031
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-028
Matrix:	WATER	**Lab WorkOrder:**	JLPNM1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 10:32
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.53	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121032
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-029
Matrix:	WATER	**Lab WorkOrder:**	JLPNN1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 11:01
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.3	0.088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121033
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-030
Matrix:	WATER	**Lab WorkOrder:**	JLPNQ1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 11:29
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.85	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

1-18-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121034
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-031
Matrix:	WATER	**Lab WorkOrder:**	JLPNR1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 11:58
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.017**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121035
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-032
Matrix:	WATER	**Lab WorkOrder:**	JLPNT1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 12:27
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.70**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121036
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-033
Matrix:	WATER	**Lab WorkOrder:**	JLPNV1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/02/07 10:37
QC Batch ID:	7002187	**Date/Time Analyzed:**	01/06/07 12:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.23	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1-8-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121037
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-034
Matrix:	WATER	**Lab WorkOrder:**	JLPNW1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 15:19
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.25**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/18/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121038
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-035
Matrix:	WATER	**Lab WorkOrder:**	JLPNX1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 16:46
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1-8-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121039
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-036
Matrix:	WATER	**Lab WorkOrder:**	JLPN01AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/08/07 13:21
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	*1.6*	0.044	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121040
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-037
Matrix:	WATER	**Lab WorkOrder:**	JLPN11AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 17:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121041
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-038
Matrix:	WATER	**Lab WorkOrder:**	JLPN21AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/08/07 13:50
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.044	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121042
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-039
Matrix:	WATER	**Lab WorkOrder:**	JLPN41AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 19:38
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.043	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/18-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121043
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-040
Matrix:	WATER	**Lab WorkOrder:**	JLPN71AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 20:07
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.30	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121044
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-041
Matrix:	WATER	**Lab WorkOrder:**	JLPPA1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 20:36
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.53	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121045
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-042
Matrix:	WATER	**Lab WorkOrder:**	JLPPD1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 21:05
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121046
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-043
Matrix:	WATER	**Lab WorkOrder:**	JLPPF1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 21:33
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.68**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121047
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-044
Matrix:	WATER	**Lab WorkOrder:**	JLPPG1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/08/07 14:19
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.0**	0.044	0.050	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 1-18-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121048
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-045
Matrix:	WATER	**Lab WorkOrder:**	JLPPH1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 22:31
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 1-8-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121049
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-046
Matrix:	WATER	**Lab WorkOrder:**	JLPPJ1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 23:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.010	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
1-18-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121050
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-047
Matrix:	WATER	**Lab WorkOrder:**	JLPPK1AA
% Moisture:	N/A	**Date/Time Collected:**	12/15/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	LC-0024	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	01/05/07 16:48
QC Batch ID:	7005372	**Date/Time Analyzed:**	01/06/07 23:28
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.078**	0.0088	0.010	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
1-18-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121004
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-001
Matrix:	WATER	Lab WorkOrder:	JLPME1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 10:29
Sample Aliquot:	4 mL	Instrument ID:	E
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	160	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	75	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MN
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121005
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-002
Matrix:	WATER	Lab WorkOrder:	JLPMG1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 10:53
Sample Aliquot:	10 mL	Instrument ID:	E
Dilution Factor:	2		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	77	0.32	2.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	87	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MR
H8-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121006
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-003
Matrix:	WATER	Lab WorkOrder:	JLPMH1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 11:17
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	79	65	126	
2037-26-5	Toluene-d8	89	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121007
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-004
Matrix:	WATER	Lab WorkOrder:	JLPMJ1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 11:40
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	86	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW
1-8-07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121008
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-005
Matrix:	WATER	Lab WorkOrder:	JLPMK1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 12:04
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	6.8	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	87	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MW 1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121009
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-006
Matrix:	WATER	Lab WorkOrder:	JLPML1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 12:28
Sample Aliquot:	4 mL	Instrument ID:	E
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	150	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	83	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
H807

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121010
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-007
Matrix:	WATER	**Lab WorkOrder:**	JLPMM1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 13:01
Sample Aliquot:	4 mL	**Instrument ID:**	E
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	190	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	86	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

JMW
H807

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121011
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-008
Matrix:	WATER	Lab WorkOrder:	JLPMN1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 13:25
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MN
1807

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121012
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-009
Matrix:	WATER	Lab WorkOrder:	JLPMP1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 13:49
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	77	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	87	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
HB 07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121013
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-010
Matrix:	WATER	**Lab WorkOrder:**	JLPMQ1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 14:38
Sample Aliquot:	4 mL	**Instrument ID:**	E
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	110	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	84	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121014
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-011
Matrix:	WATER	**Lab WorkOrder:**	JLPMR1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 15:02
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	84	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MN
1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121015
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-012
Matrix:	WATER	Lab WorkOrder:	JLPMW1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 15:25
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MN
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121016
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-013
Matrix:	WATER	**Lab WorkOrder:**	JLPMX1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 15:49
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	90	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121017
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-014
Matrix:	WATER	Lab WorkOrder:	JLPM01AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 16:13
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	79	65	126	
2037-26-5	Toluene-d8	89	78	118	
1868-53-7	Dibromofluoromethane	89	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
HB 07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121018
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-015
Matrix:	WATER	Lab WorkOrder:	JLPM21AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360087	Date/Time Analyzed:	12/20/06 10:31
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	74	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	81	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MN
HBA

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121019
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-016
Matrix:	WATER	**Lab WorkOrder:**	JLPM31AC
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360087	**Date/Time Analyzed:**	12/20/06 10:55
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	72	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	80	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW
HB-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121020
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-017
Matrix:	WATER	**Lab WorkOrder:**	JLPM51AC
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360087	**Date/Time Analyzed:**	12/20/06 11:16
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
HB 87

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121021
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-018
Matrix:	WATER	**Lab WorkOrder:**	JLPM61AC
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360087	**Date/Time Analyzed:**	12/20/06 11:37
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	80	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

JAM 1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121022
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-019
Matrix:	WATER	Lab WorkOrder:	JLPM71AC
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360087	Date/Time Analyzed:	12/20/06 11:57
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121023
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-020
Matrix:	WATER	**Lab WorkOrder:**	JLPM81AC
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360087	**Date/Time Analyzed:**	12/20/06 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	82	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121024
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-021
Matrix:	WATER	Lab WorkOrder:	JLPNA1AC
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360087	Date/Time Analyzed:	12/20/06 12:39
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121025
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-022
Matrix:	WATER	Lab WorkOrder:	JLPND1AC
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360087	Date/Time Analyzed:	12/20/06 13:00
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	87	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	86	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

MW 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121026
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-023
Matrix:	WATER	Lab WorkOrder:	JLPNE1AA
% Moisture:	N/A	Date/Time Collected:	12/13/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360087	Date/Time Analyzed:	12/20/06 13:21
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	83	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

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1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121027
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-024
Matrix:	WATER	**Lab WorkOrder:**	JLPNG1AA
% Moisture:	N/A	**Date/Time Collected:**	12/13/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360087	**Date/Time Analyzed:**	12/20/06 13:41
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	83	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

MW 1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121028
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-025
Matrix:	WATER	Lab WorkOrder:	JLPNH1AA
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360088	Date/Time Analyzed:	12/20/06 14:02
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	84	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121029
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-026
Matrix:	WATER	Lab WorkOrder:	JLPNJ1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360088	Date/Time Analyzed:	12/20/06 15:46
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

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1/8-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121030
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-027
Matrix:	WATER	Lab WorkOrder:	JLPNK1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360088	Date/Time Analyzed:	12/20/06 16:06
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	84	65	126	
2037-26-5	Toluene-d8	101	78	118	
1868-53-7	Dibromofluoromethane	84	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121031
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-028
Matrix:	WATER	**Lab WorkOrder:**	JLPNM1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360088	**Date/Time Analyzed:**	12/20/06 16:27
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	100	78	118	
1868-53-7	Dibromofluoromethane	82	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121032
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-029
Matrix:	WATER	**Lab WorkOrder:**	JLPNN1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360088	**Date/Time Analyzed:**	12/20/06 16:48
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

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SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121033
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-030
Matrix:	WATER	**Lab WorkOrder:**	JLPNQ1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360088	**Date/Time Analyzed:**	12/20/06 17:09
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	84	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121034
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-031
Matrix:	WATER	**Lab WorkOrder:**	JLPNR1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360088	**Date/Time Analyzed:**	12/20/06 17:29
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	97	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MN
1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121035
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-032
Matrix:	WATER	Lab WorkOrder:	JLPNT1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360088	Date/Time Analyzed:	12/20/06 17:50
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	83	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MN
1807

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121036
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-033
Matrix:	WATER	**Lab WorkOrder:**	JLPNV1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 08:37
QC Batch ID:	6360088	**Date/Time Analyzed:**	12/20/06 18:11
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	84	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

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H807

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121037
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-034
Matrix:	WATER	Lab WorkOrder:	JLPNW1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 08:37
QC Batch ID:	6360088	Date/Time Analyzed:	12/20/06 18:31
Sample Aliquot:	20 mL	Instrument ID:	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	98	78	118	
1868-53-7	Dibromofluoromethane	86	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW
4/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121038
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-035
Matrix:	WATER	**Lab WorkOrder:**	JLPNX1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 17:24
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	84	65	126	
2037-26-5	Toluene-d8	93	78	118	
1868-53-7	Dibromofluoromethane	91	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121039
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-036
Matrix:	WATER	Lab WorkOrder:	JLPN01AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 17:47
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	79	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	88	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MN
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121040
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-037
Matrix:	WATER	**Lab WorkOrder:**	JLPN11AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 07:57
QC Batch ID:	6360083	**Date/Time Analyzed:**	12/20/06 18:11
Sample Aliquot:	20 mL	**Instrument ID:**	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	81	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	86	79	119	
460-00-4	4-Bromofluorobenzene	93	75	115	

U Result is less than the method detection limit (MDL).

MN
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121041
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-038
Matrix:	WATER	Lab WorkOrder:	JLPN21AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 18:35
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	78	65	126	
2037-26-5	Toluene-d8	88	78	118	
1868-53-7	Dibromofluoromethane	85	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MM 1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121042
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-039
Matrix:	WATER	Lab WorkOrder:	JLPN41AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 07:57
QC Batch ID:	6360083	Date/Time Analyzed:	12/20/06 18:59
Sample Aliquot:	20 mL	Instrument ID:	E
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	80	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	87	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121043
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-040
Matrix:	WATER	Lab WorkOrder:	JLPN71AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 13:27
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	65	126	
2037-26-5	Toluene-d8	85	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	88	75	115	

U Result is less than the method detection limit (MDL).

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121044
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-041
Matrix:	WATER	Lab WorkOrder:	JLPPA1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 13:49
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	92	75	115	

U Result is less than the method detection limit (MDL).

MW
1-18-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121045
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-042
Matrix:	WATER	Lab WorkOrder:	JLPPD1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 14:57
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	93	78	118	
1868-53-7	Dibromofluoromethane	109	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
7/8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121046
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-043
Matrix:	WATER	Lab WorkOrder:	JLPPF1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 15:20
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121047
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-044
Matrix:	WATER	Lab WorkOrder:	JLPPG1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 15:42
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	87	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MW
H8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121048
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-045
Matrix:	WATER	**Lab WorkOrder:**	JLPPH1AC
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 09:54
QC Batch ID:	6355275	**Date/Time Analyzed:**	12/20/06 16:05
Sample Aliquot:	20 mL	**Instrument ID:**	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	88	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

Form 1 Analysis Data Sheet Equivalent

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121049
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-046
Matrix:	WATER	Lab WorkOrder:	JLPPJ1AC
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 16:27
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	88	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

MW
1-8-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121050
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-047
Matrix:	WATER	Lab WorkOrder:	JLPPK1AC
% Moisture:	N/A	Date/Time Collected:	12/15/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 16:50
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	65	126	
2037-26-5	Toluene-d8	86	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	87	75	115	

U Result is less than the method detection limit (MDL).

MM
1-18-07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121051
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-048
Matrix:	WATER	Lab WorkOrder:	JLPPL1AA
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 17:12
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.32 J	0.16	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MN 1/16/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121052
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-049
Matrix:	WATER	Lab WorkOrder:	JLPPM1AA
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 17:35
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	85	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	85	75	115	

U Result is less than the method detection limit (MDL).

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	Client Sample ID:	06121056
Lot/SDG Number:	D6L180189	Lab Sample ID:	D6L180189-050
Matrix:	WATER	Lab WorkOrder:	JLPPN1AA
% Moisture:	N/A	Date/Time Collected:	12/14/06 00:00
Basis:	Wet	Date/Time Received:	12/16/06 09:00
Analysis Method:	8260B	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	12/20/06 09:54
QC Batch ID:	6355275	Date/Time Analyzed:	12/20/06 17:57
Sample Aliquot:	20 mL	Instrument ID:	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	65	126	
2037-26-5	Toluene-d8	90	78	118	
1868-53-7	Dibromofluoromethane	103	79	119	
460-00-4	4-Bromofluorobenzene	91	75	115	

U Result is less than the method detection limit (MDL).

MW
1/8/07

SEVERN TRENT STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	06121057
Lot/SDG Number:	D6L180189	**Lab Sample ID:**	D6L180189-051
Matrix:	WATER	**Lab WorkOrder:**	JLPPQ1AA
% Moisture:	N/A	**Date/Time Collected:**	12/14/06 00:00
Basis:	Wet	**Date/Time Received:**	12/16/06 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	12/20/06 09:54
QC Batch ID:	6355275	**Date/Time Analyzed:**	12/20/06 18:20
Sample Aliquot:	20 mL	**Instrument ID:**	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	91	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

ecology and environment, inc.
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MEMORANDUM

DATE: May 7, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 20 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260) was performed by STL-Denver, Inc., Arvada, Colorado.

The samples were numbered:

07040101	07040102	07040103	07040104	07040105
07040106	07040108	07040109	07040110	07040111
07040112	07040113	07040114	07040115	07040116
07040117	07040118	07040119	07040120	07040121

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on April 16, 2007, and were analyzed for TCE by April 22, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%.

recycled paper

5. **Blanks: Acceptable.**

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. **System Monitoring Compounds (SMCs): Acceptable.**

All SMC recoveries were within QC limits except toluene-d8 in sample 07040106 with a high recovery. No action was taken based on this high outlier as TCE was not detected in sample 07040106.

7. **Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Satisfactory.**

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits for sample 07040101 but the recoveries were high for sample 07040118. The TCE result in sample 07040118 was qualified as an estimated quantity (J).

8. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. **Internal Standards: Acceptable.**

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040101
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-001
Matrix:	WATER	**Lab WorkOrder:**	JT3W41AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 11:34
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	3.4	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	112	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW
5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040102
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-002
Matrix:	WATER	**Lab WorkOrder:**	JT3W51AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 19:15
Sample Aliquot:	2.5 mL	**Instrument ID:**	P
Dilution Factor:	8		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**170**	1.3	8.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040103
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-003
Matrix:	WATER	**Lab WorkOrder:**	JT3W61AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 19:36
Sample Aliquot:	2 mL	**Instrument ID:**	P
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	200	1.6	10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	115	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040104
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-004
Matrix:	WATER	**Lab WorkOrder:**	JT3W81AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 19:56
Sample Aliquot:	2 mL	**Instrument ID:**	P
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**150**	1.6	10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	115	78	118	
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040105
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-005
Matrix:	WATER	**Lab WorkOrder:**	JT3W91AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 12:58
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**12**	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
1868-53-7	Dibromofluoromethane	114	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	117	78	118	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040106
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-006
Matrix:	WATER	**Lab WorkOrder:**	JT3XA1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 14:01
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	115	65	126	
2037-26-5	Toluene-d8	119	78	118	*
1868-53-7	Dibromofluoromethane	119	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	

U Result is less than the method detection limit (MDL).

* Surrogate recovery is outside stated control limits.

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040108
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-008
Matrix:	WATER	**Lab WorkOrder:**	JT3XD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 20:17
Sample Aliquot:	2 mL	**Instrument ID:**	P
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**170**	1.6	10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	114	65	126	
2037-26-5	Toluene-d8	115	78	118	
1868-53-7	Dibromofluoromethane	115	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MN 5/7/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040109
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-009
Matrix:	WATER	**Lab WorkOrder:**	JT3XF1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 20:39
Sample Aliquot:	5 mL	**Instrument ID:**	P
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	77	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040110
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-010
Matrix:	WATER	**Lab WorkOrder:**	JT3XG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 15:03
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	112	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW 5/7/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040111
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-011
Matrix:	WATER	**Lab WorkOrder:**	JT3XJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 15:24
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040112
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-012
Matrix:	WATER	**Lab WorkOrder:**	JT3XL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/22/07 06:11
QC Batch ID:	7112033	**Date/Time Analyzed:**	04/22/07 08:56
Sample Aliquot:	4 mL	**Instrument ID:**	P
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	120	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW
5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040113
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-013
Matrix:	WATER	**Lab WorkOrder:**	JT3XM1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 16:08
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	113	65	126	
2037-26-5	Toluene-d8	118	78	118	
1868-53-7	Dibromofluoromethane	116	79	119	
460-00-4	4-Bromofluorobenzene	100	75	115	

U Result is less than the method detection limit (MDL).

JMW
5/7/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040114
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-014
Matrix:	WATER	**Lab WorkOrder:**	JT3XN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 16:29
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
5/7/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040115
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-015
Matrix:	WATER	**Lab WorkOrder:**	JT3XP1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 16:49
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	111	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040116
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-016
Matrix:	WATER	**Lab WorkOrder:**	JT3XQ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 17:10
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	112	78	118	
1868-53-7	Dibromofluoromethane	112	79	119	
460-00-4	4-Bromofluorobenzene	96	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040117
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-017
Matrix:	WATER	**Lab WorkOrder:**	JT3XR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 17:31
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	112	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040118
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-018
Matrix:	WATER	**Lab WorkOrder:**	JT3XT1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/22/07 06:11
QC Batch ID:	7112033	**Date/Time Analyzed:**	04/22/07 09:17
Sample Aliquot:	4 mL	**Instrument ID:**	P
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	70	J 0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040119
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-019
Matrix:	WATER	**Lab WorkOrder:**	JT3XV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 18:13
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.21	0.16	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	115	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040120
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-020
Matrix:	WATER	**Lab WorkOrder:**	JT3XW1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 18:33
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	117	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	118	79	119	
460-00-4	4-Bromofluorobenzene	99	75	115	

U Result is less than the method detection limit (MDL).

MW 5-7-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07040121
Lot/SDG Number:	D7D170311	**Lab Sample ID:**	D7D170311-021
Matrix:	WATER	**Lab WorkOrder:**	JT3XX1AA
% Moisture:	N/A	**Date/Time Collected:**	04/16/07 00:00
Basis:	Wet	**Date/Time Received:**	04/17/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/20/07 09:31
QC Batch ID:	7112010	**Date/Time Analyzed:**	04/20/07 18:54
Sample Aliquot:	20 mL	**Instrument ID:**	P
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	17	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	65	126	
2037-26-5	Toluene-d8	111	78	118	
1868-53-7	Dibromofluoromethane	113	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW
5-7-07

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MEMORANDUM

DATE: June 30, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of 17 soil gas module samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Volatile organic compound (VOC) analysis (modified EPA SW-846 Method 8260) was performed by the Gore Screening Modules Laboratory, Elkton, Massachusetts.

The samples were numbered:

07050001	07050002	07050003	07050004	07050005
07050006	07050007	07050008	07050009	07050010
07050011	07050012	07050013	07050014	07050015
07050017	07050018			

Sample number 07050016 was not retrieved and was not submitted.

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were installed on May 23, 2007, were collected on June 10, 2007, and were analyzed by June 13, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for VOCs.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All Relative Standard Deviations (RSDs) were less than the QC limits of 25%.

4. **Continuing Calibration: Acceptable.**

All % differences were less than the QC limit of 25%.

recycled paper

5. **Blanks: Acceptable.**

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. **System Monitoring Compounds (SMCs): Not Required.**

SMCs are not required for this method.

7. **Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Not Required.**

MS/MSD analyses are not required for this method.

8. **Duplicate Analysis: Not Required.**

Duplicates are not required for this method.

9. **Internal Standards: Not Required.**

Internal standards are not required for this method.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

GORE(TM) SURVEYS . . ALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED VOCs (A10+VC)
EASTERN WASHINGTON TCE SITE
SITE DTC - PRODUCTION ORDER #13170676

DATE ANALYZED	SAMPLE NAME	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	111TCA, ug	12DCA, ug	TCE, ug	PCE, ug
	MDL=	0.01		0.02	0.02	0.05	0.02	0.01	0.01	0.02
06-13-07	532142	0.01 U nd	0.04 U nd	0.02 U nd	0.02 U nd	0.05 U nd	0.02 U nd	0.01 U nd	0.01 U nd	0.02 U nd
06-14-07	532143	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532144	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532145	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532146	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532147	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532149	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532150	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532151	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532152	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532153	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532154	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532156	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532158	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532159	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532160	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532161	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	532148	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532155	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532162	nd	nd	nd	nd	nd	nd	nd	nd	bdl
06-14-07	532163	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-14-07	532164	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-13-07	method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Standard Dev.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

B-613

MW 6-30-07

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

DTCcust.xls

GORE(TM) SURVEYS ALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED VOCs (A10+VC)
EASTERN WASHINGTON TCE SITE
SITE DTC - PRODUCTION ORDER #13170676

SAMPLE NAME	14DCB, ug	VC, ug	11DCE, ug	CHCl3, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.31	0.02	0.05	0.05	0.05	0.01	0.05	0.01	0.05
532142	0.01 U nd	0.31 U nd	0.02 U nd	0.05 U nd	0.05 U nd	0.05 U nd	0.01 U nd	0.05 U nd	0.01 U nd	0.05 U nd
532143	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532144	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532145	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532146	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532147	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532149	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
532150	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532151	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532152	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
532153	nd	nd	nd	0.07	nd	nd	nd	nd	nd	nd
532154	nd	nd	nd	20	nd	nd	nd	nd	nd	nd
532156	nd	nd	nd	0.05 U nd	nd	nd	nd	nd	nd	nd
532158	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
532159	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532160	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532161	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
532148	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532155	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532162	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532163	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
532164	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Standard Dev.	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

MW 6-30-07

ecology and environment, inc.
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MEMORANDUM

DATE: June 19, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of three water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260) was performed by STL-Denver, Inc., Arvada, Colorado.

