Environmental Operations, Inc.
CLEARING THE WAY

Semi-Annual Baseline Groundwater Monitoring Report for Quarters 1 and 2

Former Solutia Queeny Plant
St. Louis, Missouri

Prepared for:

SWH Investments II

Prepared by:

Environmental Operations, Inc.
1530 South 2nd Street, Suite 200
St. Louis, Missouri 63104

July 31, 2012

RCRA
522866

Environmental Consulting & Remediation, Demolition, & Geotechnical Engineering
1530 South 2nd Street St. Louis, Missouri 63104-4500 314.241.0900
www.environmentalops.com

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July 31, 2012

Mr. Bruce Morrison
Project Manager
U.S. Environmental Protection Agency, Region 7
ART Division / RCRA Corrective Action
901 North 5th Street
Kansas City, Kansas 66101-2907

RE: Baseline Groundwater Monitoring Plan
Semi-Annual Report - Quarters 1 and 2
Former Solutia – John F. Queeny Plant
St. Louis, Missouri
EPA ID No. MOD 004 954 111

Dear Mr. Morrison:

This letter accompanies the delivery of the *Semi-Annual Baseline Groundwater Monitoring Report for Quarters 1 and 2* for the Former Solutia John F. Queeny Plant to U.S Environmental Protection Agency (EPA). An electronic version is also provided.

Please let me know if you would like additional copies. I can be reached by phone at 314-480-4694, or via email at larryr@environmentalops.com.

Respectfully submitted,

Lawrence C. Rosen

Lawrence C. Rosen, R.G. / Project Manager
Environmental Operations, Inc.

Attachment: Baseline Groundwater Monitoring Plan – Former Solutia Queeny Plant

Copies: *Mr. Matt Robinson/EOI*
Mr. Michael House/Solutia
Mr. Rich Nussbaum/MDNR
Ms. Christine Kump-Mitchell/MDNR

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CERTIFICATION

Semi-Annual Baseline Groundwater Monitoring Report

State of Missouri Registered Professional Certification Page

I certify that I am a qualified geologist and groundwater scientist who has received a post graduate degree in the natural sciences, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and remediation of soil and groundwater. I further certify that this report was prepared by me or by a subordinate working under my direction.

Lawrence C. Rosen, R.G.

Registration No.: RG0012

Date: 7-31-12

STATE OF MISSOURI
LAWRENCE C. ROSEN
7-31-12
RG 0012
REGISTERED GEOLOGIST

Eric J. Page, R.G.

Environmental Operations, Inc.

Date: July 31, 2012

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List of Acronyms and Abbreviations

Acronym/Abbreviation	Definition
APA	Acetanilides Production Area
AST	Above-ground storage tank
bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
cm	centimeters
CFR	Code of Federal Regulations
CMS	Corrective Measure Study
COC	Constituents of Concern
DNAPL	Dense Non-Aqueous Phase Liquids
EOI	Environmental Operations, Inc.
FBCSA	Former Bulk Chemical Storage Area
GPS	Global Positioning System
IMWP	Interim Measures Work Plan
kg	kilogram
LNAPL	Light non-aqueous phase liquids
MDNR	Missouri Department of Natural Resources
MNA	Monitored Natural Attenuation
mg	Milligrams
NAPL	Non Aqueous Phase Liquid
PCB	Polychlorinated biphenyls
PPE	Personal protective equipment
PRG	Project Remediation Goal

PVC	Polyvinyl chloride
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
Site	Former Solutia Queeny Plant
SOP	Standard Operating Procedures
SWMU	Solid Waste Management Unit
TSCA	Toxic Substances Control Act
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	Underground Storage Tank

1 INTRODUCTION

1.1 Purpose

This monitoring program was developed to evaluate site-wide groundwater for the former FF Building Area and the former APA, and monitor groundwater discharging to the Mississippi River from the FBCSA. The program will also monitor continued plume stability and MNA parameters. This program consists of the following elements: monitoring well installation and development; water level and non-aqueous phase liquid (NAPL) gauging, well inspections and maintenance and groundwater sampling; data management, evaluation and reporting.

The semi-annual report is a data report that will consist of field sheets, groundwater elevation contour maps, and a summary of the validated laboratory analytical data and copies of the laboratory data. The subsequent annual report will contain data evaluation, analysis, and recommendations.

1.2 Location

The Former Solutia J.F. Queeny Plant (Queeny Plant or Site) located between Lesperance and Barton Streets and First and Second Streets in St Louis, Missouri. A single address often provided for the Queeny Plant is 200 Russell Street, St Louis, Missouri. Figure 1-1 is a general Site Location Map showing the Queeny Plant located in the western portion of the Cahokia, Illinois, U.S. Geological Survey (USGS) topographic quadrangle. SWH Investments II legally purchased the Queeny Plant and assumed the environmental obligations for the property effective June 13, 2008. Environmental Operations, Inc. (EOI), in affiliation with SWH Investments II, is assuming the responsibilities for the environmental obligations for the Queeny Plant in order to prepare the property for redevelopment for light industrial and commercial use.

2 BACKGROUND

2.1 Site Description

The Queeny Plant occupies approximately 36 contiguous acres and is located in eastern St. Louis City approximately between First and Second Streets and Lesperance and Barton Streets; a separate parcel of approximately two acres (i.e., the FBSCA) lies south of the contiguous 36 acres at the northeast intersection of First and Victor Streets. The Queeny Plant is located in the western portion of the Cahokia, Illinois, U.S. Geological Survey (USGS) topographic quadrangle (Figure 1). The plant is located on the west bank of the Mississippi River at River Mile 178.

The Queeny Plant is located in an area that is zoned and developed for industrial and commercial uses and is expected to remain so for the foreseeable future. The site is proximate to a major transportation corridor provided by the Mississippi River, several interstate highways, and a large railroad center. Figure 2 is an aerial photograph that shows the Queeny Plant in relation to the surrounding area. Areas surrounding the facility are used for industrial and commercial operations. Current access to the site is restricted.

2.2 Site History

The Monsanto Chemical Works began site operations on six acres at its current location in 1901 with the chemical manufacturing of Saccharin. In 1933 Monsanto Chemical Works changed its name to Monsanto Chemical Company. The company underwent another re-naming in 1964 and became the Monsanto Company. Solutia Inc. was formed from a spin-off of the chemicals business of the Monsanto Company on September 1, 1997.

Since its inception, the Queeny plant has manufactured over 200 products using over 800 raw materials. The major products have included but are not limited to the following: process chemicals such as maleic anhydride, fumaric acid, toluene sulfonic acid, and paranitrophenetole; plasticizers such as phthlate esters and toluene sulfonamides; synthetic functional fluids such as Pydrauls™, Skydrols™, and coolanols; food and fine chemicals such as salicylic acid, aspirin, methyl salicylate, benzoic acid, and ethavan; and agricultural chemicals such as Lasso ™ (i.e., acetanilides or alachlor). The three areas which this work covers are briefly described below.

FF Building Area. The area associated with the FF Building that constitutes the SWMU includes the footprint of the former building (an area of approximately 150 feet by 75 feet) and the surrounding area including a former underground storage tank (UST). The ground covering in this area is asphalt, and crushed and compacted stone. This area is currently not used and no buildings are located in the area.

Former Acetanilides Production Area. The APA produced acetanilides or alachlor also referred to as Lasso™, and it is located in the south-central portion of the Queeny Plant. The estimated size of this manufacturing block is 300 feet by 450 feet. This production area began operations in 1966, as a multi-product facility. The Lasso™ operations ceased in 1991. The ground covering in this area consists of buildings, asphalt, concrete foundations of former aboveground storage tanks, and railroad ballast near the railroad spur.

Former Bulk Chemical Storage Area. The FBCSA approximates a parallelogram shaped parcel of land approximately 285 feet by 300 feet, or approximately 1.94 acres. It was purchased by Monsanto in 1968 from Clark Oil Company and included two 500,000 gallon aboveground storage tanks (ASTs) and two 300,000 gallon ASTs that were used by Clark for fuel storage. After the 1968 purchase, raw materials used at the Queeny Plant were unloaded from a barge terminal, located on the west bank of the Mississippi River, and pumped into these tanks for storage. Materials stored at the terminal by Monsanto and others included: petroleum products, alkyl benzenes, blends of alkyl benzenes (Purex A-220 and Canadian A-221), Santicizer 154 plasticizer (p-t-butylphenyl diphenyl phospate), monochlorobenzene, ortho-nitrochlorobenzene, sodium hydroxide, and potassium hydroxide. The use of this area was discontinued in 1987 and the tanks were removed. This area has at times been leased to other companies as open space storage.

The ground covering in this area is asphalt, crushed and compacted stone, and sparse volunteer vegetation. The SWMU is located outside of the Queeny Plant main property and site security fence, but is enclosed by a locked security fence.

3 SITE ACTIVITY

The BGMP identified the need to install wells to complete the network in addition to collection of groundwater samples. This section briefly describes well installation activities and groundwater sample collection.

3.1 Monitor Well Installation

Monitoring well installation began on property accessible to EOI. Consequently, this included installation of monitoring wells MW-32A, MW-33A, MW-33B, MW-39A, and MW-39B. Well locations for MW-36A, MW-36B, MW-38A, and MW-38B were on property owned by Mr. Ted Ahrens. Access to his property was not obtained and the wells installed until after the second quarterly event, so results are not included in this report. All well installation boring logs and well installation/construction details from both phases of installation will be included in the annual report.

Well were installed in accordance with state of Missouri guidelines by a permitted Missouri well driller. Monitoring wells were constructed of two-inch diameter Schedule 40 polyvinyl chloride (PVC) casing, with a minimum ten foot section of 0.010-in. well screen. The surface completion of the monitoring wells included placement of a concrete pad, installation of locking caps and stickup or flush mount well covers, and placement of bumper posts, as necessary.

3.2 Monitor Well Development

The monitoring wells were developed to remove the fines from the well and sand pack. This was performed using a conventional groundwater pump or equivalent methods suitable for well development. Each monitoring well was developed until a minimum of five well volumes were removed and pH, specific conductance, and temperature readings stabilize within 10% over a minimum of two successive readings. In addition, the turbidity of the development water was observed to ensure that fines have been removed.

3.3 Groundwater Sampling

Prior to each sampling round, groundwater level and NAPL measurements were obtained from the available existing network of monitoring wells and piezometers at the site. These data were used to develop groundwater elevation contour maps during the two sampling events for each hydrostratigraphic zone. Figure 3 and 4 are for the clay and silt unit and bedrock and sand units, respectively for the first quarter. Figure 5 and 6 are for the clay and silt unit and bedrock and sand units, respectively for the second quarter.

Groundwater samples were collected using low-flow methodologies including a flow-through cell. The groundwater sampling proceeded from the least impacted wells to the most impacted in each of the areas. Equipment used for sampling that could contact groundwater was properly decontaminated before each use. Field instruments were calibrated prior to use in accordance with the manufacturer's specifications.

The monitoring wells were purged using a conventional groundwater pump, suitable for low flow applications (i.e., bladder pump [or equivalent]). Field documentation will note drawdown and pumping rate. Each monitoring well was purged until pH, specific conductance, and temperature stabilize over a minimum of three successive flow-through cell volumes. In addition, turbidity was measured but not used as sampling criteria. The field parameters were measured and recorded on monitoring well sampling sheets during purging.

After the relevant parameters stabilized, the flow-through cell was bypassed for sampling. Personnel conducting the groundwater sampling wore clean disposable protective gloves.

To verify field and laboratory procedures, quality assurance/quality control (QA/QC) samples consisting of duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, matrix spike/matrix duplicate ((MS/MD) MNA only), and trip blanks were collected and submitted to the laboratory. QA/QC samples were collected at a frequency of 10% for duplicates and blanks and 5% for MS/MSDs. One trip blank (prepared by the lab) accompany each cooler shipment containing samples for VOC analysis.

A chain-of-custody documentation was completed by the field sampler and provided for each sample cooler. Sampling containers were packed in such a way as to help prevent breakage and cross-contamination. Samples were shipped in coolers, each containing a chain-of-custody form(s) and ice packs to maintain inside temperature at approximately 4°C ± 2°C. Sample coolers were sealed between the lid and sides of the cooler with a custody seal prior to shipment. Samples were either picked up by Pace or hand-delivered to their facility at 4120 Seven Hills Drive in Florissant, Missouri.

3.3.1 First Quarter Event

The first quarter of sampling was initiated on August 29, 2011. Representatives from the MDNR accompanied EOI personnel during the collection of water levels as part of a well audit. Representatives were also present during sample collection, which began on August 30, 2011. Samples were collected on August 30, 31, September 1, 2, 6, 22, and 23, 2011. MDNR personnel were present on September 6, 2011 to collect split samples. EOI did not have access to existing wells on Mr. Ahrens property.

3.3.2 Second Quarter Event

The second quarter sampling commenced on December 19, 2011. EOI met with Mr. Ahrens to access existing wells in his property that previously had not been accessible or sampled under this plan. Groundwater samples were collected on December 19-22, 28, and 29, 2011.

4 ANALYTICAL DATA

The analytical data are summarized in the report tables. The tables are separated by area of the Site, with the first page for a well location having the VOA data, and the second page the lab and field values for the natural attenuation parameters. For any given location, if two columns are shown for a given date, the second column represents a duplicate analysis. Formal laboratory reports for the first and second quarter are presented in Appendices A and B, respectively.

5 REPORT LIMITATIONS

This report has been prepared in accordance with normally accepted environmental engineering practices for gas probe monitoring and reporting. Conclusions presented in this report are EOI's interpretation and comprise a professional opinion based on this data. No other warranty, express or implied, is made regarding the information presented in this report. In the event that conclusions and recommendations, based on the data presented in this report, are made by others, such conclusions and recommendations are their responsibility.

EOI has exercised reasonable skill, care, and diligence in preparation of this report in accordance with generally accepted standards of good professional practice in effect at the time this report was prepared.

Conditions inferred to exist between sampling points might differ significantly from actual conditions. Changes in subsurface conditions can be influenced by many factors. These factors include but are not limited to: management of surrounding areas, off-site contaminant sources, seasonal rainfall fluctuations, changes in drainage conditions in and around the landfill, changes in contaminant source area and composition, groundwater occurrence, and biodegradation. Over time, actual conditions revealed through sampling can vary due to natural occurrences and/or man-made interference on or near the site.

TABLES

FF AREA WELLS
VOC AND NATURAL ATTENTUATION PARAMETERS

MW-2A
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/2/2011	12/29/2011	12/29/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	9.7	<1.0	<1.0
Chloroform	67-66-3	9.8	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	3.1	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

MW-2A
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	12/29/2011	12/29/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	0.01	<0.010	<0.010
Iron	7439-89-6	24.1	6.84	6.54
Manganese	7439-96-5	0.73	2.6	2.59
Alkalinity		266	388	388
Total Dissolved Solids		1160	950	992
pH		7.4	6.7	6.7
Chloride	16887-00-6	402	235	220
Sulfate	14808-79-8	133	197	187
Nitrogen, Nitrate		0.64	<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		0.67	<0.10	<0.10
Total Organic Carbon	7440-44-0	4	<0.50	<0.50
Carbon Dioxide	124-38-9	250	496	496
Field				
Dissolved Iron		0	0	-
Dissolved Manganese		0	0	-
DO		2.02	310	-
pH		7.23	7.25	-
ORP		65.3	80.2	-
Temperature		21.79	22.75	-

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

MW-2B
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/2/2011	9/2/2011	12/29/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	40.6	11.0	<1.0
Chloroform	67-66-3	10.3	9.9	<1.0
cis-1,2-Dichloroethene	156-59-2	3.2	3.1	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

MW-2B
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	9/2/2011	12/29/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	0.0133	<0.010	<0.010
Iron	7439-89-6	1.25	0.493	<0.050
Manganese	7439-96-5	0.51	0.103	0.132
Alkalinity		435	285	0.368
Total Dissolved Solids		1250	1240	0.966
pH		7.2	7.3	6.8
Chloride	16887-00-6	340	448	208
Sulfate	14808-79-8	136	135	181
Nitrogen, Nitrate		0.51	0.63	<0.10
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		0.51	0.64	<0.10
Total Organic Carbon	7440-44-0	3.6	2.9	<0.5
Carbon Dioxide	124-38-9	426	272	440
Field				
Dissolved Iron		0	-	0
Dissolved Manganese		0	-	0
DO		330	-	340
pH		6.63	-	6.67
ORP		77.7	-	91.3
Temperature		19.81	-	20.11

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

MW-3
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/30/2004	8/25/2004	8/25/2004	1/13/2005	3/2/2005	9/1/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	-	-	<10.0	<10.0
Benzene	71-43-2	-	-	-	-	-	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	39	28	26	57	27	5.9	<1.0
Chloroform	67-66-3	-	-	-	-	-	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	1100	680	680	1200	710	1.9	7.5
Ethylbenzene	100-41-4	-	-	-	-	-	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	630	690	680	-	530	<1.0	6.5
Toluene	108-88-3	-	-	-	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	19	10	<1.0	<1.0
Trichloroethene	79-01-6	280	220	220	380	200	<1.0	2.5
Vinyl chloride	75-01-4	-	-	-	23	-	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	-	-	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

MW-3
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/30/2004	8/25/2004	8/25/2004	1/13/2005	3/2/2005	9/1/2011	12/21/2011
Ethane	74-84-0	0.00082	-	-	-	0.00082	<0.010	<0.010
Ethene	74-85-1	-	-	-	-	-	<0.010	<0.010
Methane	74-82-8	0.027	0.01	0.013	0.014	0.04	0.012	<0.010
Iron	7439-89-6	-	-	-	-	-	4.61	29.3
Manganese	7439-96-5	-	-	-	-	-	0.604	3.05
Alkalinity		190	190	200	240	200	509	680
Total Dissolved Solids		-	-	-	-	-	2540	1090
pH		-	-	-	-	-	7.2	7.6
Chloride	16887-00-6	2900	2900	3000	2600	2500	1150	382
Sulfate	14808-79-8	54	53	53	62	56	137	67.2
Nitrogen, Nitrate		-	-	-	-	-	0.42	<0.10
Nitrogen, Nitrite		-	-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	-	0.43	<0.10
Total Organic Carbon	7440-44-0	1.9	2.3	2.4	2.5	2.7	4.7	0.53
Carbon Dioxide	124-38-9	81	56	59	44	34	484	633
Field								
Dissolved Iron		-	-	-	-	-	-	-
Dissolved Manganese		-	-	-	-	-	-	-
DO		-	-	-	-	-	240	1.5
pH		-	-	-	-	-	7.27	7.62
ORP		-	-	-	-	-	182.1	239.7
Temperature		-	-	-	-	-	18.15	14.82

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

MW-28A
Former FF Building Area

Contituent	CAS	Sample Date & Result
		12/22/2011
1,1,1-Trichloroethane	71-55-6	<5.0
1,2-Dichloroethane	107-06-2	<5.0
Acetone	67-64-1	<50.0
Benzene	71-43-2	<5.0
Carbon disulfide	75-15-0	<25.0
Chlorobenzene	108-90-7	<5.0
Chloroform	67-66-3	<5.0
cis-1,2-Dichloroethene	156-59-2	<5.0
Ethylbenzene	100-41-4	<5.0
Iodomethane	74-88-4	<50.0
Methylene chloride	75-09-2	<5.0
Tetrachloroethene	127-18-4	<5.0
Toluene	108-88-3	<5.0
trans-1,2-Dichloroethene	156-60-5	<5.0
Trichloroethene	79-01-6	<5.0
Vinyl chloride	75-01-4	<5.0
Xylene (Total)	1330-20-7	<15.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

MW-28A
Former FF Building Area

Contituent	CAS	Sample Date & Result
Lab		12/22/2011
Ethane	74-84-0	<0.010
Ethene	74-85-1	<0.010
Methane	74-82-8	3.54
Iron	7439-89-6	23
Manganese	7439-96-5	0.46
Alkalinity		330
Total Dissolved Solids		389
pH		6.8
Chloride	16887-00-6	4.4
Sulfate	14808-79-8	48.2
Nitrogen, Nitrate		<0.10
Nitrogen, Nitrite		<0.10
Nitrogen, NO2+NO3		<0.10
Total Organic Carbon	7440-44-0	44.9
Carbon Dioxide	124-38-9	395
Field		
Dissolved Iron		0
Dissolved Manganese		0
DO		430
pH		6.85
ORP		-110.1
Temperature		17.53

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection lim
"-" indicates no data

MW-30B
Former FF Building Area

Contituent	CAS	Sample Date & Result
		12/22/2011
1,1,1-Trichloroethane	71-55-6	<20.0
1,2-Dichloroethane	107-06-2	<20.0
Acetone	67-64-1	<200.0
Benzene	71-43-2	<20.0
Carbon disulfide	75-15-0	<100.0
Chlorobenzene	108-90-7	1160
Chloroform	67-66-3	<20.0
cis-1,2-Dichloroethene	156-59-2	<20.0
Ethylbenzene	100-41-4	<20.0
Iodomethane	74-88-4	<200.0
Methylene chloride	75-09-2	<20.0
Tetrachloroethene	127-18-4	<20.0
Toluene	108-88-3	<20.0
trans-1,2-Dichloroethene	156-60-5	<20.0
Trichloroethene	79-01-6	<20.0
Vinyl chloride	75-01-4	<20.0
Xylene (Total)	1330-20-7	<60.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

MW-30B
Former FF Building Area

Contituent	CAS	Sample Date & Result
Lab		12/21/2011
Ethane	74-84-0	0.201
Ethene	74-85-1	<0.010
Methane	74-82-8	0.135
Iron	7439-89-6	22.5
Manganese	7439-96-5	3.01
Alkalinity		845
Total Dissolved Solids		1380
pH		7.1
Chloride	16887-00-6	144
Sulfate	14808-79-8	313
Nitrogen, Nitrate		0.7
Nitrogen, Nitrite		<0.10
Nitrogen, NO2+NO3		0.72
Total Organic Carbon	7440-44-0	9.6
Carbon Dioxide	124-38-9	878
Field		
Dissolved Iron		0.6
Dissolved Manganese		1.1
DO		1760
pH		6.99
ORP		-132.7
Temperature		24.31

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection lim
"-" indicates no data

MW-39A
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/2/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	6.1	<1.0
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	2.1	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

MW-39A
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	12/21/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	0.0126	<0.010
Iron	7439-89-6	7.05	0.122
Manganese	7439-96-5	0.643	0.502
Alkalinity		528	564
Total Dissolved Solids		2740	2.66
pH		7.1	7.4
Chloride	16887-00-6	1030	1120
Sulfate	14808-79-8	140	143
Nitrogen, Nitrate		0.36	0.39
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		0.38	0.4
Total Organic Carbon	7440-44-0	5.2	<0.50
Carbon Dioxide	124-38-9	522	541
Field			
Dissolved Iron		0	0
Dissolved Manganese		0	0
DO		700	0.62
pH		7.03	6.9
ORP		80.3	279.9
Temperature		22.14	17.46

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

MW-39B
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/2/2011	12/21/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	8,4	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0	<3.0

Results reported in ug/mg

"<" indicates result below the reported detection limit

MW-39B
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	12/21/2011	12/21/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	<0.010	<0.010	<0.010
Iron	7439-89-6	110	0.108	0.108
Manganese	7439-96-5	1.23	<0.005	<0.005
Alkalinity		597	615	625
Total Dissolved Solids		1790	1380	1380
pH		7.1	7.5	7.3
Chloride	16887-00-6	553	330	327
Sulfate	14808-79-8	162	113	111
Nitrogen, Nitrate		0.55	1.4	1.4
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		0.57	1.4	1.4
Total Organic Carbon	7440-44-0	4	0.79	0.73
Carbon Dioxide	124-38-9	557	580	613
Field				
Dissolved Iron		0.3	0.2	-
Dissolved Manganese		0	0	-
DO		2920	1.75	-
pH		6.97	7.06	-
ORP		91.7	268.4	-
Temperature		19.71	2.81	-

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

LPZ-2
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/29/2004	8/25/2004	1/13/2005	3/3/2005	9/2/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1000	dry
1,2-Dichloroethane	107-06-2	-	-	-	-	<1000	dry
Acetone	67-64-1	-	-	-	-	<10000	dry
Benzene	71-43-2	14	-	-	-	<1000	dry
Carbon disulfide	75-15-0	-	-	-	-	<5000	dry
Chlorobenzene	108-90-7	14	-	-	37	<1000	dry
Chloroform	67-66-3	-	-	-	-	<1000	dry
cis-1,2-Dichloroethene	156-59-2	100	-	170	110	190000	dry
Ethylbenzene	100-41-4	-	-	-	-	<1000	dry
Iodomethane	74-88-4	-	-	-	-	<10000	dry
Methylene chloride	75-09-2	-	-	-	-	1210	dry
Tetrachloroethene	127-18-4	-	-	-	-	<1000	dry
Toluene	108-88-3	48000	3800	-	4600	190000	dry
trans-1,2-Dichloroethene	156-60-5	6	-	-	-	<1000	dry
Trichloroethene	79-01-6	5.1	-	-	-	<1000	dry
Vinyl chloride	75-01-4	60	-	23	-	1500	dry
Xylene (Total)	1330-20-7	10	-	140	110	<3000	dry

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

LPZ-2
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/29/2004	8/25/2004	1/13/2005	3/3/2005	9/2/2011	12/20/2011
Ethane	74-84-0	0.025	0.036	0.035	0.057	0.0862	-
Ethene	74-85-1	0.0087	0.0033	0.024	0.048	0.246	-
Methane	74-82-8	8.6	4.9	5.2	17	13.7	-
Iron	7439-89-6	3.5	-	-	-	19.6	-
Manganese	7439-96-5	-	-	-	-	3.6	-
Alkalinity		1100	1300	930	980	1390	-
Total Dissolved Solids		-	-	-	-	2580	-
pH		-	-	-	-	8.1	-
Chloride	16887-00-6	84	89	66	63	367	-
Sulfate	14808-79-8	-	-	-	-	20.8	-
Nitrogen, Nitrate		-	-	-	-	<0.10	-
Nitrogen, Nitrite		-	-	-	-	<0.10	-
Nitrogen, NO2+NO3		-	-	-	-	<0.10	-
Total Organic Carbon	7440-44-0	74	75	120	120	28.8	-
Carbon Dioxide	124-38-9	140	130	96	69	1250	-
Field							
Dissolved Iron		-	-	-	-	-	-
Dissolved Manganese		-	-	-	-	-	-
DO		-	-	-	-	200	-
pH		-	-	-	-	7.01	-
ORP		-	-	-	-	-136.5	-
Temperature		-	-	-	-	20.83	-

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

LPZ-4
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/2/2011	12/12/2011
1,1,1-Trichloroethane	71-55-6	dry	<100
1,2-Dichloroethane	107-06-2	dry	<100
Acetone	67-64-1	dry	<1000
Benzene	71-43-2	dry	<100
Carbon disulfide	75-15-0	dry	<500
Chlorobenzene	108-90-7	dry	<100
Chloroform	67-66-3	dry	138
cis-1,2-Dichloroethene	156-59-2	dry	<100
Ethylbenzene	100-41-4	dry	<100
Iodomethane	74-88-4	dry	<1000
Methylene chloride	75-09-2	dry	<100
Tetrachloroethene	127-18-4	dry	<100
Toluene	108-88-3	dry	3630
trans-1,2-Dichloroethene	156-60-5	dry	<100
Trichloroethene	79-01-6	dry	<100
Vinyl chloride	75-01-4	dry	<100
Xylene (Total)	1330-20-7	dry	<300

Results reported in ug/mg
"<" indicates result below the reported detection limit

LPZ-4
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	12/21/2011
Ethane	74-84-0	-	0.076
Ethene	74-85-1	-	0.0171
Methane	74-82-8	-	20
Iron	7439-89-6	-	7.57
Manganese	7439-96-5	-	2.12
Alkalinity		-	785
Total Dissolved Solids		-	605
pH		-	7.3
Chloride	16887-00-6	-	38.7
Sulfate	14808-79-8	-	3.1
Nitrogen, Nitrate		-	<0.010
Nitrogen, Nitrite		-	<0.010
Nitrogen, NO2+NO3		-	<0.010
Total Organic Carbon	7440-44-0	-	52.1
Carbon Dioxide	124-38-9	-	769
Field			
Dissolved Iron		-	-
Dissolved Manganese		-	-
DO		-	1890
pH		-	10.11
ORP		-	-10.4
Temperature		-	14.83

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

LPZ-5
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/29/2004	8/25/2004	1/13/2005	3/3/2005	9/6/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<200
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<200
Acetone	67-64-1	-	-	-	-	<10	<2000
Benzene	71-43-2	1400	-	-	-	<1.0	<200
Carbon disulfide	75-15-0	-	-	-	-	<5.0	<1000
Chlorobenzene	108-90-7	8200	8300	7900	9100	<1.0	<200
Chloroform	67-66-3	-	-	-	-	1.0	<200
cis-1,2-Dichloroethene	156-59-2	3500	-	-	-	12	4500
Ethylbenzene	100-41-4	85	-	-	-	<1.0	<200
Iodomethane	74-88-4	-	-	-	-	<10	<2000
Methylene chloride	75-09-2	-	-	-	-	2.0	<200
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	5670
Toluene	108-88-3	140000	68000	65000	57000	157	81400
trans-1,2-Dichloroethene	156-60-5	48	-	-	-	<1.0	<200
Trichloroethene	79-01-6	160	-	-	-	<1.0	323
Vinyl chloride	75-01-4	1500	-	-	-	<1.0	684
Xylene (Total)	1330-20-7	10	-	140	110	<1.0	<600