The samples were numbered: 07050200 07050201 07050202

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on May 23, 2007, and were analyzed for TCE on May 30, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%.

5. **Blanks: Acceptable.**

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

recycled paper

6. System Monitoring Compounds (SMCs): Acceptable.

All SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07050200
Lot/SDG Number:	D7E240233	**Lab Sample ID:**	D7E240233-001
Matrix:	WATER	**Lab WorkOrder:**	JXMPE1AA
% Moisture:	N/A	**Date/Time Collected:**	05/23/07 00:00
Basis:	Wet	**Date/Time Received:**	05/24/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/30/07 06:37
QC Batch ID:	7151270	**Date/Time Analyzed:**	05/30/07 08:58
Sample Aliquot:	20 mL	**Instrument ID:**	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**0.29**	0.16	1.0	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	90	75	115	

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MN 6-19-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07050201
Lot/SDG Number:	D7E240233	**Lab Sample ID:**	D7E240233-002
Matrix:	WATER	**Lab WorkOrder:**	JXMPH1AA
% Moisture:	N/A	**Date/Time Collected:**	05/23/07 00:00
Basis:	Wet	**Date/Time Received:**	05/24/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/30/07 06:37
QC Batch ID:	7151270	**Date/Time Analyzed:**	05/30/07 10:03
Sample Aliquot:	20 mL	**Instrument ID:**	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
6/9-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07050202
Lot/SDG Number:	D7E240233	**Lab Sample ID:**	D7E240233-003
Matrix:	WATER	**Lab WorkOrder:**	JXMPK1AA
% Moisture:	N/A	**Date/Time Collected:**	05/23/07 00:00
Basis:	Wet	**Date/Time Received:**	05/24/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	05/30/07 06:37
QC Batch ID:	7151270	**Date/Time Analyzed:**	05/30/07 10:24
Sample Aliquot:	20 mL	**Instrument ID:**	S
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	65	126	
2037-26-5	Toluene-d8	99	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	89	75	115	

U Result is less than the method detection limit (MDL).

MW
6/9/07

ecology and environment, inc.
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MEMORANDUM

DATE: July 9, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 31 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

07060001	07060002	07060003	07060004	07060005	07060006
07060007	07060008	07060009	07060010	07060011	07060012
07060013	07060014	07060015	07060016	07060017	07060018
07060019	07060020	07060021	07060022	07060023	07060024
07060025	07060026	07060027	07060028	07060029	07060030
07060031					

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C except two coolers which were received at 1.8 °C and 1.3°C; no action was taken based on these slight discrepancies. The samples were collected on June 11, 2007, were extracted for NDMA analysis on by June 14, 2007, and were analyzed for NDMA by June 28, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 30% except one high outlier; no action was taken based on this outlier as all associated samples did not have a NDMA detection.

recycled paper

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. System Monitoring Compounds (SMCs): Acceptable.

All applicable SMC recoveries were within QC limits.

6. Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the MS and MSD recoveries for sample 07060021, each with a low recovery. The sample quantitation limit for this sample was qualified as an estimated quantity (UJ).

7. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/10/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060001	**Units:**	ng/L
Lab Code:	K0704996-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/13/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/10/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060002	**Units:**	ng/L
Lab Code:	K0704996-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	06/13/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060003	**Units:**	ng/L
Lab Code:	K0704996-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	06/13/07	Acceptable

AMN 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060004	**Units:**	ng/L
Lab Code:	K0704996-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	82	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060005	**Units:**	ng/L
Lab Code:	K0704996-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	80	70-130	06/13/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060006	**Units:**	ng/L
Lab Code:	K0704996-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/13/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060007	**Units:**	ng/L
Lab Code:	K0704996-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/13/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/13/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060008	**Units:**	ng/L
Lab Code:	K0704996-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	102	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060009	**Units:**	ng/L
Lab Code:	K0704996-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	06/14/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060010	**Units:**	ng/L
Lab Code:	K0704996-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060011	**Units:**	ng/L
Lab Code:	K0704996-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	94	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060012	**Units:**	ng/L
Lab Code:	K0704996-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	06/14/07	Acceptable

MN 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060013	**Units:**	ng/L
Lab Code:	K0704996-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/14/07	Acceptable

JMW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060014	**Units:**	ng/L
Lab Code:	K0704996-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/14/07	Acceptable

MW 7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060015	**Units:**	ng/L
Lab Code:	K0704996-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	06/14/07	Acceptable

JMW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060016	**Units:**	ng/L
Lab Code:	K0704996-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	96	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060017	**Units:**	ng/L
Lab Code:	K0704996-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060018	**Units:**	ng/L
Lab Code:	K0704996-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/14/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060019	**Units:**	ng/L
Lab Code:	K0704996-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060020	**Units:**	ng/L
Lab Code:	K0704996-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/13/07	06/14/07	KWG0707008	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060021	**Units:**	ng/L
Lab Code:	K0704996-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q		MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	J	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/14/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060022	**Units:**	ng/L
Lab Code:	K0704996-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/14/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060023	**Units:**	ng/L
Lab Code:	K0704996-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.2		2.0	1.4	1	06/14/07	06/28/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	06/28/07	Acceptable

JMW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060024	**Units:**	ng/L
Lab Code:	K0704996-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060025	**Units:**	ng/L
Lab Code:	K0704996-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060026	**Units:**	ng/L
Lab Code:	K0704996-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060027	**Units:**	ng/L
Lab Code:	K0704996-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/14/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060028	**Units:**	ng/L
Lab Code:	K0704996-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060029	**Units:**	ng/L
Lab Code:	K0704996-029	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060030	**Units:**	ng/L
Lab Code:	K0704996-030	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0704996
Project:	NDMA/Site #06030009	**Date Collected:**	06/11/2007
Sample Matrix:	Water	**Date Received:**	06/12/2007

Nitrosamines by EPA 521

Sample Name:	07060031	**Units:**	ng/L
Lab Code:	K0704996-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1.4	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

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MEMORANDUM

DATE: July 9, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 28 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

07060032	07060033	07060034	07060035	07060036	07060037
07060038	07060039	07060040	07060041	07060042	07060043
07060044	07060045	07060046	07060047	07060048	07060049
07060050	07060051	07060052	07060053	07060054	07060055
07060056	07060057	07060058	07060059		

Data Qualifications:

1. **Sample Holding Times: Satisfactory.**

The samples were received at the laboratory between 5.9 °C and 7.3 °C, therefore some samples were slightly above the QC limits; no action was taken based on these slight discrepancies. The samples were collected on June 12, 2007, were extracted for NDMA analysis on June 14 or 15, 2007, and were analyzed for NDMA by June 26, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Satisfactory.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 30% except the June 14 calibration at 2031 with a high recovery. No action was taken based on this outlier as there were no positive sample results associated with the outlier.

recycled paper

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. System Monitoring Compounds (SMCs): Acceptable.

All applicable SMC recoveries were within QC limits.

6. Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the batch MS and MSD recoveries, each with a low recovery. Because the project-supplied MS and MSD and LCS recoveries were acceptable, no action was taken based on the batch MS and MSD outliers.

7. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. Internal Standards: Acceptable.

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060032	**Units:**	ng/L
Lab Code:	K0705038-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060033	**Units:**	ng/L
Lab Code:	K0705038-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	109	70-130	06/14/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060034	**Units:**	ng/L
Lab Code:	K0705038-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060035	**Units:**	ng/L
Lab Code:	K0705038-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/14/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	06/14/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060036	**Units:**	ng/L
Lab Code:	K0705038-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/15/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/15/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060037	**Units:**	ng/L
Lab Code:	K0705038-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/15/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	96	70-130	06/15/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060038	**Units:**	ng/L
Lab Code:	K0705038-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/15/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	109	70-130	06/15/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060039	**Units:**	ng/L
Lab Code:	K0705038-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/15/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	106	70-130	06/15/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project:
Sample Matrix: Water

Service Request: K0705038
Date Collected: 06/12/2007
Date Received: 06/13/2007

Nitrosamines by EPA 521

Sample Name: 07060040
Lab Code: K0705038-009

Units: ng/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 521

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/14/07	06/15/07	KWG0707007	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	120	70-130	06/15/07	Acceptable

JMW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060041	**Units:**	ng/L
Lab Code:	K0705038-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	80	70-130	06/26/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060042	**Units:**	ng/L
Lab Code:	K0705038-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	100	70-130	06/26/07	Acceptable

MV
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project:
Sample Matrix: Water

Service Request: K0705038
Date Collected: 06/12/2007
Date Received: 06/13/2007

Nitrosamines by EPA 521

Sample Name: 07060043
Lab Code: K0705038-012

Units: ng/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 521

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060044	**Units:**	ng/L
Lab Code:	K0705038-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	06/26/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060045	**Units:**	ng/L
Lab Code:	K0705038-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060046	**Units:**	ng/L
Lab Code:	K0705038-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	92	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060047	**Units:**	ng/L
Lab Code:	K0705038-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060048	**Units:**	ng/L
Lab Code:	K0705038-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060049	**Units:**	ng/L
Lab Code:	K0705038-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	06/26/07	Acceptable

MN
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060050	**Units:**	ng/L
Lab Code:	K0705038-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	100	70-130	06/26/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060051	**Units:**	ng/L
Lab Code:	K0705038-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060052	**Units:**	ng/L
Lab Code:	K0705038-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060053	**Units:**	ng/L
Lab Code:	K0705038-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	93	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060054	**Units:**	ng/L
Lab Code:	K0705038-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	100	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060055	**Units:**	ng/L
Lab Code:	K0705038-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	97	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060056	**Units:**	ng/L
Lab Code:	K0705038-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060057	**Units:**	ng/L
Lab Code:	K0705038-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	104	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water'	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060058	**Units:**	ng/L
Lab Code:	K0705038-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705038
Project:		**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/13/2007

Nitrosamines by EPA 521

Sample Name:	07060059	**Units:**	ng/L
Lab Code:	K0705038-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/15/07	06/26/07	KWG0706721	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

ecology and environment, inc.
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MEMORANDUM

DATE: July 9, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 32 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

07060060	07060061	07060062	07060063	07060064	07060065
07060066	07060067	07060068	07060069	07060070	07060071
07060072	07060073	07060074	07060075	07060076	07060077
07060078	07060079	07060080	07060081	07060082	07060083
07060084	07060085	07060086	07060087	07060088	07060089
07060090	07060091				

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were received at the laboratory between 5.5 °C and 7.6 °C, therefore some samples were slightly above the QC limits; no action was taken based on these slight discrepancies. The samples were collected on June 12, 2007, were extracted for NDMA analysis on June 21 or 22, 2007, and were analyzed for NDMA by June 28, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. System Monitoring Compounds (SMCs): Acceptable.

All applicable SMC recoveries were within QC limits.

6. Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the MSD recovery for sample 07060061 and the MS recovery for sample 07060081, each with a low recovery. The sample quantitation limits for these samples were qualified as estimated quantities (UJ).

7. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060060	**Units:**	ng/L
Lab Code:	K0705091-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	83	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060061	**Units:**	ng/L
Lab Code:	K0705091-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	UJ	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060062	**Units:**	ng/L
Lab Code:	K0705091-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	06/28/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060063	**Units:**	ng/L
Lab Code:	K0705091-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060064	**Units:**	ng/L
Lab Code:	K0705091-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	06/28/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060065	**Units:**	ng/L
Lab Code:	K0705091-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	80	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060066	**Units:**	ng/L
Lab Code:	K0705091-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060067	**Units:**	ng/L
Lab Code:	K0705091-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	83	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060068	**Units:**	ng/L
Lab Code:	K0705091-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	06/27/07	Acceptable

JMN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060069	**Units:**	ng/L
Lab Code:	K0705091-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	94	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060070	**Units:**	ng/L
Lab Code:	K0705091-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	06/28/07	Acceptable

MW 7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060071	**Units:**	ng/L
Lab Code:	K0705091-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/28/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060072	**Units:**	ng/L
Lab Code:	K0705091-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060073	**Units:**	ng/L
Lab Code:	K0705091-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	06/28/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060074	**Units:**	ng/L
Lab Code:	K0705091-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	77	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060075	**Units:**	ng/L
Lab Code:	K0705091-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	77	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060076	**Units:**	ng/L
Lab Code:	K0705091-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	**2.8**		2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/28/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060077	**Units:**	ng/L
Lab Code:	K0705091-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	06/28/07	Acceptable

MN
7/1/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060078	**Units:**	ng/L
Lab Code:	K0705091-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	78	70-130	06/28/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060079	**Units:**	ng/L
Lab Code:	K0705091-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/21/07	06/28/07	KWG0706956	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	75	70-130	06/28/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060080	**Units:**	ng/L
Lab Code:	K0705091-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	85	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060081	**Units:**	ng/L
Lab Code:	K0705091-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U J	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060082	**Units:**	ng/L
Lab Code:	K0705091-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060083	**Units:**	ng/L
Lab Code:	K0705091-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060084	**Units:**	ng/L
Lab Code:	K0705091-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060085	**Units:**	ng/L
Lab Code:	K0705091-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	83	70-130	06/27/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060086	**Units:**	ng/L
Lab Code:	K0705091-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	06/27/07	Acceptable

JMW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060087	**Units:**	ng/L
Lab Code:	K0705091-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060088	**Units:**	ng/L
Lab Code:	K0705091-029	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	88	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project: NDMA
Sample Matrix: Water

Service Request: K0705091
Date Collected: 06/12/2007
Date Received: 06/14/2007

Nitrosamines by EPA 521

Sample Name: 07060089
Lab Code: K0705091-030
Extraction Method: METHOD
Analysis Method: 521

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/27/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060090	**Units:**	ng/L
Lab Code:	K0705091-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	71	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705091
Project:	NDMA	**Date Collected:**	06/12/2007
Sample Matrix:	Water	**Date Received:**	06/14/2007

Nitrosamines by EPA 521

Sample Name:	07060091	**Units:**	ng/L
Lab Code:	K0705091-032	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: July 11, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 32 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. N-nitrosodimethylamine (NDMA) analysis (EPA Method 521) analyses were performed by Columbia Analytical Services, Inc., Kelso, Washington.

The samples were numbered:

07060092	07060093	07060094	07060095	07060096	07060097
07060098	07060099	07060100	07060101	07060102	07060103
07060104	07060105	07060106	07060107	07060108	07060109
07060110	07060111	07060112	07060113	07060114	07060115
07060116	07060117	07060118	07060119	07060120	07060121
07060122	07060123				

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were received at the laboratory between 2.8 °C and 6.2 °C, therefore some samples were slightly above the QC limits; no action was taken based on these slight discrepancies. The samples were collected on June 14, 2007, were extracted for NDMA analysis on June 22, 25, or 27, 2007, and were analyzed for NDMA by June 28, 2007, therefore meeting QC criteria of less than 14 days between collection and extraction and less than 40 days between extraction and analysis for NDMA.

2. **Initial Calibration: Acceptable.**

All NDMA average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All NDMA water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

3. **Continuing Calibration: Acceptable.**

All NDMA RRFs were greater than the QC limit of 0.050. All NDMA % differences were less than the QC limit of 50%.

recycled paper

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. **System Monitoring Compounds (SMCs): Acceptable.**

All applicable SMC recoveries were within QC limits.

6. **Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.**

MS, MSD and LCS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the MS and MSD recoveries for samples 07060101 and 07060121 and the batch MS recovery, each with a low recovery. The sample quantitation limit for samples 07060101 and 07060121 were qualified as estimated quantities (UJ).

7. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All spike duplicate results were within QC limits.

8. **Internal Standards: Acceptable.**

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

9. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

10. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

11. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Ecology And Environment, Incorporated
Project: NDMA
Sample Matrix: Water

Service Request: K0705152
Date Collected: 06/14/2007
Date Received: 06/15/2007

Nitrosamines by EPA 521

Sample Name: 07060092
Lab Code: K0705152-001

Units: ng/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 521

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	75	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060093	**Units:**	ng/L
Lab Code:	K0705152-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	78	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060094	**Units:**	ng/L
Lab Code:	K0705152-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	80	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060095	**Units:**	ng/L
Lab Code:	K0705152-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060096	**Units:**	ng/L
Lab Code:	K0705152-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060097	**Units:**	ng/L
Lab Code:	K0705152-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/27/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	80	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060098	**Units:**	ng/L
Lab Code:	K0705152-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/22/07	06/28/07	KWG0707237	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	70	70-130	06/28/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060099	**Units:**	ng/L
Lab Code:	K0705152-008	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/26/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060100	**Units:**	ng/L
Lab Code:	K0705152-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/26/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	98	70-130	06/26/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060101	**Units:**	ng/L
Lab Code:	K0705152-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U J	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	91	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060102	**Units:**	ng/L
Lab Code:	K0705152-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060103	**Units:**	ng/L
Lab Code:	K0705152-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	89	70-130	06/27/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060104	**Units:**	ng/L
Lab Code:	K0705152-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	92	70-130	06/27/07	Acceptable

MW
7/9/07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060105	**Units:**	ng/L
Lab Code:	K0705152-014	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	2.6		2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	95	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060106	**Units:**	ng/L
Lab Code:	K0705152-015	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	83	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060107	**Units:**	ng/L
Lab Code:	K0705152-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	84	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060108	**Units:**	ng/L
Lab Code:	K0705152-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060109	**Units:**	ng/L
Lab Code:	K0705152-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	101	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060110	**Units:**	ng/L
Lab Code:	K0705152-019	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	81	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060111	**Units:**	ng/L
Lab Code:	K0705152-020	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060112	**Units:**	ng/L
Lab Code:	K0705152-021	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	99	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060113	**Units:**	ng/L
Lab Code:	K0705152-022	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	90	70-130	06/27/07	Acceptable

MN
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060114	**Units:**	ng/L
Lab Code:	K0705152-023	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060115	**Units:**	ng/L
Lab Code:	K0705152-024	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	06/27/07	Acceptable

MW 7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060116	**Units:**	ng/L
Lab Code:	K0705152-025	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	103	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060117	**Units:**	ng/L
Lab Code:	K0705152-026	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	82	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060118	**Units:**	ng/L
Lab Code:	K0705152-027	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/25/07	06/27/07	KWG0707093	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	96	70-130	06/27/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060119	**Units:**	ng/L
Lab Code:	K0705152-028	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	75	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060120	**Units:**	ng/L
Lab Code:	K0705152-029	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	79	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060121	**Units:**	ng/L
Lab Code:	K0705152-030	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U J	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	87	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060122	**Units:**	ng/L
Lab Code:	K0705152-031	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	77	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K0705152
Project:	NDMA	**Date Collected:**	06/14/2007
Sample Matrix:	Water	**Date Received:**	06/15/2007

Nitrosamines by EPA 521

Sample Name:	07060123	**Units:**	ng/L
Lab Code:	K0705152-032	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	521		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	2.0	1	06/27/07	06/28/07	KWG0707222	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
N-Nitrosodimethylamine-d6	86	70-130	06/28/07	Acceptable

MW
7-9-07

Comments:

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Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 26, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 31 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Perchlorate (EPA SW-846 Method 6860) analysis was performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

07060001	07060002	07060003	07060004	07060005	07060006
07060007	07060008	07060009	07060010	07060011	07060012
07060013	07060014	07060015	07060016	07060017	07060018
07060019	07060020	07060021	07060022	07060023	07060024
07060025	07060026	07060027	07060028	07060029	07060030
07060031					

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on June 11, 2007, and were analyzed for perchlorate by June 20, 2007, therefore meeting QC criteria of less than 28 days between collection and analysis.

2. **Initial Calibration: Acceptable.**

The correlation coefficient for perchlorate was greater than 0.995.

3. **Continuing Calibration: Acceptable.**

All initial and continuing calibration verifications for perchlorate were within QC limits.

recycled paper

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Acceptable.

MS/MSD and BS/BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

6. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

8. Internal Recovery and Calibration Standard (IRCS): Acceptable.

All IRCS results were within QC limits.

9. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

10. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060001
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-001
Matrix:	WATER	**Lab WorkOrder:**	J0T4N1AA
% Moisture:	N/A	**Date/Time Collected:**	06/10/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 19:08
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.028**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060002
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-002
Matrix:	WATER	**Lab WorkOrder:**	J0T4Q1AA
% Moisture:	N/A	**Date/Time Collected:**	06/10/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 20:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
6860

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060003
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-003
Matrix:	WATER	**Lab WorkOrder:**	J0T4R1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 20:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.22**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060004
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-004
Matrix:	WATER	**Lab WorkOrder:**	J0T4T1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 21:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.31**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060005
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-005
Matrix:	WATER	**Lab WorkOrder:**	J0T4V1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 21:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.49	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060006
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-006
Matrix:	WATER	**Lab WorkOrder:**	J0T4W1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 23:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.55	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060007
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-007
Matrix:	WATER	**Lab WorkOrder:**	J0T4X1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 23:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.53	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060008
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-008
Matrix:	WATER	**Lab WorkOrder:**	J0T401AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/15/07 23:52
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.56**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
-					

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060009
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-009
Matrix:	WATER	**Lab WorkOrder:**	J0T411AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 00:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW 06-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060010
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-010
Matrix:	WATER	**Lab WorkOrder:**	J0T431AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 00:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.066**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060011
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-011
Matrix:	WATER	**Lab WorkOrder:**	J0T441AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 01:09
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.097**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

JMW 6/26/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060012
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-012
Matrix:	WATER	**Lab WorkOrder:**	J0T451AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 01:35
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.31**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060013
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-013
Matrix:	WATER	**Lab WorkOrder:**	J0T461AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 02:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.31	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060014
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-014
Matrix:	WATER	**Lab WorkOrder:**	J0T471AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 02:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.28**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

VMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060015
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-015
Matrix:	WATER	**Lab WorkOrder:**	J0T481AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 02:52
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.81**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060016
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-016
Matrix:	WATER	**Lab WorkOrder:**	J0T491AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 04:09
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.63	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060017
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-017
Matrix:	WATER	**Lab WorkOrder:**	J0T5A1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 04:35
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.69**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060018
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-018
Matrix:	WATER	**Lab WorkOrder:**	J0T5C1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 05:01
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.66**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-28-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060019
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-019
Matrix:	WATER	**Lab WorkOrder:**	J0T5D1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/16/07 05:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.75	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060020
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-020
Matrix:	WATER	**Lab WorkOrder:**	J0T5E1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/15/07 15:09
QC Batch ID:	7166447	**Date/Time Analyzed:**	06/17/07 23:23
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060021
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-021
Matrix:	WATER	**Lab WorkOrder:**	J0T5F1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 14:20
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.0**	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060022
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-022
Matrix:	WATER	**Lab WorkOrder:**	J0T5H1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 00:48
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.097**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MN 6/26/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060023
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-023
Matrix:	WATER	**Lab WorkOrder:**	J0T5J1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 15:37
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**1.2**	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMN
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060024
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-024
Matrix:	WATER	**Lab WorkOrder:**	J0T5L1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 01:39
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.72**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060025
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-025
Matrix:	WATER	**Lab WorkOrder:**	J0T5M1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 02:57
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.050**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

JMW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060026
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-026
Matrix:	WATER	**Lab WorkOrder:**	J0T5N1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 03:22
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.054**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060027
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-027
Matrix:	WATER	**Lab WorkOrder:**	J0T5P1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 03:48
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060028
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-028
Matrix:	WATER	**Lab WorkOrder:**	J0T5R1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 04:14
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060029
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-029
Matrix:	WATER	**Lab WorkOrder:**	J0T5T1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 04:40
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.055	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MN
6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060030
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-030
Matrix:	WATER	**Lab WorkOrder:**	J0T5V1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 05:05
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.039**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

JMW 6-26-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060031
Lot/SDG Number:	D7F120383	**Lab Sample ID:**	D7F120383-031
Matrix:	WATER	**Lab WorkOrder:**	J0T5W1AA
% Moisture:	N/A	**Date/Time Collected:**	06/11/07 00:00
Basis:	Wet	**Date/Time Received:**	06/12/07 08:30
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/19/07 13:59
QC Batch ID:	7170415	**Date/Time Analyzed:**	06/20/07 05:31
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.50**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 6-26-07

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MEMORANDUM

DATE: July 3, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 28 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Perchlorate (EPA SW-846 Method 6860) analysis was performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

07060032	07060033	07060034	07060035	07060036	07060037
07060038	07060039	07060040	07060041	07060042	07060043
07060044	07060045	07060046	07060047	07060048	07060049
07060050	07060051	07060052	07060053	07060054	07060055
07060056	07060057	07060058	07060059		

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on June 12, 2007, and were analyzed for perchlorate by June 23, 2007, therefore meeting QC criteria of less than 28 days between collection and analysis.

2. **Initial Calibration: Acceptable.**

The correlation coefficient for perchlorate was greater than 0.995.

3. **Continuing Calibration: Acceptable.**

All initial and continuing calibration verifications for perchlorate were within QC limits.

recycled paper

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable blank.

5. **Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Acceptable.**

MS/MSD and BS/BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

6. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

8. **Internal Recovery and Calibration Standard (IRCS): Acceptable.**

All IRCS results were within laboratory QC limits.

9. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

10. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060032
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-001
Matrix:	WATER	**Lab WorkOrder:**	J0XVV1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 14:55
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.5	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060033
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-002
Matrix:	WATER	**Lab WorkOrder:**	J0XV01AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 00:02
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.64	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-30-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060034
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-003
Matrix:	WATER	**Lab WorkOrder:**	J0XV21AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 00:27
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.50**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7307

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060035
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-004
Matrix:	WATER	**Lab WorkOrder:**	J0XV31AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 00:53
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.35**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060036
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-005
Matrix:	WATER	**Lab WorkOrder:**	J0XV41AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 01:19
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.26**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7307

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060037
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-006
Matrix:	WATER	**Lab WorkOrder:**	J0XV51AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 01:45
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.53	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060038
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-007
Matrix:	WATER	**Lab WorkOrder:**	J0XV71AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 15:21
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.4	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-30-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060039
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-008
Matrix:	WATER	**Lab WorkOrder:**	J0XV81AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 03:28
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.31	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060040
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-009
Matrix:	WATER	**Lab WorkOrder:**	J0XV91AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 15:47
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060041
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-010
Matrix:	WATER	**Lab WorkOrder:**	J0XWC1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 16:13
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060042
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-011
Matrix:	WATER	**Lab WorkOrder:**	J0XWD1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 17:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.9	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060043
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-012
Matrix:	WATER	**Lab WorkOrder:**	J0XW11AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 17:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060044
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-013
Matrix:	WATER	**Lab WorkOrder:**	J0XW21AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 18:21
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060045
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-014
Matrix:	WATER	**Lab WorkOrder:**	J0XW41AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 06:54
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.89	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060046
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-015
Matrix:	WATER	**Lab WorkOrder:**	J0XW51AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 07:19
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.26**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060047
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-016
Matrix:	WATER	**Lab WorkOrder:**	J0XW61AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 08:37
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.27**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060048
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-017
Matrix:	WATER	**Lab WorkOrder:**	J0XW71AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 18:47
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.4	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060049
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-018
Matrix:	WATER	**Lab WorkOrder:**	J0XW81AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 09:28
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.043	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7307

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060050
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-019
Matrix:	WATER	**Lab WorkOrder:**	J0XW91AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 20:04
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.5	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-30-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060051
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-020
Matrix:	WATER	**Lab WorkOrder:**	J0XXF1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/18/07 15:28
QC Batch ID:	7169432	**Date/Time Analyzed:**	06/19/07 10:20
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.81**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060052
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-021
Matrix:	WATER	**Lab WorkOrder:**	J0XXG1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	µg/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/23/07 20:46
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.29**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060053
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-022
Matrix:	WATER	**Lab WorkOrder:**	J0XXH1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/23/07 21:12
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060054
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-023
Matrix:	WATER	**Lab WorkOrder:**	J0XXJ1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/23/07 21:38
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060055
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-024
Matrix:	WATER	**Lab WorkOrder:**	J0XXK1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/23/07 22:03
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.13	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060056
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-025
Matrix:	WATER	**Lab WorkOrder:**	J0XXL1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/22/07 08:29
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.57**	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060057
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-026
Matrix:	WATER	**Lab WorkOrder:**	J0XXM1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/22/07 08:55
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.3	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060058
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-027
Matrix:	WATER	**Lab WorkOrder:**	J0XXN1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/22/07 09:20
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.55	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	STL DENVER	**Client Sample ID:**	07060059
Lot/SDG Number:	D7F130357	**Lab Sample ID:**	D7F130357-028
Matrix:	WATER	**Lab WorkOrder:**	J0XXP1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/13/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/21/07 14:00
QC Batch ID:	7172388	**Date/Time Analyzed:**	06/23/07 22:29
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.19**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-3-07

ecology and environment, inc.
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720 Third Avenue, Suite 1700, Seattle, WA 98104
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MEMORANDUM

DATE: July 9, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 32 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Perchlorate (EPA SW-846 Method 6860) analysis was performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

07060060	07060061	07060062	07060063	07060064	07060065
07060066	07060067	07060068	07060069	07060070	07060071
07060072	07060073	07060074	07060075	07060076	07060077
07060078	07060079	07060080	07060081	07060082	07060083
07060084	07060085	07060086	07060087	07060088	07060089
07060090	07060091				

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on June 12 or 13, 2007, were analyzed for perchlorate by June 30, 2007, therefore meeting QC criteria of less than 28 days between collection and analysis.

2. **Initial Calibration: Acceptable.**

The correlation coefficient for perchlorate was greater than 0.995.

3. **Continuing Calibration: Acceptable.**

All initial and continuing calibration verifications for perchlorate were within QC limits.

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Satisfactory.

MS/MSD and BS/BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the MSD recovery for sample 07060061 and the MS and MSD recoveries for sample 07060081, all with low recoveries. Sample quantitation limits in samples 07060061 and 07060081 were qualified as estimated quantities (UJ).

6. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

8. Internal Recovery and Calibration Standard (IRCS): Acceptable.

All IRCS results were within QC limits.

9. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

10. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

<u>Data Qualifiers and Definitions</u>

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for but was not detected. The associated numerical value is the estimated sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060060
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-001
Matrix:	WATER	**Lab WorkOrder:**	J024A1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/22/07 11:55
QC Batch ID:	7173302	**Date/Time Analyzed:**	06/24/07 07:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.30	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060061
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-002
Matrix:	WATER	**Lab WorkOrder:**	J024G1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/22/07 11:55
QC Batch ID:	7173302	**Date/Time Analyzed:**	06/24/07 07:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.38	J 0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060062
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-003
Matrix:	WATER	**Lab WorkOrder:**	J024J1AA
% Moisture:	N/A	**Date/Time Collected:**	06/12/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/22/07 11:55
QC Batch ID:	7173302	**Date/Time Analyzed:**	06/24/07 09:13
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.17	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060063
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-004
Matrix:	WATER	**Lab WorkOrder:**	J024L1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 12:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.14	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-9-07

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060064
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-005
Matrix:	WATER	**Lab WorkOrder:**	J024N1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 12:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.69	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060065
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-006
Matrix:	WATER	**Lab WorkOrder:**	J024Q1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 00:14
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060066
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-007
Matrix:	WATER	**Lab WorkOrder:**	J024R1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 13:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060067
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-008
Matrix:	WATER	**Lab WorkOrder:**	J024V1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 14:09
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.59	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060068
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-009
Matrix:	WATER	**Lab WorkOrder:**	J024X1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 14:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.46	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060069
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-010
Matrix:	WATER	**Lab WorkOrder:**	J02401AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 00:40
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.6	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060070
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-011
Matrix:	WATER	**Lab WorkOrder:**	J02411AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 13:59
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060071
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-012
Matrix:	WATER	**Lab WorkOrder:**	J02421AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 14:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.0	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060072
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-013
Matrix:	WATER	**Lab WorkOrder:**	J02431AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 18:13
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060073
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-014
Matrix:	WATER	**Lab WorkOrder:**	J02441AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 14:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.96**	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060074
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-015
Matrix:	WATER	**Lab WorkOrder:**	J02451AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 19:05
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.47	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060075
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-016
Matrix:	WATER	**Lab WorkOrder:**	J02461AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 19:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060076
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-017
Matrix:	WATER	**Lab WorkOrder:**	J02471AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 19:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.021**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060077
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-018
Matrix:	WATER	**Lab WorkOrder:**	J02481AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 15:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	2.0	0.088	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060078
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-019
Matrix:	WATER	**Lab WorkOrder:**	J025C1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 15:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.2	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060079
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-020
Matrix:	WATER	**Lab WorkOrder:**	J025D1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 16:08
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	1.1	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-10

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060080
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-021
Matrix:	WATER	**Lab WorkOrder:**	J025E1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/26/07 16:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.98	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060081
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-022
Matrix:	WATER	**Lab WorkOrder:**	J025G1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/25/07 10:41
QC Batch ID:	7176242	**Date/Time Analyzed:**	06/25/07 22:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.53	J 0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060082
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-023
Matrix:	WATER	**Lab WorkOrder:**	J025J1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 06:39
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.23**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060083
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-024
Matrix:	WATER	**Lab WorkOrder:**	J025K1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 07:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.67	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060084
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-025
Matrix:	WATER	**Lab WorkOrder:**	J025L1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 08:24
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.61**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MV
7-9-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060085
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-026
Matrix:	WATER	**Lab WorkOrder:**	J025M1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 20:37
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.70**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form I Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060086
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-027
Matrix:	WATER	**Lab WorkOrder:**	J025N1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/30/07 00:42
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.91**	0.044	0.50	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060087
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-028
Matrix:	WATER	**Lab WorkOrder:**	J025P1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/30/07 01:08
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060088
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-029
Matrix:	WATER	**Lab WorkOrder:**	J025Q1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 21:54
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060089
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-030
Matrix:	WATER	**Lab WorkOrder:**	J025R1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 22:20
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060090
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-031
Matrix:	WATER	**Lab WorkOrder:**	J025T1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 22:45
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060091
Lot/SDG Number:	D7F140412	**Lab Sample ID:**	D7F140412-032
Matrix:	WATER	**Lab WorkOrder:**	J025V1AA
% Moisture:	N/A	**Date/Time Collected:**	06/13/07 00:00
Basis:	Wet	**Date/Time Received:**	06/14/07 09:00
Analysis Method:	6860	**Date Leacbed:**	
Unit:	ug/L	**Date/Time Extracted:**	06/27/07 16:24
QC Batch ID:	7178612	**Date/Time Analyzed:**	06/28/07 23:11
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.82**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-9-07

Form 1 Analysis Data Sheet Equivalent

ecology and environment, inc.
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MEMORANDUM

DATE: July 12, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-03-0009 PAN: 002233.0070.01SF

The data quality assurance review of 32 water samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Perchlorate (EPA SW-846 Method 6860) analysis was performed by STL-Denver, Arvada, Colorado.

The samples were numbered:

07060092	07060093	07060094	07060095	07060096	07060097
07060098	07060099	07060100	07060101	07060102	07060103
07060104	07060105	07060106	07060107	07060108	07060109
07060110	07060111	07060112	07060113	07060114	07060115
07060116	07060117	07060118	07060119	07060120	07060121
07060122	07060123				

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected on June 14, 2007, and were analyzed for perchlorate by July 3, 2007, therefore meeting QC criteria of less than 28 days between collection and analysis.

2. **Initial Calibration: Acceptable.**

The correlation coefficient for perchlorate was greater than 0.995.

3. **Continuing Calibration: Acceptable.**

All initial and continuing calibration verifications for perchlorate were within QC limits.

4. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any applicable method blank.

5. Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Acceptable.

MS/MSD and BS/BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

6. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

8. Internal Recovery and Calibration Standard (IRCS): Acceptable.

All IRCS results were within QC limits.

9. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

10. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample quantitation limits or because quality control criteria limits were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060092
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-001
Matrix:	WATER	**Lab WorkOrder:**	J06T71AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 18:42
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.014**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW 7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060093
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-002
Matrix:	WATER	**Lab WorkOrder:**	J06T81AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 19:07
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.68**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060094
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-003
Matrix:	WATER	**Lab WorkOrder:**	J06T91AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 19:33
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060095
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-004
Matrix:	WATER	**Lab WorkOrder:**	J06VA1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 19:59
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060096
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-005
Matrix:	WATER	**Lab WorkOrder:**	J06VC1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 20:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.40**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060097
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-006
Matrix:	WATER	**Lab WorkOrder:**	J06VD1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 20:50
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.46	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060098
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-007
Matrix:	WATER	**Lab WorkOrder:**	J06VE1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 22:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.45**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060099
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-008
Matrix:	WATER	**Lab WorkOrder:**	J06VG1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 22:59
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.41	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/13/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060100
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-009
Matrix:	WATER	**Lab WorkOrder:**	J06VH1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 23:25
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.37	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-3-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060101
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-010
Matrix:	WATER	**Lab WorkOrder:**	J06VJ1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/02/07 23:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.35	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW 7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060102
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-011
Matrix:	WATER	**Lab WorkOrder:**	J06VK1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 01:08
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.61**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060103
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-012
Matrix:	WATER	**Lab WorkOrder:**	J06VL1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 02:51
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060104
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-013
Matrix:	WATER	**Lab WorkOrder:**	J06VQ1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 03:17
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.42**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060105
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-014
Matrix:	WATER	**Lab WorkOrder:**	J06VR1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 03:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.55**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN 7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060106
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-015
Matrix:	WATER	**Lab WorkOrder:**	J06VT1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 04:08
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.40**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW 7/13/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060107
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-016
Matrix:	WATER	**Lab WorkOrder:**	J06VV1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	06/29/07 13:33
QC Batch ID:	7180407	**Date/Time Analyzed:**	07/03/07 04:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.42	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/30/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060108
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-017
Matrix:	WATER	**Lab WorkOrder:**	J06VW1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 07:34
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.066**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060109
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-018
Matrix:	WATER	**Lab WorkOrder:**	J06VX1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 08:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.56**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060110
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-019
Matrix:	WATER	**Lab WorkOrder:**	J06V01AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 08:30
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.48**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060111
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-020
Matrix:	WATER	**Lab WorkOrder:**	J06V21AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 08:56
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060112
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-021
Matrix:	WATER	**Lab WorkOrder:**	J06V31AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 14:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.77	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-B-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060113
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-022
Matrix:	WATER	**Lab WorkOrder:**	J06V41AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 15:00
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.022**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7/13/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060114
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-023
Matrix:	WATER	**Lab WorkOrder:**	J06V51AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 15:29
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.63	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060115
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-024
Matrix:	WATER	**Lab WorkOrder:**	J06V61AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 15:58
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.70	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060116
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-025
Matrix:	WATER	**Lab WorkOrder:**	J06V71AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 16:26
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.016**	0.0088	0.10	J

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

J Estimated result. Result is less than RL.

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060117
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-026
Matrix:	WATER	**Lab WorkOrder:**	J06V81AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 16:55
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/30

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060118
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-027
Matrix:	WATER	**Lab WorkOrder:**	J06V91AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 17:24
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	**0.70**	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

JMW
7-13-07

Form 1 Analysis Data Sheet Equivalent

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060119
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-028
Matrix:	WATER	**Lab WorkOrder:**	J06WA1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 18:50
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060120
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-029
Matrix:	WATER	**Lab WorkOrder:**	J06WC1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 19:19
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MN
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060121
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-030
Matrix:	WATER	**Lab WorkOrder:**	J06WD1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 19:48
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060122
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-031
Matrix:	WATER	**Lab WorkOrder:**	J06WE1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 21:14
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.0088	0.0088	0.10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7/3/07

STL

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07060123
Lot/SDG Number:	D7F150444	**Lab Sample ID:**	D7F150444-032
Matrix:	WATER	**Lab WorkOrder:**	J06WG1AA
% Moisture:	N/A	**Date/Time Collected:**	06/14/07 00:00
Basis:	Wet	**Date/Time Received:**	06/15/07 09:00
Analysis Method:	6860	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	07/02/07 15:30
QC Batch ID:	7183465	**Date/Time Analyzed:**	07/03/07 21:43
Sample Aliquot:	5 mL	**Instrument ID:**	LCMS1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
14797-73-0	Perchlorate	0.20	0.0088	0.10	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q

U Result is less than the method detection limit (MDL).

MW
7-13-07

STL Denver

Form 1 Analysis Data Sheet Equivalent

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MEMORANDUM

DATE: January 21, 2008

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Groundwater Site, Reardan, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of 47 soil gas module samples collected from the Euclid Road Groundwater site in Reardan, Washington, has been completed. Volatile organic compound (VOC) analysis (modified EPA SW-846 Method 8260) was performed by the Gore Screening Modules Laboratory, Elkton, Massachusetts.

The samples were numbered:

07100541	07100542	07100543	07100544	07100545
07100546	07100547	07100548	07100549	07100550
07100551	07100552	07100553	07100554	07100555
07100556	07100557	07100558	07100559	07100560
07100561	07100562	07100563	07100564	07100566
07100567	07100568	07100569	07100570	07100571
07100572	07111001	07111002	07111003	07111004
07111005	07111006	07111007	07111008	07111009
07111010	07111011	07111012	07111013	07111014
07111015	07111016			

Sample number 07100565 was not retrieved and was not submitted. Sample numbers listed above correspond with the Sample Names listed on the attached data sheets in order (i.e., 07100541 = 553891, ...).

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were installed on October 24 or November 7, 2007, were collected on November 7, 2007, and were analyzed by November 13, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for VOCs.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All Relative Standard Deviations (RSDs) were less than the QC limits of 25%.

4. **Continuing Calibration: Acceptable.**

All % differences were less than the QC limit of 25%.

5. **Blanks: Acceptable.**

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. **System Monitoring Compounds (SMCs): Not Required.**

SMCs are not required for this method.

7. **Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Not Required.**

MS/MSD analyses are not required for this method.

8. **Duplicate Analysis: Not Required.**

Duplicates are not required for this method.