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

LPZ-5
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/29/2004	8/25/2004	1/13/2005	3/3/2005	9/6/2011	12/20/2011
Ethane	74-84-0	0.16	-	0.18	0.14	0.066	0.0325
Ethene	74-85-1	0.008	-	0.0093	0.0087	0.209	0.0702
Methane	74-82-8	12	0.016	14	14	11.1	4.6
Iron	7439-89-6	1.4	-	-	-	2.02	7.44
Manganese	7439-96-5	-	-	-	-	1.58	0.193
Alkalinity		1400	1500	1500	1300	1450	905
Total Dissolved Solids		-	-	-	-	2670	351
pH		-	-	-	-	9.2	8.7
Chloride	16887-00-6	170	180	190	170	312	101
Sulfate	14808-79-8	-	-	140	-	18.4	19.7
Nitrogen, Nitrate		-	-	-	-	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	<0.10	<0.10
Total Organic Carbon	7440-44-0	50	52	46	40	372	168
Carbon Dioxide	124-38-9	73	54	86	85	1210	800
Field							
Dissolved Iron		-	-	-	-	0.9	0.6
Dissolved Manganese		-	-	-	-	0	0
DO		-	-	-	-	2.97	4810
pH		-	-	-	-	8.05	7.89
ORP		-	-	-	-	-207.6	-146.1
Temperature		-	-	-	-	21.02	18.71

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

REC-1
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/30/2004	4/30/2004	8/24/2004	1/13/2005	3/2/2005	9/23/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	<1.0	<50
1,2-Dichloroethane	107-06-2	-	-	-	-	-	<1.0	<50
Acetone	67-64-1	-	-	-	-	-	<10.0	<500
Benzene	71-43-2	-	-	-	-	-	<1.0	<50
Carbon disulfide	75-15-0	-	-	-	-	-	<5.0	<250
Chlorobenzene	108-90-7	140	130	210	19	-	13.1	156
Chloroform	67-66-3	-	-	-	-	-	<1.0	<50
cis-1,2-Dichloroethene	156-59-2	130	120	32	4	-	186	539
Ethylbenzene	100-41-4	85	-	-	-	-	<1.0	<200
Iodomethane	74-88-4	-	-	-	-	-	<10.0	<500
Methylene chloride	75-09-2	-	-	-	-	-	<1.0	<50
Tetrachloroethene	127-18-4	2400	2600	4300	280	6400	2770	3940
Toluene	108-88-3	-	-	-	3.0	-	<1.0	<50
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	-	<1.0	<50
Trichloroethene	79-01-6	220	220	100	22	140	329	310
Vinyl chloride	75-01-4	-	-	-	-	-	8.9	<50
Xylene (Total)	1330-20-7	-	-	-	-	-	<3.0	<150

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

REC-1
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/30/2004	4/30/2004	8/25/2004	1/13/2005	3/3/2005	9/23/2011	12/20/2011
Ethane	74-84-0	-	-	-	-	-	<0.010	<0.010
Ethene	74-85-1	-	-	-	-	-	<0.010	<0.010
Methane	74-82-8	0.00028	0.00028	0.0011	0.0014	0.0011	<0.010	<0.010
Iron	7439-89-6	-	-	-	-	-	-	1.19
Manganese	7439-96-5	-	-	-	-	-	-	18
Alkalinity		410	420	620	50	230	440	600
Total Dissolved Solids		-	-	-	-	-	421	392
pH		-	-	-	-	-	7.4	7.8
Chloride	16887-00-6	110	110	97	3.5	120	15.3	28.2
Sulfate	14808-79-8	65	65	290	5.6	130	73.3	90.3
Nitrogen, Nitrate		1.1	1	0.45	0.21	0.62	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	-	0.1	<0.10
Total Organic Carbon	7440-44-0	1.5	1.4	2.9	0.6	3.1	3.4	1600
Carbon Dioxide	124-38-9	24	25	80	3.6	8.2	422	547
Field								
Dissolved Iron		-	-	-	-	-	0	0
Dissolved Manganese		-	-	-	-	-	0	0
DO		-	-	-	-	-	150	150
pH		-	-	-	-	-	6.71	6.53
ORP		-	-	-	-	-	-101	-110.3
Temperature		-	-	-	-	-	18.86	19.25

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

REC-4
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/30/2004	8/24/2004	1/13/2005	1/13/2005	3/2/2005	3/2/2005	9/6/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	-	-	-	<10.0	<10.0
Benzene	71-43-2	-	-	-	-	-	-	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	520	560	760	620	550	560	<1.0	<1.0
Chloroform	67-66-3	-	-	-	-	-	-	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	1100	1100	1800	1600	1700	1700	2.0	4.8
Ethylbenzene	100-41-4	85	-	-	-	-	-	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	2200	5800	2600	2000	2700	2700	4.0	7.6
Toluene	108-88-3	-	-	-	3.0	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	-	-	<1.0	<1.0
Trichloroethene	79-01-6	220	220	100	22	140	140	329	310
Vinyl chloride	75-01-4	-	-	-	-	-	-	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	-	-	-	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

REC-4
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/30/2004	8/24/2004	1/13/2005	1/13/2005	3/2/2005	3/2/2005	9/6/2011	12/20/2011
Ethane	74-84-0	0.00078	-	0.00042	0.00041	0.0052	0.0004	<0.010	<0.010
Ethene	74-85-1	0.00081	-	0.00046	0.00048	0.0044	0.0034	0.0108	<0.010
Methane	74-82-8	0.1	0.11	0.053	0.058	0.27	0.21	0.289	<0.010
Iron	7439-89-6	-	-	-	-	-	-	8.94	<0.050
Manganese	7439-96-5	-	-	-	-	-	-	2.35	<0.005
Alkalinity		450	450	460	460	430	430	475	52
Total Dissolved Solids		-	-	-	-	-	-	1410	192
pH		-	-	-	-	-	-	7	8.7
Chloride	16887-00-6	470	550	660	660	680	680	415	169
Sulfate	14808-79-8	320	73	290	290	280	280	230	90.3
Nitrogen, Nitrate		-	-	0.035	-	-	-	<0.10	0.56
Nitrogen, Nitrite		-	-	-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	-	-	<0.10	0.57
Total Organic Carbon	7440-44-0	2.6	4.7	3.5	3.6	4	4.2	3.5	0.55
Carbon Dioxide	124-38-9	180	150	100	72	98	98	513	46
Field									
Dissolved Iron		-	-	-	-	-	-	0	0
Dissolved Manganese		-	-	-	-	-	-	0	0
DO		-	-	-	-	-	-	2.67	3860
pH		-	-	-	-	-	-	6.35	6.28
ORP		-	-	-	-	-	-	-53.2	-43.6
Temperature		-	-	-	-	-	-	21.46	19.83

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

OBW-1
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/2/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1000
Acetone	67-64-1	<10.0	<10000
Benzene	71-43-2	<1.0	<1000
Carbon disulfide	75-15-0	<5.0	<5000
Chlorobenzene	108-90-7	4.5	4070
Chloroform	67-66-3	<1.0	<1000
cis-1,2-Dichloroethene	156-59-2	5.8	6530
Ethylbenzene	100-41-4	<1.0	<1000
Iodomethane	74-88-4	<10.0	<10000
Methylene chloride	75-09-2	2.4	<1000
Tetrachloroethene	127-18-4	60.5	59100
Toluene	108-88-3	2.1	<1000
trans-1,2-Dichloroethene	156-60-5	<1.0	<1000
Trichloroethene	79-01-6	3.6	4510
Vinyl chloride	75-01-4	<1.0	<1000
Xylene (Total)	1330-20-7	<3.0	<3000

Results reported in ug/mg
"<" indicates result below the reported detection limit

OBW-1
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/6/2011	12/20/2011
Ethane	74-84-0	0.0203	0.0361
Ethene	74-85-1	0.049	0.0821
Methane	74-82-8	0.703	1.4
Iron	7439-89-6	<0.050	0.307
Manganese	7439-96-5	<0.005	0.0089
Alkalinity		74.1	150
Total Dissolved Solids		985	521
pH		11.7	9.3
Chloride	16887-00-6	384	361
Sulfate	14808-79-8	131	137
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	13.4	77.3
Carbon Dioxide	124-38-9	51.8	119
Field			
Dissolved Iron		0	0
Dissolved Manganese		0	0
DO		5.01	6390
pH		10.62	10.13
ORP		-19.7	-43.6
Temperature		21.76	20.71

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

OBW-2
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/31/2011	8/31/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0	<3.0

Results reported in ug/mg
"<" indicates result below the reported detection limit

OBW-2
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/2/2011	12/20/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	0.0117	0.0113
Iron	7439-89-6	12.3	1.5
Manganese	7439-96-5	0.118	0.0368
Alkalinity		285	255
Total Dissolved Solids		457	409
pH		7.6	7.4
Chloride	16887-00-6	70.5	64.7
Sulfate	14808-79-8	18.1	19.6
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	3.8	-
Carbon Dioxide	124-38-9	261	245
Field			
Dissolved Iron		0	0
Dissolved Manganese		0	0
DO		200	200
pH		8.1	7.72
ORP		-77.2	-88.3
Temperature		15.84	13.61

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

OBW-3
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/2/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	<10.0	<10.0
1,2-Dichloroethane	107-06-2	<10.0	<200
Acetone	67-64-1	<100	<10000
Benzene	71-43-2	23	<200
Carbon disulfide	75-15-0	<50	<1000
Chlorobenzene	108-90-7	1990	3180
Chloroform	67-66-3	<10.0	<200
cis-1,2-Dichloroethene	156-59-2	21700	22800
Ethylbenzene	100-41-4	<10.0	<200
Iodomethane	74-88-4	<100	<2000
Methylene chloride	75-09-2	<10.0	<200
Tetrachloroethene	127-18-4	14000	13900
Toluene	108-88-3	<10.0	<200
trans-1,2-Dichloroethene	156-60-5	19.2	<200
Trichloroethene	79-01-6	8960	11000
Vinyl chloride	75-01-4	<10.0	<200
Xylene (Total)	1330-20-7	<30	<600

Results reported in ug/mg
"<" indicates result below the reported detection limit

OBW-3
Former FF Building Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		8/31/2011	8/31/2011	12/20/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	<0.010	<0.010	<0.010
Iron	7439-89-6	<0.050	<0.050	<0.050
Manganese	7439-96-5	<0.005	<0.005	<0.005
Alkalinity		274	277	255
Total Dissolved Solids		287	292	486
pH		7.8	7.8	7.9
Chloride	16887-00-6	1.2	1.3	152
Sulfate	14808-79-8	18.8	19	97.2
Nitrogen, Nitrate		<0.10	<0.10	1.3
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10	1.3
Total Organic Carbon	7440-44-0	<1.0	<1.0	<0.50
Carbon Dioxide	124-38-9	245	250	231
Field				
Dissolved Iron		0	-	0
Dissolved Manganese		0	-	0
DO		-	-	470
pH		7.8	-	7.71
ORP		175.1	-	120.7
Temperature		15.6	-	16.32

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates no data

FORMER APA WELLS
VOC AND NATURAL ATTENTUATION PARAMETERS

GM-1
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/1/2004	9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	-	<1000	<1000
1,2-Dichloroethane	107-06-2	-	<1000	<1000
Acetone	67-64-1	-	<10000	<10000
Alachlor	15972-60-8	92000	170000	191000
Benzene	71-43-2	-	<1000	<1000
Carbon disulfide	75-15-0	-	<5000	<5000
Chlorobenzene	108-90-7	120000	118000	98100
Chloroform	67-66-3	-	<1000	<1000
cis-1,2-Dichloroethene	156-59-2	-	<1000	<1000
Ethylbenzene	100-41-4	-	<1000	<1000
Iodomethane	74-88-4	-	<10000	<10000
Methylene chloride	75-09-2	-	<1000	<1000
Tetrachloroethene	127-18-4	-	<1000	<1000
Toluene	108-88-3	-	<1000	<1000
trans-1,2-Dichloroethene	156-60-5	-	<1000	<1000
Trichloroethene	79-01-6	-	<1000	<1000
Vinyl chloride	75-01-4	-	<1000	<1000
Xylene (Total)	1330-20-7	-	<3000	<3000

Results reported in ug/L
"<" indicates result below the reported detection limit
"-" indicates no data

GM-1
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	0.379	0.556
Iron	7439-89-6	32.7	3.84
Manganese	7439-96-5	23.8	1.09
Alkalinity		276	765
Total Dissolved Solids		446	1450
pH		6.7	9.9
Chloride	16887-00-6	91.3	88.6
Sulfate	14808-79-8	16	104
Nitrogen, Nitrate		<0.10	0.31
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	0.36
Total Organic Carbon	7440-44-0	156	208
Carbon Dioxide	124-38-9	318	286
Field		-	-
Dissolved Iron		0.6	0.8
Dissolved Manganese		0	0
DO		610	1640
pH		7.07	8.11
ORP		82.1	189.2
Temperature		18.17	23.12

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

GM-2
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/30/2004	8/30/2004	9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	-	-	<1000	<1000
1,2-Dichloroethane	107-06-2	-	-	<1000	<1000
Acetone	67-64-1	-	-	<10000	<10000
Alachlor	15972-60-8	70000	-	120000	96400
Benzene	71-43-2	-	-	<1000	<1000
Carbon disulfide	75-15-0	-	-	<5000	<5000
Chlorobenzene	108-90-7	82000	94000	44600	46700
Chloroform	67-66-3	-	-	<1000	<1000
cis-1,2-Dichloroethene	156-59-2	-	-	<1000	<1000
Ethylbenzene	100-41-4	-	-	<1000	<1000
Iodomethane	74-88-4	-	-	<10000	<10000
Methylene chloride	75-09-2	-	-	<1000	<1000
Tetrachloroethene	127-18-4	-	-	<1000	<1000
Toluene	108-88-3	-	-	<1000	<1000
trans-1,2-Dichloroethene	156-60-5	-	-	<1000	<1000
Trichloroethene	79-01-6	-	-	<1000	<1000
Vinyl chloride	75-01-4	-	-	<1000	<1000
Xylene (Total)	1330-20-7	-	-	<3000	<3000

Results reported in ug/L
"<" indicates result below the reported detection limit
"-" indicates no data

GM-2
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	2.77	2.14
Iron	7439-89-6	13.9	7.31
Manganese	7439-96-5	7.38	10.1
Alkalinity		530	475
Total Dissolved Solids		1.21	1060
pH		6.7	6.8
Chloride	16887-00-6	250	265
Sulfate	14808-79-8	<5.0	<1.0
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	190	198
Carbon Dioxide	124-38-9	600	569
Field		-	-
Dissolved Iron		0.9	1.1
Dissolved Manganese		0	0
DO		0.35	470
pH		6.45	6.9
ORP		-42.3	-30.4
Temperature		10.45	8.31

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-4
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	<25	<1.0
1,2-Dichloroethane	107-06-2	<25	<1.0
Acetone	67-64-1	<250	<10.0
Alachlor	15972-60-8	2.78	2.67
Benzene	71-43-2	<25	<1.0
Carbon disulfide	75-15-0	<125	<5.0
Chlorobenzene	108-90-7	1740	18.4
Chloroform	67-66-3	<25	<1.0
cis-1,2-Dichloroethene	156-59-2	<25	<1.0
Ethylbenzene	100-41-4	<25	<1.0
Iodomethane	74-88-4	<250	<10.0
Methylene chloride	75-09-2	<25	<1.0
Tetrachloroethene	127-18-4	<25	<1.0
Toluene	108-88-3	<25	<1.0
trans-1,2-Dichloroethene	156-60-5	<25	<1.0
Trichloroethene	79-01-6	<25	<1.0
Vinyl chloride	75-01-4	<25	<1.0
Xylene (Total)	1330-20-7	<75	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-4
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	0.0195	0.0482
Iron	7439-89-6	17	2.24
Manganese	7439-96-5	4.14	3.36
Alkalinity		260	225
Total Dissolved Solids		338	334
pH		7.1	7.4
Chloride	16887-00-6	11.6	11.5
Sulfate	14808-79-8	39.1	40.6
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	9.4	6
Carbon Dioxide	124-38-9	243	216
Field		-	-
Dissolved Iron		0.1	0.6
Dissolved Manganese		0	0
DO		130	240
pH		7.26	7.15
ORP		-70.2	-63.2
Temperature		18.28	18.28

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-9
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Alachlor	15972-60-8	0.20	1.63
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	148	<1.0
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-9
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	0.298	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	9.29	<0.010
Iron	7439-89-6	29.6	8.3
Manganese	7439-96-5	0.381	4.79
Alkalinity		718	300
Total Dissolved Solids		1440	623
pH		6.9	7.5
Chloride	16887-00-6	353	84
Sulfate	14808-79-8	5.1	87.7
Nitrogen, Nitrate		<0.10	3.5
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	3.6
Total Organic Carbon	7440-44-0	17.3	2.2
Carbon Dioxide	124-38-9	744	283
Field		-	-
Dissolved Iron		4.2	5
Dissolved Manganese		0	0
DO		600	240
pH		7.11	7.01
ORP		-113.2	-120.1
Temperature		18.59	18.29

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-11A
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<2.0
1,2-Dichloroethane	107-06-2	<1.0	<2.0
Acetone	67-64-1	<10.0	<20.0
Alachlor	15972-60-8	0.43	<0.13
Benzene	71-43-2	<1.0	<2.0
Carbon disulfide	75-15-0	<5.0	<10.0
Chlorobenzene	108-90-7	247	<2.0
Chloroform	67-66-3	<1.0	<2.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<2.0
Ethylbenzene	100-41-4	<1.0	<2.0
Iodomethane	74-88-4	<10.0	<20.0
Methylene chloride	75-09-2	<1.0	<2.0
Tetrachloroethene	127-18-4	<1.0	<2.0
Toluene	108-88-3	<1.0	<2.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<2.0
Trichloroethene	79-01-6	<1.0	<2.0
Vinyl chloride	75-01-4	<1.0	<2.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-11A
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/21/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	17.7	<0.010
Iron	7439-89-6	30.7	<0.050
Manganese	7439-96-5	0.385	<0.005
Alkalinity		703	295
Total Dissolved Solids		1470	333
pH		6.9	7.9
Chloride	16887-00-6	435	2
Sulfate	14808-79-8	9.4	19.6
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	16.2	0.71
Carbon Dioxide	124-38-9	720	267
Field		-	-
Dissolved Iron		-	-
Dissolved Manganese		-	-
DO		340	490
pH		7.07	6.99
ORP		-152.8	-150.1
Temperature		20.92	21.03

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-13
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Alachlor	15972-60-8	0.19	0.39
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	214	10.8
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-13
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/20/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	22.6	2.71
Iron	7439-89-6	79.6	17.9
Manganese	7439-96-5	1.53	1.08
Alkalinity		1090	655
Total Dissolved Solids		1420	365
pH		6.9	7.2
Chloride	16887-00-6	345	374
Sulfate	14808-79-8	16.4	<1.0
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	18.8	25.8
Carbon Dioxide	124-38-9	1100	659
Field		-	-
Dissolved Iron		6.1	7
Dissolved Manganese		0	0
DO		310	720
pH		7.01	7.11
ORP		-102.1	-90.2
Temperature		13.5	11.93

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-15
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/1/2011	12/28/2011	12/28/2011
1,1,1-Trichloroethane	71-55-6	<50	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<50	<1.0	<1.0
Acetone	67-64-1	<500	<10.0	<10.0
Alachlor	15972-60-8	2.83	1.29	1.15
Benzene	71-43-2	<50	<1.0	<1.0
Carbon disulfide	75-15-0	<250	<5.0	<5.0
Chlorobenzene	108-90-7	2840	1.4	1.3
Chloroform	67-66-3	<50	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<50	<1.0	<1.0
Ethylbenzene	100-41-4	<50	<1.0	<1.0
Iodomethane	74-88-4	<500	<10.0	<10.0
Methylene chloride	75-09-2	<50	<1.0	<1.0
Tetrachloroethene	127-18-4	<50	<1.0	<1.0
Toluene	108-88-3	<50	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<50	<1.0	<1.0
Trichloroethene	79-01-6	<50	<1.0	<1.0
Vinyl chloride	75-01-4	<50	<1.0	<1.0
Xylene (Total)	1330-20-7	<150	<3.0	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-15
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/28/2011	12/28/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	0.0405	<0.010	<0.010
Iron	7439-89-6	10.5	3.73	3.22
Manganese	7439-96-5	6.03	2.04	1.99
Alkalinity		260	115	76
Total Dissolved Solids		352	<0.005	44
pH		7.1	7.4	7.4
Chloride	16887-00-6	14.5	4.5	3.1
Sulfate	14808-79-8	40.3	16.6	12.3
Nitrogen, Nitrate		<0.10	<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10	<0.10
Total Organic Carbon	7440-44-0	7.2	2.6	2.5
Carbon Dioxide	124-38-9	252	110	72.9
Field		-	-	
Dissolved Iron		0	0	
Dissolved Manganese		0	0	
DO		120	310	
pH		7.1	7.07	
ORP		40.3	43.8	
Temperature		16.24	5.81	

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-19
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	<1000	<100
1,2-Dichloroethane	107-06-2	<1000	<100
Acetone	67-64-1	<10000	<1000
Alachlor	15972-60-8	3.03	2.81
Benzene	71-43-2	<1000	<100
Carbon disulfide	75-15-0	<5000	<500
Chlorobenzene	108-90-7	68700	9220
Chloroform	67-66-3	<1000	<100
cis-1,2-Dichloroethene	156-59-2	<1000	<100
Ethylbenzene	100-41-4	<1000	<100
Iodomethane	74-88-4	<10000	<1000
Methylene chloride	75-09-2	1780	<100
Tetrachloroethene	127-18-4	<1000	<100
Toluene	108-88-3	<1000	<100
trans-1,2-Dichloroethene	156-60-5	<1000	<100
Trichloroethene	79-01-6	<1000	<100
Vinyl chloride	75-01-4	<1000	<100
Xylene (Total)	1330-20-7	<3000	<300

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-19
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	<0.010	0.0267
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	19.3	0.863
Iron	7439-89-6	23.4	8.06
Manganese	7439-96-5	4.54	22.1
Alkalinity		608	415
Total Dissolved Solids		795	639
pH		7	7.3
Chloride	16887-00-6	100	103
Sulfate	14808-79-8	2.5	15.6
Nitrogen, Nitrate		<0.10	0.36
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	0.37
Total Organic Carbon	7440-44-0	46.8	34.4
Carbon Dioxide	124-38-9	617	407
Field		-	-
Dissolved Iron		1.1	2.1
Dissolved Manganese		0	0
DO		420	470
pH		7.01	7.09
ORP		-109.3	-125.3
Temperature		25.98	24.03

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-23
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
		9/1/2011	12/19/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Alachlor	15972-60-8	0.23	0.27
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	25.2	1.2
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/L
"<" indicates result below the reported detection limit

MW-23
Former Acetanilides Production Area (APA)

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		9/1/2011	12/19/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	8.61	1.19
Iron	7439-89-6	176	1.42
Manganese	7439-96-5	3.85	0.29
Alkalinity		1100	310
Total Dissolved Solids		1440	420
pH		6.9	7.7
Chloride	16887-00-6	344	39.7
Sulfate	14808-79-8	15.2	3.8
Nitrogen, Nitrate		<0.10	0.14
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	0.16
Total Organic Carbon	7440-44-0	25	9.5
Carbon Dioxide	124-38-9	1060	285
Field		-	-
Dissolved Iron		-	1.6
Dissolved Manganese		-	0
DO		820	320
pH		6.93	7.31
ORP		99.2	-141
Temperature		15.32	14.06

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

FORMER BULK CHEMICAL STORAGE AREA WELLS
VOC AND NATURAL ATTENTUATION PARAMETERS

MW-24A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/28/2004	4/28/2004	8/23/2004	8/23/2004	11/19/2004	11/19/2004	1/7/2005	9/6/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	-	<1.0	<20
1,2-Dichloroethane	107-06-2	-	-	-	-	-	-	-	<1.0	<20
Acetone	67-64-1	-	-	-	-	-	-	-	<10.0	<200
Benzene	71-43-2	11000	12000	8000	7000	9600	9800	9600	91.8	6520
Carbon disulfide	75-15-0	-	-	-	-	-	-	-	<5.0	<100
Chlorobenzene	108-90-7	2700	2600	1600	1500	1800	1800	1700	83.7	1310
Chloroform	67-66-3	-	-	-	-	-	-	-	1.1	<20
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	-	-	<1.0	<20
Ethylbenzene	100-41-4	900	920	810	810	910	980	1000	<1.0	196
Iodomethane	74-88-4	-	-	-	-	-	-	-	<10.0	<200
Methylene chloride	75-09-2	-	-	-	-	-	-	-	3.1	<20
Tetrachloroethene	127-18-4	-	-	-	-	-	-	-	<1.0	<20
Toluene	108-88-3	140	140	120	120	140	140	140	<1.0	77.4
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	-	-	-	<1.0	<20
Trichloroethene	79-01-6	-	-	-	-	-	-	-	<1.0	<20
Vinyl chloride	75-01-4	-	-	-	-	-	-	-	<1.0	<20
Xylene (Total)	1330-20-7	3000	3000	2400	2400	2600	2800	2800	<1.0	266

Results reported in ug/mg
"<" indicates result below the reported detection limit
"-" indicates no data

MW-24A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/28/2004	4/28/2004	8/23/2004	8/23/2004	11/19/2004	11/19/2004	1/7/2005	9/6/2011	12/20/2011
Ethane	74-84-0	0.0058	0.006	-	-	0.0085	0.016	0.003	<0.010	<0.010
Ethene	74-85-1	-	0.00057	-	-	-	-	0.00013	<0.010	<0.010
Methane	74-82-8	2.3	2	1.6	2.2	6.3	9.3	1.3	4.02	3.89
Iron	7439-89-6	-	-	-	-	-	-	-	33.4	38.6
Manganese	7439-96-5	-	-	-	-	-	-	-	2.43	2.44
Alkalinity		750	750	740	740	740	740	720	674	575
Total Dissolved Solids		-	-	-	-	-	-	-	814	820
pH		-	-	-	-	-	-	-	7	6.8
Chloride	16887-00-6	90	89	85	85	98	100	95	98.8	93.6
Sulfate	14808-79-8	-	-	-	-	-	-	-	<1.0	<1.0
Nitrogen, Nitrate		-	-	-	-	-	-	-	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	-	-	-	0.1	<0.10
Total Organic Carbon	7440-44-0	33	32	20	21	22	20	20	22.7	23.4
Carbon Dioxide	124-38-9	280	310	240	250	180	160	160	728	688
Field		-	-	-	-	-	-	-	-	-
Dissolved Iron		-	-	-	-	-	-	-	1.1	1.2
Dissolved Manganese		-	-	-	-	-	-	-	0	0
DO		-	-	-	-	-	-	-	800	1020
pH		-	-	-	-	-	-	-	6.29	6.75
ORP		-	-	-	-	-	-	-	-101.6	-85.4
Temperature		-	-	-	-	-	-	-	20.07	13.77

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-24 B
Former Bulk Chemical Storage Area (FBCSA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/26/2004	8/19/2004	11/19/2004	1/7/2005	9/6/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<1000
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<1000
Acetone	67-64-1	-	-	-	-	<10.0	<10000
Benzene	71-43-2	18000	29000	20000	32000	161	42400
Carbon disulfide	75-15-0	-	-	-	-	<5.0	<5000
Chlorobenzene	108-90-7	130000	190000	110000	100000	30	163000
Chloroform	67-66-3	-	-	-	-	<1.0	<1000
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	<1.0	<1000
Ethylbenzene	100-41-4	-	-	-	-	5.0	<1000
Iodomethane	74-88-4	-	-	-	-	<10.0	<10000
Methylene chloride	75-09-2	-	-	-	-	3.1	<1000
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	<1000
Toluene	108-88-3	1600	2500	880	1100	1.7	3060
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	<1.0	<1000
Trichloroethene	79-01-6	-	-	-	-	<1.0	<1000
Vinyl chloride	75-01-4	-	-	-	-	<1.0	<1000
Xylene (Total)	1330-20-7	40	1400	-	-	6.8	<3000

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-24B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/26/2004	8/19/2004	9/14/2004	11/19/2004	1/7/2005	9/6/2011	12/21/2011
Ethane	74-84-0	0.0019	0.0031	-	0.0026	0.0025	0.0121	<0.010
Ethene	74-85-1	0.002	-	-	-	0.001	<0.010	<0.010
Methane	74-82-8	0.83	0.88	-	2.5	1.9	9.24	2.85
Iron	7439-89-6	-	-	30	-	-	41	14.7
Manganese	7439-96-5	-	-	0.9	-	-	0.763	0.741
Alkalinity		740	860	-	890	900	874	910
Total Dissolved Solids		-	-	1200	-	-	1180	1250
pH		-	-	7	-	-	7.1	7.1
Chloride	16887-00-6	110	98	-	120	120	193	189
Sulfate	14808-79-8	42	-	-	-	63	1	7.2
Nitrogen, Nitrate		-	0.06	-	-	-	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	-	<0.10	<0.10
Total Organic Carbon	7440-44-0	37	55	-	44	29	39.5	68
Carbon Dioxide	124-38-9	110	180	-	140	170	908	945
Field		-	-	-	-	-	-	-
Dissolved Iron		-	-	-	-	-	6.2	8.1
Dissolved Manganese		-	-	-	-	-	0	0
DO		-	-	-	-	-	860	1422
pH		-	-	-	-	-	6.53	6.7
ORP		-	-	-	-	-	-123.6	-103.3
Temperature		-	-	-	-	-	23.54	18.51