9. **Internal Standards: Not Required.**

Internal standards are not required for this method.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

GORE(TM) SURVEYS ANALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED TARGET COMPOUNDS (A10+VC)
EUCLID ROAD GW SITE, SPOKANE, WA
SITE DZN - PRODUCTION ORDER #13381512

DATE ANALYZED	SAMPLE NAME	CIBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	111TCA, ug	12DCA, ug	TCE, ug	PCE, ug
	MDL=	0.01		0.02	0.02	0.05	0.02	0.01	0.01	0.02
11-13-07	553891	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553892	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553893	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553894	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553895	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553896	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553897	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553898	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553905	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553906	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553907	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553908	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553909	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553910	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553911	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553912	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553913	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553914	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553915	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553916	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553917	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553918	0.03	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553919	0.01 nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553920	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553922	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553923	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553924	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553925	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553926	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553927	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553928	nd	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

DZNcust.xls

MW 12-08

GORE(TM) SURVEYS ANALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED TARGET COMPOUNDS (A10+VC)
EUCLID ROAD GW SITE, SPOKANE, WA
SITE DZN - PRODUCTION ORDER #13381512

DATE ANALYZED	SAMPLE NAME	ClBENZ, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	11DCA, ug	111TCA, ug	12DCA, ug	TCE, ug	PCE, ug
	MDL=	0.01		0.02	0.02	0.05	0.02	0.01	0.01	0.02
11-13-07	553929	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553930	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553931	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	553932	nd	nd	nd	nd	nd	nd	nd	0.02	nd
11-12-07	553933	nd	nd	nd	nd	nd	nd	nd	0.01 nd	nd
11-13-07	553934	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553935	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553936	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553937	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553938	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553939	nd	nd	nd	nd	nd	nd	nd	0.01	nd
11-13-07	553940	nd	nd	nd	nd	nd	nd	nd	0.01 bdl	nd
11-13-07	553941	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553942	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553943	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	553944	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-12-07	method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
11-13-07	method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
	Standard Dev.	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

B-885

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

DZNcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED TARGET COMPOUNDS (A10+VC)
EUCLID ROAD GW SITE, SPOKANE, WA
SITE DZN - PRODUCTION ORDER #13381512

SAMPLE NAME	14DCB, ug	VC, ug	11DCE, ug	CHCl3, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.31	0.02	0.05	0.05	0.05	0.01	0.05	0.01	0.05
553891	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553892	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553893	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553894	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553895	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553896	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553897	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553898	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553905	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553906	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553907	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553908	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553909	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553910	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553911	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553912	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553913	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553914	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553915	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553916	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553917	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553918	0.03	nd	nd	nd	nd	bdl	0.01	nd	0.02	bdl
553919	0.01 nd	nd	nd	nd	nd	nd	0.01 nd	nd	0.01 nd	nd
553920	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553922	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553923	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553924	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553925	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553926	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553927	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553928	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

B-886

MW 1-2-08

DZNcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
ECOLOGY AND ENVIRONMENT, INC., SEATTLE, WA
GORE CHLORINATED TARGET COMPOUNDS (A10+VC)
EUCLID ROAD GW SITE, SPOKANE, WA
SITE DZN - PRODUCTION ORDER #13381512

SAMPLE NAME	14DCB, ug	VC, ug	11DCE, ug	CHCl3, ug	CCl4, ug	112TCA, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.01	0.31	0.02	0.05	0.05	0.05	0.01	0.05	0.01	0.05
553929	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553930	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553931	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553932	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553933	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553934	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553935	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553936	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553937	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553938	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553939	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553940	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553941	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553942	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553943	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
553944	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.03	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.02	0.02
Standard Dev.	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

B-887

MW 12-08

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported [illegible]ues should be considered ESTIMATED if any of the individual c[illegible]ds were reported as bdl.

DZNcust.xls

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: November 28, 2007

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road TCE Monitoring Site, Reardan, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of 22 water samples collected from the Euclid Road TCE Monitoring site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260) was performed by TestAmerica-Denver, Inc., Arvada, Colorado.

The samples were numbered:

07100501	07100502	07100503	07100504	07100505
07100506	07100507	07100508	07100509	07100510
07100511	07100512	07100513	07100514	07100515
07100516	07100517	07100518	07100519	07100520
07100521	07100522			

Data Qualifications:

1. Sample Holding Times: Acceptable.

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected between October 24 and 26, 2007, and were analyzed for TCE on October 31 or November 1, 2007, therefore meeting QC criteria of less than 7 days between collection and analysis for TCE in unpreserved water samples.

2. Tuning: Acceptable.

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. Initial Calibration: Acceptable.

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

4. Continuing Calibration: Acceptable.

recycled paper

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%.

5. Blanks: Acceptable.

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. System Monitoring Compounds (SMCs): Acceptable.

All SMC recoveries were within QC limits.

7. Blank Spike (BS)/BS Duplicate (BSD)/Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

BS, BSD, MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100501
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-012
Matrix:	WATER	**Lab WorkOrder:**	J92R61AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 00:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 14:09
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	104	78	118	
1868-53-7	Dibromofluoromethane	100	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form 1 Analysis Data Sheet Equivalent

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100502
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-001
Matrix:	WATER	**Lab WorkOrder:**	J92RR1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 10:20
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 10:09
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	69	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	107	79	119	
460-00-4	4-Bromofluorobenzene	108	75	115	

U Result is less than the method detection limit (MDL).

2MW 11-28-07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100503
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-002
Matrix:	WATER	**Lab WorkOrder:**	J92RT1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 10:20
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 10:27
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	1.8	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	103	75	115	

U Result is less than the method detection limit (MDL).

ANW 11-28-07

Form 1 Analysis Data Sheet Equivalent

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100504
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-003
Matrix:	WATER	**Lab WorkOrder:**	J92RV1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 10:20
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 10:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	109	79	119	
460-00-4	4-Bromofluorobenzene	108	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100505
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-004
Matrix:	WATER	**Lab WorkOrder:**	J92RW1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 08:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 11:04
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	65	126	
2037-26-5	Toluene-d8	108	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

JM 11-28-07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100506
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-005
Matrix:	WATER	**Lab WorkOrder:**	J92RX1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 08:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 11:23
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	103	75	115	

U Result is less than the method detection limit (MDL).

JMW 11-28-07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100507
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-006
Matrix:	WATER	**Lab WorkOrder:**	J92R01AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 08:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 11:41
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**120**	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	112	65	126	
2037-26-5	Toluene-d8	106	78	118	
1868-53-7	Dibromofluoromethane	111	79	119	
460-00-4	4-Bromofluorobenzene	108	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form 1 Analysis Data Sheet Equivalent

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Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100508
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-007
Matrix:	WATER	**Lab WorkOrder:**	J92R11AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 11:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 12:00
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	16	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	102	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	102	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

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Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100509
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-008
Matrix:	WATER	**Lab WorkOrder:**	J92R21AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 11:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	117	65	126	
2037-26-5	Toluene-d8	113	78	118	
1868-53-7	Dibromofluoromethane	118	79	119	
460-00-4	4-Bromofluorobenzene	110	75	115	

U Result is less than the method detection limit (MDL).

JMW 11-28-07

Form 1 Analysis Data Sheet Equivalent

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Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100510
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-009
Matrix:	WATER	**Lab WorkOrder:**	J92R31AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 11:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 12:37
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	109	65	126	
2037-26-5	Toluene-d8	110	78	118	
1868-53-7	Dibromofluoromethane	110	79	119	
460-00-4	4-Bromofluorobenzene	112	75	115	

U Result is less than the method detection limit (MDL).

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Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100511
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-010
Matrix:	WATER	**Lab WorkOrder:**	J92R41AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 10:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 12:55
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	95	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

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Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100512
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-011
Matrix:	WATER	**Lab WorkOrder:**	J92R51AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 11:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 13:50
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	103	78	118	
1868-53-7	Dibromofluoromethane	108	79	119	
460-00-4	4-Bromofluorobenzene	98	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100513
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-013
Matrix:	WATER	**Lab WorkOrder:**	J92R71AA
% Moisture:	N/A	**Date/Time Collected:**	10/25/07 11:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 15:22
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	8.7	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	65	126	
2037-26-5	Toluene-d8	105	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

MW 12-8-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100514
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-014
Matrix:	WATER	**Lab WorkOrder:**	J92R81AA
% Moisture:	N/A	**Date/Time Collected:**	10/25/07 12:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 15:40
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**110**	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	65	126	
2037-26-5	Toluene-d8	109	78	118	
1868-53-7	Dibromofluoromethane	104	79	119	
460-00-4	4-Bromofluorobenzene	109	75	115	

U Result is less than the method detection limit (MDL).

11-28-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100515
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-015
Matrix:	WATER	**Lab WorkOrder:**	J92R91AA
% Moisture:	N/A	**Date/Time Collected:**	10/25/07 13:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 15:59
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**160**	0.80	5.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	65	126	
2037-26-5	Toluene-d8	107	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	104	75	115	

U Result is less than the method detection limit (MDL).

11-28-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100516
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-016
Matrix:	WATER	**Lab WorkOrder:**	J92TA1AA
% Moisture:	N/A	**Date/Time Collected:**	10/25/07 14:00
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 16:17
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	**120**	0.64	4.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	65	126	
2037-26-5	Toluene-d8	114	78	118	
1868-53-7	Dibromofluoromethane	106	79	119	
460-00-4	4-Bromofluorobenzene	102	75	115	

U Result is less than the method detection limit (MDL).

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Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100517
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-017
Matrix:	WATER	**Lab WorkOrder:**	J92TC1AA
% Moisture:	N/A	**Date/Time Collected:**	10/26/07 09:45
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 06:29
QC Batch ID:	7305194	**Date/Time Analyzed:**	10/31/07 15:02
Sample Aliquot:	20 mL	**Instrument ID:**	Z
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	92	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	101	79	119	
460-00-4	4-Bromofluorobenzene	108	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form 1 Analysis Data Sheet Equivalent

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Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100518
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-018
Matrix:	WATER	**Lab WorkOrder:**	J92TD1AA
% Moisture:	N/A	**Date/Time Collected:**	10/26/07 09:05
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 06:29
QC Batch ID:	7305194	**Date/Time Analyzed:**	10/31/07 15:23
Sample Aliquot:	20 mL	**Instrument ID:**	Z
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	1.7	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	86	65	126	
2037-26-5	Toluene-d8	95	78	118	
1868-53-7	Dibromofluoromethane	98	79	119	
460-00-4	4-Bromofluorobenzene	106	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form I Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100519
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-019
Matrix:	WATER	**Lab WorkOrder:**	J92TE1AA
% Moisture:	N/A	**Date/Time Collected:**	10/26/07 08:30
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	11/01/07 08:47
QC Batch ID:	7306101	**Date/Time Analyzed:**	11/01/07 11:27
Sample Aliquot:	20 mL	**Instrument ID:**	H
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	88	78	118	
1868-53-7	Dibromofluoromethane	102	79	119	
460-00-4	4-Bromofluorobenzene	97	75	115	

U Result is less than the method detection limit (MDL).

JMW 11-28-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100520
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-020
Matrix:	WATER	**Lab WorkOrder:**	J92TF1AA
% Moisture:	N/A	**Date/Time Collected:**	10/26/07 07:45
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	11/01/07 08:47
QC Batch ID:	7306101	**Date/Time Analyzed:**	11/01/07 11:48
Sample Aliquot:	20 mL	**Instrument ID:**	H
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	85	65	126	
2037-26-5	Toluene-d8	87	78	118	
1868-53-7	Dibromofluoromethane	105	79	119	
460-00-4	4-Bromofluorobenzene	94	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

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Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100521
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-021
Matrix:	WATER	**Lab WorkOrder:**	J92TG1AA
% Moisture:	N/A	**Date/Time Collected:**	10/24/07 10:40
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 08:23
QC Batch ID:	7305076	**Date/Time Analyzed:**	10/31/07 16:35
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	23	0.16	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	65	126	
2037-26-5	Toluene-d8	107	78	118	
1868-53-7	Dibromofluoromethane	99	79	119	
460-00-4	4-Bromofluorobenzene	110	75	115	

U Result is less than the method detection limit (MDL).

MW 11-8-07

Form 1 Analysis Data Sheet Equivalent

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THE LEADER IN ENVIRONMENTAL TESTING

Ecology and Environment, Inc.

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	07100522
Lot/SDG Number:	D7J270230	**Lab Sample ID:**	D7J270230-022
Matrix:	WATER	**Lab WorkOrder:**	J92TJ1AA
% Moisture:	N/A	**Date/Time Collected:**	10/25/07 14:20
Basis:	Wet	**Date/Time Received:**	10/27/07 08:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	10/31/07 06:29
QC Batch ID:	7305194	**Date/Time Analyzed:**	10/31/07 15:43
Sample Aliquot:	20 mL	**Instrument ID:**	Z
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-01-6	Trichloroethene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	82	65	126	
2037-26-5	Toluene-d8	94	78	118	
1868-53-7	Dibromofluoromethane	96	79	119	
460-00-4	4-Bromofluorobenzene	105	75	115	

U Result is less than the method detection limit (MDL).

MW 11-28-07

Form 1 Analysis Data Sheet Equivalent

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 16, 2009

TO: Mark Woodke, START-3 Project Manager, E & E, Seattle, Washington

FROM: David Ikeda Chemist, E & E, Seattle, Washington for DI

SUBJ: **Organic Data Quality Assurance Review, Euclid Road Site, Spokane, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of 6 SUMMA samples collected from the Euclid Road site located in Spokane, Washington, has been completed. Trichloroethylene (TCE) analysis (modified EPA TO-15 simultaneous ion monitoring mode [SIM]) was performed by Air Toxics, Ltd., Folsom, California.

The samples were numbered:

09060019	09060024
09060022	09060025
09060023	09060026

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were collected on June 30, 2009, and were analyzed by July 13, 2009, therefore meeting QC criteria of less than 28 days between collection and analysis for SUMMA samples.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

The TCE average Relative Response Factor (RRF) was greater than the QC limit of 0.050. All TCE Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

4. **Continuing Calibration: Satisfactory.**

All TCE RRF were greater than the QC limit of 0.050. All TCE % differences were less than the QC limits of 25%.

5. **Blanks: Satisfactory.**

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A method blank was analyzed for each 20 samples. There were no detections of TCE in any method blank.

6. System Monitoring Compounds (SMCs): Satisfactory.

All SMC percent recovery values were within QC limits.

7. Matrix Spike (MS)/MS Duplicate (MSD)/Laboratory Control Sample (LCS) Analysis: Satisfactory.

The LCS, analysis was performed per matrix. No matrix spike or matrix spike duplicate sample was performed by the laboratory. All percent recovery values were within QC limits.

8. Duplicate Analysis: Satisfactory.

Laboratory duplicate analysis was performed. All TCE duplicate results were within QC limits except.

9. Internal Standards: Satisfactory.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the site-specific sampling plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060019

Lab ID#: 0907064-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a071310	Date of Collection:	6/30/09 9:00:00 AM
Dil. Factor:	2.12	Date of Analysis:	7/13/09 01:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0064	0.0097	0.034	0.052

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130

MW
for DI
8/6/09

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060022

Lab ID#: 0907064-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a071311	Date of Collection:	6/30/09 9:05:00 AM
Dil. Factor:	2.36	Date of Analysis:	7/13/09 02:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0071	0.030	0.038	0.16

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130

MW for DI
8/6/09

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060023

Lab ID#: 0907064-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**a071312**	**Date of Collection:**	**6/30/09 9:05:00 AM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**7/13/09 02:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0062	0.012	0.033	0.065

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130

MW for DF
8-16-09

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060024

Lab ID#: 0907064-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a071313	Date of Collection:	6/30/09 9:55:00 AM
Dil. Factor:	2.30	Date of Analysis:	7/13/09 03:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0069	0.097	0.037	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130

MW for DF
8/6/09

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060025

Lab ID#: 0907064-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a071314	Date of Collection:	6/30/09 10:00:00 AM
Dil. Factor:	2.01	Date of Analysis:	7/13/09 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0060	0.098	0.032	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130

JM for DI
8/6/09

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 09060026

Lab ID#: 0907064-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a071315	Date of Collection:	6/30/09 10:00:00 AM
Dil. Factor:	2.12	Date of Analysis:	7/13/09 04:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.0064	0.012	0.034	0.063

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130

Mw for DF
8/6/09

ecology and environment, inc.
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720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 31, 2009

FROM: Mark Woodke, START-3 Chemist/Project Manager, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Euclid Road TCE Monitoring Site, Reardan, Washington**

REF: TDD: 06-09-0002 PAN: 002233.0117.01SF

The data quality assurance review of 21 water samples collected from the Euclid Road TCE Monitoring site in Reardan, Washington, has been completed. Trichloroethene (TCE) analysis (EPA SW-846 Method 8260) was performed by OnSite Environmental, Inc., Redmond, Washington.

The samples were numbered:

09060001	09060002	09060003	09060004	09060005	09060006
09060007	09060008	09060009	09060010	09060011	09060012
09060013	09060014	09060015	09060016	09060017	09060018
09060027	09060028	09060029			

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of 4°C ± 2°C. The samples were collected between June 29 and 30, 2009, and were analyzed for TCE by July 8, 2009, therefore meeting QC criteria of less than 14 days between collection and analysis for TCE in preserved water samples.

2. **Tuning: Acceptable.**

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. **Initial Calibration: Acceptable.**

All TCE average Relative Response Factors (RRFs) were greater than the QC limit of 0.050. All TCE water Relative Standard Deviations (RSDs) were less than the QC limits of 30%.

4. **Continuing Calibration: Acceptable.**

All TCE RRFs were greater than the QC limit of 0.050. All TCE % differences were less than the QC limit of 25%.

5. **Blanks: Acceptable.**

Method blanks were analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

recycled paper

6. **System Monitoring Compounds (SMCs): Acceptable.**

All SMC recoveries were within QC limits.

7. **Blank Spike (BS)/BS Duplicate (BSD)/Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.**

BS, BSD, MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. **Internal Standards: Acceptable.**

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

12. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-01
Client ID:	**09060001**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	1.3		0.40

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	84	71-126
Toluene-d8	95	76-116
4-Bromofluorobenzene	90	70-123

MW 8-31-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-02
Client ID:	**09060002**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	130		1.0

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	82	71-126
Toluene-d8	89	76-116
4-Bromofluorobenzene	87	70-123

MN
8-3-09

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-03
Client ID:	**09060003**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	240		1.0

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	85	71-126
Toluene-d8	91	76-116
4-Bromofluorobenzene	95	70-123

MW 8-31-09

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Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-04
Client ID:	**09060004**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	150		1.0

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	84	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	88	70-123

MW
8-3-09

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-05
Client ID:	**09060005**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	82	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	91	70-123

MW 8-31-09

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-06
Client ID:	**09060006**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	1.2		0.20

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	87	71-126
Toluene-d8	93	76-116
4-Bromofluorobenzene	95	70-123

MW
8-31-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-07
Client ID:	**09060007**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	87	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	87	70-123

MW
8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-08
Client ID:	**09060008**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	88	71-126
Toluene-d8	84	76-116
4-Bromofluorobenzene	90	70-123

MW
8-3-09

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Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-09
Client ID:	**09060009**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	69		0.40

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	83	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	94	70-123

MW
8-31-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-10
Client ID:	**09060010**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	93	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	93	70-123

MW
8-31-09

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Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-11
Client ID:	**09060011**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	82	71-126
Toluene-d8	89	76-116
4-Bromofluorobenzene	90	70-123

MW 8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-8-09
Date Analyzed:	7-8-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-12
Client ID:	**09060012**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	60		1.0

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	90	71-126
Toluene-d8	92	76-116
4-Bromofluorobenzene	84	70-123

MW
8-3-09

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Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-13
Client ID:	**09060013**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	89	71-126
Toluene-d8	87	76-116
4-Bromofluorobenzene	87	70-123

MW 8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-14
Client ID:	**09060014**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	90	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	99	70-123

MW
8-31-09

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Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-15
Client ID:	**09060015**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	81	71-126
Toluene-d8	88	76-116
4-Bromofluorobenzene	95	70-123

MW
8-31-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-16
Client ID:	**09060016**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	85	71-126
Toluene-d8	89	76-116
4-Bromofluorobenzene	95	70-123

MW
8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-17
Client ID:	**09060017**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	22		0.20

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	86	71-126
Toluene-d8	90	76-116
4-Bromofluorobenzene	98	70-123

MW
8-3-09

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-18
Client ID:	**09060018**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	83	71-126
Toluene-d8	83	76-116
4-Bromofluorobenzene	82	70-123

MW
8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-19
Client ID:	**09060027**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	81	71-126
Toluene-d8	86	76-116
4-Bromofluorobenzene	89	70-123

MW
8-3-09

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-4-09
Date Analyzed:	7-4-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-20
Client ID:	**09060028**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20 U

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	87	71-126
Toluene-d8	85	76-116
4-Bromofluorobenzene	92	70-123

MW
8-31-09

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 13, 2009
Samples Submitted: July 1, 2009
Laboratory Reference: 0907-011
Project: 06090002

VOLATILES by EPA 8260B

Date Extracted:	7-8-09
Date Analyzed:	7-8-09
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	07-011-21
Client ID:	**09060029**

Compound	**Results**	**Flags**	**PQL**
Trichloroethene	ND		0.20

Surrogate	**Percent Recovery**	**Control Limits**
Dibromofluoromethane	93	71-126
Toluene-d8	92	76-116
4-Bromofluorobenzene	84	70-123

MW
8-3-09

C Quality Assurance/Quality Control

QA/quality control (QC) data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware and reagents. Specific QC requirements for laboratory analyses are incorporated in the *Contract Laboratory Program Statement of Work for Organic Analyses* (EPA 2003). These QC requirements or equivalent requirements found in the analytical methods were followed for analytical work on the RE. This section describes the QA/QC measures taken for the RE and provides an evaluation of the usability of data presented in this report.

All samples were collected following the guidance of the SSSPs (E & E 2006a and 2007) and the Sample Plan Alteration Forms for the field activities. Groundwater NDMA, perchlorate, and TCE analyses were performed at STL-Denver, Inc., Arvada, Colorado, a commercial laboratory, following an STL-Denver Standard Operating Procedure (SOP), an STL-Denver SOP/EPA SW-846 method 6860, and EPA SW-846 method 8260, respectively. STL-Denver changed ownership during the project and later became known as TestAmerica Denver. Beginning with the August 2006 sampling event, groundwater NDMA analyses also were performed at Columbia Analytical Services, Inc., Kelso, Washington, a commercial laboratory, following EPA method 521. Soil gas samples were analyzed at the Gore Module Laboratory in Elkton, Maryland following EPA SW-846 method 8260. Groundwater TCE analyses were performed at OnSite Environmental, Inc., Redmond, Washington, a commercial laboratory, following EPA SW-846 method 8260 for the June 2009 samples.

Data from the START-subcontracted commercial laboratories were reviewed and validated by a START chemist. Data qualifiers were applied as necessary according to the following guidance:

- *EPA* (1990) *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures*; and
- EPA (1999) *Contract Laboratory Program National Functional Guidelines for Organic Data Review*.

In the absence of other QC guidance, method- and/or SOP-specific QC limits were also utilized to apply qualifiers to the data.

Satisfaction Of Data Quality Objectives

The following EPA (EPA 2000a) guidance document was used to establish data quality objectives (DQOs) for this RE:

- *Guidance for the Data Quality Objectives Process* (EPA QA/G-4), EPA/600/R-96/055.

The EPA Task Monitor determined that definitive data without error and bias determination would be used for the sampling and analyses conducted during the field activities. The data quality achieved during the field work produced sufficient data that met the DQOs stated in the SSSPs (E & E 2006a and 2007). A detailed discussion of accomplished RE objectives is presented in the following sections.

Quality Assurance/Quality Control Samples

QA samples included one rinsate blank sample, one field blank sample, and sixteen trip blank samples. One rinsate blank sample was collected in October 2007 but in general rinsate blank samples were not collected as the pumps used for collecting the monitoring well samples were rinsed with well water for 10 to 15 minutes prior to sample collection. One field blank sample was collected in December 2006 to determine if outside contamination was potentially affecting field sample results. Water trip blank samples were collected from a deionized water source for the project. Soil gas trip blank samples were blank modules supplied by the manufacturer. QC samples included matrix spike/matrix spike duplicate (MS/MSD) samples for organic analyses at a rate of one MS/MSD per 20 samples per matrix.

Project-Specific Data Quality Objectives

The laboratory data were reviewed to ensure that DQOs for the project were met. The following describes the laboratories' abilities to meet project DQOs for precision, accuracy and completeness and the field team's ability to meet project DQOs for representativeness and comparability. The laboratories and the field team were able to meet DQOs for the project.

Precision. Precision measures the reproducibility of the sampling and analytical methodology. Laboratory and field precision is defined as the relative percent difference (RPD) between duplicate sample analyses. The laboratory duplicate samples or MS/MSD samples measure the precision of the analytical method. The RPD values were reviewed for all commercial laboratory

samples. No sample results were qualified based on laboratory duplicate QC outliers; therefore the project DQO for precision of 90 % was met.

Accuracy. Accuracy measures the reproducibility of the sampling and analytical methodology. Laboratory accuracy is defined as the surrogate spike percent recovery (% R) or the MS % Rs for all laboratory analyses. The surrogate % R values were reviewed for all appropriate sample analyses. One NDMA sample result (approximately 0.1 % of the data) was qualified as an estimated quantity based on surrogate QC outliers.

The MS % R values were reviewed for all MS/MSD analyses. Seven sample results (approximately 1 % of the data) were qualified as estimated quantities based on spike QC outliers. The project DQO for accuracy of 90 % was met.

Completeness. Data completeness is defined as the percentage of usable data (usable data divided by the total possible data). All laboratory data were reviewed for data validation and usability. No target analytes were rejected; therefore the project DQO for completeness of 90 % was met.

Representativeness. Data representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point or environmental condition. The number and selection of samples were determined in the field to account accurately for site variations and sample matrices. The project DQO for representativeness of 90 % was met.

Comparability. Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Data produced for this site followed applicable field sampling techniques and specific analytical methodology. The project DQO for comparability of 90 % was met.

Laboratory Quality Assurance/Quality Control Parameters

The laboratory data also were reviewed for holding times/temperatures, laboratory blank samples, the rinsate blank and field blank samples, and trip blank samples. These QA/QC parame-

ters are summarized below. In general, the laboratory and field QA/QC parameters were considered acceptable.

Holding Times/Temperatures

All holding times were met. All samples were maintained within QC temperature limits except a few outliers that were less than two degrees Celsius above or below QC limits. No action was taken based on these slight outliers.

Laboratory Blanks

All laboratory blanks met the frequency criteria. No potential contaminants of concern were detected in the laboratory blanks.

Rinsate and Field Blanks

The water rinsate and field blanks were collected from a deionized water source. Rinsate blank samples were collected in October 2007 and June 2009 but in general rinsate blank samples were not collected as the pumps used for collecting the monitoring well samples were rinsed with well water for 10 to 15 minutes prior to sample collection. One field blank sample was collected from a deionized water source in December 2006 to determine if outside sources were influencing field sample results. No contaminants were detected in the rinsate or field blank samples.

Trip Blanks

The water trip blanks were collected from a deionized water source. Twelve water and four soil gas trip blank samples were collected during the field event, therefore meeting the frequency criteria of one per cooler per 20 VOC samples. TCE was not detected in any trip blank samples

D Monitoring Well Survey Data

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

March 10, 2008

Mr. Calvin Terada, On-Scene Coordinator
United States Environmental Protection Agency
1200 Sixth Avenue, Mail Stop ECL-116
Seattle, Washington 98101

Re: Euclid Road TCE Monitoring Site Ground Water Flow Direction Memorandum

Dear Mr. Terada:

Ecology and Environment, Inc. (E & E) is submitting to the United States Environmental Protection Agency this memorandum of ground water flow direction for the Euclid Road TCE Monitoring Site. The evaluation included a review of available driller's logs for the eight monitoring wells at the site and evaluation of the elevations of water levels in these monitoring wells.

Well logs were obtained for monitoring wells (MWs) MW-01 through MW-04 from the Herrera Environmental Consultants, Inc. (Herrera) Emergency Sampling Report (February 2006). Copies of well logs for monitoring wells MW-01 through MW-08 are included in Appendix A.

A survey of all eight MWs was conducted in December 2007; well survey information is included in Appendix B. The wells were screened in the uppermost water-bearing zone encountered at the well location based on well logs.

Total well depths, well elevations, water level elevations, and ground water depths were obtained from the well logs and the E & E Euclid Road TCE Monitoring Report (in progress) and are included in Appendix C. Total depths of the wells used in the evaluation vary between 53.5 feet to 113.5 feet. Elevations of water levels reported on the driller's logs for the reviewed wells vary from 2,330.64 to 2,460.89 feet relative to mean sea level (see Table 1).

Monitoring well locations and ground water flow diagrams are included for the months of November 2005 (as interpreted on Figure 4-2 by Herrera Environmental Consultants, Inc. in the Emergency Response Sampling Report, Euclid Road Ground Water Site, February 15, 2006), March, September, and December 2006, and April and October 2007 in Appendix D. All ground water measurements were performed at least one day following well development and before ground water samples were collected so that static ground water levels were allowed to equilibrate. Ground water elevations were recorded with a water level indicator. The groundwater elevation changes are consistent with seasonal changes in precipitation and elevations recorded during past monitoring events. In general, the ground water flow directions were to the east/southeast for all six monitoring periods, generally following the surface topography.

If you have any questions or comments regarding this ground water elevation memorandum evaluation, please contact me at (206) 624-9537.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Mark Woodke

for Jeffrey Fowlow, R.G.
START Geologist

APPENDIX A

MONITORING WELL LOGS

HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-1
Total depth: 66 ft.
Sheet 1 of 2

Project name: Euclid Rd. ER
Project number: 00-01732-069
Client: EPA
Location: 900 ft. north of Euclid well

HEC rep.: B. Carpenter
Start Date: 11/07/05
Compl. Date: 11/07/05

Drilling Contractor: Environmental W
Drilling method: Air Rotary
Sampling method: Cuttings w/strainer
Measuring point elev.: –
Ground elevation: –
Air monitoring (y/n): Y
Instrument(s): Mini RAE

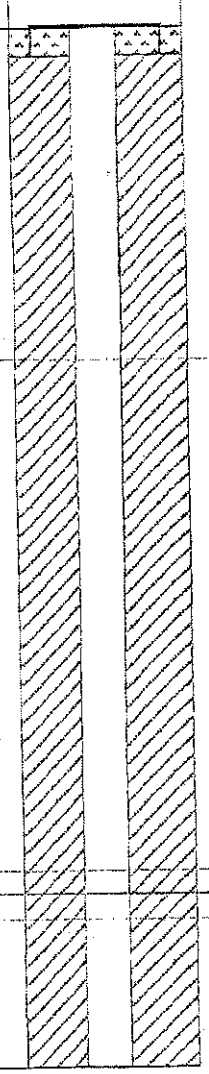
Casing material: Sch 40 PVC
Casing diameter: 2 inches
Screen slot width: 10 slot
Casing joint type: Threaded
Filter pack: 10/20
Annular seal: Bentonite chips
Monument type: Flush mount

Depth to water	39.5'	38.04'	38.5'
Reference point	open hole	top of 2" PVC	top of 2" PVC
Time	14:05	14:12	17:20
Date	11/07/05	11/10/05	11/22/05

Monitoring well details
Cement
Filterpack
Bentonite
Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	2	Topsoil Brown clayey silt
	4	Light brown clayey silt (loess)
	6	
0	8	Gray basalt Weathered
	10	
	12	Brown silty SAND (interbed)
	14	Basalt
	16	Weathered zones
	18	
	20	Weathered zones
	22	
	24	Brown clay silt zone
	26	
	28	Basalt, hard
	30	

Well details



HERRERA ENVIRONMENTAL CONSULTANTS

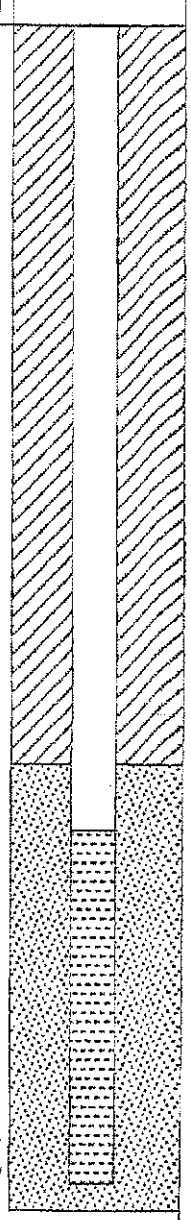
GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-1
Total depth: 66 ft.
Sheet 2 of 2

Monitoring well details: Cement, Bentonite, Filterpack, Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	32	Weathered zones
	34	Basalt, black
	36	
	38	Weathered zones Clayey silt
0	40	
	42	
	44	Weathered basalt
	46	
	48	Weathered basalt
	50	
	52	
	54	Weathered basalt
▽	56	Water encountered at 57 feet
	58	
	60	
	62	Weathered basalt
	64	
0	66	Weathered basalt
	68	
	70	
	72	

Well details



HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-2
Total depth: 96 ft.
Sheet 1 of 3

Project name: Euclid Rd. ER
Project number: 00-01732-069
Client: EPA
Location: E. of Euclid well on Donald Harris property
HEC rep.: B. Carpenter
Start Date: 11/07/05
Compl. Date: 11/08/05

Drilling Contractor: Environmental W
Drilling method: Air Rotary
Sampling method: Cuttings w/strainer
Measuring point elev.: –
Ground elevation: –
Air monitoring (y/n): Y
Instrument(s): Mini RAE

Casing material: Sch 40 PVC
Casing diameter: 2 inches
Screen slot width: 10 slot
Casing joint type: Threaded
Filter pack: 10/20
Annular seal: Bentonite chips
Monument type: Flush mount

Depth to water	70.6'	69.87'	70.15'
Reference point	open hole	top of 2" PVC	top of 2" PVC
Time	10:55	11:25	16:00
Date	11/08/05	11/10/05	11/22/05

Monitoring well details
Cement
Filterpack
Bentonite
Well screen

Instrument reading	Depth (feet, BGS)	Soil description	Well details
	2	Topsoil Light brown loess	
	4		
	6	Brown clayey SILT with trace gravel	
	8		
0		Weathered basalt	
	10		
	12		
	14		
	16		
	18		
	20	Basalt, hard	
	22		
	24		
		Clayey SILT zone	
	26		
	28		
0	30		

HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-2
Total depth: 96 ft.
Sheet 2 of 3

Monitoring well details: Cement, Filterpack, Bentonite, Well screen

Instrument reading	Depth (feet, BGS)	Soil description	Well details
	32	Weathered basalt	
	34		
	36		
	38		
0	40		
	42	Black weathered basalt	
	44	Brown clayey SILT	
	46		
	48	Black weathered basalt	
	50		
0	52		
	54		
	56	As above	
	58		
	60		
	62		
	64	Basalt, hard	
	66		
	68		
	70	Weathered basalt Clayey SILT	
	72		

HERRERA ENVIRONMENTAL CONSULTANTS

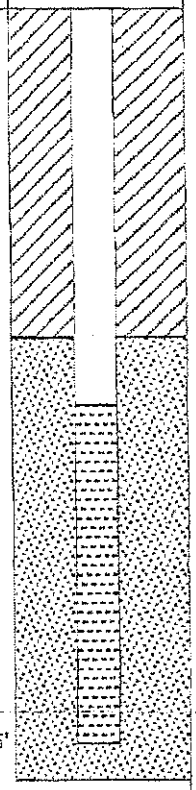
GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-2
Total depth: 96 ft.
Sheet 3 of 3

Monitoring well details: Cement, Bentonite, Filterpack, Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	74	
	76	
	78	Weathered basalt
	80	
	82	
	84	
0	86	
▽	88	Water encountered at 88 feet
	90	Weathered basalt
	92	
	94	TD = 95.5'
0	96	
	98	
	100	
	102	
	104	
	106	
	108	
	110	
	112	
	114	

Well details



HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-3
Total depth: 113.5 ft.
Sheet 1 of 3

Project name: Euclid Rd. ER
Project number: 00-01732-069
Client: EPA
Location: Adjacent to Hutterite livestock well
HEC rep.: B. Carpenter
Start Date: 11/08/05
Compl. Date: 11/09/05

Drilling Contractor: Environmental W
Drilling method: Air Rotary
Sampling method: Cuttings w/strainer
Measuring point elev.: –
Ground elevation: –
Air monitoring (y/n): Y
Instrument(s): Mini RAE

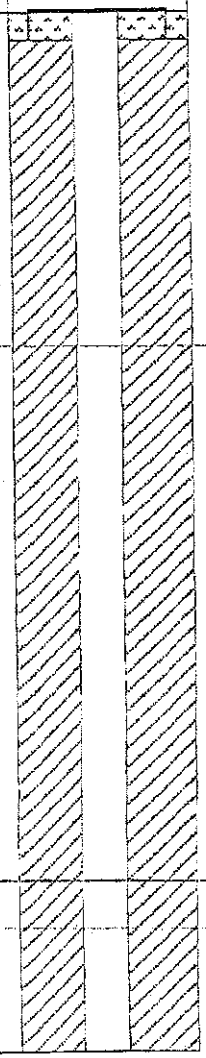
Casing material: Sch 40 PVC
Casing diameter: 2 inches
Screen slot width: 10 slot
Casing joint type: Threaded
Filter pack: 10/20
Annular seal: Bentonite chips
Monument type: Flush mount

Depth to water	87.25'	86.64'	86.88'
Reference point	open hole	top of 2" PVC	top of 2" PVC
Time	9:25	8:45	13:00
Date	11/09/05	11/10/05	11/22/05

Monitoring well details
Cement
Filterpack
Bentonite
Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	2	Topsoil Dark brown clayey SILT
	4	Light reddish-brown SILT, loess, dry
	6	
	8	
	10	
	12	As above
	14	
	16	
	18	
	20	Dark gray SILT with rock fragments (basalt)
	22	
0	24	Dark gray weathered basalt
	26	
	28	
	30	

Well details



HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-3
Total depth: 113.5 ft.
Sheet 2 of 3

Monitoring well details: Cement, Filterpack, Bentonite, Well screen

Instrument reading	Depth (feet, BGS)	Soil description	Well details
0	32	Weathered basalt	
	34	Gray weathered basalt	
	36		
	38		
0	40		
	42	Gray weathered basalt	
	44		
	46		
	48		
0	50	Gray weathered basalt	
	52		
	54		
	56	Brown clayey SILT	
	58	Gray brown weathered basalt	
0	60		
	62	Weathered basalt	
	64		
	66		
	68		
0	70		
	72		

HERRERA ENVIRONMENTAL CONSULTANTS

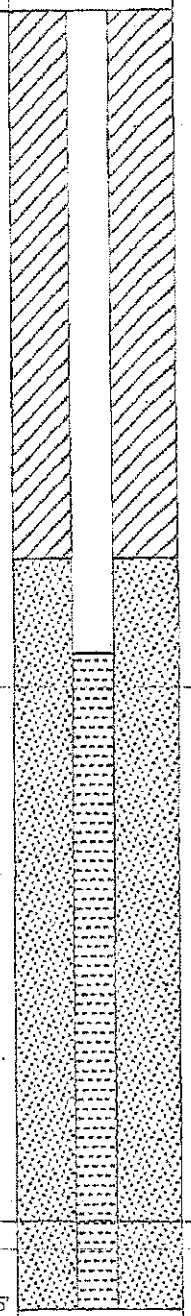
GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-3
Total depth: 113.5 ft.
Sheet 3 of 3

Monitoring well details: Cement, Bentonite, Filterpack, Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	74	
	76	Weathered basalt
	78	
0	80	
	82	
	84	
	86	
	88	
0	90	
	92	
	94	
▽	96	Water bearing fracture
	98	
	100	
0	102	Weathered basalt
	104	
	106	
	108	Weathered basalt
	110	
	112	TD = 113.5'
0	114	

Well details



HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-4
Total depth: 103 ft.
Sheet 1 of 3

Project name: Euclid Rd. ER
Project number: 00-01732-069
Client: EPA
Location: Euclid Rd. S. of Euclid well (Hall driveway)
HEC rep.: B. Carpenter
Start Date: 11/09/05
Compl. Date: 11/09/05

Drilling Contractor: Environmental W
Drilling method: Air Rotary
Sampling method: Cuttings w/strainer
Measuring point elev.: –
Ground elevation: –
Air monitoring (y/n): Y
Instrument(s): Mini RAE

Casing material: Sch 40 PVC
Casing diameter: 2 inches
Screen slot width: 10 slot
Casing joint type: Threaded
Filter pack: 10/20
Annular seal: Bentonite chips
Monument type: Flush mount

Depth to water	67.50'	66.52'	66.80'
Reference point	open hole	top of 2" PVC	top of 2" PVC
Time	14:15	12:43	14:30
Date	11/09/05	11/10/05	11/22/05

Monitoring well details
Cement
Filterpack
Bentonite
Well screen

Instrument reading	Depth (feet, BGS)	Soil description	Well details
		Topsoil	
	2	Brown silt, loess	
	4		
	6	Basalt, black, gray	
	8		
		Brown-gray weathered basalt	
0	10	Black-gray hard basalt	
	12		
	14		
	16		
	18		
0	20	Black-gray basalt, hard	
	22		
	24		
	26		
	28		
0	30	As above	

HERRERA ENVIRONMENTAL CONSULTANTS

GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-4
Total depth: 103 ft.
Sheet 2 of 3

Monitoring well details: Cement, Filterpack, Bentonite, Well screen

Instrument reading	Depth (feet, BGS)	Soil description	Well details
	32	Gray-black basalt, hard	
	34		
	36		
	38		
	40	Gray-brown basalt, weathered	
0	42	Black basalt, weathered, vesicular (possibly some water)	
	44		
	46		
	48	Brown weathered basalt, sandy GRAVEL	
	50	Light brown, gravelly SAND (interbed) Weathered BASALT	
0	52		
	54		
	56		
	58	Dark brown weathered BASALT, with sand	
	60		
0	62	Dark brown weathered BASALT, with sand	
	64		
	66		
	68	As above	
	70	Dark brown weathered BASALT, gravel is sub-rounded, hole collapses, creates void and drill loses circulation	
1	72		