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-25 A
Former Bulk Chemical Storage Area (FBCSA)

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/29/2004	8/23/2004	11/22/2004	1/11/2005	9/23/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<5.0
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<5.0
Acetone	67-64-1	-	-	-	-	<10.0	147
Benzene	71-43-2	210	530	500	110	45.1	<5.0
Carbon disulfide	75-15-0	-	-	-	-	<5.0	<25.0
Chlorobenzene	108-90-7	2800	2400	3400	520	210	21.8
Chloroform	67-66-3	-	-	-	-	<1.0	<5.0
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	<1.0	<5.0
Ethylbenzene	100-41-4	-	55	64	4.6	<1.0	<5.0
Iodomethane	74-88-4	-	-	-	-	<10.0	<50.0
Methylene chloride	75-09-2	-	-	-	-	<1.0	<5.0
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	9.9
Toluene	108-88-3	-	-	-	-	3.1	20.7
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	<1.0	<5.0
Trichloroethene	79-01-6	-	-	-	-	<1.0	<5.0
Vinyl chloride	75-01-4	-	-	-	-	<1.0	<5.0
Xylene (Total)	1330-20-7	40	43	-	-	5.3	<15.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-25A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/29/2004	8/23/2004	11/22/2004	1/11/2005	9/23/2011	12/20/2011
Ethane	74-84-0	0.0008	-	-	-	<0.010	<0.010
Ethene	74-85-1	0.0008	-	-	-	<0.010	<0.010
Methane	74-82-8	0.73	0.64	0.18	0.15	6.37	18.7
Iron	7439-89-6	-	-	-	-	-	2.13
Manganese	7439-96-5	-	-	-	-	-	36.9
Alkalinity		1200	1000	1100	1000	1010	1320
Total Dissolved Solids		-	-	-	-	999	3340
pH		-	-	-	-	7.2	11
Chloride	16887-00-6	52	51	62	54	12.6	17.5
Sulfate	14808-79-8	-	58	-	62	3.8	326
Nitrogen, Nitrate		-	-	0.2	0.045	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	<0.10	<.0.10
Total Organic Carbon	7440-44-0	7	15	8.7	9.8	8.3	478
Carbon Dioxide	124-38-9	150	260	110	100	1020	660
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	-	-
Dissolved Manganese		-	-	-	-	-	-
DO		-	-	-	-	260	420
pH		-	-	-	-	7.83	11.12
ORP		-	-	-	-	-115.7	18.8
Temperature		-	-	-	-	7.83	16.86

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-25B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/27/2004	8/23/2004	11/22/2004	1/11/2005	9/23/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	-	<10.0	<10.0
Benzene	71-43-2	80	12	200	8.1	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	330	260	910	120	70.1	<1.0
Chloroform	67-66-3	-	-	-	-	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	-	3.0	-	0.82	<1.0	<1.0
Ethylbenzene	100-41-4	-	-	-	-	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	<1.0
Toluene	108-88-3	-	-	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	<1.0	<1.0
Trichloroethene	79-01-6	-	-	-	-	<1.0	<1.0
Vinyl chloride	75-01-4	-	-	-	-	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	-	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-25B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/27/2004	8/23/2004	11/22/2004	1/11/2005	9/23/2011	12/21/2011
Ethane	74-84-0	-	-	-	-	<0.010	<0.010
Ethene	74-85-1	-	-	-	-	<0.010	<0.010
Methane	74-82-8	0.14	0.073	0.0057	0.071	0.607	0.319
Iron	7439-89-6	-	-	-	-	-	8.55
Manganese	7439-96-5	-	-	-	-	-	0.182
Alkalinity		690	750	720	590	710	1320
Total Dissolved Solids		-	-	-	-	1070	1520
pH		-	-	-	-	7.1	7.8
Chloride	16887-00-6	80	65	84	83	117	65.5
Sulfate	14808-79-8	130	76	100	190	164	78.1
Nitrogen, Nitrate		-	-	-	-	<0.10	0.15
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	<0.10	0.17
Total Organic Carbon	7440-44-0	3.7	5.6	5.2	3.9	4.7	12.5
Carbon Dioxide	124-38-9	160	180	95	76	738	1200
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	2.1	2.4
Dissolved Manganese		-	-	-	-	0	0
DO		-	-	-	-	260	1390
pH		-	-	-	-	7.02	7.01
ORP		-	-	-	-	-100.1	-88.2
Temperature		-	-	-	-	20.87	18.75

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-31B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/18/2004	11/18/2004	1/11/2005	8/31/2011	12/28/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	<10.0	<10.0
Benzene	71-43-2	15	17	14	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	4.2	5.8	7.4	<1.0	8.7
Chloroform	67-66-3	-	-	-	15.8	14.6
cis-1,2-Dichloroethene	156-59-2	-	-	-	<1.0	<1.0
Ethylbenzene	100-41-4	-	-	0.37	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	-	-	-	<1.0	<1.0
Toluene	108-88-3	0.55	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	<1.0	<1.0
Trichloroethene	79-01-6	-	-	-	<1.0	<1.0
Vinyl chloride	75-01-4	0.97	-	-	<1.0	<1.0
Xylene (Total)	1330-20-7	1.3	-	-	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-31B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		8/18/2004	11/18/2004	1/11/2005	3/3/2005	8/31/2011	12/28/2011
Ethane	74-84-0	-	-	-	-	<0.010	<0.010
Ethene	74-85-1	-	-	-	-	<0.010	<0.010
Methane	74-82-8	37	0.0089	0.64	-	<0.010	<0.010
Iron	7439-89-6	-	-	-	-	0.44	27.5
Manganese	7439-96-5	-	-	-	-	0.0546	0.638
Alkalinity		750	750	760	-	158	185
Total Dissolved Solids		-	-	-	-	344	301
pH		-	-	-	-	7.3	7.4
Chloride	16887-00-6	81	98	82	-	34.5	34.2
Sulfate	14808-79-8	100	110	100	-	75.8	72.4
Nitrogen, Nitrate		-	-	-	-	1.9	0.84
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	1.9	0.84
Total Organic Carbon	7440-44-0	3.7	5.3	3.7	-	2.9	5.2
Carbon Dioxide	124-38-9	120	150	130	-	147	178
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	0	0
Dissolved Manganese		-	-	-	-	1.1	1.8
DO		-	-	-	-	600	1550
pH		-	-	-	-	6.9	7.11
ORP		-	-	-	-	-100.3	-115.3
Temperature		-	-	-	-	20.18	18.64

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-32A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		8/31/2011	12/22/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	<1.0	16.2
Chloroform	67-66-3	17.0	18.3
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit

MW-32A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		8/31/2011	12/21/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	<0.010	<0.010
Iron	7439-89-6	0.533	0.324
Manganese	7439-96-5	0.0541	0.225
Alkalinity		160	205
Total Dissolved Solids		341	289
pH		7.4	7.3
Chloride	16887-00-6	34.4	29
Sulfate	14808-79-8	75.6	65.8
Nitrogen, Nitrate		2	0.95
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		2	0.97
Total Organic Carbon	7440-44-0	4.8	2.8
Carbon Dioxide	124-38-9	144	201
Field		-	
Dissolved Iron		0	1.2
Dissolved Manganese		1.1	0
DO		100	710
pH		7.15	7.05
ORP		-130.4	-161.2
Temperature		18.23	23.8

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-32B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/17/2004	8/17/2004	11/18/2004	11/18/2004	1/10/2005	1/10/2005	8/30/2011	12/28/2011	12/28/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	-	-	-	<1.0	<1.0	<1.0
Acetone	67-64-1	-	-	-	-	-	-	<10.0	<10.0	<10.0
Benzene	71-43-2	310000	30000	28000	27000	7900	8900	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	-	-	-	<5.0	<5.0	<5.0
Chlorobenzene	108-90-7	-	-	710	720	620	760	<1.0	9.6	15.8
Chloroform	67-66-3	-	-	-	-	-	-	14.5	15.1	16.9
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	-	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	-	-	-	-	-	-	<1.0	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	-	-	-	<10.0	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	-	-	-	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	-	-	-	-	-	-	<1.0	<1.0	<1.0
Toluene	108-88-3	-	-	-	-	-	-	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	-	-	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	-	-	-	-	-	-	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	-	-	-	-	-	-	<1.0	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	-	-	-	<3.0	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-32B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		8/17/2004	8/17/2004	11/18/2004	11/18/2004	1/10/2005	1/10/2005	8/30/2011	12/28/2011	12/28/2011
Ethane	74-84-0	0.0034	0.0037	0.023	0.0063	0.018	0.011	<0.010	<0.010	<0.010
Ethene	74-85-1	-	-	-	-		-	<0.010	<0.010	<0.010
Methane	74-82-8	3.2	3.8	4.4	5	10	6.7	<0.010	<0.010	<0.010
Iron	7439-89-6	-	-	-	-		-	1.64	6.2	6.69
Manganese	7439-96-5	-	-	-	-		-	0.262	0.226	0.743
Alkalinity		630	640	630	630	630	630	158	185	305
Total Dissolved Solids		-	-	-	-		-	334	324	446
pH		-	-	-	-		-	7.3	7.3	7.2
Chloride	16887-00-6	140	140	160	160	130	130	33.6	34	38.5
Sulfate	14808-79-8	-	4..4	-	-		-	78.5	75.7	85.7
Nitrogen, Nitrate		-	-	-	-	0.052	0.056	1.9	0.87	0.56
Nitrogen, Nitrite		-	-	-	-		-	<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-		-	1.9	0.87	0.56
Total Organic Carbon	7440-44-0	13	13	11	12	8.1	8.4	3.3	4.4	4.1
Carbon Dioxide	124-38-9	370	320	230	250	190	210	150	181	307
Field		-	-	-	-	-	-			
Dissolved Iron		-	-	-	-	-	-	0	-	
Dissolved Manganese		-	-	-	-	-	-	1.1	-	
DO		-	-	-	-	-	-	750	1750	
pH		-	-	-	-	-	-	7.11	8.01	
ORP		-	-	-	-	-	-	-103.3	-100.2	
Temperature		-	-	-	-	-	-	17.61	16.31	

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-33A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		8/30/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit

MW-33A
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		8/30/2011	12/21/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	0.121	<0.010
Iron	7439-89-6	38	304
Manganese	7439-96-5	2.13	7.54
Alkalinity		619	900
Total Dissolved Solids		1120	796
pH		6.8	7.4
Chloride	16887-00-6	18	27.1
Sulfate	14808-79-8	379	15.2
Nitrogen, Nitrate		<0.10	<0.010
Nitrogen, Nitrite		<0.10	<0.010
Nitrogen, NO2+NO3		<0.10	<0.010
Total Organic Carbon	7440-44-0	7.6	6.8
Carbon Dioxide	124-38-9	666	864
Field		-	-
Dissolved Iron		0	0
Dissolved Manganese		1	1
DO		510	830
pH		7.01	6.95
ORP		-133.8	-
Temperature		-	17.08

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-33B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/17/2004	11/18/2004	1/10/2005	8/30/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	<10.0	<10.0
Benzene	71-43-2	-	-	-	<1.0	<1.0
Carbon disulfide	75-15-0	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	23000	25000	18000	<1.0	33
Chloroform	67-66-3	-	-	-	15.3	12.8
cis-1,2-Dichloroethene	156-59-2	-	-	-	<1.0	<1.0
Ethylbenzene	100-41-4	-	-	-	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	-	-	-	<1.0	<1.0
Toluene	108-88-3	-	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	<1.0	<1.0
Trichloroethene	79-01-6	-	-	-	<1.0	<1.0
Vinyl chloride	75-01-4	-	-	-	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-33B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		8/17/2004	11/18/2004	1/10/2005	8/30/2011	12/21/2011
Ethane	74-84-0	-	-	-	<0.010	<0.010
Ethene	74-85-1	-	-	-	<0.010	<0.010
Methane	74-82-8	0.15	0.067	0.12	<0.010	0.0113
Iron	7439-89-6	-	-	-	0.735	1.61
Manganese	7439-96-5	-	-	-	0.109	0.644
Alkalinity		640	620	610	154	245
Total Dissolved Solids		-	-	-	338	474
pH		-	-	-	7.3	7.6
Chloride	16887-00-6	90	130	120	33	54.8
Sulfate	14808-79-8	310	280	300	72.9	106
Nitrogen, Nitrate		-	-	-	1.9	0.25
Nitrogen, Nitrite		-	-	-	<0.10	0.17
Nitrogen, NO2+NO3		-	-	-	2	0.42
Total Organic Carbon	7440-44-0	5.1	4.3	4	2.9	2.5
Carbon Dioxide	124-38-9	180	150	120	148	228
Field		-	-	-	-	-
Dissolved Iron		-	-	-	0	0
Dissolved Manganese		-	-	-	1.1	1.4
DO		-	-	-	630	910
pH		-	-	-	7.01	6.88
ORP		-	-	-	-99.1	-100.2
Temperature		-	-	-	18.61	17.63

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

MW-34B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		8/18/2004	11/18/2004	1/11/2005	8/30/2011	12/28/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	<1.0	<10.0
1,2-Dichloroethane	107-06-2	-	-	-	<1.0	<10.0
Acetone	67-64-1	-	-	-	<10.0	<100
Benzene	71-43-2	-	4.6	-	<1.0	<10.0
Carbon disulfide	75-15-0	-	-	-	<5.0	<50
Chlorobenzene	108-90-7	-	9.2	4.3	<1.0	<10.0
Chloroform	67-66-3	-	-	-	15.3	<10.0
cis-1,2-Dichloroethene	156-59-2	0.4	0.42	0.56	<1.0	<10.0
Ethylbenzene	100-41-4	-	-	-	<1.0	<10.0
Iodomethane	74-88-4	-	-	-	<10.0	<100
Methylene chloride	75-09-2	-	-	-	<1.0	<10.0
Tetrachloroethene	127-18-4	-	-	-	<1.0	<10.0
Toluene	108-88-3	-	-	-	<1.0	<10.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	<1.0	<10.0
Trichloroethene	79-01-6	-	-	-	<1.0	<10.0
Vinyl chloride	75-01-4	-	-	-	<1.0	<10.0
Xylene (Total)	1330-20-7	-	-	-	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

MW-34B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		8/18/2004	11/18/2004	1/11/2005	8/30/2011	12/28/2011
Ethane	74-84-0	-	-	-	<0.010	<0.010
Ethene	74-85-1	-	-	-	<0.010	<0.010
Methane	74-82-8	0.025	0.015	0.064	<0.10	0.0965
Iron	7439-89-6	-	-	-	0.97	9.43
Manganese	7439-96-5	-	-	-	0.151	1.11
Alkalinity		650	630	620	95	465
Total Dissolved Solids		-	-	-	336	673
pH		-	-	-	7.4	7.1
Chloride	16887-00-6	150	170	230	33.3	50
Sulfate	14808-79-8	500	490	490	73.1	111
Nitrogen, Nitrate		-	-	-	2	0.12
Nitrogen, Nitrite		-	-	-	<0.1	<0.10
Nitrogen, NO2+NO3		-	-	-	2	0.12
Total Organic Carbon	7440-44-0	3.2	3.7	3.2	3.6	5.7
Carbon Dioxide	124-38-9	150	110	130	88.3	483
Field		-	-	-	-	-
Dissolved Iron		-	-	-	-	0
Dissolved Manganese		-	-	-	-	0.6
DO		-	-	-	630	1300
pH		-	-	-	6.95	7.13
ORP		-	-	-	-123.1	-100.1
Temperature		-	-	-	17.28	16.7

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

HW-1
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		8/31/2011	12/16/2011
1,1,1-Trichloroethane	71-55-6	<1.0	inaccessible
1,2-Dichloroethane	107-06-2	<1.0	inaccessible
Acetone	67-64-1	<10.0	inaccessible
Benzene	71-43-2	<1.0	inaccessible
Carbon disulfide	75-15-0	<5.0	inaccessible
Chlorobenzene	108-90-7	<1.0	inaccessible
Chloroform	67-66-3	<1.0	inaccessible
cis-1,2-Dichloroethene	156-59-2	<1.0	inaccessible
Ethylbenzene	100-41-4	<1.0	inaccessible
Iodomethane	74-88-4	<10.0	inaccessible
Methylene chloride	75-09-2	<1.0	inaccessible
Tetrachloroethene	127-18-4	<1.0	inaccessible
Toluene	108-88-3	<1.0	inaccessible
trans-1,2-Dichloroethene	156-60-5	<1.0	inaccessible
Trichloroethene	79-01-6	<1.0	inaccessible
Vinyl chloride	75-01-4	<1.0	inaccessible
Xylene (Total)	1330-20-7	<3.0	inaccessible

Results reported in ug/l
"<" indicates result below the reported detection limit

HW-1
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		8/31/2011	12/16/2011
Ethane	74-84-0	<0.010	inaccessible
Ethene	74-85-1	<0.010	inaccessible
Methane	74-82-8	<0.010	inaccessible
Iron	7439-89-6	<0.050	inaccessible
Manganese	7439-96-5	<0.005	inaccessible
Alkalinity		174	inaccessible
Total Dissolved Solids		289	inaccessible
pH		7.6	inaccessible
Chloride	16887-00-6	1.3	inaccessible
Sulfate	14808-79-8	19	inaccessible
Nitrogen, Nitrate		<0.10	inaccessible
Nitrogen, Nitrite		<0.10	inaccessible
Nitrogen, NO2+NO3		<0.10	inaccessible
Total Organic Carbon	7440-44-0	<1.0	inaccessible
Carbon Dioxide	124-38-9	249	inaccessible
Field		-	inaccessible
Dissolved Iron		0	inaccessible
Dissolved Manganese		0	inaccessible
DO		250	inaccessible
pH		7.1	inaccessible
ORP		-100.7	inaccessible
Temperature		23.59	inaccessible

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

HW-2
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
		8/31/2011	12/29/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0
Acetone	67-64-1	<10.0	<10.0
Benzene	71-43-2	<1.0	<1.0
Carbon disulfide	75-15-0	<5.0	<5.0
Chlorobenzene	108-90-7	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0
Iodomethane	74-88-4	<10.0	<10.0
Methylene chloride	75-09-2	<1.0	<1.0
Tetrachloroethene	127-18-4	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0
Trichloroethene	79-01-6	<1.0	<1.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylene (Total)	1330-20-7	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit

HW-2
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result
Lab		8/31/2011	12/29/2011
Ethane	74-84-0	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010
Methane	74-82-8	<0.010	<0.010
Iron	7439-89-6	<0.050	<0.050
Manganese	7439-96-5	<0.005	<0.005
Alkalinity		277	<20
Total Dissolved Solids		293	<5
pH		7.4	5.5
Chloride	16887-00-6	1.3	<1.0
Sulfate	14808-79-8	18.6	<1.0
Nitrogen, Nitrate		<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10
Total Organic Carbon	7440-44-0	<1.0	<0.50
Carbon Dioxide	124-38-9	252	43.2
Field		-	-
Dissolved Iron		0	0
Dissolved Manganese		0	0
DO		1000	480
pH		7.11	7.01
ORP		-101.3	-103.6
Temperature		7.11	21.82

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

VW-1

Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/27/2004	8/23/2004	11/19/2004	1/7/2005	1/7/2005	9/22/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	<20.0	<5.0
1,2-Dichloroethane	107-06-2	-	-	-	-	-	<20.0	<5.0
Acetone	67-64-1	-	-	-	-	-	<200	<50.0
Benzene	71-43-2	380	210	200	310	-	<20.0	9.7
Carbon disulfide	75-15-0	-	-	-	-	-	<100	<25.0
Chlorobenzene	108-90-7	2200	2100	1400	2100	1740	1740	434
Chloroform	67-66-3	-	-	-	-	-	<20.0	<5.0
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	<20.0	<5.0
Ethylbenzene	100-41-4	-	-	3.6	4.4	-	<20.0	<5.0
Iodomethane	74-88-4	-	-	-	14	-	<200	<50.0
Methylene chloride	75-09-2	-	-	-	-	-	<20.0	<5.0
Tetrachloroethene	127-18-4	-	-	-	-	-	<20.0	<5.0
Toluene	108-88-3	-	-	-	-	-	<20.0	<5.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	-	<20.0	<5.0
Trichloroethene	79-01-6	-	-	-	-	-	<20.0	<5.0
Vinyl chloride	75-01-4	-	-	-	-	-	<20.0	<5.0
Xylene (Total)	1330-20-7	-	-	-	-	-	<60.0	<15.0

Results reported in ug/l

"<" indicates result below the reported detection limit

"-" indicates no data

VW-1

Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/27/2004	8/23/2004	11/19/2004	1/7/2005	9/22/2011	12/20/2011
Ethane	74-84-0	0.016	0.0081	-	0.0094	0.0195	<0.010
Ethene	74-85-1	0.00062	-	0.0074	-	<0.010	<0.010
Methane	74-82-8	13	4.9	0.14	4.5	13.2	4.16
Iron	7439-89-6	-	-	-	-	-	24.3
Manganese	7439-96-5	-	-	-	-	-	1.56
Alkalinity		1100	1100	990	980	970	630
Total Dissolved Solids		-	-	-	-	1030	1390
pH		-	-	-	-	7	7
Chloride	16887-00-6	78	68	63	59	40.6	19.4
Sulfate	14808-79-8	-	-	-	36	1.2	490
Nitrogen, Nitrate		-	0.091	-	-	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	<0.10	<0.10
Total Organic Carbon	7440-44-0	14	14	14	12	13.1	30.7
Carbon Dioxide	124-38-9	140	140	83	60	1050	680
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	0	0
Dissolved Manganese		-	-	-	-	0	0
DO		-	-	-	-	470	0.94
pH		-	-	-	-	7.15	6.86
ORP		-	-	-	-	-178.1	5.7
Temperature		-	-	-	-	18.29	14.22

Samples are reported in parts mg/l

pH is reported in standard units

< indicates result below the reported detection limit

"-" indicates result below the reported detection limit

VW-2

Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/27/2004	8/20/2004	11/19/2004	1/11/2005	9/23/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<5.0
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<5.0
Acetone	67-64-1	-	-	-	-	12.7	<50.0
Benzene	71-43-2	25	6	27	-	2.6	32.5
Carbon disulfide	75-15-0	7.9	-	-	-	<5.0	<25.0
Chlorobenzene	108-90-7	1300	1400	930	410	711	606
Chloroform	67-66-3	-	-	-	-	<1.0	<5.0
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	<1.0	<5.0
Ethylbenzene	100-41-4	-	-	-	-	<1.0	<5.0
Iodomethane	74-88-4	-	-	-	-	<10.0	<50.0
Methylene chloride	75-09-2	-	-	-	-	<1.0	<5.0
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	<5.0
Toluene	108-88-3	-	-	-	-	<1.0	<5.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	<1.0	<5.0
Trichloroethene	79-01-6	-	-	-	-	<1.0	<5.0
Vinyl chloride	75-01-4	-	-	-	-	<1.0	<5.0
Xylene (Total)	1330-20-7	-	-	-	-	<3.0	<15.0

Results reported in ug/l

"<" indicates result below the reported detection limit

"-" indicates no data

VW-2

Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/27/2004	8/20/2004	1/19/2005	1/11/2005	9/23/2011	12/20/2011
Ethane	74-84-0	0.0029	-	-	-	0.0124	<0.010
Ethene	74-85-1	-	-	-	-	<0.010	<0.010
Methane	74-82-8	2.1	0.4	0.18	0.37	7.25	4.68
Iron	7439-89-6	-	-	-	-	-	5.22
Manganese	7439-96-5	-	-	-	-	-	0.766
Alkalinity		990	1000	740	570	900	905
Total Dissolved Solids		-	-	-	-	924	1490
pH		-	-	-	-	7	7.5
Chloride	16887-00-6	74	73	22	17	24.8	37.6
Sulfate	14808-79-8	27	-	-	110	1.7	111
Nitrogen, Nitrate		-	0.044	-	-	<0.10	<0.10
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	<0.10	<0.10
Total Organic Carbon	7440-44-0	10	13	6.6	5.7	14	27.1
Carbon Dioxide	124-38-9	180	130	100	71	972	854
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	0	0
Dissolved Manganese		-	-	-	-	0	0
DO		-	-	-	-	340	1.53
pH		-	-	-	-	7.21	7.63
ORP		-	-	-	-	-77.3	243.5
Temperature		-	-	-	-	19.27	13.94

Samples are reported in parts mg/l

pH is reported in standard units

< indicates result below the reported detection limit

"-" indicates result below the reported detection limit

VW-2B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
		4/26/2004	8/19/2004	11/19/2004	1/11/2005	9/22/2011	12/21/2011
1,1,1-Trichloroethane	71-55-6	-	-	-	-	<1.0	<1.0
1,2-Dichloroethane	107-06-2	-	-	-	-	<1.0	<1.0
Acetone	67-64-1	-	-	-	-	<10.0	<10.0
Benzene	71-43-2	3.3	3.4	3.1	3.7	<1.0	<1.0
Carbon disulfide	75-15-0	1.6	-	-	-	<5.0	<5.0
Chlorobenzene	108-90-7	20	38	9.8	11	<1.0	<1.0
Chloroform	67-66-3	-	-	-	-	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	13	7.7	4.6	2.8	<1.0	<1.0
Ethylbenzene	100-41-4	-	-	-	-	<1.0	<1.0
Iodomethane	74-88-4	-	-	-	-	<10.0	<10.0
Methylene chloride	75-09-2	-	-	-	-	<1.0	<1.0
Tetrachloroethene	127-18-4	-	-	-	-	<1.0	6.5
Toluene	108-88-3	-	-	-	-	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	-	-	-	-	<1.0	<1.0
Trichloroethene	79-01-6	-	-	-	-	<1.0	2.5
Vinyl chloride	75-01-4	180	230	200	140	<1.0	<1.0
Xylene (Total)	1330-20-7	-	-	-	-	<3.0	<3.0

Results reported in ug/l
"<" indicates result below the reported detection limit
"-" indicates no data

VW-2B
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		4/26/2004	8/19/2004	11/19/2004	1/11/2005	9/22/2011	12/21/2011
Ethane	74-84-0	0.00076	-	-	-	<0.010	<0.010
Ethene	74-85-1	0.01	0.0099	0.0035	0.002	<0.010	<0.010
Methane	74-82-8	0.16	0.11	0.069	0.12	<0.010	<0.010
Iron	7439-89-6	-	-	-	-	-	<0.050
Manganese	7439-96-5	-	-	-	-	-	<0.005
Alkalinity		550	540	560	540	372	190
Total Dissolved Solids		-	-	-	-	820	632
pH		-	-	-	-	7.6	8.2
Chloride	16887-00-6	68	70	87	74	59.9	60
Sulfate	14808-79-8	380	370	350	370	238	226
Nitrogen, Nitrate		-	0.033	-	0.031	1.9	1.8
Nitrogen, Nitrite		-	-	-	-	<0.10	<0.10
Nitrogen, NO2+NO3		-	-	-	-	1.9	1.8
Total Organic Carbon	7440-44-0	2.1	2.5	3.4	2.7	2.7	0.78
Carbon Dioxide	124-38-9	92	130	97	93	346	170
Field		-	-	-	-	-	-
Dissolved Iron		-	-	-	-	-	-
Dissolved Manganese		-	-	-	-	-	-
DO		-	-	-	-	240	8200
pH		-	-	-	-	7.01	7.83
ORP		-	-	-	-	142.3	172.3
Temperature		-	-	-	-	18.53	18.81

Samples are reported in parts mg/l
pH is reported in standard units

FBCSA-MW-5
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
		9/22/2011	9/22/2011	12/20/2011
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<5.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<5.0
Acetone	67-64-1	<10.0	10.9	<50.0
Benzene	71-43-2	<1.0	<1.0	<5.0
Carbon disulfide	75-15-0	<5.0	<5.0	<25.0
Chlorobenzene	108-90-7	183	182	279
Chloroform	67-66-3	<1.0	<1.0	<5.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0	<5.0
Ethylbenzene	100-41-4	<1.0	<1.0	<5.0
Iodomethane	74-88-4	<10.0	<10.0	<50.0
Methylene chloride	75-09-2	<1.0	<1.0	<5.0
Tetrachloroethene	127-18-4	<1.0	<1.0	<5.0
Toluene	108-88-3	<1.0	<1.0	<5.0
trans-1,2-Dichloroethene	156-60-5	<1.0	<1.0	<5.0
Trichloroethene	79-01-6	<1.0	<1.0	<5.0
Vinyl chloride	75-01-4	<1.0	<1.0	<5.0
Xylene (Total)	1330-20-7	<3.0	<3.0	<15.0