HERRERA ENVIRONMENTAL CONSULTANTS

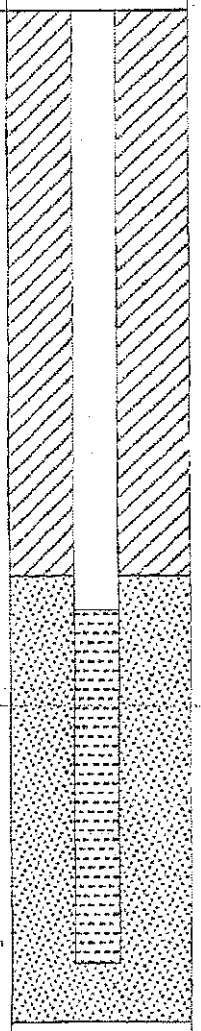
GEOLOGIC LOG AND MONITORING WELL CONSTRUCTION RECORD

Boring # ERMW-4
Total depth: 103 ft.
Sheet 3 of 3

Monitoring well details: Cement, Bentonite, Filterpack, Well screen

Instrument reading	Depth (feet, BGS)	Soil description
	74	
	76	
	78	Weathered basalt
	80	
0	82	
	84	
		Weathered basalt, dark brown sand and gravel
	86	
	88	
	90	
*9.1	92	*Note: *Water added to hole to help circulation. Mini RAE malfuntioned because of moisture exiting borehole.*
	94	
▽	96	Weathered basalt, sand and gravel, seemed moist Water encountered at 96 feet
	98	Basalt, weathered, but more competent than above
	100	TD = 101.5'
	102	
0		
	104	
	106	
	108	
	110	
	112	
	114	

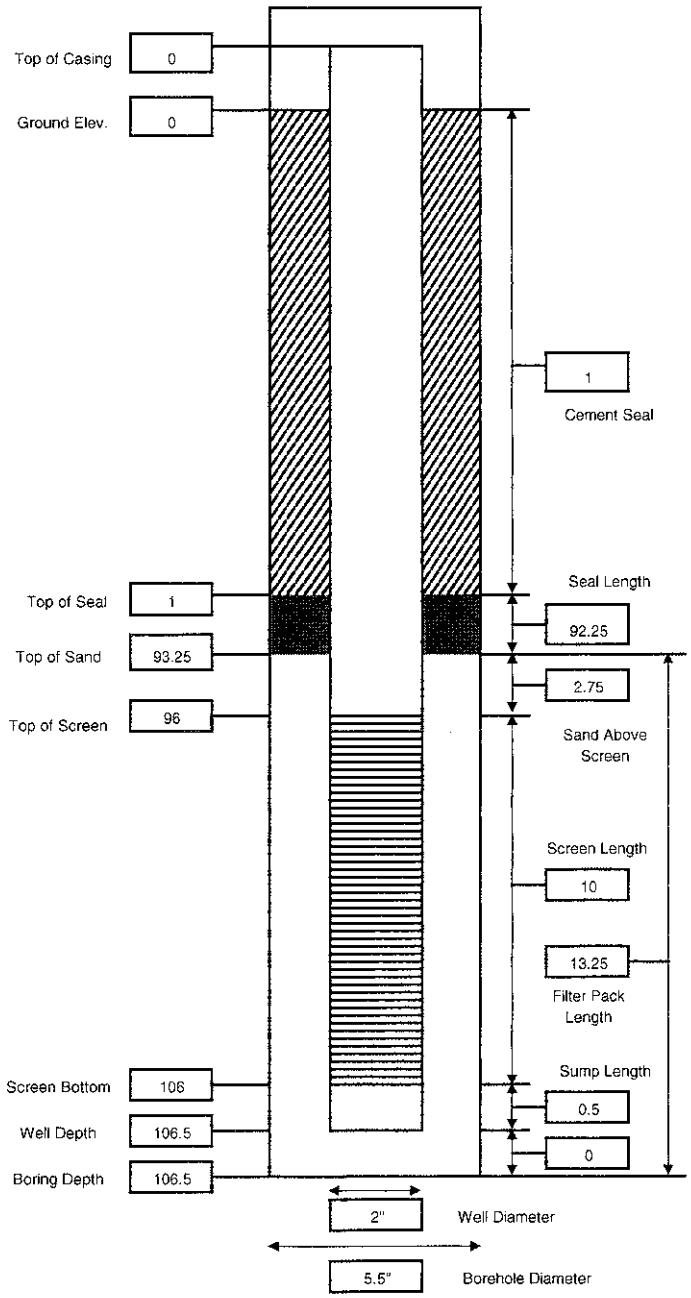
Well details



WELL CONSTRUCTION LOG MW-05

Site Name: Euclid Road TCE Monitoring
Well ID: MW-05
Drilling Company: Environmental West, Inc.
Geologist/Engineer: Eileen Kollins

Date: October 22, 2007
Drilling Method: Air Rotary



Well Construction:

Material: Schedule 40 PVC

Casing Diameter: 2"

Slot Size: 10

Type/Length:

Filter Pack: 10/20

Type/Brand: Sand

Amount:

Seal:

Type/Brand: Bentonite Chips

Amount:

Vol. Fluid:

Set-up Time:

Cement Seal:

Type/Brand:

Amount:

Vol. Fluid:

Set-up Time:

Comments:

Flush mount monument.

Ecology and Environment, Inc. **BORING LOG** MW-05

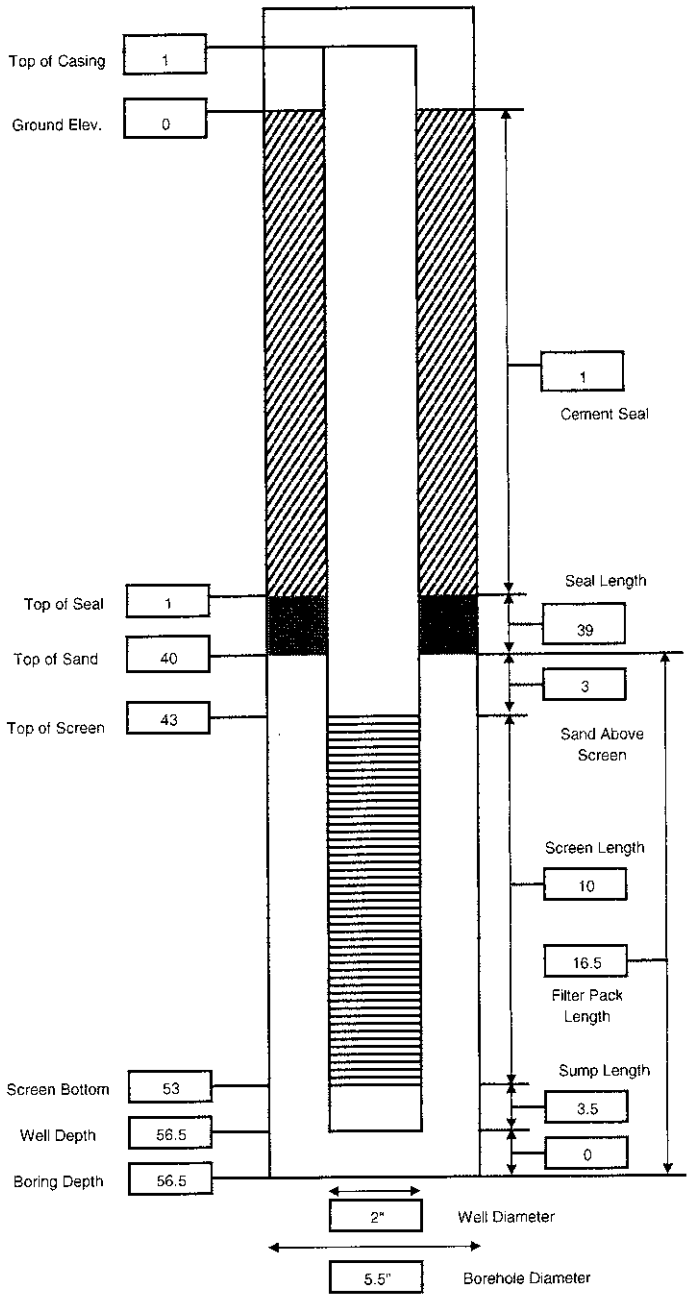
Project No.: 06-09-0002 Page 1 of 1
Project Name: Euclid Road TCE Monitoring Date: October 22, 2007

Depth (feet)	Sample Interval	Time	Blows/6 in.	Lithologic Description	Symbolic Log	% Recovery	ASTM Code	OVA Headspace (ppm)	Comments
0				Light brown clayey silt, dry.					
10				Silty clay, light brown, dry.					
15				Damp, dark brown silty clay with some basalt fragments.					
25-27				Dark gray weathered basalt with clayey silt, dry.					
30				Light gray hard basalt.					
45									
60									
75									
89				Silty gray clay lens, light brown, damp.					
90				Dark brown vesicular basalt, damp.					
91				Small gravel sized basalt with silt and clay, weathered basalt.					
97				Water hit at 97 feet bgs.	▼				
105.0									
106.5				Bottom at 106.5 feet bgs.					

WELL CONSTRUCTION LOG MW-06

Site Name: Euclid Road TCE Monitoring
Well ID: MW-06
Drilling Company: Environmental West, Inc.
Geologist/Engineer: Eileen Kollins

Date: October 23, 2007
Drilling Method: Air Rotary



Well Construction:

Material: Schedule 40 PVC

Casing Diameter: 2"

Slot Size: 10

Type/Length:

Filter Pack: 10/20

Type/Brand: Sand

Amount:

Seal:

Type/Brand: Bentonite Chips

Amount:

Vol. Fluid:

Set-up Time:

Cement Seal:

Type/Brand:

Amount:

Vol. Fluid:

Set-up Time:

Comments:

Monument 12" above ground. Gravel was built up around casing in order to make it flush mount.

Ecology and Environment, Inc.

BORING LOG MW-06

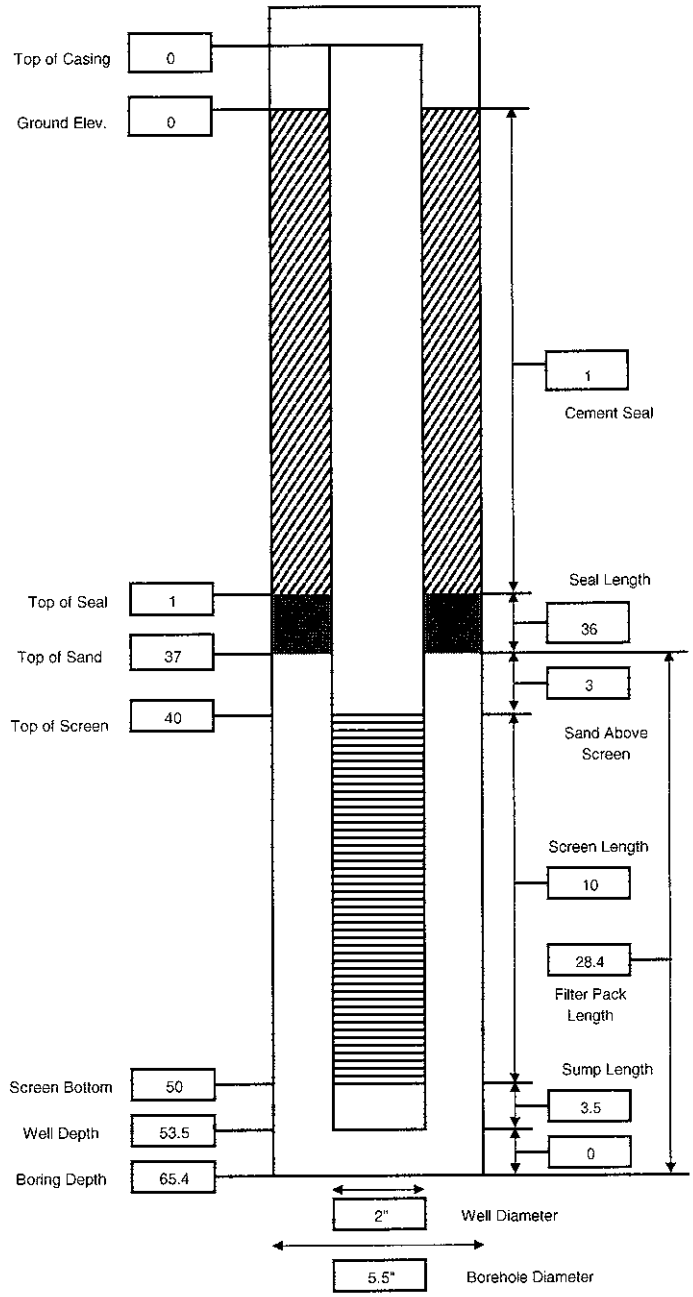
Project No.: 06-09-0002 Page 1 of 1
Project Name: Euclid Road TCE Monitoring Date: October 23, 2007

Depth (feet)	Sample Interval	Time	Blows/6 in.	Lithologic Description	Symbolic Log	% Recovery	ASTM Code	OVA Headspace (ppm)	Comments
0				Top soil, brown clayey silt with 40% small gravel (basalt), dry.					
3				Gray and black hard basalt, dry.					
10									
20									
30									
40									
45				Water at 45 feet bgs. Black vesicular basalt/wet.	▼				
50				Weathered basalt.					
56.5				Bottom of hole.					
60									

WELL CONSTRUCTION LOG MW-07

Site Name: Euclid Road TCE Monitoring
Well ID: MW-07
Drilling Company: Environmental West, Inc.
Geologist/Engineer: Eileen Kollins

Date: 10/23&24/2007
Drilling Method: Air Rotary



Well Construction:

Material: Schedule 40 PVC

Casing Diameter: 2"

Slot Size: 10

Type/Length:

Filter Pack: 10/20

Type/Brand: Sand

Amount:

Seal:

Type/Brand: Bentonite Chips

Amount:

Vol. Fluid:

Set-up Time:

Cement Seal:

Type/Brand:

Amount:

Vol. Fluid:

Set-up Time:

Comments:

Flush mount monument.

Ecology and Environment, Inc.

BORING LOG MW-07

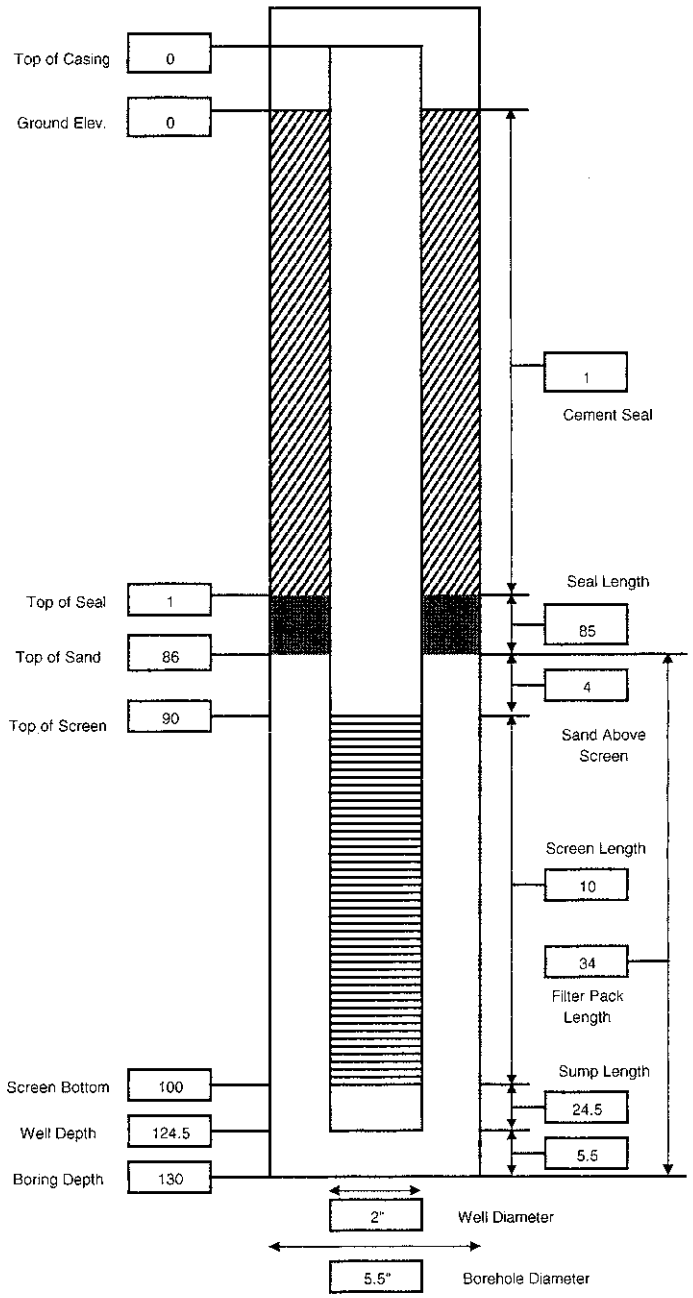
Project No.: 06-09-0002 Page 1 of 1
Project Name: Euclid Road TCE Monitoring Date: 10/23&24/2007

Depth (feet)	Sample Interval	Time	Blows/6 in.	Lithologic Description	Symbolic Log	% Recovery	ASTM Code	OVA Headspace (ppm)	Comments
1				Top soil, brown silty clay, damp					
10				Basalt fragments with silt, dry					
12				Gray weathered basalt, dry					
15									
20									
25				Like above with interbedded clay lenses					
30									
38				Weathered basalt with silty clay, moist					
40									
43				Water hit, weathered basalt with silty clay	▼				
50									
60									
65.4				Bottom of hole					

WELL CONSTRUCTION LOG MW-08

Site Name: Euclid Road TCE Monitoring
Well ID: MW-08
Drilling Company: Environmental West, Inc.
Geologist/Engineer: Eileen Kollins

Date: October 24, 2007
Drilling Method: Air Rotary



Well Construction:

Material: Schedule 40 PVC

Casing Diameter: 2"

Slot Size: 10

Type/Length:

Filter Pack: 10/20

Type/Brand: Sand

Amount:

Seal:

Type/Brand: Bentonite Chips

Amount:

Vol. Fluid:

Set-up Time:

Cement Seal:

Type/Brand:

Amount:

Vol. Fluid:

Set-up Time:

Comments:

Flush mount monument.

Ecology and Environment, Inc.

BORING LOG MW-08

Project No.: 06-09-0002 Page 1 of 1
Project Name: Euclid Road TCE Monitoring Date: October 24, 2007

Depth (feet)	Sample Interval	Time	Blows/6 in.	Lithologic Description	Symbolic Log	% Recovery	ASTM Code	OVA Headspace (ppm)	Comments
0				Top soil, dark brown silty clay.					
8				Very dark brown clayey silt, dry w/some basalt weathered fragments					
11				Dark brown weathered basalt as fine gravel with clayey silt					
20									
22				Like above but damp					
25				Dark brown weathered basalt (fine gravel) with silty clay, damp					
35				Gray weathered basalt, dry					
40									
60									
65				Same as above but damp					
80									
96.5				Ground water encountered. See note below.	▼				
100				Gray hard basalt, dry					
110				Gray silty clay, damp					
120				Hard gray silty clay, dry					

140				Note: boring stopped at 130 feet bgs; no water encountered. Approximately 45 minutes were needed to penetrate from 125 feet bgs to 130 feet bgs. While removing drill rods, water was noticed at 96.5 feet bgs.					

APPENDIX B

WELL SURVEY INFORMATION

Ecology and Environment, Inc.
720 Third Avenue, Suite 1700
Seattle, Washington 98104

Euclid Road Site, Reardan, Washington
Surveying Services Project No. 002233.0117.01SF
TDD No. 06-09-0002

Description	Northing US Feet	Easting US Feet	Ground Elev.	Inner Casing Elev.	Outer Casing Elev.
MW-01	266907.1	2406315.9	2421.4	2420.95	2421.45
MW-02	266087.0	2406450.1	2452.1	2451.78	2452.12
MW-03	266088.7	2405731.9	2470.3	2470.09	2470.33
MW-04	265793.8	2406429.2	2448.3	2448.06	2448.31
MW-05	267432.7	2404262.4	2492.7	2492.40	2492.75
MW-06	267135.0	2405052.7	2454.4	2454.03	2454.43
MW-07	265964.1	2404693.1	2473.1	2472.63	2473.10
MW-08	265894.9	2407763.7	2401.9	2401.54	2401.94

Existing Control

NGS-HARN "DEEP"	250430.76	2404388.41	2420.04

Notes:

1. Field work performed by White Shield, Inc., Pasco, WA on December 27, 2007

2. Horizontal Datum: Washington Coordinate System, South Zone, NAD 83 (2007), US Survey feet. Coordinates established with RTK GPS with corrections from the Washington State VRS Network and calibrated to NGS-HARN "DEEP" (0.1' difference from raw broadcast)

3. Vertical Datum, NAVD 1988, feet Elevations established with RTK GPS with corrections from the Washington State VRS Network and calibrated to NGS-HARN "DEEP" (0.1' difference from raw broadcast)

4. Station DEEP is located, about 7 miles east southeast of Reardan, 1 mile west of Deep Creek, along U.S. Highway 2 at Wood Road. Station mark, stamped DEEP 1950, is a standard bronze disk set in the top of a 10 inch square concrete post that projects 4 inches above the ground. It is about 105 yards north of the Highway 2, 30 feet east of the centerline of the graveled road, 4 feet west of a fence line and 7.48 feet south of a witness post.