Results reported in ug/l
"<" indicates result below the reported detection limit

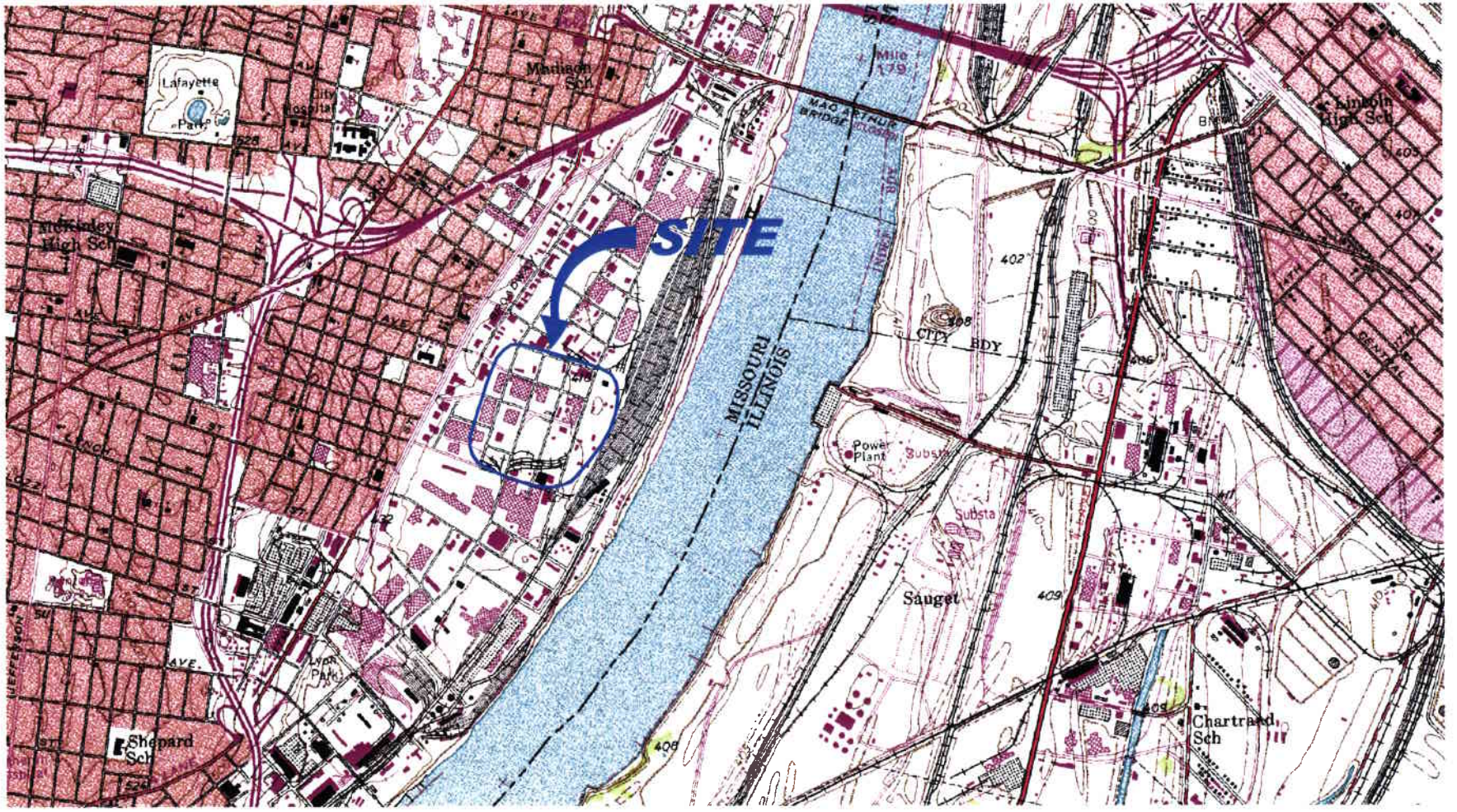
FBCSA-MW-5
Former Bulk Chemical Storage Area

Contituent	CAS	Sample Date & Result	Sample Date & Result	Sample Date & Result
Lab		9/22/2011	9/22/2011	12/20/2011
Ethane	74-84-0	<0.010	<0.010	<0.010
Ethene	74-85-1	<0.010	<0.010	<0.010
Methane	74-82-8	1.55	1.1	1.32
Iron	7439-89-6	-	-	6.92
Manganese	7439-96-5	-	-	6.87
Alkalinity		728	770	720
Total Dissolved Solids		961	983	311
pH		6.9	6.9	7.2
Chloride	16887-00-6	7.9	8.9	13.8
Sulfate	14808-79-8	190	175	111
Nitrogen, Nitrate		<0.10	<0.10	<0.10
Nitrogen, Nitrite		<0.10	<0.10	<0.10
Nitrogen, NO2+NO3		<0.10	<0.10	<0.10
Total Organic Carbon	7440-44-0	7.7	8.6	11
Carbon Dioxide	124-38-9	824	871	724
Field		-	-	-
Dissolved Iron		0	-	0
Dissolved Manganese		0	-	0
DO		570	-	1.66
pH		6.93	-	7.01
ORP		-91.7	-	81.1
Temperature		18.23	-	15.63

Samples are reported in parts mg/l
pH is reported in standard units
< indicates result below the reported detection limit
"-" indicates result below the reported detection limit

FIGURES

Environmental Operations, Inc.



LEGEND

GENERAL LOCATION OF J.F. QUEENY PLANT

BASE MAP REFERENCE: MAP TAKEN FROM ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE SERIES TOPOGRAPHIC MAP OF CAHOKIA, ILLINOIS, REVISED 1952.

0 2000
SCALE FEET

Site Location Map

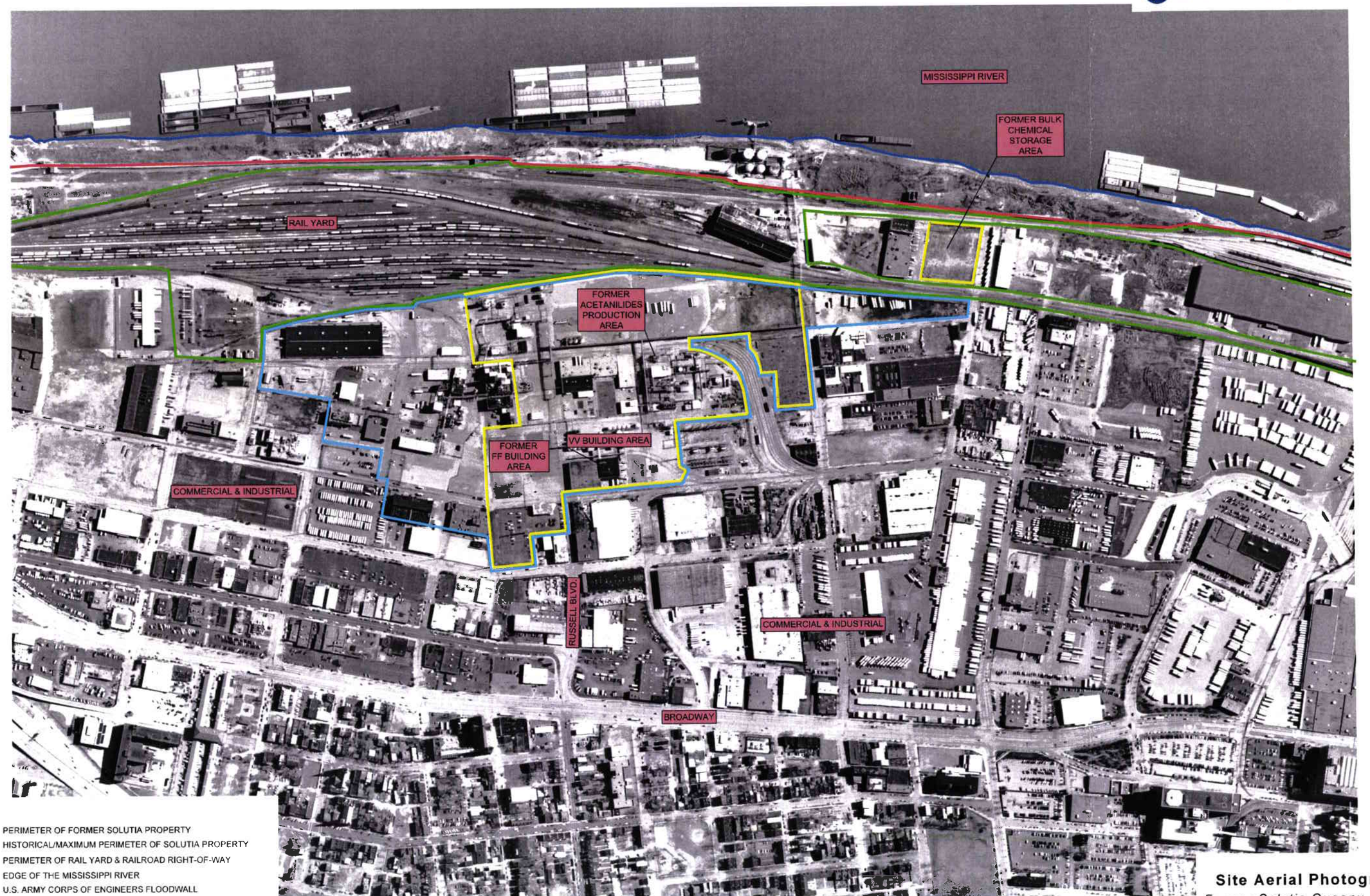
Former Solutia Queeny Plant

Saint Louis Missouri

Figure 1

marcus 7/31/2012 10:20:56 AM M:\3_Eng\2950 solutia\Fig 01 site location map.dgn

Environmental Operations, Inc.



LEGEND

- PERIMETER OF FORMER SOLUTIA PROPERTY
- HISTORICAL/MAXIMUM PERIMETER OF SOLUTIA PROPERTY
- PERIMETER OF RAIL YARD & RAILROAD RIGHT-OF-WAY
- EDGE OF THE MISSISSIPPI RIVER
- U.S. ARMY CORPS OF ENGINEERS FLOODWALL

APPROXIMATE SCALE 1IN. = 400FT

Site Aerial Photograph

Former Solutia Queeny Plant

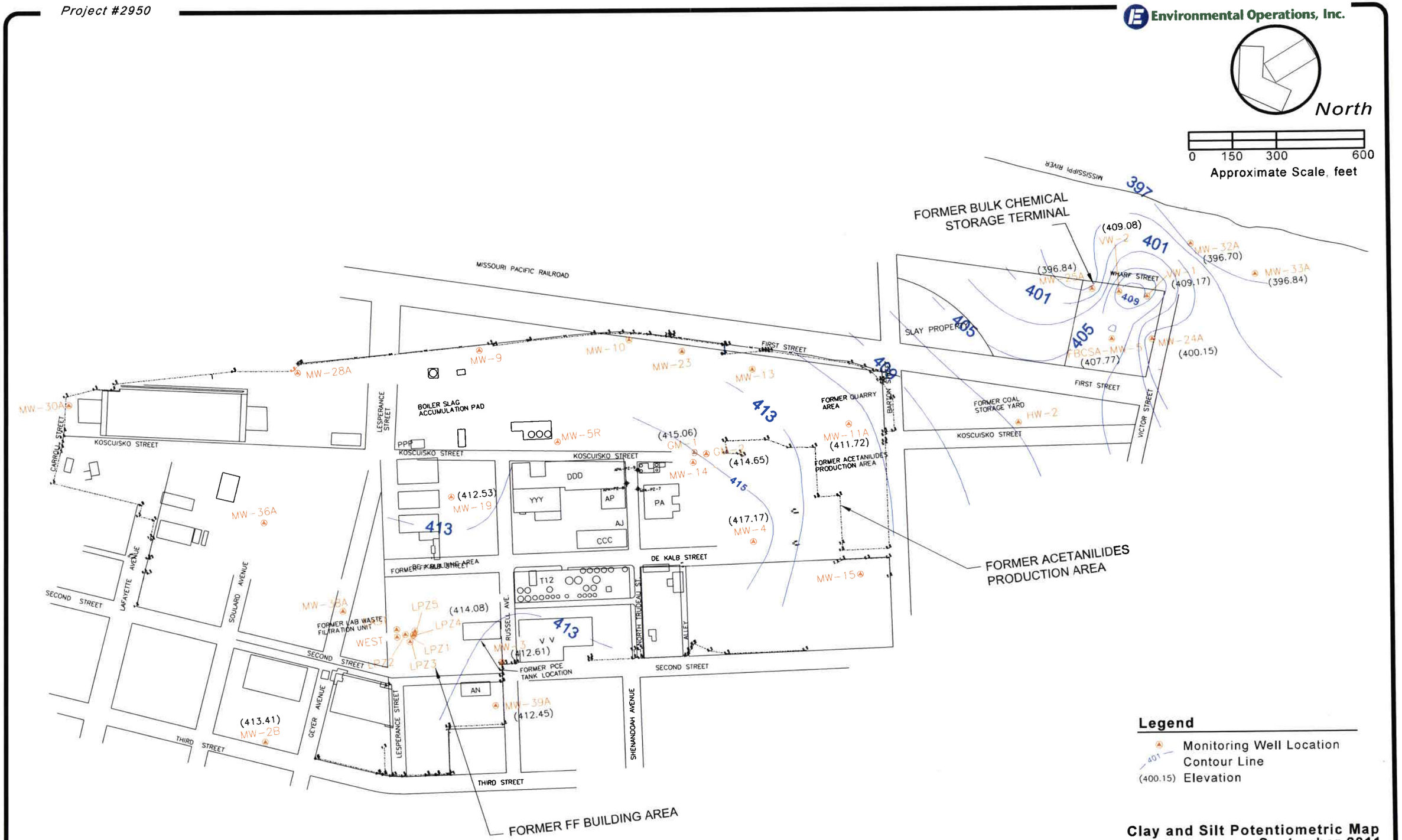
Saint Louis Missouri

Figure 2

M:\3_Eng\2950 solutia\Fig 02 Site Aerial Photograph.dgn 7/31/2012 10:22:49 AM marcus

Project #2950

Environmental Operations, Inc.



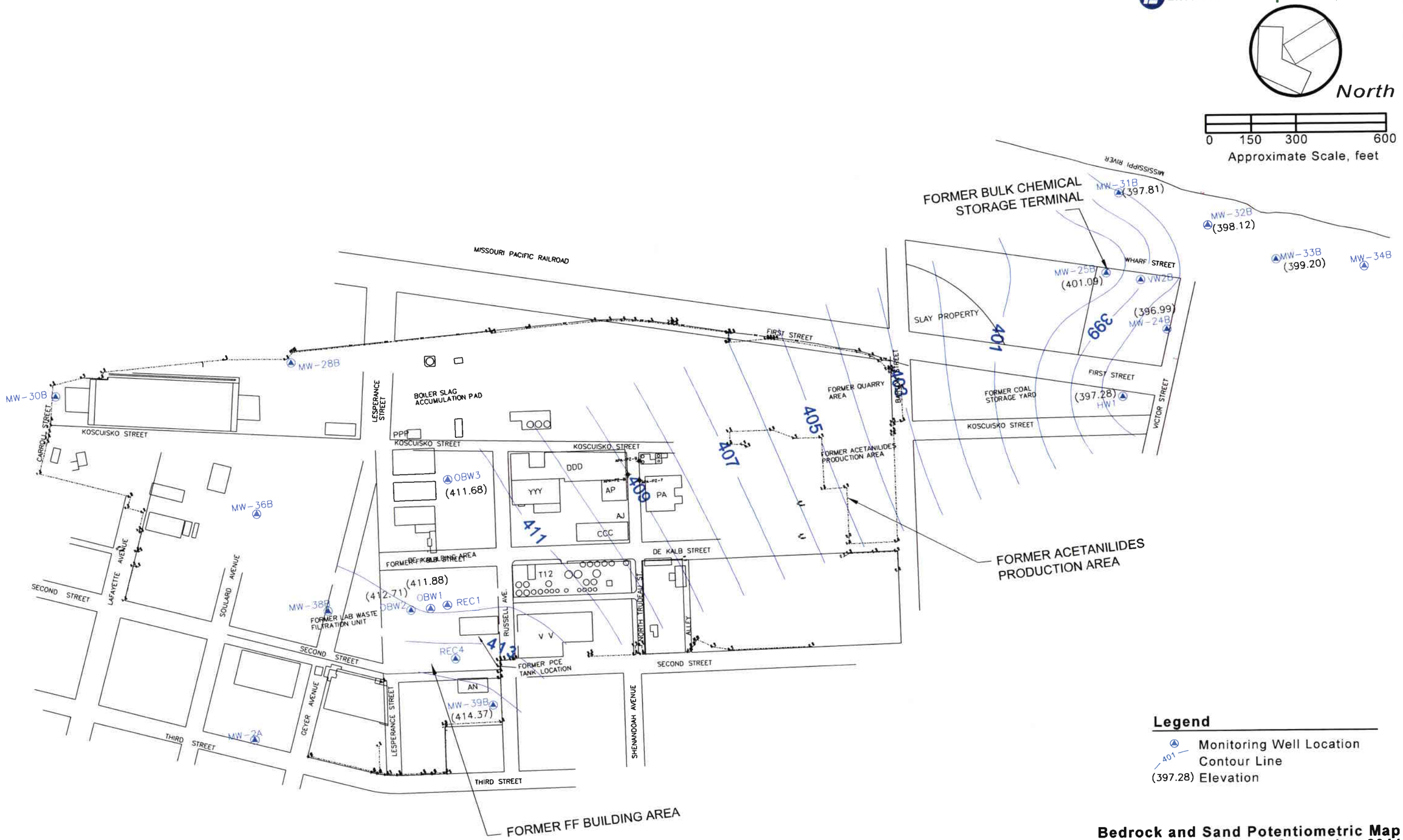
Clay and Silt Potentiometric Map
September 2011
Former Solutia Queeny Plant
Saint Louis, Missouri

Figure 3

M:\3_Eng\2950 solutia\BGM Plan\2950 Figure 03 Clay and Silt September 2011.dgn
marcus 7/31/2012 10:12:27 AM

Project #2950

Environmental Operations, Inc.

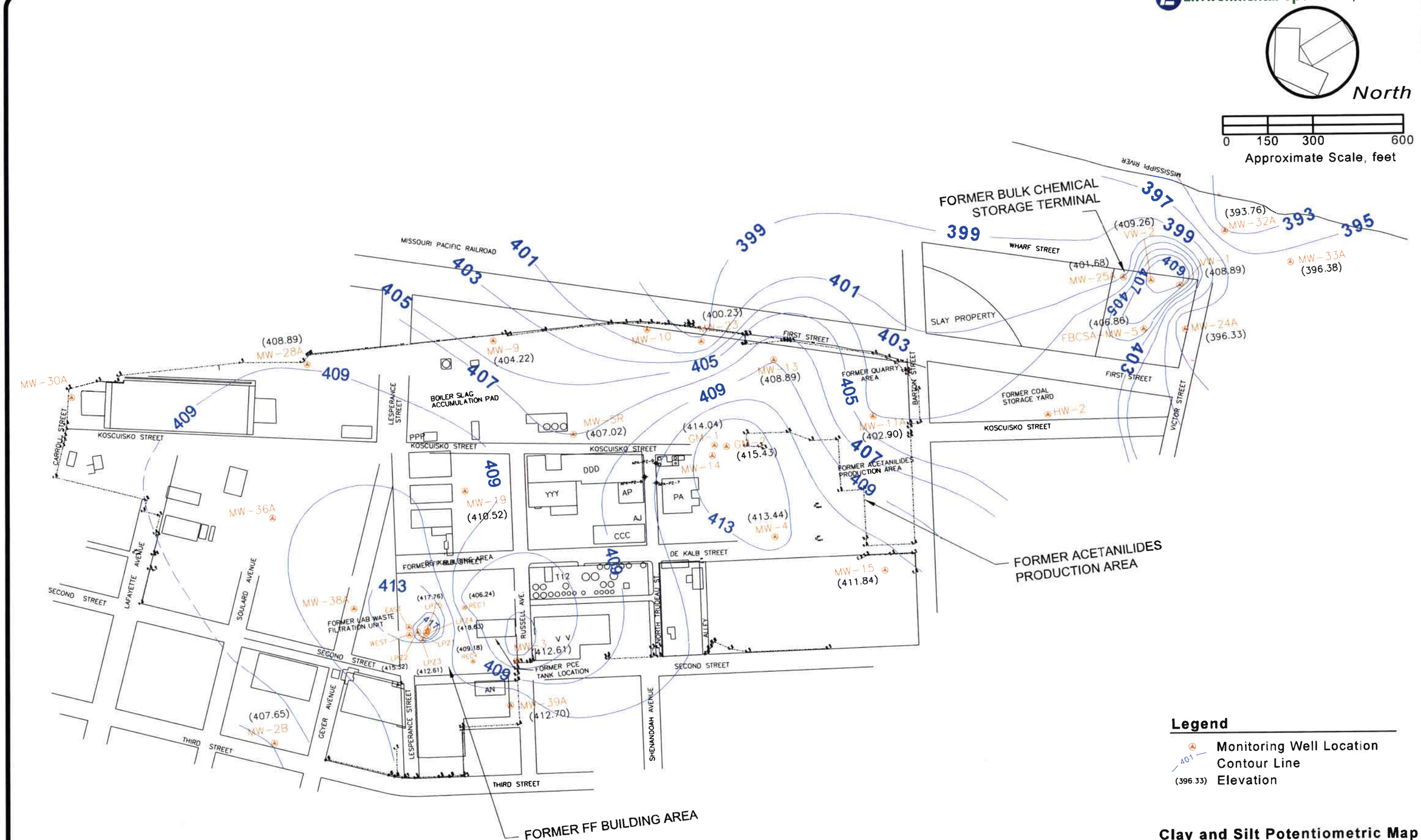


Bedrock and Sand Potentiometric Map
September 2011
Former Solutia Queeny Plant
Saint Louis, Missouri

Figure 4

marcus 7/31/2012 10:14:27 AM M:\3_Eng\2950 solutia\BGM Plan\2950 Figure 04 Bedrock and Sand September 2011.dgn

Environmental Operations, Inc.



Legend

- Monitoring Well Location
- 401 Contour Line
- (396.33) Elevation

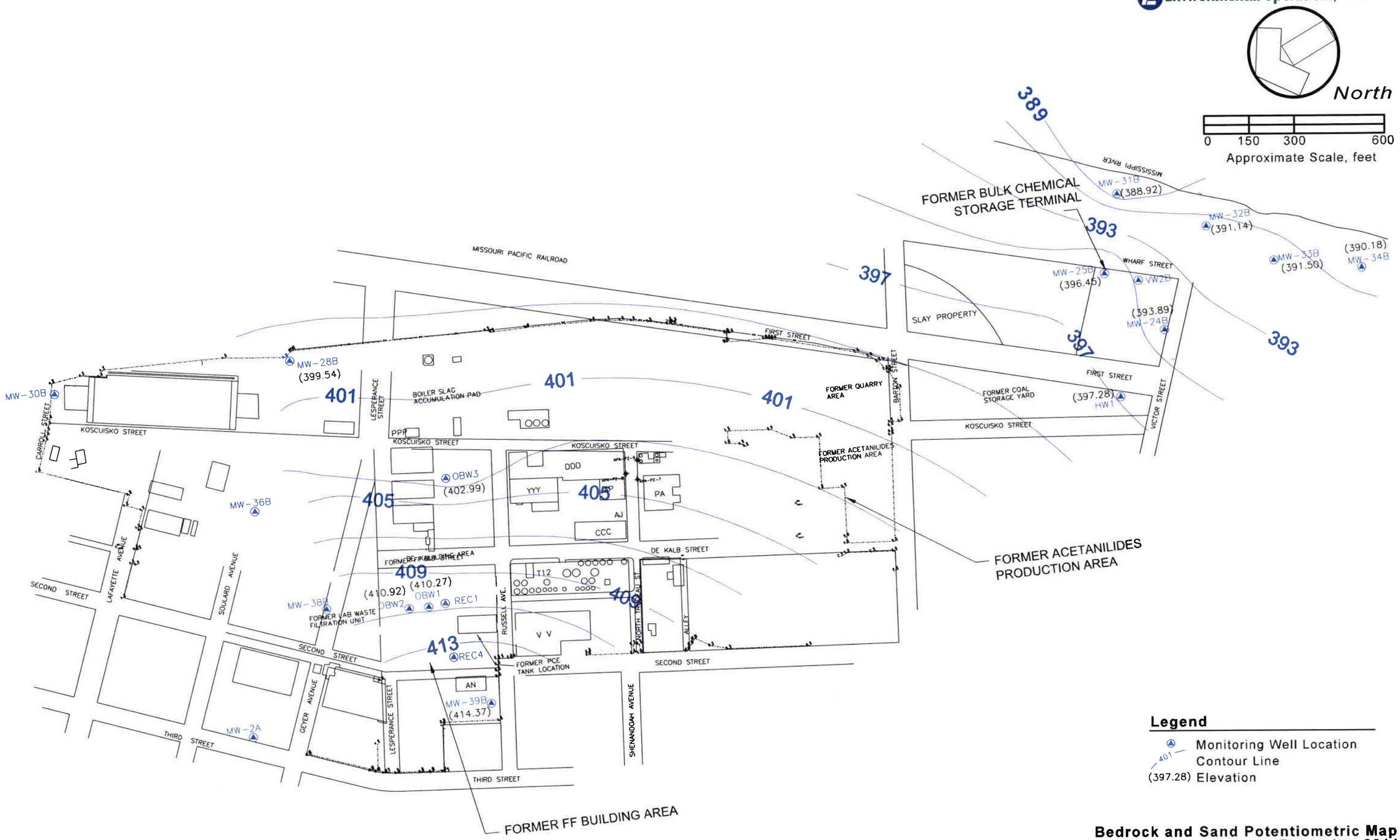
Clay and Silt Potentiometric Map
December 2011
Former Solutia Queeny Plant
Saint Louis, Missouri

Figure 5

M:\3_Eng\2950 solutia\BGM Plant\2950 Figure 05 Clay and Silt December 2011.dgn
marcus 7/31/2012 10:18:15 AM

Project #2950

Environmental Operations, Inc.