APPENDIX C

WATER LEVEL ELEVATIONS

Table 1

GROUND WATER ELEVATION DATA
EUCLID ROAD TCE MONITORING SITE
REARDAN, WASHINGTON

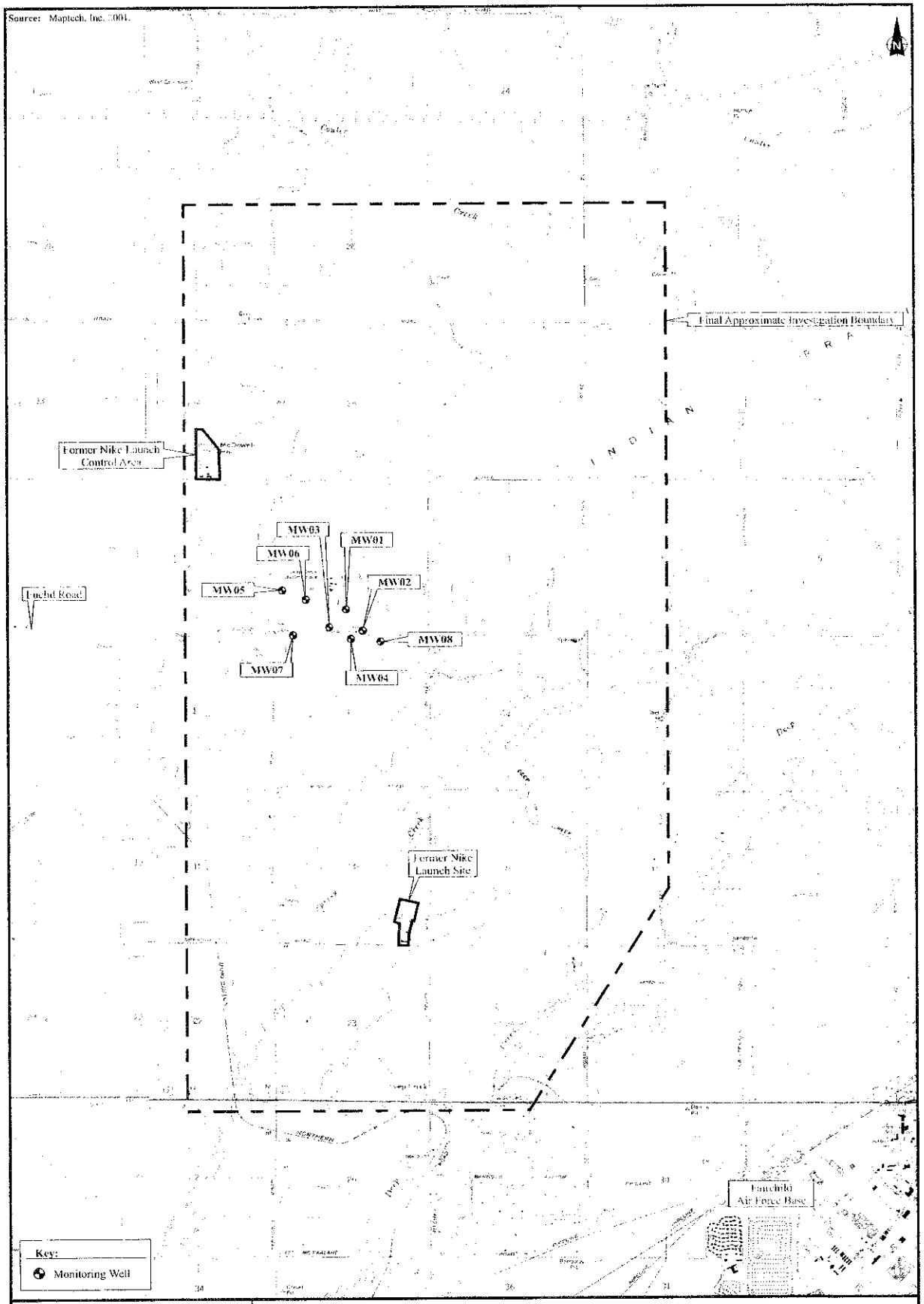
	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08
Total Depth (feet bgs)								
	66	96	113.5	103	106.5	56.5	53.5	105
Well Screen Elevation Depth Range (feet bgs)								
	55 - 65	85 - 95	93 - 113	91 - 101	96 - 106	43 - 53	40 - 50	90 - 100
Measuring Point Elevation (feet amsl)								
	2,420.95	2,451.78	2,470.09	2,448.06	2,492.40	2,454.03	2,472.63	2,401.54
Depth to Water (feet bgs)								
November 2005	38.27	69.92	86.75	66.57	---	---	---	---
March 2006	30.90	63.12	79.70	59.81	---	---	---	---
September 2006	33.33	65.17	80.10	61.00	---	---	---	---
December 2006	32.60	64.50	80.70	61.00	---	---	---	---
April 2007	30.10	62.00	78.16	58.70	---	---	---	---
October 2007	35.14	66.32	82.66	62.90	31.51	33.65	36.02	70.90
Depth to Water (feet amsl)								
November 2005	2382.68	2381.86	2383.34	2381.49	---	---	---	---
March 2006	2390.05	2388.66	2390.39	2388.25	---	---	---	---
September 2006	2387.62	2386.61	2389.99	2387.06	---	---	---	---
December 2006	2388.35	2387.28	2389.39	2387.06	---	---	---	---
April 2007	2390.85	2389.78	2391.93	2389.36	---	---	---	---
October 2007	2385.81	2385.46	2387.43	2385.16	2460.89	2420.38	2436.61	2330.64

Note: the measuring point elevation is the north side of the top of the inner casing at each well.

Key
amsl - above mean sea level
bgs - below ground surface

APPENDIX D

POTENTIOMETRIC SURFACE ELEVATION MAPS



ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

EUCLID ROAD GROUNDWATER SITE
Reardan, Washington

0 1538 3076
Approximate Scale in Feet

MONITORING WELL LOCATIONS

Date: 2/26/08 | Drawn by: AES | 10:START-3\06090002\mon well loc

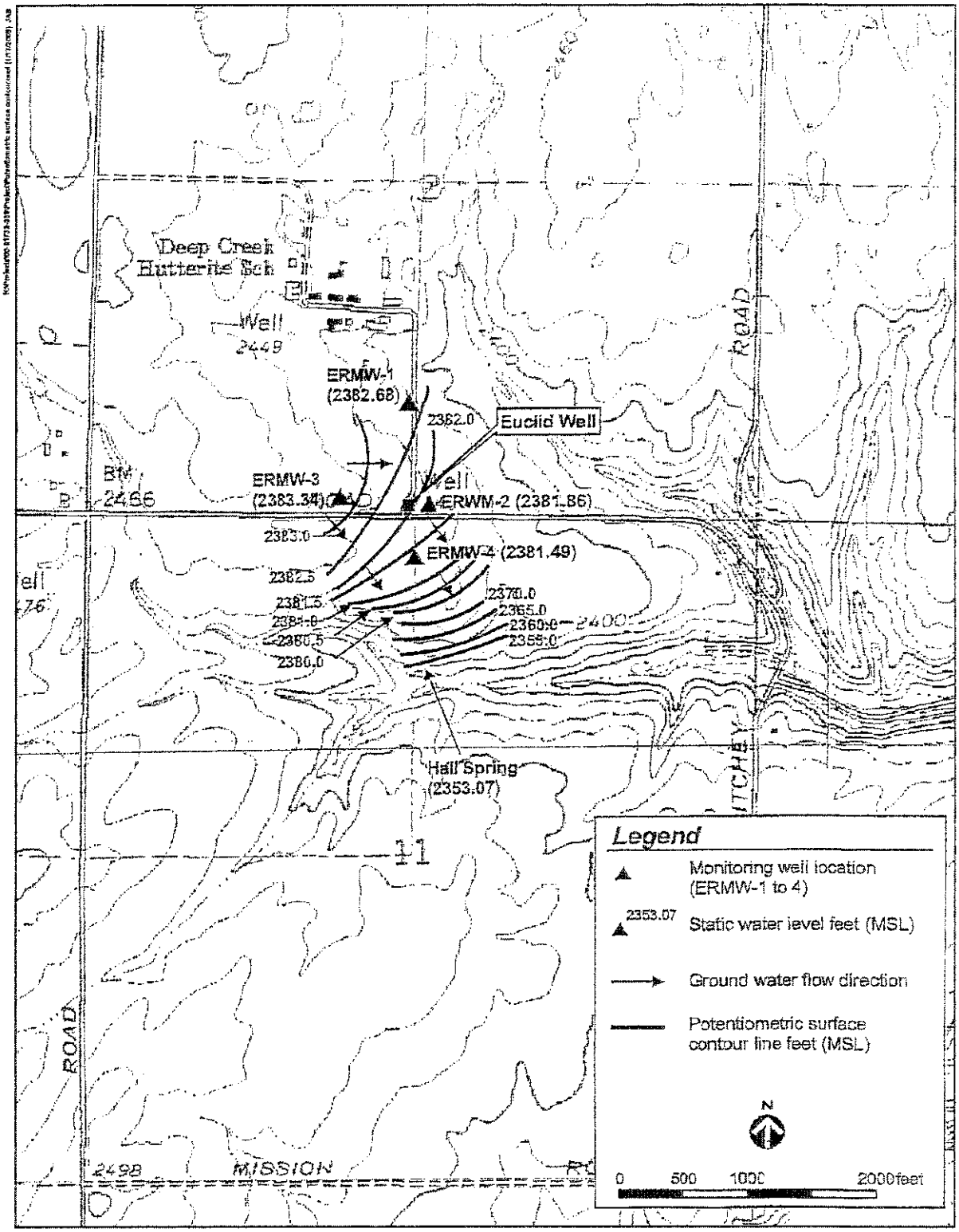
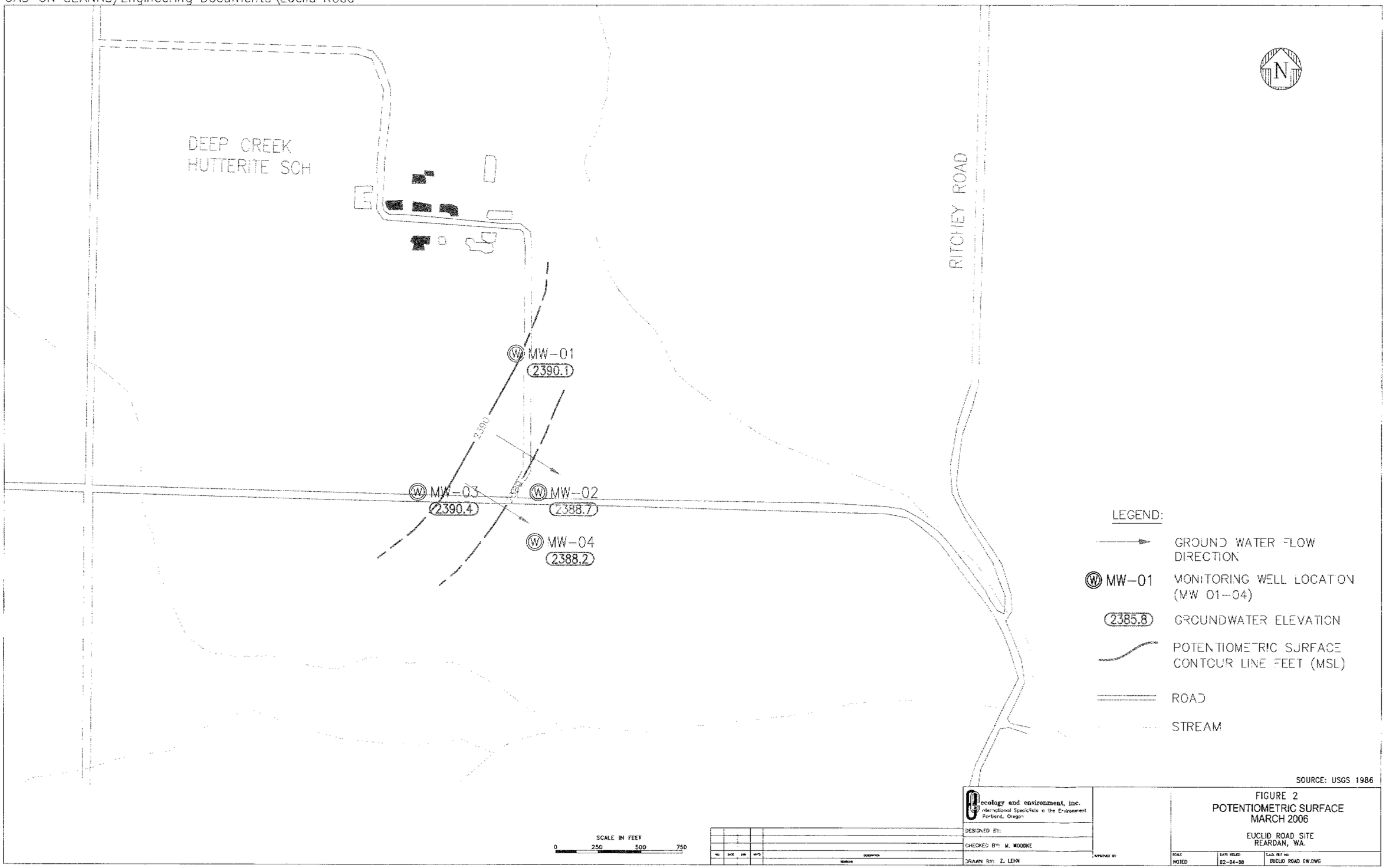


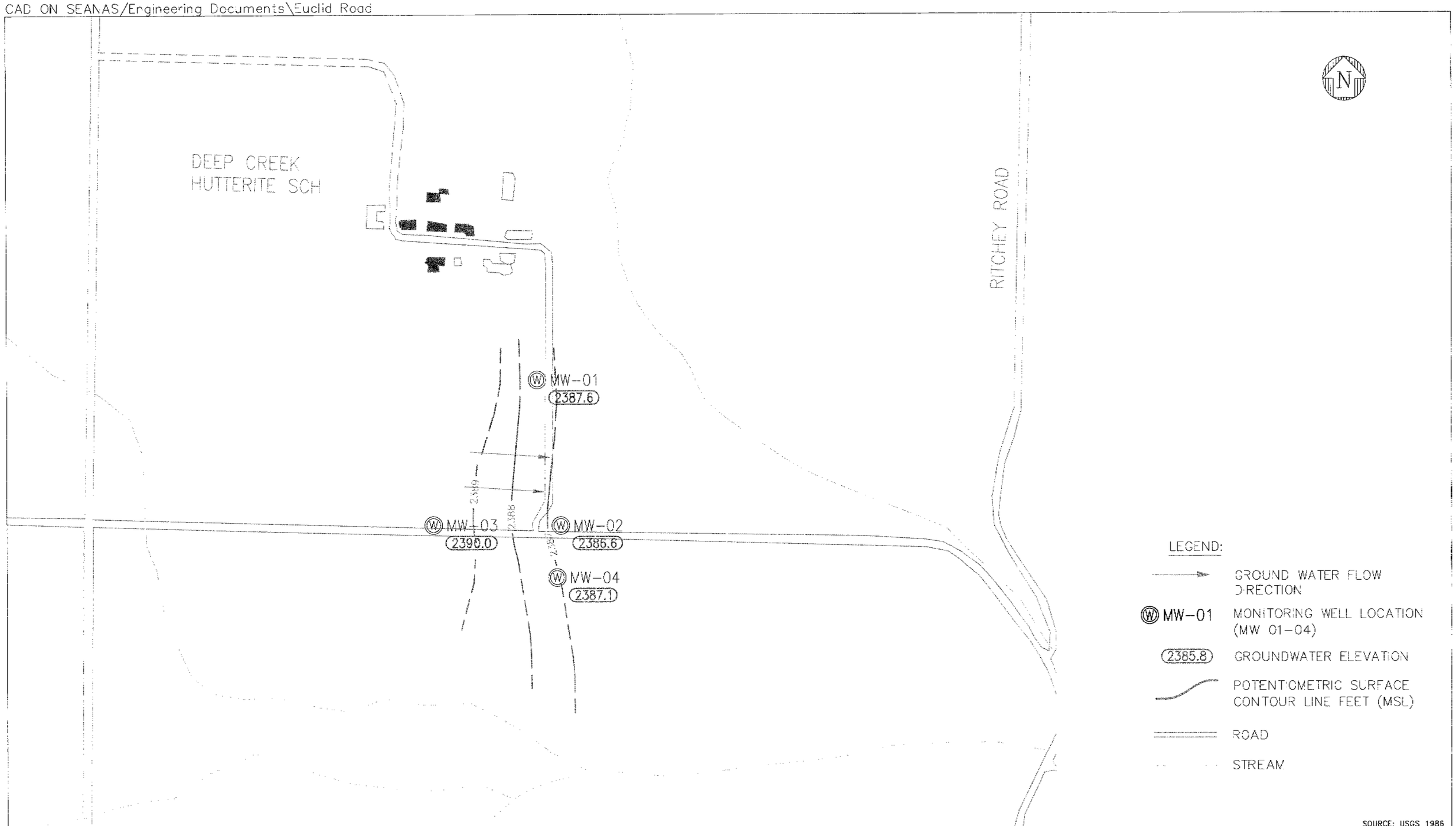
Figure 4-2. Potentiometric surface contour map of the Euclid Road ground water site, Spokane County, Washington.

ecology and environment, inc. International Specialists in the Environment Seattle, Washington	EUCLID ROAD GROUNDWATER SITE Reardan, Washington	Figure 1 NOVEMBER 2005 GROUND WATER FLOW DIRECTION		
	Source: Herrera 2006.	Date: 3-10-08	Drawn by: AES	10:START-3\06090002\appendix fig 1

CAD ON SEANAS/Engineering Documents\Euclid Road



CAD ON SEANAS/Engineering Documents\Euclid Road



ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

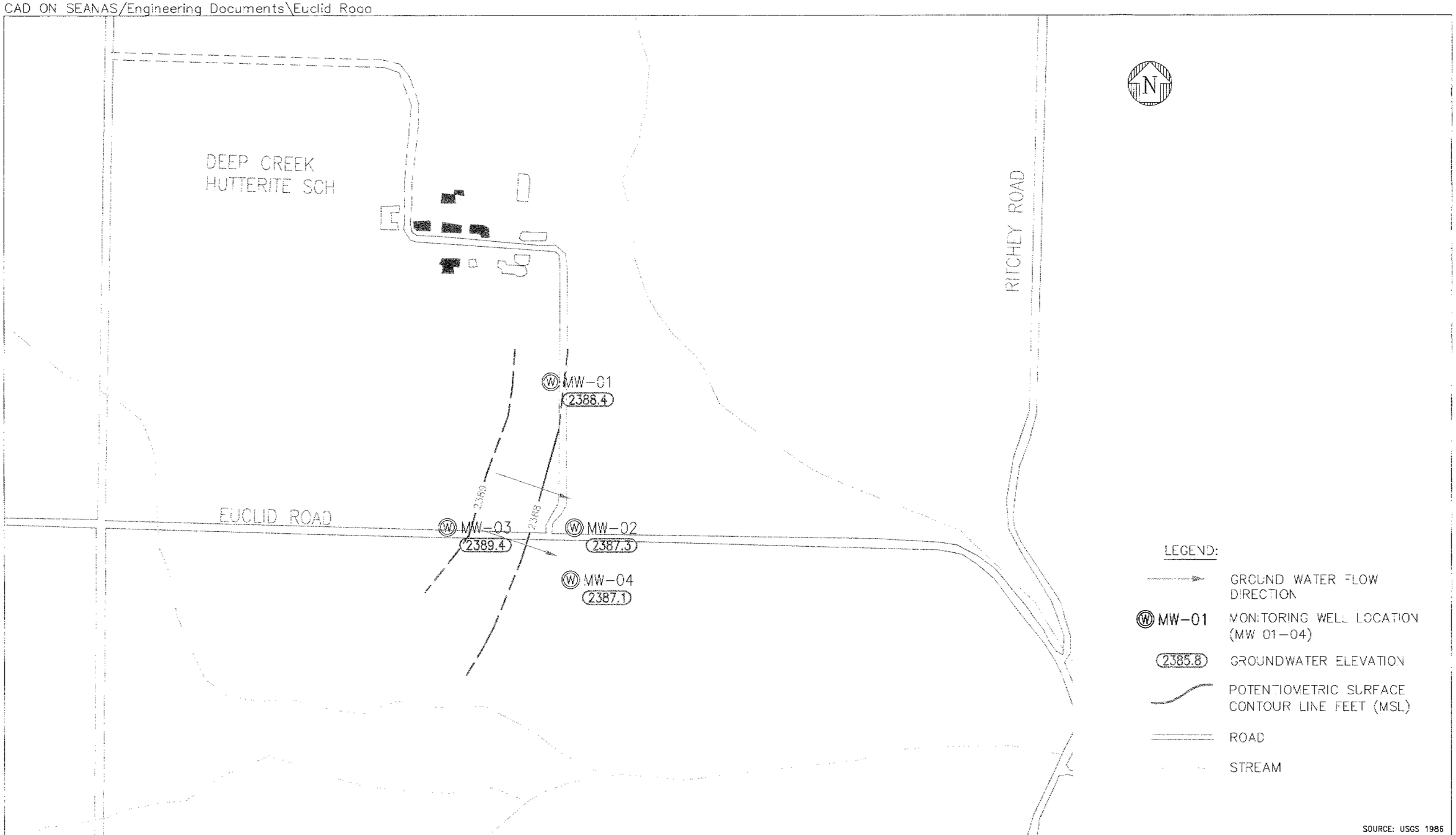
DESIGNED BY:
CHECKED BY: M. WOODKE
DRAWN BY: Z. LEHN
APPROVED BY:

FIGURE 3
POTENTIOMETRIC SURFACE
SEPTEMBER 2006

EUCLID ROAD SITE
REARDAN, WA.