Legend

- Monitoring Well Location
- 401 Contour Line
- (397.28) Elevation

Bedrock and Sand Potentiometric Map
December 2011
Former Solutia Queeny Plant
Saint Louis, Missouri

Figure 6

M:\3_Eng\2950 solutia\BGM Plan\2950 Figure 06 Bedrock and Sand December 2011.dgn
marcus 7/31/2012 10:19:35 AM

APPENDIX A

First Quarter Laboratory Analytical Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

September 30, 2011

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449 REVISION, REV-1 9/30/11, Sample IDs revised to include sample collection date

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60105449001	MW-34B-083011	Water	08/30/11 13:17	09/02/11 08:15
60105449002	MW-33B-083011	Water	08/30/11 14:23	09/02/11 08:15
60105449003	MW-33A-083011	Water	08/30/11 16:47	09/02/11 08:15
60105449004	MW-32B-083011	Water	08/30/11 18:32	09/02/11 08:15
60105449005	MW-32A-083111	Water	08/31/11 05:17	09/02/11 08:15
60105449006	MW-31B-083111	Water	08/31/11 06:23	09/02/11 08:15
60105449007	HW-1-083111	Water	08/31/11 08:34	09/02/11 08:15
60105449008	HW-2-083111	Water	08/31/11 10:11	09/02/11 08:15
60105449009	OBW-3-083111	Water	08/31/11 14:30	09/02/11 08:15
60105449010	OBW-3-083111-AD	Water	08/31/11 12:00	09/02/11 08:15
60105449011	MW-15-090111	Water	09/01/11 07:30	09/02/11 08:15
60105449012	MW-4-090111	Water	09/01/11 09:00	09/02/11 08:15
60105449013	GM-1-090111	Water	09/01/11 10:23	09/02/11 08:15
60105449014	GM-2-090111	Water	09/01/11 12:32	09/02/11 08:15
60105449015	TRIP BLANK-090111	Water	09/01/11 00:00	09/02/11 08:15

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60105449001	MW-34B-083011	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	CMG	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449002	MW-33B-083011	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	CMG	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449003	MW-33A-083011	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	CMG	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449004	MW-32B-083011	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	CMG	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449005	**MW-32A-083111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449006	**MW-31B-083111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449007	**HW-1-083111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449008	**HW-2-083111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449009	**OBW-3-083111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449010	**OBW-3-083111-AD**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449011	**MW-15-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449012	**MW-4-090111**	RSK 175	SK4	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449013	**GM-1-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449014	**GM-2-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	CMG	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105449015	**TRIP BLANK-090111**	EPA 5030B/8260	HMW	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-34B-083011 **Lab ID: 60105449001** Collected: 08/30/11 13:17 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 00:10	74-84-0	C0,CL
Ethene	ND	ug/L	10.0	1		09/07/11 00:10	74-85-1	C0,CL
Methane	ND	ug/L	10.0	1		09/07/11 00:10	74-82-8	3e,C0, CL
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**970**	ug/L	50.0	1	09/07/11 15:30	09/09/11 11:46	7439-89-6	
Manganese	**151**	ug/L	5.0	1	09/07/11 15:30	09/09/11 11:46	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/09/11 16:23	67-64-1	
Benzene	ND	ug/L	1.0	1		09/09/11 16:23	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/09/11 16:23	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/09/11 16:23	108-90-7	
Chloroform	**15.3**	ug/L	1.0	1		09/09/11 16:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/09/11 16:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:23	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/09/11 16:23	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/09/11 16:23	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/09/11 16:23	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/09/11 16:23	127-18-4	
Toluene	ND	ug/L	1.0	1		09/09/11 16:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/09/11 16:23	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/09/11 16:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/09/11 16:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/09/11 16:23	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/09/11 16:23	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		09/09/11 16:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		09/09/11 16:23	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/09/11 16:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/09/11 16:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**95.0**	mg/L	20.0	1		09/13/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**336**	mg/L	5.0	1		09/08/11 16:40		H1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**33.3**	mg/L	5.0	5		09/25/11 19:19	16887-00-6	
Sulfate	**73.1**	mg/L	5.0	5		09/25/11 19:19	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-34B-083011 **Lab ID: 60105449001** Collected: 08/30/11 13:17 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.0**	mg/L	0.10	1		09/12/11 11:41		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:41		
Nitrogen, NO2 plus NO3	**2.0**	mg/L	0.10	1		09/12/11 11:41		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.6**	mg/L	1.0	1		09/14/11 03:57	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**88.3**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-33B-083011 **Lab ID: 60105449002** Collected: 08/30/11 14:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 00:21	74-84-0	C0,CL
Ethene	ND	ug/L	10.0	1		09/07/11 00:21	74-85-1	C0,CL
Methane	ND	ug/L	10.0	1		09/07/11 00:21	74-82-8	4e,C0, CL
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**735**	ug/L	50.0	1	09/07/11 15:30	09/09/11 11:50	7439-89-6	
Manganese	**109**	ug/L	5.0	1	09/07/11 15:30	09/09/11 11:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/09/11 16:40	67-64-1	
Benzene	ND	ug/L	1.0	1		09/09/11 16:40	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/09/11 16:40	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/09/11 16:40	108-90-7	
Chloroform	**15.3**	ug/L	1.0	1		09/09/11 16:40	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/09/11 16:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:40	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/09/11 16:40	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/09/11 16:40	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/09/11 16:40	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/09/11 16:40	127-18-4	
Toluene	ND	ug/L	1.0	1		09/09/11 16:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/09/11 16:40	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/09/11 16:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/09/11 16:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/09/11 16:40	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/09/11 16:40	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/09/11 16:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		09/09/11 16:40	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/09/11 16:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/09/11 16:40		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**154**	mg/L	20.0	1		09/13/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**338**	mg/L	5.0	1		09/08/11 16:41		H1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**33.0**	mg/L	5.0	5		09/25/11 19:37	16887-00-6	
Sulfate	**72.9**	mg/L	5.0	5		09/25/11 19:37	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-33B-083011 **Lab ID: 60105449002** Collected: 08/30/11 14:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.9**	mg/L	0.10	1		09/12/11 11:43		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:43		
Nitrogen, NO2 plus NO3	**2.0**	mg/L	0.10	1		09/12/11 11:43		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	1.0	1		09/13/11 18:17	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**148**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-33A-083011 **Lab ID: 60105449003** Collected: 08/30/11 16:47 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 00:32	74-84-0	C0,CL
Ethene	ND	ug/L	10.0	1		09/07/11 00:32	74-85-1	C0,CL
Methane	**121**	ug/L	10.0	1		09/07/11 00:32	74-82-8	5e,C0, CL
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**38000**	ug/L	50.0	1	09/07/11 15:30	09/09/11 11:53	7439-89-6	
Manganese	**2130**	ug/L	5.0	1	09/07/11 15:30	09/09/11 11:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/09/11 16:57	67-64-1	
Benzene	ND	ug/L	1.0	1		09/09/11 16:57	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/09/11 16:57	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/09/11 16:57	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/09/11 16:57	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/09/11 16:57	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 16:57	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/09/11 16:57	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/09/11 16:57	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/09/11 16:57	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/09/11 16:57	127-18-4	
Toluene	ND	ug/L	1.0	1		09/09/11 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/09/11 16:57	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/09/11 16:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/09/11 16:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/09/11 16:57	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/09/11 16:57	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/09/11 16:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		09/09/11 16:57	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/09/11 16:57	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/09/11 16:57		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**619**	mg/L	20.0	1		09/13/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1120**	mg/L	5.0	1		09/08/11 16:41		H1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**18.0**	mg/L	2.0	2		09/26/11 02:19	16887-00-6	
Sulfate	**379**	mg/L	20.0	20		09/27/11 14:05	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-33A-083011 **Lab ID: 60105449003** Collected: 08/30/11 16:47 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:46		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:46		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**7.6**	mg/L	1.0	1		09/13/11 18:31	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**666**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-32B-083011 **Lab ID: 60105449004** Collected: 08/30/11 18:32 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 01:04	74-84-0	C0,CL
Ethene	ND	ug/L	10.0	1		09/07/11 01:04	74-85-1	C0,CL
Methane	ND	ug/L	10.0	1		09/07/11 01:04	74-82-8	1e
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1640**	ug/L	50.0	1	09/07/11 15:30	09/09/11 11:56	7439-89-6	
Manganese	**262**	ug/L	5.0	1	09/07/11 15:30	09/09/11 11:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/09/11 17:13	67-64-1	
Benzene	ND	ug/L	1.0	1		09/09/11 17:13	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/09/11 17:13	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/09/11 17:13	108-90-7	
Chloroform	**14.5**	ug/L	1.0	1		09/09/11 17:13	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/09/11 17:13	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/09/11 17:13	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/09/11 17:13	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/09/11 17:13	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/09/11 17:13	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/09/11 17:13	127-18-4	
Toluene	ND	ug/L	1.0	1		09/09/11 17:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/09/11 17:13	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/09/11 17:13	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/09/11 17:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/09/11 17:13	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/09/11 17:13	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/09/11 17:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		09/09/11 17:13	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/09/11 17:13	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/09/11 17:13		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**158**	mg/L	20.0	1		09/13/11 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**334**	mg/L	5.0	1		09/08/11 16:41		H1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**33.6**	mg/L	10.0	10		09/25/11 20:13	16887-00-6	
Sulfate	**78.5**	mg/L	10.0	10		09/25/11 20:13	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-32B-083011 **Lab ID: 60105449004** Collected: 08/30/11 18:32 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.9**	mg/L	0.10	1		09/12/11 11:47		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:47		
Nitrogen, NO2 plus NO3	**1.9**	mg/L	0.10	1		09/12/11 11:47		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.3**	mg/L	1.0	1		09/13/11 19:13	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**150**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-32A-083111 **Lab ID: 60105449005** Collected: 08/31/11 05:17 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 15:51	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 15:51	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 15:51	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**533**	ug/L	50.0	1	09/07/11 15:30	09/09/11 11:59	7439-89-6	
Manganese	**54.1**	ug/L	5.0	1	09/07/11 15:30	09/09/11 11:59	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/13/11 19:22	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/11 19:22	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/13/11 19:22	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/13/11 19:22	108-90-7	
Chloroform	**17.0**	ug/L	1.0	1		09/13/11 19:22	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/11 19:22	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:22	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/13/11 19:22	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/13/11 19:22	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/13/11 19:22	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/11 19:22	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/11 19:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/11 19:22	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/13/11 19:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/13/11 19:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/11 19:22	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-113	1		09/13/11 19:22	460-00-4	
Dibromofluoromethane (S)	106	%	86-112	1		09/13/11 19:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		09/13/11 19:22	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1		09/13/11 19:22	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/13/11 19:22		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**160**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**341**	mg/L	5.0	1		09/07/11 15:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**34.4**	mg/L	5.0	5		09/25/11 21:08	16887-00-6	
Sulfate	**75.6**	mg/L	5.0	5		09/25/11 21:08	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-32A-083111 **Lab ID: 60105449005** Collected: 08/31/11 05:17 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.0**	mg/L	0.10	1		09/12/11 11:48		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:48		
Nitrogen, NO2 plus NO3	**2.0**	mg/L	0.10	1		09/12/11 11:48		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.8**	mg/L	1.0	1		09/13/11 19:27	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**144**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-31B-083111 **Lab ID: 60105449006** Collected: 08/31/11 06:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 16:01	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 16:01	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 16:01	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**440**	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:02	7439-89-6	
Manganese	**54.6**	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:02	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/13/11 19:38	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/11 19:38	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/13/11 19:38	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/13/11 19:38	108-90-7	
Chloroform	**15.8**	ug/L	1.0	1		09/13/11 19:38	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/11 19:38	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:38	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/13/11 19:38	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/13/11 19:38	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/13/11 19:38	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/11 19:38	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/11 19:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/11 19:38	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/13/11 19:38	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/13/11 19:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/11 19:38	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1		09/13/11 19:38	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		09/13/11 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/13/11 19:38	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/13/11 19:38	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/13/11 19:38		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**158**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**344**	mg/L	5.0	1		09/07/11 15:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**34.5**	mg/L	5.0	5		09/25/11 21:27	16887-00-6	
Sulfate	**75.8**	mg/L	5.0	5		09/25/11 21:27	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-31B-083111 **Lab ID: 60105449006** Collected: 08/31/11 06:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.9**	mg/L	0.10	1		09/12/11 11:49		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:49		
Nitrogen, NO2 plus NO3	**1.9**	mg/L	0.10	1		09/12/11 11:49		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	1.0	1		09/13/11 19:42	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**147**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: HW-1-083111 **Lab ID: 60105449007** Collected: 08/31/11 08:34 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 16:12	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 16:12	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 16:12	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:06	7439-89-6	
Manganese	ND	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:06	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/13/11 19:54	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/11 19:54	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/13/11 19:54	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/13/11 19:54	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/13/11 19:54	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/11 19:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 19:54	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/13/11 19:54	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/13/11 19:54	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/13/11 19:54	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/11 19:54	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/11 19:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/11 19:54	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/13/11 19:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/13/11 19:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/11 19:54	1330-20-7	
4-Bromofluorobenzene (S)	104	%	87-113	1		09/13/11 19:54	460-00-4	
Dibromofluoromethane (S)	96	%	86-112	1		09/13/11 19:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		09/13/11 19:54	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/13/11 19:54	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/13/11 19:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**174**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**289**	mg/L	5.0	1		09/07/11 15:26		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/26/11 04:08	16887-00-6	
Sulfate	**19.0**	mg/L	1.0	1		09/26/11 04:08	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: HW-1-083111 **Lab ID: 60105449007** Collected: 08/31/11 08:34 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:50		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:50		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:50		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/13/11 19:56	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**249**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: HW-2-083111 **Lab ID: 60105449008** Collected: 08/31/11 10:11 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 16:22	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 16:22	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 16:22	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:09	7439-89-6	
Manganese	ND	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:09	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/14/11 22:55	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/11 22:55	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/14/11 22:55	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/14/11 22:55	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/14/11 22:55	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/11 22:55	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/11 22:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/11 22:55	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/14/11 22:55	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/14/11 22:55	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/14/11 22:55	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/14/11 22:55	127-18-4	
Toluene	ND	ug/L	1.0	1		09/14/11 22:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/14/11 22:55	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/14/11 22:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/14/11 22:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/14/11 22:55	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/14/11 22:55	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		09/14/11 22:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/14/11 22:55	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/14/11 22:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/14/11 22:55		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**277**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**293**	mg/L	5.0	1		09/07/11 15:26		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/26/11 04:27	16887-00-6	
Sulfate	**18.6**	mg/L	1.0	1		09/26/11 04:27	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: HW-2-083111 **Lab ID: 60105449008** Collected: 08/31/11 10:11 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:51		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:51		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/13/11 20:10	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**252**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: OBW-3-083111 **Lab ID: 60105449009** Collected: 08/31/11 14:30 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 16:33	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 16:33	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 16:33	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:12	7439-89-6	
Manganese	ND	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:12	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/13/11 20:27	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/11 20:27	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/13/11 20:27	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/13/11 20:27	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/13/11 20:27	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/11 20:27	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 20:27	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/13/11 20:27	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/13/11 20:27	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/13/11 20:27	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/11 20:27	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/11 20:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/11 20:27	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/13/11 20:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/13/11 20:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/11 20:27	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	1		09/13/11 20:27	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/13/11 20:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		09/13/11 20:27	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/13/11 20:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/13/11 20:27		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**274**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**287**	mg/L	5.0	1		09/07/11 15:26		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		09/26/11 05:21	16887-00-6	
Sulfate	**18.8**	mg/L	1.0	1		09/26/11 05:21	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: OBW-3-083111 **Lab ID: 60105449009** Collected: 08/31/11 14:30 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:52		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:52		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/13/11 20:24	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**245**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: OBW-3-083111-AD **Lab ID: 60105449010** Collected: 08/31/11 12:00 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/07/11 16:44	74-84-0	
Ethene	ND	ug/L	10.0	1		09/07/11 16:44	74-85-1	
Methane	ND	ug/L	10.0	1		09/07/11 16:44	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:15	7439-89-6	
Manganese	ND	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:15	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/13/11 20:43	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/11 20:43	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/13/11 20:43	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/13/11 20:43	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/13/11 20:43	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/11 20:43	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/11 20:43	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/13/11 20:43	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/13/11 20:43	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/13/11 20:43	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/11 20:43	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/11 20:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/11 20:43	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/13/11 20:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/13/11 20:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/11 20:43	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1		09/13/11 20:43	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/13/11 20:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/13/11 20:43	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/13/11 20:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/13/11 20:43		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**277**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**292**	mg/L	5.0	1		09/07/11 15:27		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		09/03/11 09:13		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		09/26/11 05:40	16887-00-6	
Sulfate	**19.0**	mg/L	1.0	1		09/26/11 05:40	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: OBW-3-083111-AD **Lab ID: 60105449010** Collected: 08/31/11 12:00 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:53		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:53		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		09/13/11 20:38	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**250**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-15-090111 **Lab ID: 60105449011** Collected: 09/01/11 07:30 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 08:59	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 08:59	74-85-1	
Methane	**40.5**	ug/L	10.0	1		09/08/11 08:59	74-82-8	C0,CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**10500**	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:25	7439-89-6	
Manganese	**6030**	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:25	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		09/15/11 21:14	67-64-1	
Benzene	ND	ug/L	50.0	50		09/15/11 21:14	71-43-2	
Carbon disulfide	ND	ug/L	250	50		09/15/11 21:14	75-15-0	
Chlorobenzene	**2840**	ug/L	50.0	50		09/15/11 21:14	108-90-7	
Chloroform	ND	ug/L	50.0	50		09/15/11 21:14	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		09/15/11 21:14	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		09/15/11 21:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		09/15/11 21:14	156-60-5	
Ethylbenzene	ND	ug/L	50.0	50		09/15/11 21:14	100-41-4	
Iodomethane	ND	ug/L	500	50		09/15/11 21:14	74-88-4	
Methylene chloride	ND	ug/L	50.0	50		09/15/11 21:14	75-09-2	
Tetrachloroethene	ND	ug/L	50.0	50		09/15/11 21:14	127-18-4	
Toluene	ND	ug/L	50.0	50		09/15/11 21:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		09/15/11 21:14	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		09/15/11 21:14	79-01-6	
Vinyl chloride	ND	ug/L	50.0	50		09/15/11 21:14	75-01-4	
Xylene (Total)	ND	ug/L	150	50		09/15/11 21:14	1330-20-7	
4-Bromofluorobenzene (S)	109	%	87-113	50		09/15/11 21:14	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	50		09/15/11 21:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	82-119	50		09/15/11 21:14	17060-07-0	
Toluene-d8 (S)	99	%	90-110	50		09/15/11 21:14	2037-26-5	
Preservation pH	**1.0**		0.10	50		09/15/11 21:14		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**260**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**352**	mg/L	5.0	1		09/08/11 16:41		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/03/11 09:46		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**14.5**	mg/L	2.0	2		09/26/11 05:58	16887-00-6	
Sulfate	**40.3**	mg/L	10.0	10		09/25/11 23:34	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-15-090111 **Lab ID: 60105449011** Collected: 09/01/11 07:30 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:54		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:54		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**7.2**	mg/L	2.0	1		09/13/11 20:52	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**252**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-4-090111 **Lab ID: 60105449012** Collected: 09/01/11 09:00 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 09:31	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 09:31	74-85-1	
Methane	**19.5**	ug/L	10.0	1		09/08/11 09:31	74-82-8	C0,CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**17000**	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:28	7439-89-6	
Manganese	**4140**	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:28	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	250	25		09/15/11 21:31	67-64-1	
Benzene	ND	ug/L	25.0	25		09/15/11 21:31	71-43-2	
Carbon disulfide	ND	ug/L	125	25		09/15/11 21:31	75-15-0	
Chlorobenzene	**1740**	ug/L	25.0	25		09/15/11 21:31	108-90-7	
Chloroform	ND	ug/L	25.0	25		09/15/11 21:31	67-66-3	
1,2-Dichloroethane	ND	ug/L	25.0	25		09/15/11 21:31	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	25.0	25		09/15/11 21:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	25		09/15/11 21:31	156-60-5	
Ethylbenzene	ND	ug/L	25.0	25		09/15/11 21:31	100-41-4	
Iodomethane	ND	ug/L	250	25		09/15/11 21:31	74-88-4	
Methylene chloride	ND	ug/L	25.0	25		09/15/11 21:31	75-09-2	
Tetrachloroethene	ND	ug/L	25.0	25		09/15/11 21:31	127-18-4	
Toluene	ND	ug/L	25.0	25		09/15/11 21:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		09/15/11 21:31	71-55-6	
Trichloroethene	ND	ug/L	25.0	25		09/15/11 21:31	79-01-6	
Vinyl chloride	ND	ug/L	25.0	25		09/15/11 21:31	75-01-4	
Xylene (Total)	ND	ug/L	75.0	25		09/15/11 21:31	1330-20-7	
4-Bromofluorobenzene (S)	105	%	87-113	25		09/15/11 21:31	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	25		09/15/11 21:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	25		09/15/11 21:31	17060-07-0	
Toluene-d8 (S)	102	%	90-110	25		09/15/11 21:31	2037-26-5	
Preservation pH	**1.0**		0.10	25		09/15/11 21:31		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**260**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**338**	mg/L	5.0	1		09/08/11 16:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/03/11 09:46		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**11.6**	mg/L	2.0	2		09/26/11 06:16	16887-00-6	
Sulfate	**39.1**	mg/L	10.0	10		09/25/11 23:53	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: MW-4-090111 **Lab ID: 60105449012** Collected: 09/01/11 09:00 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:57		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:57		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:57		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**9.4**	mg/L	2.0	1		09/13/11 21:06	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**243**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: GM-1-090111 **Lab ID: 60105449013** Collected: 09/01/11 10:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 09:41	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 09:41	74-85-1	
Methane	**379**	ug/L	10.0	1		09/08/11 09:41	74-82-8	CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**32700**	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:32	7439-89-6	
Manganese	**23800**	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:32	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		09/15/11 19:21	67-64-1	
Benzene	ND	ug/L	1000	1000		09/15/11 19:21	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		09/15/11 19:21	75-15-0	
Chlorobenzene	**118000**	ug/L	1000	1000		09/15/11 19:21	108-90-7	E
Chloroform	ND	ug/L	1000	1000		09/15/11 19:21	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		09/15/11 19:21	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 19:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 19:21	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		09/15/11 19:21	100-41-4	
Iodomethane	ND	ug/L	10000	1000		09/15/11 19:21	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		09/15/11 19:21	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		09/15/11 19:21	127-18-4	
Toluene	ND	ug/L	1000	1000		09/15/11 19:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		09/15/11 19:21	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		09/15/11 19:21	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		09/15/11 19:21	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		09/15/11 19:21	1330-20-7	
4-Bromofluorobenzene (S)	106	%	87-113	1000		09/15/11 19:21	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1000		09/15/11 19:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	82-119	1000		09/15/11 19:21	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1000		09/15/11 19:21	2037-26-5	
Preservation pH	**1.0**		0.10	1000		09/15/11 19:21		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**276**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**446**	mg/L	5.0	1		09/08/11 16:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		09/03/11 09:46		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**91.3**	mg/L	10.0	10		09/26/11 00:11	16887-00-6	
Sulfate	**16.0**	mg/L	2.0	2		09/26/11 06:34	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: GM-1-090111 **Lab ID: 60105449013** Collected: 09/01/11 10:23 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:58		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:58		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:58		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**156**	mg/L	5.0	1		09/14/11 10:11	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**318**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: GM-2-090111 **Lab ID: 60105449014** Collected: 09/01/11 12:32 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 09:52	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 09:52	74-85-1	
Methane	**2770**	ug/L	10.0	1		09/08/11 09:52	74-82-8	C0,CH
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**13900**	ug/L	50.0	1	09/07/11 15:30	09/09/11 12:35	7439-89-6	
Manganese	**7380**	ug/L	5.0	1	09/07/11 15:30	09/09/11 12:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		09/15/11 19:37	67-64-1	
Benzene	ND	ug/L	1000	1000		09/15/11 19:37	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		09/15/11 19:37	75-15-0	
Chlorobenzene	**44600**	ug/L	1000	1000		09/15/11 19:37	108-90-7	
Chloroform	ND	ug/L	1000	1000		09/15/11 19:37	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		09/15/11 19:37	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 19:37	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		09/15/11 19:37	100-41-4	
Iodomethane	ND	ug/L	10000	1000		09/15/11 19:37	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		09/15/11 19:37	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		09/15/11 19:37	127-18-4	
Toluene	ND	ug/L	1000	1000		09/15/11 19:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		09/15/11 19:37	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		09/15/11 19:37	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		09/15/11 19:37	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		09/15/11 19:37	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	1000		09/15/11 19:37	460-00-4	
Dibromofluoromethane (S)	108	%	86-112	1000		09/15/11 19:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1000		09/15/11 19:37	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1000		09/15/11 19:37	2037-26-5	
Preservation pH	**1.0**		0.10	1000		09/15/11 19:37		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**530**	mg/L	20.0	1		09/14/11 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1210**	mg/L	5.0	1		09/08/11 16:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		09/03/11 09:46		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**250**	mg/L	50.0	50		09/27/11 14:41	16887-00-6	
Sulfate	ND	mg/L	5.0	5		09/26/11 06:53	14808-79-8	D4

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: GM-2-090111 **Lab ID: 60105449014** Collected: 09/01/11 12:32 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:59		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:59		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:59		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**190**	mg/L	5.0	1		09/14/11 10:39	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**600**	mg/L	20.0	1		09/13/11 16:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Sample: TRIP BLANK-090111 **Lab ID: 60105449015** Collected: 09/01/11 00:00 Received: 09/02/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/15/11 20:58	67-64-1	
Benzene	ND	ug/L	1.0	1		09/15/11 20:58	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/15/11 20:58	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/15/11 20:58	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/15/11 20:58	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/15/11 20:58	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/15/11 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/15/11 20:58	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/15/11 20:58	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/15/11 20:58	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/15/11 20:58	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/15/11 20:58	127-18-4	
Toluene	ND	ug/L	1.0	1		09/15/11 20:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/15/11 20:58	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/15/11 20:58	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/15/11 20:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/15/11 20:58	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	1		09/15/11 20:58	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	1		09/15/11 20:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		09/15/11 20:58	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/15/11 20:58	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/15/11 20:58		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: AIR/13079 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105449001, 60105449002, 60105449003

METHOD BLANK: 1048925 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/06/11 20:59	CL
Ethene	ug/L	ND	10.0	09/06/11 20:59	CL
Methane	ug/L	ND	10.0	09/06/11 20:59	CL

LABORATORY CONTROL SAMPLE & LCSD: 1048926 1048927

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	116	116	102	102	70-130	0	30	
Ethene	ug/L	106	108	108	102	102	70-130	0	30	
Methane	ug/L	60.7	61.2	61.0	101	101	70-130	.3	30	

PLE DUPLICATE: 1050994

Parameter	Units	10168342004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	C0,CL
Ethene	ug/L	<1.8	ND		30	C0,CL
Methane	ug/L	7480	6640	12	30	C0,CL,E

SAMPLE DUPLICATE: 1050995

Parameter	Units	10168342012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	CL
Ethene	ug/L	<1.8	ND		30	CL
Methane	ug/L	834	1430	52	30	CL,R1

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: AIR/13082 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105449004

METHOD BLANK: 1048933 | Matrix: Water
Associated Lab Samples: 60105449004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/07/11 00:53	CL
Ethene	ug/L	ND	10.0	09/07/11 00:53	CL
Methane	ug/L	ND	10.0	09/07/11 00:53	

LABORATORY CONTROL SAMPLE & LCSD: 1048934 1048935

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	116	114	102	100	70-130	3	30	
Ethene	ug/L	106	108	106	102	99	70-130	3	30	
Methane	ug/L	60.7	61.0	58.7	101	97	70-130	4	30	

SAMPLE DUPLICATE: 1051000

Parameter	Units	60105449004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	C0,CL
Ethene	ug/L	ND	ND		30	C0,CL
Methane	ug/L	ND	ND		30	1e

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: AIR/13086 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010

METHOD BLANK: 1049236 Matrix: Water
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/07/11 15:08	
Ethene	ug/L	ND	10.0	09/07/11 15:08	
Methane	ug/L	ND	10.0	09/07/11 15:08	

LABORATORY CONTROL SAMPLE & LCSD: 1049237 1049238

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	118	113	104	99	70-130	5	30	
Ethene	ug/L	106	110	106	104	100	70-130	4	30	
Methane	ug/L	60.7	61.9	61.4	102	101	70-130	.8	30	

PLE DUPLICATE: 1051226

Parameter	Units	60105358004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	ND	ND		30	

SAMPLE DUPLICATE: 1051227

Parameter	Units	10168522002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	
Ethene	ug/L	<1.8	ND		30	
Methane	ug/L	10000	9580	5	30	E

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: AIR/13099 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 1050146 Matrix: Water
Associated Lab Samples: 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/08/11 08:47	
Ethene	ug/L	ND	10.0	09/08/11 08:47	
Methane	ug/L	ND	10.0	09/08/11 08:47	

LABORATORY CONTROL SAMPLE & LCSD: 1050147 1050148

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	114	136	100	120	70-130	18	30	CH
Ethene	ug/L	106	105	127	99	119	70-130	18	30	CH
Methane	ug/L	60.7	60.7	72.5	100	120	70-130	18	30	CH

SAMPLE DUPLICATE: 1052280

Parameter	Units	60105449011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	40.5	38.8	4	30	C0,CH

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: MPRP/15232 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 871549 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	09/09/11 10:50	
Manganese	ug/L	ND	5.0	09/09/11 10:50	

LABORATORY CONTROL SAMPLE: 871550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10200	102	80-120	
Manganese	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871551 871552

Parameter	Units	60105358004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	116000	10000	10000	124000	127000	77	110	75-125	3	20	
Manganese	ug/L	16600	1000	1000	17100	17200	46	57	75-125	1	20	2e,M0

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: MSV/39918 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004

METHOD BLANK: 872863 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/09/11 12:45	
1,2-Dichloroethane	ug/L	ND	1.0	09/09/11 12:45	
Acetone	ug/L	ND	10.0	09/09/11 12:45	
Benzene	ug/L	ND	1.0	09/09/11 12:45	
Carbon disulfide	ug/L	ND	5.0	09/09/11 12:45	
Chlorobenzene	ug/L	ND	1.0	09/09/11 12:45	
Chloroform	ug/L	ND	1.0	09/09/11 12:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/09/11 12:45	
Ethylbenzene	ug/L	ND	1.0	09/09/11 12:45	
Iodomethane	ug/L	ND	10.0	09/09/11 12:45	
Methylene chloride	ug/L	ND	1.0	09/09/11 12:45	
Tetrachloroethene	ug/L	ND	1.0	09/09/11 12:45	
Toluene	ug/L	ND	1.0	09/09/11 12:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/09/11 12:45	
Trichloroethene	ug/L	ND	1.0	09/09/11 12:45	
Vinyl chloride	ug/L	ND	1.0	09/09/11 12:45	
Xylene (Total)	ug/L	ND	3.0	09/09/11 12:45	
1,2-Dichloroethane-d4 (S)	%	103	82-119	09/09/11 12:45	
4-Bromofluorobenzene (S)	%	102	87-113	09/09/11 12:45	
Dibromofluoromethane (S)	%	99	86-112	09/09/11 12:45	
Toluene-d8 (S)	%	100	90-110	09/09/11 12:45	

LABORATORY CONTROL SAMPLE: 872864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.2	101	82-119	
1,2-Dichloroethane	ug/L	20	19.7	98	77-125	
Acetone	ug/L	100	112	112	18-192	
Benzene	ug/L	20	19.4	97	82-117	
Carbon disulfide	ug/L	20	21.4	107	75-138	
Chlorobenzene	ug/L	20	18.7	94	83-121	
Chloroform	ug/L	20	17.9	90	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	80-119	
Ethylbenzene	ug/L	20	19.5	98	79-121	
Iodomethane	ug/L	20	21.7	109	14-169	
Methylene chloride	ug/L	20	22.7	114	75-118	
Tetrachloroethene	ug/L	20	20.2	101	80-124	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.7	109	79-120	
Trichloroethene	ug/L	20	19.2	96	76-122	
Vinyl chloride	ug/L	20	21.0	105	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

LABORATORY CONTROL SAMPLE: 872864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	57.9	96	75-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 872870 872871