SCALE: NOTED
DATE ISSUED: 02-04-08
CAD FILE NO.: EUCLID ROAD GW.DWG

CAD ON SEANAS/Engineering Documents\Euclid Road



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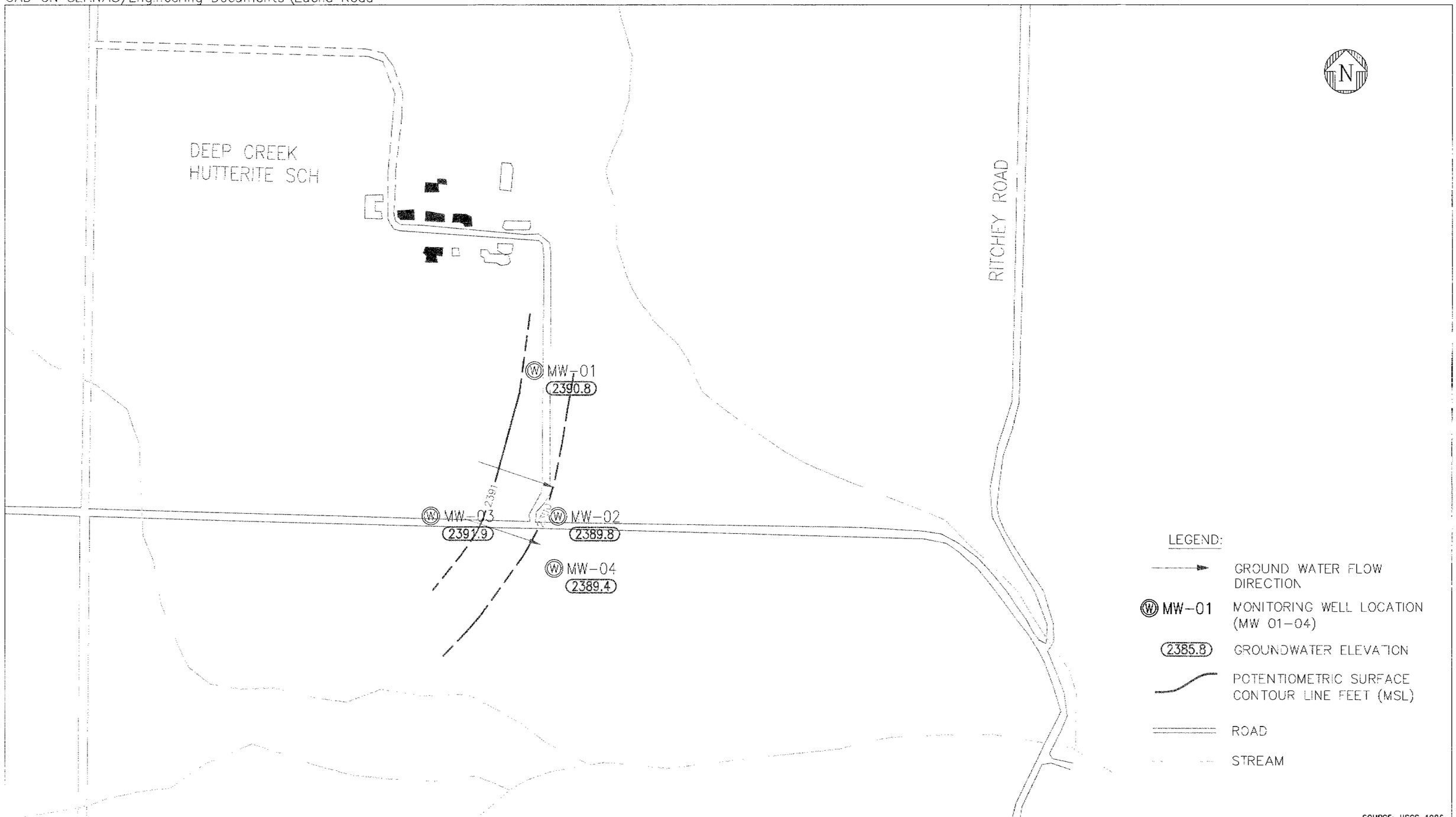
International Specialists in the Environment
Portland, Oregon

DESIGNED BY:
CHECKED BY: M. WOODKE
DRAWN BY: Z. LEHN
APPROVED BY:

FIGURE 4
POTENTIOMETRIC SURFACE
DECEMBER 2006

EUCLID ROAD SITE
REARDAN, WA.

SCALE	DATE ISSUED	CAD FILE NO.
NOTED	02-04-08	EUCLID ROAD GW.DWG



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Portland, Oregon

DESIGNED BY:
CHECKED BY: M. WOOGKE
DRAWN BY: Z. LEHN
APPROVED BY

NO.	DATE	DWN	APPD	DESCRIPTION

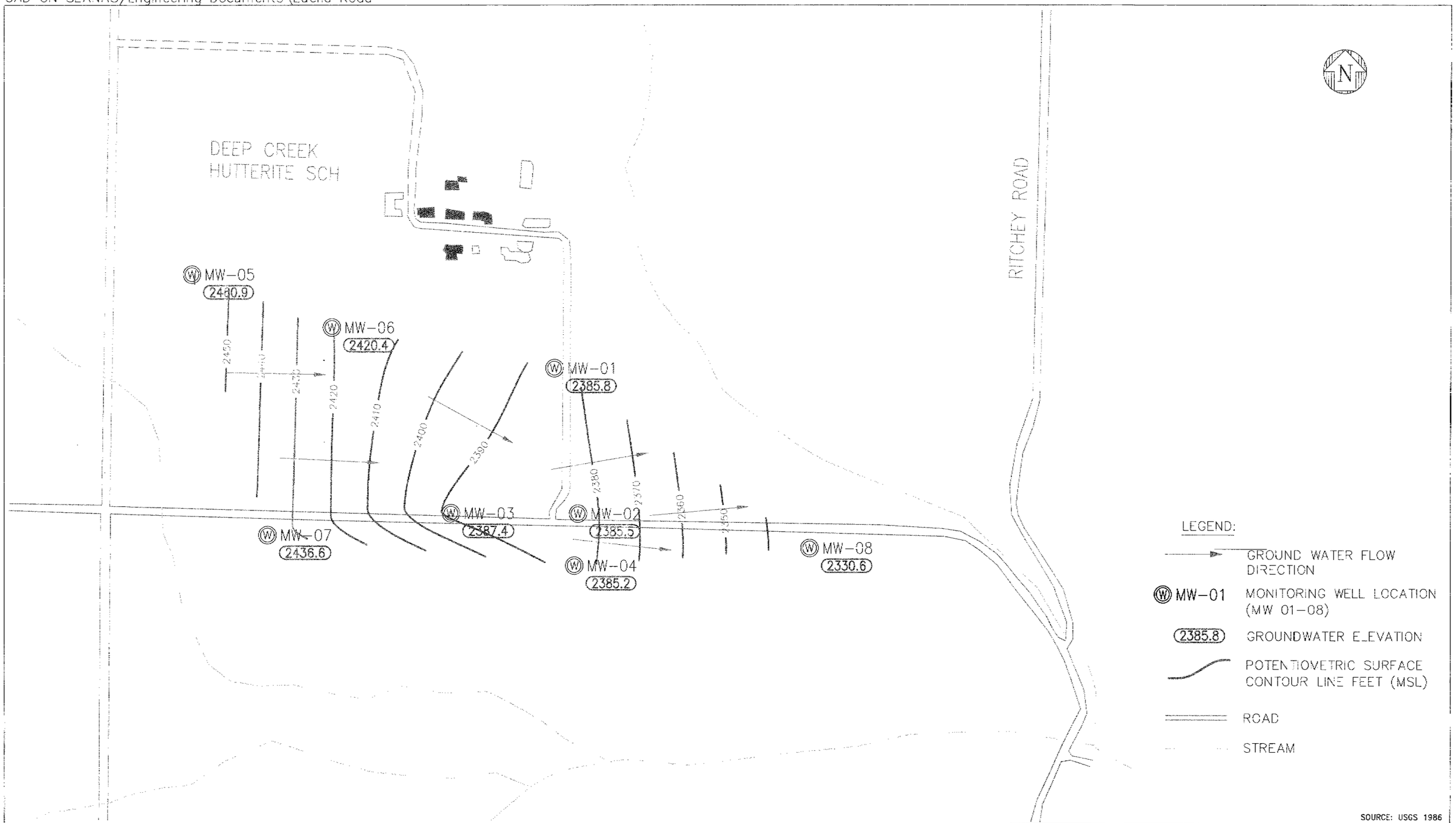
REVISIONS

FIGURE 5
POTENTIOMETRIC SURFACE
APRIL 2007

EUCLID ROAD SITE
REARDAN, WA.

SCALE	DATE ISSUED	E.A.S. FILE NO
NOTED	02-04-08	EUCLID ROAD GW.DWG

CAD ON SEANAS/Engineering Documents\Euclid Road



SOURCE: USGS 1986

SCALE IN FEET
0 250 500 750

ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

DESIGNED BY:
CHECKED BY: M. WOODKE
DRAWN BY: Z. LEHN
APPROVED BY

FIGURE 6
POTENTIOMETRIC SURFACE
OCTOBER 2007
EUCLID ROAD SITE
REARDAN, WA.

SCALE: NOTED
DATE ISSUED: 02-04-08
CAD FILE NO: EUCLID ROAD GW.DWG

D-47

E Hydrological Evaluation Report

ecology and environment, inc.
International Specialists in the Environment
1950 Commonwealth Lane
Tallahassee, Florida 32303
Tel. (850) 574-1400, Fax: (850) 574-1179

August 23, 2006

Mr. Calvin Terada, On-Scene Coordinator
United States Environmental Protection Agency
1200 Sixth Avenue, Mail Stop ECL-116
Seattle, Washington 98101

Re: Euclid Road Groundwater Site Hydrogeologic Evaluation

Dear Mr. Terada:

Ecology and Environment, Inc. (E & E) is submitting to the United States Environmental Protection Agency this final letter report of a hydrogeologic evaluation for the Euclid Road Groundwater Site. The hydrogeologic evaluation included a review of available driller's logs for private supply wells located in the project area and evaluation of the elevations of water-bearing zones and water levels in the wells for which well logs were reviewed. In addition, available groundwater analytical data was reviewed to determine whether any spatial relations between the detected contaminants and detected contaminant concentrations could be identified.

Evaluation Activities

Driller's logs obtained from the Washington State Department of Ecology well log website (http://www.ecy.wa.gov/programs/wr/wells/wellhome.html) for 24 private supply wells from which groundwater analytical data are available were used for the evaluation. In addition, two springs and monitoring wells MW01 through MW04 installed in November 2005 (Emergency Sampling Report; Herrera 2006) were included in the evaluation. Elevations of water-bearing zones and water levels in the wells reported on the driller's logs were determined relative to land surface elevations obtained from United States Geological Survey topographic maps or from the Herrera 2006 report. Well construction details, water-bearing zone elevations, and water level elevations for the wells included in the evaluation are presented in Table 1.

Trichloroethene (TCE), *n*-Nitrosodimethylamine (NDMA), and perchlorate analytical results for groundwater samples collected by E & E from wells in the project area between October 2004 and November 2005 (Herrera 2006), and in March, April, May, and June 2006 were evaluated in an attempt to identify any spatial relationships between contaminant occurrences.

Discussion

Total depths of the potable wells used in the evaluation vary widely, ranging from 80 feet to 575 feet. Based on the reviewed driller's logs, potable wells in the project are generally constructed with relatively shallow casings (typically 20 to 40 feet) that are grouted in place (termed 'sealed' on the driller's logs). The wells are then drilled across multiple water-bearing zones and then completed either open hole, or with a smaller diameter inner casing (termed 'liner' on the driller's logs). Based on the reviewed driller's logs, a liner, when installed, is not sealed in the borehole

below the sealed casing and may or may not be perforated below the sealed casing. Because the liner is not sealed in the borehole, all water-bearing zones crossed by the borehole can yield water to the well through the bottom of the liner and through perforations in the liner, when present. Consequently, many of the wells appear to be open to multiple water zones. The water-bearing zones reported on the driller's logs occur at elevations that vary widely and do not appear to be correlatable across the project area.

Elevations of water levels reported on the driller's logs for the reviewed wells vary widely (range from 2,206 to 2,502 feet relative to mean sea level). Because many of these wells are open to multiple water-bearing zones that likely have different water levels, water levels in these wells likely represent an "average" water level that is not representative of any of the water-bearing zones tapped by the well. Consequently, these water levels likely do not represent water level elevations of any single, regionally extensive water-bearing zone and, therefore, do not appear to be usable for determining groundwater flow directions in the project area.

Based on the available analytical data, TCE groundwater contamination appears to be limited to a relatively small portion of the project area which consists of the southern and northern halves, respectively, of Sections 2 and 11, Township 25 North, Range 40 East. Within this area, TCE has been detected in four monitoring wells and six private supply wells at concentrations ranging from 0.24 to 210 micrograms per liter (µg/l). Total depths of the monitoring wells range from 65.5 feet to 113.5 feet, and each well is screened across the uppermost water-bearing zone encountered at the well location based on well logs provided in Herrera (2006). These water bearing zones occur at depths ranging from 57 to 96 feet below ground surface which corresponds to elevations of 2,352 to 2,374 feet above mean sea level (see Table 1). Total depths of the private supply wells in which TCE has been detected range from 140 feet to 400 feet. Based on the reviewed well logs for private supply wells within this area, it is probable that the private supply wells in which TCE has been detected are completed across multiple water-bearing zones. Consequently, a potential exists that TCE groundwater contamination detected in these wells may reflect the presence of TCE contamination in multiple water-bearing zones within the area. The available analytical data do not appear sufficient to determine the extent of TCE contamination within this area.

NDMA and perchlorate have been detected in groundwater samples sporadically over the entire project area. Based on the available analytical data, NDMA detections are more limited than the perchlorate detections in groundwater. NDMA has been detected in 33 private supply wells in the project area at concentrations ranging from estimated concentrations of 0.0005 J to 0.0071 J µg/l. Perchlorate has been detected in 60 private supply wells and four monitoring wells in the project area. The detected perchlorate concentrations range from an estimated concentration of 0.0078 J to 3.2 µg/l. The detected NDMA and perchlorate concentrations do not exhibit identifiable distribution trends across the project area.

Of the 28 wells listed in Table 1 for which analytical data is available, NDMA was detected in eight private supply wells, and perchlorate was detected in nine private supply wells and four monitoring wells. Both NDMA and perchlorate were detected in seven of the private supply wells. Total depths of the wells in which NDMA has been detected range from 80 to 280 feet. In contrast, the total depths of wells in which perchlorate has been detected range from 65.5 to 575 feet. In addition, the total depths of wells in which both NDMA and perchlorate have been detected range from 80 to 280 feet. The observed well depth ranges suggest perchlorate may be present in groundwater over a greater vertical extent than NDMA. It is unclear whether these

contaminant/well depth relationships reflect real or only apparent contaminant distributions in the project area, given that the set of wells in which these contaminant/well depth relationships were identified represent a limited subset all the wells in which NDMA and/or perchlorate have been detected in the project area.

In addition, it is unclear whether the occurrence of NDMA and perchlorate in groundwater at the site may be related to a common source for both contaminants. In contrast, the limited extent of detected TCE groundwater contamination in the project area suggests the TCE source is unrelated to the source(s) of NDMA and perchlorate.

Conclusions

If further information regarding contaminant distributions and site hydrogeology is required, additional monitoring wells would need to be installed and sampled. The monitoring wells would need to be constructed to target specific water-bearing zones so that contaminant distributions can be identified within specific zones and hydraulic relationships within and between water-bearing zones can be established.

If you have any questions or comments regarding the hydrogeologic evaluation, please contact me at (850) 574-1400 or Mark Woodke at (206) 624-9537.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Dan W. Foss

Dan W. Foss
Hydrogeologist

cc: M. Woodke; E & E - Seattle
D. Shivjiani; E & E - Seattle

Table E-1

Euclid Road Groundwater Site - Well Construction Details and Water Level Elevations

Name	Address	Ground Elev. (feet AMSL)	Well Depth (feet BGS)	Casing Interval (feet BGS)	Liner Interval (feet BGS)	Perf. or Screened Interval (feet BGS)	Water Depth (feet BGS)	Water Elev. (feet AMSL)	WBZ Depth (feet BGS)	WBZ Elevation (feet MSL)
Barry Bigler	23717 West Bowie Lane	2,550	320	+2-38	5-50	50-70	50	2,502	Not Noted on Log	na
					70-320	230-310				
Matt Clouse	8311 North Wood Road	2,300	140	+2-25 Seal 0-18	20-140	120-140	25	2,277	125	2,175
Jess Colvin	6003 North Wood Road	2,550	250	+1-19	None	Open Hole	Not Noted on Log		Not Noted on Log	
Brenda Deshazer	22315 North Jacobs Road	2,450	575	+1-59	5-575	None	62	2,389	120	2,330
Jody Dewey	4101 North Ritchey Road	2,445	300	+1.5-18.5	10-300	260-300	75	2,371.5	64-73	2,372-2,381
									184-187	2,258-2,261
									187-227	2,218-2,258
ERMW-01 (Hutterian Brethren)	3610 North Wood Road	2,421	65.5	0-55.5	None	55-5-65.5	40	2,381	57	2,364
ERMW-02 (Harris)	na	2,452	95.5	0-85.5	None	85.5-95.5	70.9	2,381.1	88	2,364
ERMW-03 (Hutterian Brethren)	3610 North Wood Road	2,470	113.5	0-93.5	None	93.5-113.5	87.5	2,382.5	96	2,374
ERMW-04 (Hall)	22625 West Euclid Avenue	2,448	101.5	0-91.5	None	91.5-101.5	67.8	2,380.2	96	2,352
Mary Jane Fell-Bradford	8018 North Wood Road	2,280	80	+1.5-38.5	None	Open Hole	30	2,251.5	42-48	2,232-2,238
				Seal 0-18					52.5-53	2,227-2,227.5
Garza, Joe	2220 Deep Creek Rd	2,180	180	+2-105 Seal 0-23	3-180	140-180	10	2,172	Not Noted on Log	
Melvin Hall - Spring	22625 West Euclid Avenue	2,353	na	na	na	na	0	2,353	0	2,353
Melvin Hall - Well	22625 West Euclid Avenue	2,356	140	+1-19	6-140	110-140	50	2,307	Not Noted on Log	
Dan Helmer	23103 West Alki Lane	2,398	160	+2-18	5-160	140-160	60	2,340	80	2,318
									143-160	2,238-2,255
Wayne Horn	110 North Ritchey Road	2,405	320	+1-39	to 320	None	200	2,206	45-51	2,354-2,360
									271-285	2,120-2,134
									302-303	2,102-2,103
Hutterian Bretheren	3610 North Wood Road	2,440	400	+1-22	None	Open Hole	40	2,401	63-66	2,374-2,377
									84-92	2,348-2,356
									223-248	2,192-2,217
									386-394	2,046-2,054
Hutterian Bretheren - Livestock Well	3610 North Wood Road	2,460	300	+1-146 Seal 0-18 ft	to 300	None	125	2,336	Not Noted on Log	
Ozzie Knezovich	6610 North Wood Road	2,500	460	+2-18	10-460	420-460	200	2,302	14-16	2,484-2,486
									446-457	2,043-2,054
Ray Logsdon	22812 West Sprague Road	2,391	115	+1-19	None	Open Hole	30	2,362	57-69	2,322-2,334
									73-82	2,309-2,318
									94-96	2,295-2,297
									103-104	2,287-2,288
Les Nee	23212 West Sprague Road	2,360	80	+2-18	6-80	40-80	26	2,336	Not Noted on Log	
Roy Olsen	704 North Wood Road	2,380	150	+1-19	None	Open Hole	18	2,363	23-37	2,343-2,357
									93-97	2,283-2,287
									112-136	2,244-2,268
Duane Perin	2819A North Ritchey Road	2,880	143	+1-48.7 Seal 0-20	to 120	120 total	Not Noted on Log		Not Noted on Log	
Pierson, Fran	2701 North Brooks	2,300	280	+1-53	6-280	240-280	140	2,161	138-142	2158-2162
				Seal 0-18					250-254	2046-2050
									259-265	2035-2041
Frances Steel	4202 North Wood Road	2,480	300	+2-98 Seal 0-18	None	88-98 & Open Hole	41	2,441	250-252	2,228-2,230
Rex Steinmetz	1509 South Ritchey Road	2,280	140	+1.5-18.5	10-140	120-140	60	2,222	138	2,142
James Supinger	2118 North Richey Road	2,340	200	+1-123.5	None	Open Hole	80	2,261	105-115	2,225-2,235
				Seal 0-18					115-200	2,140-2,225
Dave Tueller	6504 North Wood Road	2,500	473	+1-18	+1-359	Open Hole	187	2,314	280-300	2,200-2,220
									454-464	2,036-2,046
Buddi Williams	23912 West Jacobs Road	2,500	150	+1-19	10-150	None	38	2,463	92-102	2,398-2,408
Rick Williams	22901 West Euclid Avenue	2,455	150	+1-24	10-150	None	58	2,398	55-150	2,305-2,400
Rick Williams - Spring	22901 West Euclid Avenue	2,379	na	na	na	na	0	2,379	0	2,379

Key:

AMSL = Above mean sea level.

BGS = Below ground surface.

Elev = Elevation.

na = Not Applicable.

Perf. = Perforated.

WBZ = Water-bearing zone.