Parameter	Units	60105384002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	20	20	14.3	11.8	71	59	57-128	19	27	
1,2-Dichloroethane	ug/L	<1.0	20	20	13.8	11.6	69	58	44-145	18	22	
Acetone	ug/L	<10.0	100	100	36.0	32.9	36	33	30-147	9	30	
Benzene	ug/L	<1.0	20	20	19.0	12.0	95	60	58-139	45	21	D6
Carbon disulfide	ug/L	<5.0	20	20	14.6	12.9	73	65	28-155	12	25	
Chlorobenzene	ug/L	<1.0	20	20	12.6	10.9	63	54	56-129	15	21	M1
Chloroform	ug/L	<1.0	20	20	12.7	11.0	61	52	55-130	14	23	M1
,2-Dichloroethene	ug/L	<1.0	20	20	13.6	11.8	68	59	34-152	14	26	
benzene	ug/L	<1.0	20	20	13.5	11.2	68	56	56-138	19	19	
Iodomethane	ug/L	<10.0	20	20	10.7	10.9	53	54	10-161	2	30	
Methylene chloride	ug/L	<1.0	20	20	14.0	11.8	70	59	44-133	17	27	
Tetrachloroethene	ug/L	<1.0	20	20	13.9	12.1	69	61	47-140	14	24	
Toluene	ug/L	<1.0	20	20	18.1	11.8	90	59	59-140	42	19	D6
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	15.3	13.1	77	65	62-130	16	25	
Trichloroethene	ug/L	<1.0	20	20	14.0	11.7	70	59	37-148	18	25	
Vinyl chloride	ug/L	<1.0	20	20	14.8	12.5	74	63	47-133	17	32	
Xylene (Total)	ug/L	<3.0	60	60	42.3	34.0	71	57	52-146	22	19	
1,2-Dichloroethane-d4 (S)	%						102	101	82-119			
4-Bromofluorobenzene (S)	%						100	100	87-113			
Dibromofluoromethane (S)	%						101	101	86-112			
Toluene-d8 (S)	%						99	99	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: MSV/39998 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449009, 60105449010

METHOD BLANK: 874405 Matrix: Water
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449009, 60105449010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/13/11 18:17	
1,2-Dichloroethane	ug/L	ND	1.0	09/13/11 18:17	
Acetone	ug/L	ND	10.0	09/13/11 18:17	
Benzene	ug/L	ND	1.0	09/13/11 18:17	
Carbon disulfide	ug/L	ND	5.0	09/13/11 18:17	
Chlorobenzene	ug/L	ND	1.0	09/13/11 18:17	
Chloroform	ug/L	ND	1.0	09/13/11 18:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/13/11 18:17	
Ethylbenzene	ug/L	ND	1.0	09/13/11 18:17	
Iodomethane	ug/L	ND	10.0	09/13/11 18:17	
Methylene chloride	ug/L	ND	1.0	09/13/11 18:17	
Tetrachloroethene	ug/L	ND	1.0	09/13/11 18:17	
Toluene	ug/L	ND	1.0	09/13/11 18:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/13/11 18:17	
Trichloroethene	ug/L	ND	1.0	09/13/11 18:17	
Vinyl chloride	ug/L	ND	1.0	09/13/11 18:17	
Xylene (Total)	ug/L	ND	3.0	09/13/11 18:17	
1,2-Dichloroethane-d4 (S)	%	103	82-119	09/13/11 18:17	
4-Bromofluorobenzene (S)	%	102	87-113	09/13/11 18:17	
Dibromofluoromethane (S)	%	99	86-112	09/13/11 18:17	
Toluene-d8 (S)	%	99	90-110	09/13/11 18:17	

LABORATORY CONTROL SAMPLE: 874406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.2	101	82-119	
1,2-Dichloroethane	ug/L	20	21.5	107	77-125	
Acetone	ug/L	100	104	104	18-192	
Benzene	ug/L	20	20.5	103	82-117	
Carbon disulfide	ug/L	20	22.6	113	75-138	
Chlorobenzene	ug/L	20	21.0	105	83-121	
Chloroform	ug/L	20	19.0	95	82-116	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	80-119	
Ethylbenzene	ug/L	20	21.5	107	79-121	
Iodomethane	ug/L	20	12.0	60	14-169	
Methylene chloride	ug/L	20	20.9	104	75-118	
Tetrachloroethene	ug/L	20	21.5	108	80-124	
Toluene	ug/L	20	20.5	102	80-120	
trans-1,2-Dichloroethene	ug/L	20	23.3	116	79-120	
Trichloroethene	ug/L	20	20.0	100	76-122	
Vinyl chloride	ug/L	20	20.2	101	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

LABORATORY CONTROL SAMPLE: 874406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	64.9	108	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			96	86-112	
Toluene-d8 (S)	%			100	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: MSV/40032
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105449008

METHOD BLANK: 875023
Matrix: Water
Associated Lab Samples: 60105449008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/14/11 20:42	
1,2-Dichloroethane	ug/L	ND	1.0	09/14/11 20:42	
Acetone	ug/L	ND	10.0	09/14/11 20:42	
Benzene	ug/L	ND	1.0	09/14/11 20:42	
Carbon disulfide	ug/L	ND	5.0	09/14/11 20:42	
Chlorobenzene	ug/L	ND	1.0	09/14/11 20:42	
Chloroform	ug/L	ND	1.0	09/14/11 20:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/14/11 20:42	
Ethylbenzene	ug/L	ND	1.0	09/14/11 20:42	
Iodomethane	ug/L	ND	10.0	09/14/11 20:42	
Methylene chloride	ug/L	ND	1.0	09/14/11 20:42	
Tetrachloroethene	ug/L	ND	1.0	09/14/11 20:42	
Toluene	ug/L	ND	1.0	09/14/11 20:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/14/11 20:42	
Trichloroethene	ug/L	ND	1.0	09/14/11 20:42	
Vinyl chloride	ug/L	ND	1.0	09/14/11 20:42	
Xylene (Total)	ug/L	ND	3.0	09/14/11 20:42	
1,2-Dichloroethane-d4 (S)	%	105	82-119	09/14/11 20:42	
4-Bromofluorobenzene (S)	%	101	87-113	09/14/11 20:42	
Dibromofluoromethane (S)	%	100	86-112	09/14/11 20:42	
Toluene-d8 (S)	%	101	90-110	09/14/11 20:42	

LABORATORY CONTROL SAMPLE: 875024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	82-119	
1,2-Dichloroethane	ug/L	20	20.7	104	77-125	
Acetone	ug/L	100	143	143	18-192	
Benzene	ug/L	20	21.9	110	82-117	
Carbon disulfide	ug/L	20	20.4	102	75-138	
Chlorobenzene	ug/L	20	18.5	92	83-121	
Chloroform	ug/L	20	18.1	90	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-119	
Ethylbenzene	ug/L	20	20.0	100	79-121	
Iodomethane	ug/L	20	13.1	65	14-169	
Methylene chloride	ug/L	20	21.8	109	75-118	
Tetrachloroethene	ug/L	20	19.4	97	80-124	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	22.6	113	79-120	
Trichloroethene	ug/L	20	19.3	96	76-122	
Vinyl chloride	ug/L	20	19.9	100	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

LABORATORY CONTROL SAMPLE: 875024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	57.3	96	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			100	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: MSV/40074 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105449011, 60105449012, 60105449013, 60105449014, 60105449015

METHOD BLANK: 875850 Matrix: Water
Associated Lab Samples: 60105449011, 60105449012, 60105449013, 60105449014, 60105449015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/15/11 16:06	
1,2-Dichloroethane	ug/L	ND	1.0	09/15/11 16:06	
Acetone	ug/L	ND	10.0	09/15/11 16:06	
Benzene	ug/L	ND	1.0	09/15/11 16:06	
Carbon disulfide	ug/L	ND	5.0	09/15/11 16:06	
Chlorobenzene	ug/L	ND	1.0	09/15/11 16:06	
Chloroform	ug/L	ND	1.0	09/15/11 16:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/15/11 16:06	
Ethylbenzene	ug/L	ND	1.0	09/15/11 16:06	
Iodomethane	ug/L	ND	10.0	09/15/11 16:06	
Methylene chloride	ug/L	ND	1.0	09/15/11 16:06	
Tetrachloroethene	ug/L	ND	1.0	09/15/11 16:06	
Toluene	ug/L	ND	1.0	09/15/11 16:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/15/11 16:06	
Trichloroethene	ug/L	ND	1.0	09/15/11 16:06	
Vinyl chloride	ug/L	ND	1.0	09/15/11 16:06	
Xylene (Total)	ug/L	ND	3.0	09/15/11 16:06	
1,2-Dichloroethane-d4 (S)	%	101	82-119	09/15/11 16:06	
4-Bromofluorobenzene (S)	%	101	87-113	09/15/11 16:06	
Dibromofluoromethane (S)	%	104	86-112	09/15/11 16:06	
Toluene-d8 (S)	%	98	90-110	09/15/11 16:06	

LABORATORY CONTROL SAMPLE: 875851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.2	101	82-119	
1,2-Dichloroethane	ug/L	20	20.0	100	77-125	
Acetone	ug/L	100	114	114	18-192	
Benzene	ug/L	20	19.0	95	82-117	
Carbon disulfide	ug/L	20	22.5	112	75-138	
Chlorobenzene	ug/L	20	16.7	83	83-121	
Chloroform	ug/L	20	18.7	94	82-116	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
Ethylbenzene	ug/L	20	17.5	88	79-121	
Iodomethane	ug/L	20	15.4	77	14-169	
Methylene chloride	ug/L	20	20.2	101	75-118	
Tetrachloroethene	ug/L	20	18.3	91	80-124	
Toluene	ug/L	20	19.1	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	23.3	117	79-120	
Trichloroethene	ug/L	20	20.5	102	76-122	
Vinyl chloride	ug/L	20	20.8	104	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

LABORATORY CONTROL SAMPLE: 875851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	53.2	89	75-120	
1,2-Dichloroethane-d4 (S)	%			107	82-119	
4-Bromofluorobenzene (S)	%			104	87-113	
Dibromofluoromethane (S)	%			104	86-112	
Toluene-d8 (S)	%			101	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30939 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004

METHOD BLANK: 874345 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/13/11 14:00	

LABORATORY CONTROL SAMPLE: 874346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 874347

Parameter	Units	60105251002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	186	184	1	9	

SAMPLE DUPLICATE: 874348

Parameter	Units	60105281003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	350	353	1	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30956 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 874973 Matrix: Water
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/14/11 15:25	

LABORATORY CONTROL SAMPLE: 874974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	530	106	90-110	

SAMPLE DUPLICATE: 874975

Parameter	Units	60105356002 Result	Dup Result	RPD	Max RPD	Qualifiers
inity, Total as CaCO3	mg/L	528	521	1	9	

SAMPLE DUPLICATE: 874976

Parameter	Units	60105346012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1400	1420	1	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30840 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010

METHOD BLANK: 871362 Matrix: Water
Associated Lab Samples: 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/07/11 15:23	

SAMPLE DUPLICATE: 871363

Parameter	Units	60105449005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	341	349	2	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30856 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 871848 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/08/11 16:40	

SAMPLE DUPLICATE: 871860

Parameter	Units	60105449012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	338	332	2	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30799 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010

SAMPLE DUPLICATE: 870275

Parameter	Units	60105449001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WET/30800 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60105449011, 60105449012, 60105449013, 60105449014

SAMPLE DUPLICATE: 870282

Parameter	Units	60105449011 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WETA/2192 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 86611 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/25/11 19:00	
Sulfate	mg/L	ND	1.0	09/25/11 19:00	

LABORATORY CONTROL SAMPLE: 86612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Sulfate	mg/L	15	14.7	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 86219 86613

Parameter	Units	60105449004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	33.6	50	50	77.4	75.9	87	84	90-110	2	10	M1
Sulfate	mg/L	78.5	150	150	222	212	96	89	90-110	5	10	M1

MATRIX SPIKE SAMPLE: 86614

Parameter	Units	60105449014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	250	250	428	71	90-110	M1
Sulfate	mg/L	ND	75	73.3	97	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WETA/17561 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

METHOD BLANK: 873855 Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012, 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/12/11 11:39	
Nitrogen, Nitrite	mg/L	ND	0.10	09/12/11 11:39	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/12/11 11:39	

LABORATORY CONTROL SAMPLE: 873856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	98	90-110	
Nitrogen, Nitrite	mg/L	.4	0.43	108	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 873857

Parameter	Units	60105449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.0	1.6	3.8	113	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.43	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.0	2	4.2	111	90-110	M0

MATRIX SPIKE SAMPLE: 873859

Parameter	Units	60105449011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.8	110	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.39	96	90-110	
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.2	107	90-110	

SAMPLE DUPLICATE: 873858

Parameter	Units	60105449003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WETA/17571 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012

METHOD BLANK: 874360 — Matrix: Water
Associated Lab Samples: 60105449001, 60105449002, 60105449003, 60105449004, 60105449005, 60105449006, 60105449007, 60105449008, 60105449009, 60105449010, 60105449011, 60105449012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/13/11 16:24	

LABORATORY CONTROL SAMPLE: 874361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	102	80-120	

MATRIX SPIKE SAMPLE: 874362

Parameter	Units	60105356003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.7	5	17.6	98	80-120	

SAMPLE DUPLICATE: 874364

Parameter	Units	60105418002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	285	281	1	25	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

QC Batch: WETA/17577 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60105449013, 60105449014

METHOD BLANK: 874677 Matrix: Water
Associated Lab Samples: 60105449013, 60105449014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/14/11 09:43	

LABORATORY CONTROL SAMPLE: 874678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	98	80-120	

MATRIX SPIKE SAMPLE: 874679

Parameter	Units	60105449013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Organic Carbon	mg/L	156	25	176	80	80-120	

SAMPLE DUPLICATE: 874680

Parameter	Units	60105449014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	190	184	3	25	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis
PASI-S	Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: MSV/39998

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40032

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40074

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40088

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Analyzed one hour past hold.
2e	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample result was greater than four times the spike value.
3e	Sample analyzed ten minutes past hold.
4e	Sample ran 21 minutes past hold.
5e	Sample was ran 32 minutes past hold.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

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(913)599-5665

QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D4	Sample was diluted due to the presence of high levels of target analytes.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105449001	MW-34B-083011	RSK 175	AIR/13079		
60105449002	MW-33B-083011	RSK 175	AIR/13079		
60105449003	MW-33A-083011	RSK 175	AIR/13079		
60105449004	MW-32B-083011	RSK 175	AIR/13082		
60105449005	MW-32A-083111	RSK 175	AIR/13086		
60105449006	MW-31B-083111	RSK 175	AIR/13086		
60105449007	HW-1-083111	RSK 175	AIR/13086		
60105449008	HW-2-083111	RSK 175	AIR/13086		
60105449009	OBW-3-083111	RSK 175	AIR/13086		
60105449010	OBW-3-083111-AD	RSK 175	AIR/13086		
60105449011	MW-15-090111	RSK 175	AIR/13099		
60105449012	MW-4-090111	RSK 175	AIR/13099		
60105449013	GM-1-090111	RSK 175	AIR/13099		
60105449014	GM-2-090111	RSK 175	AIR/13099		
60105449001	MW-34B-083011	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449002	MW-33B-083011	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449003	MW-33A-083011	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449004	MW-32B-083011	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449005	MW-32A-083111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449006	MW-31B-083111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449007	HW-1-083111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449008	HW-2-083111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449009	OBW-3-083111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449010	OBW-3-083111-AD	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449011	MW-15-090111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449012	MW-4-090111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449013	GM-1-090111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449014	GM-2-090111	EPA 3010	MPRP/15232	EPA 6010	ICP/13241
60105449001	MW-34B-083011	EPA 5030B/8260	MSV/39918		
60105449002	MW-33B-083011	EPA 5030B/8260	MSV/39918		
60105449003	MW-33A-083011	EPA 5030B/8260	MSV/39918		
60105449004	MW-32B-083011	EPA 5030B/8260	MSV/39918		
60105449005	MW-32A-083111	EPA 5030B/8260	MSV/39998		
60105449006	MW-31B-083111	EPA 5030B/8260	MSV/39998		
60105449007	HW-1-083111	EPA 5030B/8260	MSV/39998		
60105449008	HW-2-083111	EPA 5030B/8260	MSV/40032		
60105449009	OBW-3-083111	EPA 5030B/8260	MSV/39998		
60105449010	OBW-3-083111-AD	EPA 5030B/8260	MSV/39998		
60105449011	MW-15-090111	EPA 5030B/8260	MSV/40074		
60105449012	MW-4-090111	EPA 5030B/8260	MSV/40074		
60105449013	GM-1-090111	EPA 5030B/8260	MSV/40074		
60105449013	GM-1-090111	EPA 5030B/8260	MSV/40088		
60105449014	GM-2-090111	EPA 5030B/8260	MSV/40074		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105449015	TRIP BLANK-090111	EPA 5030B/8260	MSV/40074		
60105449001	MW-34B-083011	SM 2320B	WET/30939		
60105449002	MW-33B-083011	SM 2320B	WET/30939		
60105449003	MW-33A-083011	SM 2320B	WET/30939		
60105449004	MW-32B-083011	SM 2320B	WET/30939		
60105449005	MW-32A-083111	SM 2320B	WET/30956		
60105449006	MW-31B-083111	SM 2320B	WET/30956		
60105449007	HW-1-083111	SM 2320B	WET/30956		
60105449008	HW-2-083111	SM 2320B	WET/30956		
60105449009	OBW-3-083111	SM 2320B	WET/30956		
60105449010	OBW-3-083111-AD	SM 2320B	WET/30956		
60105449011	MW-15-090111	SM 2320B	WET/30956		
60105449012	MW-4-090111	SM 2320B	WET/30956		
60105449013	GM-1-090111	SM 2320B	WET/30956		
60105449014	GM-2-090111	SM 2320B	WET/30956		
60105449001	MW-34B-083011	SM 2540C	WET/30856		
60105449002	MW-33B-083011	SM 2540C	WET/30856		
60105449003	MW-33A-083011	SM 2540C	WET/30856		
5449004	MW-32B-083011	SM 2540C	WET/30856		
5449005	MW-32A-083111	SM 2540C	WET/30840		
60105449006	MW-31B-083111	SM 2540C	WET/30840		
60105449007	HW-1-083111	SM 2540C	WET/30840		
60105449008	HW-2-083111	SM 2540C	WET/30840		
60105449009	OBW-3-083111	SM 2540C	WET/30840		
60105449010	OBW-3-083111-AD	SM 2540C	WET/30840		
60105449011	MW-15-090111	SM 2540C	WET/30856		
60105449012	MW-4-090111	SM 2540C	WET/30856		
60105449013	GM-1-090111	SM 2540C	WET/30856		
60105449014	GM-2-090111	SM 2540C	WET/30856		
60105449001	MW-34B-083011	SM 4500-H+B	WET/30799		
60105449002	MW-33B-083011	SM 4500-H+B	WET/30799		
60105449003	MW-33A-083011	SM 4500-H+B	WET/30799		
60105449004	MW-32B-083011	SM 4500-H+B	WET/30799		
60105449005	MW-32A-083111	SM 4500-H+B	WET/30799		
60105449006	MW-31B-083111	SM 4500-H+B	WET/30799		
60105449007	HW-1-083111	SM 4500-H+B	WET/30799		
60105449008	HW-2-083111	SM 4500-H+B	WET/30799		
60105449009	OBW-3-083111	SM 4500-H+B	WET/30799		
60105449010	OBW-3-083111-AD	SM 4500-H+B	WET/30799		
60105449011	MW-15-090111	SM 4500-H+B	WET/30800		
60105449012	MW-4-090111	SM 4500-H+B	WET/30800		
60105449013	GM-1-090111	SM 4500-H+B	WET/30800		
60105449014	GM-2-090111	SM 4500-H+B	WET/30800		
60105449001	MW-34B-083011	EPA 300.0	WETA/2192		
5449002	MW-33B-083011	EPA 300.0	WETA/2192		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105449003	MW-33A-083011	EPA 300.0	WETA/2192		
60105449004	MW-32B-083011	EPA 300.0	WETA/2192		
60105449005	MW-32A-083111	EPA 300.0	WETA/2192		
60105449006	MW-31B-083111	EPA 300.0	WETA/2192		
60105449007	HW-1-083111	EPA 300.0	WETA/2192		
60105449008	HW-2-083111	EPA 300.0	WETA/2192		
60105449009	OBW-3-083111	EPA 300.0	WETA/2192		
60105449010	OBW-3-083111-AD	EPA 300.0	WETA/2192		
60105449011	MW-15-090111	EPA 300.0	WETA/2192		
60105449012	MW-4-090111	EPA 300.0	WETA/2192		
60105449013	GM-1-090111	EPA 300.0	WETA/2192		
60105449014	GM-2-090111	EPA 300.0	WETA/2192		
60105449001	MW-34B-083011	EPA 353.2	WETA/17561		
60105449002	MW-33B-083011	EPA 353.2	WETA/17561		
60105449003	MW-33A-083011	EPA 353.2	WETA/17561		
60105449004	MW-32B-083011	EPA 353.2	WETA/17561		
60105449005	MW-32A-083111	EPA 353.2	WETA/17561		
60105449006	MW-31B-083111	EPA 353.2	WETA/17561		
60105449007	HW-1-083111	EPA 353.2	WETA/17561		
60105449008	HW-2-083111	EPA 353.2	WETA/17561		
60105449009	OBW-3-083111	EPA 353.2	WETA/17561		
60105449010	OBW-3-083111-AD	EPA 353.2	WETA/17561		
60105449011	MW-15-090111	EPA 353.2	WETA/17561		
60105449012	MW-4-090111	EPA 353.2	WETA/17561		
60105449013	GM-1-090111	EPA 353.2	WETA/17561		
60105449014	GM-2-090111	EPA 353.2	WETA/17561		
60105449001	MW-34B-083011	SM 5310C	WETA/17571		
60105449002	MW-33B-083011	SM 5310C	WETA/17571		
60105449003	MW-33A-083011	SM 5310C	WETA/17571		
60105449004	MW-32B-083011	SM 5310C	WETA/17571		
60105449005	MW-32A-083111	SM 5310C	WETA/17571		
60105449006	MW-31B-083111	SM 5310C	WETA/17571		
60105449007	HW-1-083111	SM 5310C	WETA/17571		
60105449008	HW-2-083111	SM 5310C	WETA/17571		
60105449009	OBW-3-083111	SM 5310C	WETA/17571		
60105449010	OBW-3-083111-AD	SM 5310C	WETA/17571		
60105449011	MW-15-090111	SM 5310C	WETA/17571		
60105449012	MW-4-090111	SM 5310C	WETA/17571		
60105449013	GM-1-090111	SM 5310C	WETA/17577		
60105449014	GM-2-090111	SM 5310C	WETA/17577		
60105449001	MW-34B-083011	SM 4500-CO2 D	WETA/17589		
60105449002	MW-33B-083011	SM 4500-CO2 D	WETA/17589		
60105449003	MW-33A-083011	SM 4500-CO2 D	WETA/17589		
60105449004	MW-32B-083011	SM 4500-CO2 D	WETA/17589		
60105449005	MW-32A-083111	SM 4500-CO2 D	WETA/17589		
60105449006	MW-31B-083111	SM 4500-CO2 D	WETA/17589		
60105449007	HW-1-083111	SM 4500-CO2 D	WETA/17589		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105449008	**HW-2-083111**	SM 4500-CO2 D	WETA/17589		
60105449009	**OBW-3-083111**	SM 4500-CO2 D	WETA/17589		
60105449010	**OBW-3-083111-AD**	SM 4500-CO2 D	WETA/17589		
60105449011	**MW-15-090111**	SM 4500-CO2 D	WETA/17589		
60105449012	**MW-4-090111**	SM 4500-CO2 D	WETA/17589		
60105449013	**GM-1-090111**	SM 4500-CO2 D	WETA/17589		
60105449014	**GM-2-090111**	SM 4500-CO2 D	WETA/17589		

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Keystone
LABORATORIES, INC.

MEMBER ACIL

30 September 2011

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60105449

Enclosed are the results of analyses for samples received by the laboratory on 09/03/11 14:00. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-15-090111	11I0142-01	Water	09/01/11 07:30	09/03/11 14:00
MW-4-090111	11I0142-02	Water	09/01/11 09:00	09/03/11 14:00
GM-1-090111	11I0142-03	Water	09/01/11 10:23	09/03/11 14:00
GM-2-090111	11I0142-04	Water	09/01/11 12:32	09/03/11 14:00

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60105449
Project Manager: Jamie Slade

Reported
09/30/11 14:27

MEMBER ACIL

Chain of Custody

Pace Analytical
www.pacelabs.com

11I0142

Workorder: 60105449 **Workorder Name:** SOLUTIA GROUNDWATER **Results Requested** 9/12/2011

Report / Invoice To

Jamie Slade
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Email: jamie.slade@pacelabs.com

Subcontract To

P.O. SUB-5951

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						ALACHLOR	LAB USE ONLY
1	MW-15	9/1/2011 07:30	60105449011	Water	2						x	01
2	MW-4	9/1/2011 09:00	60105449012	Water	2						x	02
3	GM-1	9/1/2011 10:23	60105449013	Water	2						x	03
4	GM-2	9/1/2011 12:32	60105449014	Water	2						x	04
5												

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/2/11 1700	[illegible]	9/3/11 1400
2				
3				
4				
5				

Friday, September 02, 2011 2:07:23 PM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

MW-15-090111

11I0142-01 (Water)

Date Sampled:9/1/2011 7:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**2.83**	0.10	ug/l	1	1I10751	09/07/11	09/12/11 12:14	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*93.4 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

MW-4-090111

11I0142-02 (Water)

Date Sampled:9/1/2011 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**2.78**	0.10	ug/l	1	1I10751	09/07/11	09/12/11 12:52	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*97.0 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

GM-1-090111

1110142-03 (Water)

Date Sampled:9/1/2011 10:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**170000**	1000	ug/l	10000	1110751	09/07/11	09/13/11 08:40	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*%*		*42-126*	"	"	"	"	*S-01*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

GM-2-090111

11I0142-04 (Water)

Date Sampled:9/1/2011 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**120000**	1000	ug/l	10000	1I10751	09/07/11	09/13/11 09:16	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*%*		*42-126*	"	"	"	"	*S-01*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I10751 - 3510C NP/OC Sep Fnl										
Blank (1I10751-BLK1)				Prepared: 09/07/11 Analyzed: 09/12/11						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*8.45*		"	*9.83200*		*85.9*	*42-126*			
LCS (1I10751-BS1)				Prepared: 09/07/11 Analyzed: 09/12/11						
Alachlor	3.020	0.10	ug/l	2.75000		110	65-135			
Surrogate: 2-Nitro-m-xylene	*10.4*		"	*9.83200*		*106*	*42-126*			
LCS Dup (1I10751-BSD1)				Prepared: 09/07/11 Analyzed: 09/12/11						
Alachlor	2.910	0.10	ug/l	2.75000		106	65-135	3.71	30	
Surrogate: 2-Nitro-m-xylene	*11.9*		"	*9.83200*		*121*	*42-126*			
Reference (1I10751-SRM1)				Prepared: 09/07/11 Analyzed: 09/12/11						
Alachlor	3.245	0.10	ug/l	2.75000		118	70-130			
Surrogate: 2-Nitro-m-xylene	*13.2*		"	*9.83200*		*134*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2011
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2011
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

Notes and Definitions

S-07	The surrogate recovery for this sample is outside of established control limits.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105449 Project Manager: Jamie Slade	Reported 09/30/11 14:27

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Per Jon Truesdale/Larry Rosen, all sample IDs updated to include collection date. 9/28/11 JLS

Jamie Slade 9/7/11

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November 02, 2011

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524 REVISION, REV-1 11/2/11, Sample ID correction: LPZ-5-090211 changed to LPZ-2-090211

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

as Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60105524001	MW-19-090111	Water	09/01/11 15:30	09/03/11 07:30
60105524002	MW-9-090111	Water	09/01/11 16:27	09/03/11 07:30
60105524003	MW-11A-090111	Water	09/01/11 17:37	09/03/11 07:30
60105524004	MW-13-090111	Water	09/01/11 18:23	09/03/11 07:30
60105524005	MW-23-090111	Water	09/01/11 19:13	09/03/11 07:30
60105524006	MW-03-090111	Water	09/01/11 20:01	09/03/11 07:30
60105524007	MW-2A-090211	Water	09/02/11 06:03	09/03/11 07:30
60105524008	MW-2B-090211	Water	09/02/11 06:54	09/03/11 07:30
60105524009	MW-2B-090211-AD	Water	09/02/11 06:54	09/03/11 07:30
60105524010	MW-39B-090211	Water	09/02/11 08:28	09/03/11 07:30
60105524011	OBW-2-090211	Water	09/02/11 07:42	09/03/11 07:30
60105524012	MW-39A-090211	Water	09/02/11 09:19	09/03/11 07:30
60105524013	LPZ-2-090211	Water	09/02/11 11:50	09/03/11 07:30
60105524014	TRIP BLANK-090211	Water	09/01/11 00:00	09/03/11 07:30

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60105524001	**MW-19-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524002	**MW-9-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524003	**MW-11A-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524004	**MW-13-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524005	**MW-23-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524006	**MW-03-090111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524007	**MW-2A-090211**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524008	**MW-2B-090211**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524009	**MW-2B-090211-AD**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524010	**MW-39B-090211**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524011	**OBW-2-090211**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
5524012	**MW-39A-090211**	RSK 175	SK4	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	HMW, PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524013	**LPZ-2-090211**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105524014	**TRIP BLANK-090211**	EPA 5030B/8260	HMW	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-19-090111 **Lab ID: 60105524001** Collected: 09/01/11 15:30 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 16:30	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 16:30	74-85-1	
Methane	**19300**	ug/L	10.0	1		09/08/11 16:30	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**23400**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:41	7439-89-6	
Manganese	**4540**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:41	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		09/15/11 22:23	67-64-1	
Benzene	ND	ug/L	1000	1000		09/15/11 22:23	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		09/15/11 22:23	75-15-0	
Chlorobenzene	**68700**	ug/L	1000	1000		09/15/11 22:23	108-90-7	
Chloroform	ND	ug/L	1000	1000		09/15/11 22:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		09/15/11 22:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		09/15/11 22:23	156-60-5	
Ibenzene	ND	ug/L	1000	1000		09/15/11 22:23	100-41-4	
ıethane	ND	ug/L	10000	1000		09/15/11 22:23	74-88-4	
Methylene chloride	**1780**	ug/L	1000	1000		09/15/11 22:23	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		09/15/11 22:23	127-18-4	
Toluene	ND	ug/L	1000	1000		09/15/11 22:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		09/15/11 22:23	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		09/15/11 22:23	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		09/15/11 22:23	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		09/15/11 22:23	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1000		09/15/11 22:23	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1000		09/15/11 22:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	82-119	1000		09/15/11 22:23	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1000		09/15/11 22:23	2037-26-5	
Preservation pH	**1.0**		0.10	1000		09/15/11 22:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**608**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**795**	mg/L	5.0	1		09/07/11 13:38		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**100**	mg/L	20.0	20		09/20/11 11:01	16887-00-6	
Sulfate	**2.5**	mg/L	1.0	1		09/20/11 17:35	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-19-090111 **Lab ID: 60105524001** Collected: 09/01/11 15:30 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:16		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:16		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:16		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**46.8**	mg/L	2.0	1		09/12/11 14:30	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**617**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-9-090111 **Lab ID: 60105524002** Collected: 09/01/11 16:27 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**298**	ug/L	10.0	1		09/08/11 16:41	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 16:41	74-85-1	
Methane	**9290**	ug/L	10.0	1		09/08/11 16:41	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**29600**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:44	7439-89-6	
Manganese	**381**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:44	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 18:06	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 18:06	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 18:06	75-15-0	
Chlorobenzene	**148**	ug/L	1.0	1		09/15/11 22:38	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 18:06	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 18:06	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:06	156-60-5	L3
lbenzene	ND	ug/L	1.0	1		09/12/11 18:06	100-41-4	
ıethane	ND	ug/L	10.0	1		09/12/11 18:06	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 18:06	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 18:06	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 18:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 18:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 18:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 18:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 18:06	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/12/11 18:06	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/12/11 18:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	82-119	1		09/12/11 18:06	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/12/11 18:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 18:06		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**718**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1440**	mg/L	5.0	1		09/07/11 13:38		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**353**	mg/L	100	100		09/20/11 11:18	16887-00-6	
Sulfate	**5.1**	mg/L	5.0	5		09/20/11 17:53	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-9-090111 **Lab ID: 60105524002** Collected: 09/01/11 16:27 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:18		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:18		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:18		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**17.3**	mg/L	1.0	1		09/12/11 14:45	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**744**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-11A-090111 **Lab ID: 60105524003** Collected: 09/01/11 17:37 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 18:17	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 18:17	74-85-1	
Methane	**17700**	ug/L	10.0	1		09/08/11 18:17	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**30700**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:46	7439-89-6	
Manganese	**385**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:46	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 18:23	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 18:23	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 18:23	75-15-0	
Chlorobenzene	**247**	ug/L	2.0	2		09/15/11 22:52	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 18:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 18:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:23	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 18:23	100-41-4	
nethane	ND	ug/L	10.0	1		09/12/11 18:23	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 18:23	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 18:23	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 18:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 18:23	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 18:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 18:23	1330-20-7	
4-Bromofluorobenzene (S)	104	%	87-113	1		09/12/11 18:23	460-00-4	
Dibromofluoromethane (S)	98	%	86-112	1		09/12/11 18:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/12/11 18:23	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/12/11 18:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 18:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**703**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1470**	mg/L	5.0	1		09/07/11 13:39		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**435**	mg/L	50.0	50		09/20/11 11:35	16887-00-6	
Sulfate	**9.4**	mg/L	5.0	5		09/20/11 18:10	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-11A-090111 **Lab ID: 60105524003** Collected: 09/01/11 17:37 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:19		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:19		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:19		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**16.2**	mg/L	1.0	1		09/12/11 14:59	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**720**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-13-090111 **Lab ID: 60105524004** Collected: 09/01/11 18:23 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 18:38	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 18:38	74-85-1	
Methane	**22600**	ug/L	10.0	1		09/08/11 18:38	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**79600**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:48	7439-89-6	
Manganese	**1530**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:48	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/15/11 23:06	67-64-1	
Benzene	ND	ug/L	1.0	1		09/15/11 23:06	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/15/11 23:06	75-15-0	
Chlorobenzene	**214**	ug/L	1.0	1		09/15/11 23:06	108-90-7	E
Chloroform	ND	ug/L	1.0	1		09/15/11 23:06	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/15/11 23:06	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/15/11 23:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/15/11 23:06	156-60-5	
lbenzene	ND	ug/L	1.0	1		09/15/11 23:06	100-41-4	
nethane	ND	ug/L	10.0	1		09/15/11 23:06	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/15/11 23:06	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/15/11 23:06	127-18-4	
Toluene	ND	ug/L	1.0	1		09/15/11 23:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/15/11 23:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/15/11 23:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/15/11 23:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 18:39	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	1		09/15/11 23:06	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	1		09/15/11 23:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	82-119	1		09/15/11 23:06	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1		09/15/11 23:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/15/11 23:06		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1090**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1420**	mg/L	5.0	1		09/07/11 13:39		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**345**	mg/L	100	100		09/20/11 11:52	16887-00-6	
Sulfate	**16.4**	mg/L	5.0	5		09/20/11 18:27	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-13-090111 **Lab ID: 60105524004** Collected: 09/01/11 18:23 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:21		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:21		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:21		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**18.8**	mg/L	5.0	1		09/12/11 09:19	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1100**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-23-090111 **Lab ID: 60105524005** Collected: 09/01/11 19:13 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 18:49	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 18:49	74-85-1	
Methane	**8610**	ug/L	10.0	1		09/08/11 18:49	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**176000**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:50	7439-89-6	
Manganese	**3850**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 18:55	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 18:55	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 18:55	75-15-0	
Chlorobenzene	**25.2**	ug/L	1.0	1		09/15/11 23:21	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 18:55	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 18:55	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 18:55	156-60-5	L3
lbenzene	ND	ug/L	1.0	1		09/12/11 18:55	100-41-4	
ıethane	ND	ug/L	10.0	1		09/12/11 18:55	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 18:55	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 18:55	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 18:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 18:55	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 18:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 18:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 18:55	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/12/11 18:55	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		09/12/11 18:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/12/11 18:55	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/12/11 18:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 18:55		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1100**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1440**	mg/L	5.0	1		09/07/11 13:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**344**	mg/L	100	100		09/20/11 12:09	16887-00-6	
Sulfate	**15.2**	mg/L	5.0	5		09/20/11 18:44	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-23-090111 **Lab ID: 60105524005** Collected: 09/01/11 19:13 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:22		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:22		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:22		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**25.0**	mg/L	5.0	1		09/12/11 09:33	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1060**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-03-090111 **Lab ID: 60105524006** Collected: 09/01/11 20:01 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/08/11 19:00	74-84-0	
Ethene	ND	ug/L	10.0	1		09/08/11 19:00	74-85-1	
Methane	**12.0**	ug/L	10.0	1		09/08/11 19:00	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**4610**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:52	7439-89-6	
Manganese	**604**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:52	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 19:11	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 19:11	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 19:11	75-15-0	
Chlorobenzene	**5.9**	ug/L	1.0	1		09/15/11 23:35	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 19:11	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 19:11	107-06-2	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	1		09/12/11 19:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 19:11	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 19:11	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 19:11	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 19:11	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 19:11	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 19:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 19:11	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 19:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 19:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 19:11	1330-20-7	
4-Bromofluorobenzene (S)	105	%	87-113	1		09/12/11 19:11	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/12/11 19:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		09/12/11 19:11	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/12/11 19:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 19:11		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**509**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2540**	mg/L	5.0	1		09/07/11 13:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1150**	mg/L	200	200		09/20/11 12:26	16887-00-6	
Sulfate	**137**	mg/L	20.0	20		09/20/11 19:01	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-03-090111 **Lab ID: 60105524006** Collected: 09/01/11 20:01 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.42**	mg/L	0.10	1		09/12/11 11:24		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:24		
Nitrogen, NO2 plus NO3	**0.43**	mg/L	0.10	1		09/12/11 11:24		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.7**	mg/L	1.0	1		09/12/11 10:01	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**484**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2A-090211 **Lab ID: 60105524007** Collected: 09/02/11 06:03 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 16:13	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 16:13	74-85-1	
Methane	**10.0**	ug/L	10.0	1		09/09/11 16:13	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**24100**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:55	7439-89-6	
Manganese	**730**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:55	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 19:27	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 19:27	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 19:27	75-15-0	
Chlorobenzene	**9.7**	ug/L	1.0	1		09/12/11 19:27	108-90-7	
Chloroform	**9.8**	ug/L	1.0	1		09/12/11 19:27	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 19:27	107-06-2	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	1		09/12/11 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 19:27	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 19:27	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 19:27	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 19:27	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 19:27	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 19:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 19:27	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 19:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 19:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 19:27	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/12/11 19:27	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		09/12/11 19:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		09/12/11 19:27	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/12/11 19:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 19:27		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**266**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1160**	mg/L	5.0	1		09/07/11 13:43		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**402**	mg/L	50.0	50		09/21/11 14:51	16887-00-6	
Sulfate	**133**	mg/L	20.0	20		09/19/11 16:24	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2A-090211 **Lab ID: 60105524007** Collected: 09/02/11 06:03 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.64**	mg/L	0.10	1		09/12/11 11:25		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:25		
Nitrogen, NO2 plus NO3	**0.67**	mg/L	0.10	1		09/12/11 11:25		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	1.0	1		09/12/11 10:15	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**250**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2B-090211 **Lab ID: 60105524008** Collected: 09/02/11 06:54 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 15:32	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 15:32	74-85-1	
Methane	**13.3**	ug/L	10.0	1		09/09/11 15:32	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1250**	ug/L	50.0	1	09/07/11 12:12	09/08/11 11:57	7439-89-6	
Manganese	**510**	ug/L	5.0	1	09/07/11 12:12	09/08/11 11:57	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 19:44	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 19:44	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 19:44	75-15-0	
Chlorobenzene	**40.6**	ug/L	1.0	1		09/12/11 19:44	108-90-7	
Chloroform	**10.3**	ug/L	1.0	1		09/12/11 19:44	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 19:44	107-06-2	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	1		09/12/11 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 19:44	156-60-5	L3,M0
lbenzene	ND	ug/L	1.0	1		09/12/11 19:44	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 19:44	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 19:44	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 19:44	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 19:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 19:44	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 19:44	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 19:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 19:44	1330-20-7	
4-Bromofluorobenzene (S)	104	%	87-113	1		09/12/11 19:44	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		09/12/11 19:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		09/12/11 19:44	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/12/11 19:44	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 19:44		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**435**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1250**	mg/L	5.0	1		09/07/11 13:43		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**340**	mg/L	100	100		09/20/11 13:01	16887-00-6	
Sulfate	**136**	mg/L	20.0	20		09/19/11 16:42	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2B-090211 **Lab ID: 60105524008** Collected: 09/02/11 06:54 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.51**	mg/L	0.10	1		09/12/11 11:26		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:26		
Nitrogen, NO2 plus NO3	**0.51**	mg/L	0.10	1		09/12/11 11:26		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.6**	mg/L	1.0	1		09/12/11 10:29	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**426**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2B-090211-AD **Lab ID: 60105524009** Collected: 09/02/11 06:54 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 13:57	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 13:57	74-85-1	
Methane	ND	ug/L	10.0	1		09/09/11 13:57	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**493**	ug/L	50.0	1	09/07/11 12:12	09/08/11 12:08	7439-89-6	
Manganese	**103**	ug/L	5.0	1	09/07/11 12:12	09/08/11 12:08	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 20:00	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 20:00	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 20:00	75-15-0	
Chlorobenzene	**11.0**	ug/L	1.0	1		09/12/11 20:00	108-90-7	
Chloroform	**9.9**	ug/L	1.0	1		09/12/11 20:00	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 20:00	107-06-2	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	1		09/12/11 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 20:00	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 20:00	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 20:00	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 20:00	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 20:00	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 20:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 20:00	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 20:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 20:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 20:00	1330-20-7	
4-Bromofluorobenzene (S)	104	%	87-113	1		09/12/11 20:00	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		09/12/11 20:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		09/12/11 20:00	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/12/11 20:00	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 20:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**285**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1240**	mg/L	5.0	1		09/07/11 13:43		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**448**	mg/L	50.0	50		09/20/11 14:26	16887-00-6	
Sulfate	**135**	mg/L	20.0	20		09/19/11 18:07	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-2B-090211-AD **Lab ID: 60105524009** Collected: 09/02/11 06:54 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.63**	mg/L	0.10	1		09/12/11 11:28		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:28		
Nitrogen, NO2 plus NO3	**0.64**	mg/L	0.10	1		09/12/11 11:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	1.0	1		09/12/11 10:57	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**272**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-39B-090211 **Lab ID: 60105524010** Collected: 09/02/11 08:28 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 14:07	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 14:07	74-85-1	
Methane	ND	ug/L	10.0	1		09/09/11 14:07	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**110000**	ug/L	50.0	1	09/07/11 12:12	09/08/11 12:10	7439-89-6	
Manganese	**1230**	ug/L	5.0	1	09/07/11 12:12	09/08/11 12:10	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 20:16	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 20:16	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 20:16	75-15-0	
Chlorobenzene	**8.4**	ug/L	1.0	1		09/12/11 20:16	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 20:16	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 20:16	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 20:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 20:16	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 20:16	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 20:16	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 20:16	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 20:16	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 20:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 20:16	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 20:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 20:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 20:16	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	1		09/12/11 20:16	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		09/12/11 20:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		09/12/11 20:16	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/12/11 20:16	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 20:16		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**597**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1790**	mg/L	5.0	1		09/07/11 13:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**553**	mg/L	100	100		09/20/11 14:43	16887-00-6	
Sulfate	**162**	mg/L	10.0	10		09/20/11 19:18	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-39B-090211 **Lab ID: 60105524010** Collected: 09/02/11 08:28 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.55**	mg/L	0.10	1		09/12/11 11:29		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:29		
Nitrogen, NO2 plus NO3	**0.57**	mg/L	0.10	1		09/12/11 11:29		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	1.0	1		09/12/11 11:40	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**557**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: OBW-2-090211 **Lab ID: 60105524011** Collected: 09/02/11 07:42 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 14:18	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 14:18	74-85-1	
Methane	**11.7**	ug/L	10.0	1		09/09/11 14:18	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**12300**	ug/L	50.0	1	09/07/11 12:12	09/08/11 12:12	7439-89-6	
Manganese	**118**	ug/L	5.0	1	09/07/11 12:12	09/08/11 12:12	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	100	10		09/12/11 20:32	67-64-1	
Benzene	**23.0**	ug/L	10.0	10		09/12/11 20:32	71-43-2	
Carbon disulfide	ND	ug/L	50.0	10		09/12/11 20:32	75-15-0	
Chlorobenzene	**1990**	ug/L	10.0	10		09/12/11 20:32	108-90-7	
Chloroform	ND	ug/L	10.0	10		09/12/11 20:32	67-66-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/12/11 20:32	107-06-2	
cis-1,2-Dichloroethene	**21700**	ug/L	250	250		09/16/11 01:30	156-59-2	
trans-1,2-Dichloroethene	**19.2**	ug/L	10.0	10		09/12/11 20:32	156-60-5	L1
Ibenzene	ND	ug/L	10.0	10		09/12/11 20:32	100-41-4	
methane	ND	ug/L	100	10		09/12/11 20:32	74-88-4	
Methylene chloride	ND	ug/L	10.0	10		09/12/11 20:32	75-09-2	L3
Tetrachloroethene	**14000**	ug/L	250	250		09/16/11 01:30	127-18-4	
Toluene	ND	ug/L	10.0	10		09/12/11 20:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/12/11 20:32	71-55-6	
Trichloroethene	**8960**	ug/L	250	250		09/16/11 01:30	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		09/12/11 20:32	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		09/12/11 20:32	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-113	10		09/12/11 20:32	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	10		09/12/11 20:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	10		09/12/11 20:32	17060-07-0	
Toluene-d8 (S)	101	%	90-110	10		09/12/11 20:32	2037-26-5	
Preservation pH	**1.0**		0.10	10		09/12/11 20:32		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**285**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**457**	mg/L	5.0	1		09/07/11 13:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**70.5**	mg/L	10.0	10		09/19/11 18:41	16887-00-6	
Sulfate	**18.1**	mg/L	10.0	10		09/19/11 18:41	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: OBW-2-090211 **Lab ID: 60105524011** Collected: 09/02/11 07:42 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:30		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:30		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:30		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	1.0	1		09/12/11 11:54	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**261**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-39A-090211 **Lab ID: 60105524012** Collected: 09/02/11 09:19 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/09/11 14:29	74-84-0	
Ethene	ND	ug/L	10.0	1		09/09/11 14:29	74-85-1	
Methane	**12.6**	ug/L	10.0	1		09/09/11 14:29	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**7050**	ug/L	50.0	1	09/07/11 12:12	09/08/11 12:15	7439-89-6	
Manganese	**643**	ug/L	5.0	1	09/07/11 12:12	09/08/11 12:15	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 20:49	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 20:49	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 20:49	75-15-0	
Chlorobenzene	**6.1**	ug/L	1.0	1		09/12/11 20:49	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 20:49	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 20:49	107-06-2	
cis-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		09/16/11 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 20:49	156-60-5	L3
Ibenzene	ND	ug/L	1.0	1		09/12/11 20:49	100-41-4	
methane	ND	ug/L	10.0	1		09/12/11 20:49	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 20:49	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/16/11 01:45	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 20:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 20:49	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/16/11 01:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 20:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 20:49	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/12/11 20:49	460-00-4	
Dibromofluoromethane (S)	98	%	86-112	1		09/12/11 20:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		09/12/11 20:49	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/12/11 20:49	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 20:49		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**528**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2740**	mg/L	5.0	1		09/07/11 13:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1030**	mg/L	200	200		09/20/11 15:00	16887-00-6	
Sulfate	**140**	mg/L	20.0	20		09/20/11 19:52	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: MW-39A-090211 **Lab ID: 60105524012** Collected: 09/02/11 09:19 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.36**	mg/L	0.10	1		09/12/11 11:30		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:30		
Nitrogen, NO2 plus NO3	**0.38**	mg/L	0.10	1		09/12/11 11:30		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.2**	mg/L	1.0	1		09/12/11 12:08	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**522**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: LPZ-2-090211 **Lab ID: 60105524013** Collected: 09/02/11 11:50 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**86.2**	ug/L	10.0	1		09/09/11 14:39	74-84-0	
Ethene	**246**	ug/L	10.0	1		09/09/11 14:39	74-85-1	
Methane	**13700**	ug/L	10.0	1		09/09/11 14:39	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**19600**	ug/L	250	5	09/07/11 12:12	09/08/11 12:17	7439-89-6	
Manganese	**3600**	ug/L	25.0	5	09/07/11 12:12	09/08/11 12:17	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		09/16/11 01:59	67-64-1	
Benzene	ND	ug/L	1000	1000		09/16/11 01:59	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		09/16/11 01:59	75-15-0	
Chlorobenzene	ND	ug/L	1000	1000		09/16/11 01:59	108-90-7	
Chloroform	ND	ug/L	1000	1000		09/16/11 01:59	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		09/16/11 01:59	107-06-2	
cis-1,2-Dichloroethene	**13500**	ug/L	1000	1000		09/16/11 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		09/16/11 01:59	156-60-5	
lbenzene	ND	ug/L	1000	1000		09/16/11 01:59	100-41-4	
methane	ND	ug/L	10000	1000		09/16/11 01:59	74-88-4	
Methylene chloride	**1210**	ug/L	1000	1000		09/16/11 01:59	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		09/16/11 01:59	127-18-4	
Toluene	**190000**	ug/L	1000	1000		09/16/11 01:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		09/16/11 01:59	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		09/16/11 01:59	79-01-6	
Vinyl chloride	**1500**	ug/L	1000	1000		09/16/11 01:59	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		09/16/11 01:59	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1000		09/16/11 01:59	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1000		09/16/11 01:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	82-119	1000		09/16/11 01:59	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1000		09/16/11 01:59	2037-26-5	
Preservation pH	**1.0**		0.10	1000		09/16/11 01:59		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1390**	mg/L	20.0	1		09/12/11 14:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2850**	mg/L	5.0	1		09/07/11 13:45		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**8.1**	Std. Units	0.10	1		09/06/11 15:30		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**367**	mg/L	100	100		09/19/11 19:16	16887-00-6	
Sulfate	**20.8**	mg/L	5.0	5		09/21/11 14:00	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: LPZ-2-090211 **Lab ID: 60105524013** Collected: 09/02/11 11:50 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/12/11 11:31		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/12/11 11:31		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/12/11 11:31		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**28.8**	mg/L	1.0	1		09/12/11 15:13	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1250**	mg/L	20.0	1		09/12/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Sample: TRIP BLANK-090211 **Lab ID: 60105524014** Collected: 09/01/11 00:00 Received: 09/03/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/12/11 17:01	67-64-1	
Benzene	ND	ug/L	1.0	1		09/12/11 17:01	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/12/11 17:01	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/12/11 17:01	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/12/11 17:01	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/12/11 17:01	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/12/11 17:01	156-60-5	L3
Ethylbenzene	ND	ug/L	1.0	1		09/12/11 17:01	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/12/11 17:01	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/12/11 17:01	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		09/12/11 17:01	127-18-4	
Toluene	ND	ug/L	1.0	1		09/12/11 17:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/12/11 17:01	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/12/11 17:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/12/11 17:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/12/11 17:01	1330-20-7	
romofluorobenzene (S)	102	%	87-113	1		09/12/11 17:01	460-00-4	
omofluoromethane (S)	99	%	86-112	1		09/12/11 17:01	1868-53-7	
,2-Dichloroethane-d4 (S)	108	%	82-119	1		09/12/11 17:01	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/12/11 17:01	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/12/11 17:01		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: AIR/13100 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105524001, 60105524002

METHOD BLANK: 1050223 | Matrix: Water
Associated Lab Samples: 60105524001, 60105524002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/08/11 13:36	
Ethene	ug/L	ND	10.0	09/08/11 13:36	
Methane	ug/L	ND	10.0	09/08/11 13:36	

LABORATORY CONTROL SAMPLE & LCSD: 1050224 1050225

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	126	104	111	91	70-130	19	30	
Ethene	ug/L	106	114	98.6	107	93	70-130	14	30	
Methane	ug/L	60.7	68.2	57.9	112	95	70-130	16	30	

SAMPLE DUPLICATE: 1052465

Parameter	Units	10168588001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	
Ethene	ug/L	<1.8	ND		30	
Methane	ug/L	3750	4190	11	30	

SAMPLE DUPLICATE: 1052482

Parameter	Units	10168588005 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	
Ethene	ug/L	<1.8	ND		30	
Methane	ug/L	6280	6960	10	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: AIR/13102 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105524003, 60105524004, 60105524005, 60105524006

METHOD BLANK: 1050611 — Matrix: Water
Associated Lab Samples: 60105524003, 60105524004, 60105524005, 60105524006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/08/11 18:06	
Ethene	ug/L	ND	10.0	09/08/11 18:06	
Methane	ug/L	ND	10.0	09/08/11 18:06	

LABORATORY CONTROL SAMPLE & LCSD: 1050612 1050613

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	121	122	107	107	70-130	.7	30	
Ethene	ug/L	106	113	114	107	108	70-130	1	30	
Methane	ug/L	60.7	61.6	63.7	102	105	70-130	3	30	

TRIX SPIKE & MATRIX SPIKE DUPLICATE: 1052564 1052565

Parameter	Units	60105525005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	94.8	91	118	137	125	150	30-150	15	30	
Ethene	ug/L	ND	88.4	84.9	108	122	122	143	30-150	12	30	
Methane	ug/L	184	50.5	48.5	432	490	490	629	30-150	13	30	1e

SAMPLE DUPLICATE: 1052206

Parameter	Units	60105524003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	17700	17200	3	30	E

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: AIR/13106 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 1050887 — Matrix: Water
Associated Lab Samples: 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/09/11 10:53	
Ethene	ug/L	ND	10.0	09/09/11 10:53	
Methane	ug/L	ND	10.0	09/09/11 10:53	

LABORATORY CONTROL SAMPLE & LCSD: 1050888 1050889

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	112	119	99	105	70-130	6	30	
Ethene	ug/L	106	106	112	100	105	70-130	6	30	
Methane	ug/L	60.7	59.5	60.9	98	100	70-130	2	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1051352 1051353

Parameter	Units	10168600008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<2.2	94.8	98.9	116	127	123	129	30-150	9	30	
Ethene	ug/L	<1.8	88.4	92.3	106	116	120	125	30-150	9	30	
Methane	ug/L	11.2	50.5	52.7	68.6	71.3	113	114	30-150	4	30	

SAMPLE DUPLICATE: 1051350

Parameter	Units	10168600003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	<2.2	ND		30	
Ethene	ug/L	<1.8	ND		30	
Methane	ug/L	6990	7330	5	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: AIR/13125 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105524007, 60105524008

METHOD BLANK: 1053005 | Matrix: Water
Associated Lab Samples: 60105524007, 60105524008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/09/11 15:22	
Ethene	ug/L	ND	10.0	09/09/11 15:22	
Methane	ug/L	ND	10.0	09/09/11 15:22	

LABORATORY CONTROL SAMPLE & LCSD: 1053006 1053007

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	125	105	110	70-130	5	30	
Ethene	ug/L	106	112	116	105	109	70-130	3	30	
Methane	ug/L	60.7	60.9	62.8	100	104	70-130	3	30	

TRIX SPIKE & MATRIX SPIKE DUPLICATE: 1053008 1053009

Parameter	Units	60105524008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	120	78.4	119	124	99	158	30-150	4	30	M0
Ethene	ug/L	ND	112	73.2	112	109	100	149	30-150	3	30	
Methane	ug/L	13.3	63.8	41.8	73.0	77.5	94	154	30-150	6	30	M0

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: MPRP/15229 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 871269 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	09/08/11 11:37	
Manganese	ug/L	ND	5.0	09/08/11 11:37	

LABORATORY CONTROL SAMPLE: 871270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9870	99	80-120	
Manganese	ug/L	1000	974	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 871271 871272

Parameter	Units	60105524008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	1250	10000	10000	10900	10700	97	95	75-125	2	20	
Manganese	ug/L	510	1000	1000	1420	1410	91	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: MSV/39972 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524014

METHOD BLANK: 874029 Matrix: Water
Associated Lab Samples: 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/12/11 15:40	
1,2-Dichloroethane	ug/L	ND	1.0	09/12/11 15:40	
Acetone	ug/L	ND	10.0	09/12/11 15:40	
Benzene	ug/L	ND	1.0	09/12/11 15:40	
Carbon disulfide	ug/L	ND	5.0	09/12/11 15:40	
Chlorobenzene	ug/L	ND	1.0	09/12/11 15:40	
Chloroform	ug/L	ND	1.0	09/12/11 15:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/12/11 15:40	
Ethylbenzene	ug/L	ND	1.0	09/12/11 15:40	
Iodomethane	ug/L	ND	10.0	09/12/11 15:40	
Methylene chloride	ug/L	ND	1.0	09/12/11 15:40	
Tetrachloroethene	ug/L	ND	1.0	09/12/11 15:40	
ne	ug/L	ND	1.0	09/12/11 15:40	
-1,2-Dichloroethene	ug/L	ND	1.0	09/12/11 15:40	
Trichloroethene	ug/L	ND	1.0	09/12/11 15:40	
Vinyl chloride	ug/L	ND	1.0	09/12/11 15:40	
Xylene (Total)	ug/L	ND	3.0	09/12/11 15:40	
1,2-Dichloroethane-d4 (S)	%	103	82-119	09/12/11 15:40	
4-Bromofluorobenzene (S)	%	101	87-113	09/12/11 15:40	
Dibromofluoromethane (S)	%	100	86-112	09/12/11 15:40	
Toluene-d8 (S)	%	100	90-110	09/12/11 15:40	

LABORATORY CONTROL SAMPLE: 874030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.7	113	82-119	
1,2-Dichloroethane	ug/L	20	23.5	118	77-125	
Acetone	ug/L	100	145	145	18-192	
Benzene	ug/L	20	23.3	117	82-117	
Carbon disulfide	ug/L	20	26.3	132	75-138	
Chlorobenzene	ug/L	20	23.9	120	83-121	
Chloroform	ug/L	20	22.0	110	82-116	
cis-1,2-Dichloroethene	ug/L	20	23.3	116	80-119	
Ethylbenzene	ug/L	20	24.0	120	79-121	
Iodomethane	ug/L	20	13.6	68	14-169	
Methylene chloride	ug/L	20	26.6	133	75-118	L0
Tetrachloroethene	ug/L	20	24.7	124	80-124	
Toluene	ug/L	20	23.0	115	80-120	
trans-1,2-Dichloroethene	ug/L	20	26.6	133	79-120	L0
oroethene	ug/L	20	22.2	111	76-122	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

LABORATORY CONTROL SAMPLE: 874030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	25.6	128	57-163	
Xylene (Total)	ug/L	60	72.3	121	75-120	LS
1,2-Dichloroethane-d4 (S)	%			103	82-119	
4-Bromofluorobenzene (S)	%			100	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 874031 874032

Parameter	Units	60105524008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	21.7	23.2	108	116	57-128	7	27	
1,2-Dichloroethane	ug/L	ND	20	20	22.0	23.6	110	118	44-145	7	22	
Acetone	ug/L	ND	100	100	47.1	52.0	47	52	30-147	10	30	
Benzene	ug/L	ND	20	20	21.6	23.1	108	116	58-139	7	21	
Carbon disulfide	ug/L	ND	20	20	24.7	27.6	123	138	28-155	11	25	
Chlorobenzene	ug/L	40.6	20	20	55.3	63.2	74	113	56-129	13	21	
Chloroform	ug/L	10.3	20	20	31.9	34.2	108	119	55-130	7	23	
cis-1,2-Dichloroethene	ug/L	3.2	20	20	24.6	26.3	107	115	34-152	7	26	
Ethylbenzene	ug/L	ND	20	20	21.6	25.2	108	126	56-138	15	19	
Iodomethane	ug/L	ND	20	20	18.8	25.5	94	127	10-161	30	30	
Methylene chloride	ug/L	ND	20	20	20.4	22.4	102	112	44-133	10	27	
Tetrachloroethene	ug/L	ND	20	20	23.9	26.9	119	134	47-140	12	24	
Toluene	ug/L	ND	20	20	26.1	24.6	131	123	59-140	6	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.2	26.9	121	135	62-130	11	25	M0
Trichloroethene	ug/L	ND	20	20	22.0	23.4	109	116	37-148	6	25	
Vinyl chloride	ug/L	ND	20	20	23.6	26.1	118	130	47-133	10	32	
Xylene (Total)	ug/L	ND	60	60	65.7	75.5	110	126	52-146	14	19	
1,2-Dichloroethane-d4 (S)	%						106	105	82-119			
4-Bromofluorobenzene (S)	%						104	103	87-113			
Dibromofluoromethane (S)	%						100	96	86-112			
Toluene-d8 (S)	%						98	97	90-110			

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: MSV/40075 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006

METHOD BLANK: 875852 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/15/11 19:59	
1,2-Dichloroethane	ug/L	ND	1.0	09/15/11 19:59	
Acetone	ug/L	ND	10.0	09/15/11 19:59	
Benzene	ug/L	ND	1.0	09/15/11 19:59	
Carbon disulfide	ug/L	ND	5.0	09/15/11 19:59	
Chlorobenzene	ug/L	ND	1.0	09/15/11 19:59	
Chloroform	ug/L	ND	1.0	09/15/11 19:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/15/11 19:59	
Ethylbenzene	ug/L	ND	1.0	09/15/11 19:59	
Iodomethane	ug/L	ND	10.0	09/15/11 19:59	
Methylene chloride	ug/L	ND	1.0	09/15/11 19:59	
Tetrachloroethene	ug/L	ND	1.0	09/15/11 19:59	
Toluene	ug/L	ND	1.0	09/15/11 19:59	
-1,2-Dichloroethene	ug/L	ND	1.0	09/15/11 19:59	
oroethene	ug/L	ND	1.0	09/15/11 19:59	
Vinyl chloride	ug/L	ND	1.0	09/15/11 19:59	
Xylene (Total)	ug/L	ND	3.0	09/15/11 19:59	
1,2-Dichloroethane-d4 (S)	%	101	82-119	09/15/11 19:59	
4-Bromofluorobenzene (S)	%	100	87-113	09/15/11 19:59	
Dibromofluoromethane (S)	%	96	86-112	09/15/11 19:59	
Toluene-d8 (S)	%	97	90-110	09/15/11 19:59	

LABORATORY CONTROL SAMPLE: 875853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	82-119	
1,2-Dichloroethane	ug/L	20	19.1	95	77-125	
Acetone	ug/L	100	98.0	98	18-192	
Benzene	ug/L	20	19.4	97	82-117	
Carbon disulfide	ug/L	20	20.8	104	75-138	
Chlorobenzene	ug/L	20	20.5	103	83-121	
Chloroform	ug/L	20	18.1	91	82-116	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	80-119	
Ethylbenzene	ug/L	20	20.1	100	79-121	
Iodomethane	ug/L	20	23.4	117	14-169	
Methylene chloride	ug/L	20	18.5	93	75-118	
Tetrachloroethene	ug/L	20	19.2	96	80-124	
Toluene	ug/L	20	19.4	97	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	79-120	
Trichloroethene	ug/L	20	19.5	97	76-122	
chloride	ug/L	20	20.3	101	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

LABORATORY CONTROL SAMPLE: 875853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	57.8	96	75-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			106	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			103	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: MSV/40077 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105524011, 60105524012, 60105524013

METHOD BLANK: 875888 Matrix: Water
Associated Lab Samples: 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/16/11 01:16	
1,2-Dichloroethane	ug/L	ND	1.0	09/16/11 01:16	
Acetone	ug/L	ND	10.0	09/16/11 01:16	
Benzene	ug/L	ND	1.0	09/16/11 01:16	
Carbon disulfide	ug/L	ND	5.0	09/16/11 01:16	
Chlorobenzene	ug/L	ND	1.0	09/16/11 01:16	
Chloroform	ug/L	ND	1.0	09/16/11 01:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 01:16	
Ethylbenzene	ug/L	ND	1.0	09/16/11 01:16	
Iodomethane	ug/L	ND	10.0	09/16/11 01:16	
Methylene chloride	ug/L	ND	1.0	09/16/11 01:16	
Tetrachloroethene	ug/L	ND	1.0	09/16/11 01:16	
Toluene	ug/L	ND	1.0	09/16/11 01:16	
-1,2-Dichloroethene	ug/L	ND	1.0	09/16/11 01:16	
oroethene	ug/L	ND	1.0	09/16/11 01:16	
Vinyl chloride	ug/L	ND	1.0	09/16/11 01:16	
Xylene (Total)	ug/L	ND	3.0	09/16/11 01:16	
1,2-Dichloroethane-d4 (S)	%	117	82-119	09/16/11 01:16	
4-Bromofluorobenzene (S)	%	100	87-113	09/16/11 01:16	
Dibromofluoromethane (S)	%	103	86-112	09/16/11 01:16	
Toluene-d8 (S)	%	99	90-110	09/16/11 01:16	

LABORATORY CONTROL SAMPLE: 875889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	82-119	
1,2-Dichloroethane	ug/L	20	22.2	111	77-125	
Acetone	ug/L	100	102	102	18-192	
Benzene	ug/L	20	19.5	98	82-117	
Carbon disulfide	ug/L	20	22.3	111	75-138	
Chlorobenzene	ug/L	20	20.9	104	83-121	
Chloroform	ug/L	20	19.5	97	82-116	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	80-119	
Ethylbenzene	ug/L	20	19.9	99	79-121	
Iodomethane	ug/L	20	27.0	135	14-169	
Methylene chloride	ug/L	20	20.3	101	75-118	
Tetrachloroethene	ug/L	20	19.6	98	80-124	
Toluene	ug/L	20	20.2	101	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.0	105	79-120	
Trichloroethene	ug/L	20	20.8	104	76-122	
chloride	ug/L	20	19.0	95	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

LABORATORY CONTROL SAMPLE: 875889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	60.3	101	75-120	
1,2-Dichloroethane-d4 (S)	%			113	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WET/30906 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 873860 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/12/11 14:20	

LABORATORY CONTROL SAMPLE: 873861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	502	100	90-110	

SAMPLE DUPLICATE: 873862

Parameter	Units	60105524001 Result	Dup Result	RPD	Max RPD	Qualifiers
inity, Total as CaCO3	mg/L	608	608	0	9	

SAMPLE DUPLICATE: 873863

Parameter	Units	60105524008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	435	432	1	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WET/30834 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 871223 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/07/11 13:34	

SAMPLE DUPLICATE: 871224

Parameter	Units	60105571001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1130	1120	1	17	

SAMPLE DUPLICATE: 871225

Parameter	Units	60105524008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1250	1230	2	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WET/30831 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

SAMPLE DUPLICATE: 871038

Parameter	Units	60105524008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WETA/2189 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 86213 — Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/19/11 14:25	
Sulfate	mg/L	ND	1.0	09/19/11 14:25	

LABORATORY CONTROL SAMPLE: 86214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.5	90	90-110	
Sulfate	mg/L	15	15.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 86203 — 86215

Parameter	Units	60105524008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	340	500	500	798	807	92	93	90-110	1	10	
Sulfate	mg/L	136	300	300	448	450	104	105	90-110	.6	10	

MATRIX SPIKE SAMPLE: 86216

Parameter	Units	60105069001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	3430	2500	5850	97	90-110	
Sulfate	mg/L	337	375	733	106	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WETA/17560 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 873850 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/12/11 11:14	
Nitrogen, Nitrite	mg/L	ND	0.10	09/12/11 11:14	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/12/11 11:14	

LABORATORY CONTROL SAMPLE: 873851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	100	90-110	
Nitrogen, Nitrite	mg/L	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 873852

Parameter	Units	60105524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.7	107	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.30	66	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 873854

Parameter	Units	60105524008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.51	1.6	2.3	114	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.51	2	2.8	112	90-110	M0

SAMPLE DUPLICATE: 873853

Parameter	Units	60105524003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

QC Batch: WETA/17550 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

METHOD BLANK: 873044 Matrix: Water
Associated Lab Samples: 60105524001, 60105524002, 60105524003, 60105524004, 60105524005, 60105524006, 60105524007, 60105524008, 60105524009, 60105524010, 60105524011, 60105524012, 60105524013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/12/11 08:50	

LABORATORY CONTROL SAMPLE: 873045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	95	80-120	

MATRIX SPIKE SAMPLE: 873047

Parameter	Units	60105524008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.6	5	8.4	95	80-120	

SAMPLE DUPLICATE: 873046

Parameter	Units	60105524005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	25.0	21.6	15	25	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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ORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis
PASI-S	Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: MSV/40075

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40077

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limitS for Methane. The matrix spike and matrix spike duplicate were analyzed four days outside of the seven day hold time, due to instrument error. The parent sample was analyzed and reported within method hold criteria.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H6	Analysis initiated more than 15 minutes after sample collection.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105524001	MW-19-090111	RSK 175	AIR/13100		
60105524002	MW-9-090111	RSK 175	AIR/13100		
60105524003	MW-11A-090111	RSK 175	AIR/13102		
60105524004	MW-13-090111	RSK 175	AIR/13102		
60105524005	MW-23-090111	RSK 175	AIR/13102		
60105524006	MW-03-090111	RSK 175	AIR/13102		
60105524007	MW-2A-090211	RSK 175	AIR/13125		
60105524008	MW-2B-090211	RSK 175	AIR/13125		
60105524009	MW-2B-090211-AD	RSK 175	AIR/13106		
60105524010	MW-39B-090211	RSK 175	AIR/13106		
60105524011	OBW-2-090211	RSK 175	AIR/13106		
60105524012	MW-39A-090211	RSK 175	AIR/13106		
60105524013	LPZ-2-090211	RSK 175	AIR/13106		
60105524001	MW-19-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524002	MW-9-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524003	MW-11A-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524004	MW-13-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524005	MW-23-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524006	MW-03-090111	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524007	MW-2A-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524008	MW-2B-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524009	MW-2B-090211-AD	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524010	MW-39B-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524011	OBW-2-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524012	MW-39A-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524013	LPZ-2-090211	EPA 3010	MPRP/15229	EPA 6010	ICP/13238
60105524001	MW-19-090111	EPA 5030B/8260	MSV/40075		
60105524002	MW-9-090111	EPA 5030B/8260	MSV/39972		
60105524002	MW-9-090111	EPA 5030B/8260	MSV/40075		
60105524003	MW-11A-090111	EPA 5030B/8260	MSV/39972		
60105524003	MW-11A-090111	EPA 5030B/8260	MSV/40075		
60105524004	MW-13-090111	EPA 5030B/8260	MSV/39972		
60105524004	MW-13-090111	EPA 5030B/8260	MSV/40075		
60105524005	MW-23-090111	EPA 5030B/8260	MSV/39972		
60105524005	MW-23-090111	EPA 5030B/8260	MSV/40075		
60105524006	MW-03-090111	EPA 5030B/8260	MSV/39972		
60105524006	MW-03-090111	EPA 5030B/8260	MSV/40075		
60105524007	MW-2A-090211	EPA 5030B/8260	MSV/39972		
60105524008	MW-2B-090211	EPA 5030B/8260	MSV/39972		
60105524009	MW-2B-090211-AD	EPA 5030B/8260	MSV/39972		
60105524010	MW-39B-090211	EPA 5030B/8260	MSV/39972		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105524011	OBW-2-090211	EPA 5030B/8260	MSV/39972		
60105524011	OBW-2-090211	EPA 5030B/8260	MSV/40077		
60105524012	MW-39A-090211	EPA 5030B/8260	MSV/39972		
60105524012	MW-39A-090211	EPA 5030B/8260	MSV/40077		
60105524013	LPZ-2-090211	EPA 5030B/8260	MSV/40077		
60105524014	TRIP BLANK-090211	EPA 5030B/8260	MSV/39972		
60105524001	MW-19-090111	SM 2320B	WET/30906		
60105524002	MW-9-090111	SM 2320B	WET/30906		
60105524003	MW-11A-090111	SM 2320B	WET/30906		
60105524004	MW-13-090111	SM 2320B	WET/30906		
60105524005	MW-23-090111	SM 2320B	WET/30906		
60105524006	MW-03-090111	SM 2320B	WET/30906		
60105524007	MW-2A-090211	SM 2320B	WET/30906		
60105524008	MW-2B-090211	SM 2320B	WET/30906		
60105524009	MW-2B-090211-AD	SM 2320B	WET/30906		
60105524010	MW-39B-090211	SM 2320B	WET/30906		
60105524011	OBW-2-090211	SM 2320B	WET/30906		
5524012	MW-39A-090211	SM 2320B	WET/30906		
5524013	LPZ-2-090211	SM 2320B	WET/30906		
60105524001	MW-19-090111	SM 2540C	WET/30834		
60105524002	MW-9-090111	SM 2540C	WET/30834		
60105524003	MW-11A-090111	SM 2540C	WET/30834		
60105524004	MW-13-090111	SM 2540C	WET/30834		
60105524005	MW-23-090111	SM 2540C	WET/30834		
60105524006	MW-03-090111	SM 2540C	WET/30834		
60105524007	MW-2A-090211	SM 2540C	WET/30834		
60105524008	MW-2B-090211	SM 2540C	WET/30834		
60105524009	MW-2B-090211-AD	SM 2540C	WET/30834		
60105524010	MW-39B-090211	SM 2540C	WET/30834		
60105524011	OBW-2-090211	SM 2540C	WET/30834		
60105524012	MW-39A-090211	SM 2540C	WET/30834		
60105524013	LPZ-2-090211	SM 2540C	WET/30834		
60105524001	MW-19-090111	SM 4500-H+B	WET/30831		
60105524002	MW-9-090111	SM 4500-H+B	WET/30831		
60105524003	MW-11A-090111	SM 4500-H+B	WET/30831		
60105524004	MW-13-090111	SM 4500-H+B	WET/30831		
60105524005	MW-23-090111	SM 4500-H+B	WET/30831		
60105524006	MW-03-090111	SM 4500-H+B	WET/30831		
60105524007	MW-2A-090211	SM 4500-H+B	WET/30831		
60105524008	MW-2B-090211	SM 4500-H+B	WET/30831		
60105524009	MW-2B-090211-AD	SM 4500-H+B	WET/30831		
60105524010	MW-39B-090211	SM 4500-H+B	WET/30831		
60105524011	OBW-2-090211	SM 4500-H+B	WET/30831		
60105524012	MW-39A-090211	SM 4500-H+B	WET/30831		
05524013	LPZ-2-090211	SM 4500-H+B	WET/30831		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105524001	MW-19-090111	EPA 300.0	WETA/2189		
60105524002	MW-9-090111	EPA 300.0	WETA/2189		
60105524003	MW-11A-090111	EPA 300.0	WETA/2189		
60105524004	MW-13-090111	EPA 300.0	WETA/2189		
60105524005	MW-23-090111	EPA 300.0	WETA/2189		
60105524006	MW-03-090111	EPA 300.0	WETA/2189		
60105524007	MW-2A-090211	EPA 300.0	WETA/2189		
60105524008	MW-2B-090211	EPA 300.0	WETA/2189		
60105524009	MW-2B-090211-AD	EPA 300.0	WETA/2189		
60105524010	MW-39B-090211	EPA 300.0	WETA/2189		
60105524011	OBW-2-090211	EPA 300.0	WETA/2189		
60105524012	MW-39A-090211	EPA 300.0	WETA/2189		
60105524013	LPZ-2-090211	EPA 300.0	WETA/2189		
60105524001	MW-19-090111	EPA 353.2	WETA/17560		
60105524002	MW-9-090111	EPA 353.2	WETA/17560		
60105524003	MW-11A-090111	EPA 353.2	WETA/17560		
60105524004	MW-13-090111	EPA 353.2	WETA/17560		
60105524005	MW-23-090111	EPA 353.2	WETA/17560		
60105524006	MW-03-090111	EPA 353.2	WETA/17560		
60105524007	MW-2A-090211	EPA 353.2	WETA/17560		
60105524008	MW-2B-090211	EPA 353.2	WETA/17560		
60105524009	MW-2B-090211-AD	EPA 353.2	WETA/17560		
60105524010	MW-39B-090211	EPA 353.2	WETA/17560		
60105524011	OBW-2-090211	EPA 353.2	WETA/17560		
60105524012	MW-39A-090211	EPA 353.2	WETA/17560		
60105524013	LPZ-2-090211	EPA 353.2	WETA/17560		
60105524001	MW-19-090111	SM 5310C	WETA/17550		
60105524002	MW-9-090111	SM 5310C	WETA/17550		
60105524003	MW-11A-090111	SM 5310C	WETA/17550		
60105524004	MW-13-090111	SM 5310C	WETA/17550		
60105524005	MW-23-090111	SM 5310C	WETA/17550		
60105524006	MW-03-090111	SM 5310C	WETA/17550		
60105524007	MW-2A-090211	SM 5310C	WETA/17550		
60105524008	MW-2B-090211	SM 5310C	WETA/17550		
60105524009	MW-2B-090211-AD	SM 5310C	WETA/17550		
60105524010	MW-39B-090211	SM 5310C	WETA/17550		
60105524011	OBW-2-090211	SM 5310C	WETA/17550		
60105524012	MW-39A-090211	SM 5310C	WETA/17550		
60105524013	LPZ-2-090211	SM 5310C	WETA/17550		
60105524001	MW-19-090111	SM 4500-CO2 D	WETA/17600		
60105524002	MW-9-090111	SM 4500-CO2 D	WETA/17600		
60105524003	MW-11A-090111	SM 4500-CO2 D	WETA/17600		
60105524004	MW-13-090111	SM 4500-CO2 D	WETA/17600		
60105524005	MW-23-090111	SM 4500-CO2 D	WETA/17600		
60105524006	MW-03-090111	SM 4500-CO2 D	WETA/17600		
60105524007	MW-2A-090211	SM 4500-CO2 D	WETA/17600		
60105524008	MW-2B-090211	SM 4500-CO2 D	WETA/17600		

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105524009	**MW-2B-090211-AD**	SM 4500-CO2 D	WETA/17600		
60105524010	**MW-39B-090211**	SM 4500-CO2 D	WETA/17600		
60105524011	**OBW-2-090211**	SM 4500-CO2 D	WETA/17600		
60105524012	**MW-39A-090211**	SM 4500-CO2 D	WETA/17600		
60105524013	**LPZ-2-090211**	SM 4500-CO2 D	WETA/17600		

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Keystone
LABORATORIES, INC.

MEMBER ACIL

23 September 2011

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60105524

Enclosed are the results of analyses for samples received by the laboratory on 09/16/11 10:15. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-19-090111	11I0839-01	Water	09/01/11 15:30	09/16/11 10:15
MW-9-090111	11I0839-02	Water	09/01/11 16:27	09/16/11 10:15
MW-11A-090111	11I0839-03	Water	09/01/11 17:37	09/16/11 10:15
MW-13-090111	11I0839-04	Water	09/01/11 18:23	09/16/11 10:15
MW-23-090111	11I0839-05	Water	09/01/11 19:13	09/16/11 10:15

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60105524
Project Manager: Jamie Slade

Reported
09/23/11 16:08

11I0834

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 60105524 **Workorder Name:** SOLUTIA GROUNDWATER **Results Requested** 9/14/2011

Report / Invoice To

Jamie Slade
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Email: jamie.slade@pacelabs.com

Subcontract To

P.O. SUB-5963

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none						Alachlor												LAB USE ONLY
1	MW-19-090111	9/1/2011 15:30	60105524001	Water	2						X												01
2	MW-9-090111	9/1/2011 16:27	60105524002	Water	2						X												02
3	MW-11A-090111	9/1/2011 17:37	60105524003	Water	2						X												03
4	MW-13-090111	9/1/2011 18:23	60105524004	Water	2						X												04
5	MW-23-090111	9/1/2011 19:13	60105524005	Water	2						X												05

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	9/15/11 1700		
2			M. Marin	9/16/11 10:15
3				
4				
5				

Comments

Thursday, September 15, 2011 10:49:01 AM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

MW-19-090111

11I0839-01 (Water)

Date Sampled:9/1/2011 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**3.03**	0.10	ug/l	1	1I12019	09/20/11	09/22/11 16:25	EPA 8141	I-05
Surrogate: 2-Nitro-m-xylene		*70.5 %*	*42-126*		"	"	"	"	*I-05*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

MW-9-090111

1110839-02 (Water)

Date Sampled:9/1/2011 4:27:00PM

Keystone Laboratories, Inc. - Newton

Determination of Nitrogen/Phosphorus Herbicides & Insecticides

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Alachlor	**0.20**	0.10	ug/l	1	1112019	09/20/11	09/22/11 17:04	EPA 8141	I-05
Surrogate: 2-Nitro-m-xylene		*84.7 %*	*42-126*		"	"	"	"	*I-05*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

MW-11A-090111

11I0839-03 (Water)

Date Sampled:9/1/2011 5:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**0.43**	0.10	ug/l	1	1I12019	09/20/11	09/22/11 17:43	EPA 8141	I-05
Surrogate: 2-Nitro-m-xylene		*85.3 %*	*42-126*		"	"	"	"	*I-05*

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

MW-13-090111

11I0839-04 (Water)

Date Sampled:9/1/2011 6:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**0.19**	0.10	ug/l	1	1I12019	09/20/11	09/22/11 18:22	EPA 8141	I-05
Surrogate: 2-Nitro-m-xylene		*85.9 %*	*42-126*		"	"	"	"	*I-05*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

MW-23-090111

11I0839-05 (Water)

Date Sampled:9/1/2011 7:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**0.23**	0.10	ug/l	1	1I12019	09/20/11	09/22/11 19:01	EPA 8141	I-05
Surrogate: 2-Nitro-m-xylene		*80.8 %*	*42-126*		"	"	"	"	*I-05*

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1I12019 - 3510C NP/OC Sep Fnl										
Blank (1I12019-BLK1)				Prepared: 09/19/01 Analyzed: 09/22/11						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*5.54*		"	*9.83200*		*56.3*	*42-126*			
LCS (1I12019-BS1)				Prepared: 09/19/01 Analyzed: 09/22/11						
Alachlor	2.270	0.10	ug/l	2.75000		82.5	65-135			
Surrogate: 2-Nitro-m-xylene	*7.16*		"	*9.83200*		*72.9*	*42-126*			
LCS Dup (1I12019-BSD1)				Prepared: 09/19/01 Analyzed: 09/22/11						
Alachlor	2.480	0.10	ug/l	2.75000		90.2	65-135	8.84	30	
Surrogate: 2-Nitro-m-xylene	*7.76*		"	*9.83200*		*79.0*	*42-126*			
Reference (1I12019-SRM1)				Prepared: 09/19/01 Analyzed: 09/22/11						
Alachlor	2.790	0.10	ug/l	2.75000		101	70-130			
te: 2-Nitro-m-xylene	*9.98*		"	*9.83200*		*102*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2011
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2011
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

Notes and Definitions

I-05	Sample received at laboratory past hold time for this analyte.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60105524 Project Manager: Jamie Slade	Reported 09/23/11 16:08

Sue Thompson

Sue Thompson
Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

September 29, 2011

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706 REVISION, REV-1 9/29/11, Sample IDs for 60105706 002 and 003 corrected

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on September 08, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60105706001	**LPZ-5-090611**	Water	09/06/11 11:38	09/08/11 08:10
60105706002	**OBW-1-090611**	Water	09/06/11 14:00	09/08/11 08:10
60105706003	**REC-4-090612**	Water	09/06/11 15:40	09/08/11 08:10
60105706004	**MW-24A-090611**	Water	09/06/11 18:30	09/08/11 08:10
60105706005	**MW-24B-090611**	Water	09/06/11 17:20	09/08/11 08:10
60105706006	**TRIP BLANK**	Water	09/06/11 00:00	09/08/11 08:10

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60105706001	LPZ-5-090611	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105706002	OBW-1-090611	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105706003	REC-4-090612	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105706004	MW-24A-090611	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105706005	**MW-24B-090611**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	BRM	22	PASI-K
		SM 2320B	SRM1	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	SRM1	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60105706006	**TRIP BLANK**	EPA 5030B/8260	HMW	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: LPZ-5-090611 **Lab ID: 60105706001** Collected: 09/06/11 11:38 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**66.0**	ug/L	10.0	1		09/14/11 11:27	74-84-0	
Ethene	**209**	ug/L	10.0	1		09/14/11 11:27	74-85-1	
Methane	**11100**	ug/L	10.0	1		09/14/11 11:27	74-82-8	1e,E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**2020**	ug/L	50.0	1	09/13/11 12:45	09/14/11 13:34	7439-89-6	
Manganese	**1580**	ug/L	5.0	1	09/13/11 12:45	09/14/11 13:34	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/20/11 18:34	67-64-1	
Benzene	ND	ug/L	1.0	1		09/20/11 18:34	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/20/11 18:34	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/20/11 18:34	108-90-7	
Chloroform	**1.0**	ug/L	1.0	1		09/20/11 18:34	67-66-3	B+
1,2-Dichloroethane	ND	ug/L	1.0	1		09/20/11 18:34	107-06-2	
cis-1,2-Dichloroethene	**12.0**	ug/L	1.0	1		09/20/11 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 18:34	156-60-5	L3
Ethylbenzene	ND	ug/L	1.0	1		09/20/11 18:34	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/20/11 18:34	74-88-4	
Methylene chloride	**2.0**	ug/L	1.0	1		09/20/11 18:34	75-09-2	L1,Z3
Tetrachloroethene	ND	ug/L	1.0	1		09/20/11 18:34	127-18-4	
Toluene	**157**	ug/L	1.0	1		09/20/11 18:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/20/11 18:34	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/20/11 18:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/20/11 18:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/20/11 18:34	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1		09/20/11 18:34	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		09/20/11 18:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	1		09/20/11 18:34	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/20/11 18:34	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/20/11 18:34		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1450**	mg/L	20.0	1		09/20/11 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2670**	mg/L	5.0	1		09/13/11 08:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**9.2**	Std. Units	0.10	1		09/09/11 17:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**312**	mg/L	50.0	50		09/22/11 17:14	16887-00-6	
Sulfate	**18.4**	mg/L	2.0	2		09/23/11 15:18	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: LPZ-5-090611 **Lab ID: 60105706001** Collected: 09/06/11 11:38 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/20/11 13:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/20/11 13:46		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/20/11 13:46		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**372**	mg/L	10.0	1		09/15/11 20:51	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1210**	mg/L	20.0	1		09/20/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: OBW-1-090611 **Lab ID: 60105706002** Collected: 09/06/11 14:00 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**20.3**	ug/L	10.0	1		09/14/11 10:25	74-84-0	
Ethene	**49.0**	ug/L	10.0	1		09/14/11 10:25	74-85-1	
Methane	**703**	ug/L	10.0	1		09/14/11 10:25	74-82-8	1e
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	09/13/11 12:45	09/14/11 13:37	7439-89-6	
Manganese	ND	ug/L	5.0	1	09/13/11 12:45	09/14/11 13:37	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/20/11 18:50	67-64-1	
Benzene	ND	ug/L	1.0	1		09/20/11 18:50	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/20/11 18:50	75-15-0	
Chlorobenzene	**4.5**	ug/L	1.0	1		09/20/11 18:50	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/20/11 18:50	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/20/11 18:50	107-06-2	
cis-1,2-Dichloroethene	**5.8**	ug/L	1.0	1		09/20/11 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 18:50	156-60-5	L3
Ethylbenzene	ND	ug/L	1.0	1		09/20/11 18:50	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/20/11 18:50	74-88-4	
Methylene chloride	**2.4**	ug/L	1.0	1		09/20/11 18:50	75-09-2	L1,Z3
Tetrachloroethene	**60.5**	ug/L	1.0	1		09/20/11 18:50	127-18-4	
Toluene	**2.1**	ug/L	1.0	1		09/20/11 18:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/20/11 18:50	71-55-6	
Trichloroethene	**3.6**	ug/L	1.0	1		09/20/11 18:50	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/20/11 18:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/20/11 18:50	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1		09/20/11 18:50	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		09/20/11 18:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		09/20/11 18:50	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		09/20/11 18:50	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/20/11 18:50		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**74.1**	mg/L	20.0	1		09/20/11 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**985**	mg/L	5.0	1		09/13/11 08:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**11.7**	Std. Units	0.10	1		09/09/11 17:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**384**	mg/L	50.0	50		09/22/11 18:00	16887-00-6	
Sulfate	**131**	mg/L	20.0	20		09/22/11 17:44	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: OBW-1-090611 **Lab ID: 60105706002** Collected: 09/06/11 14:00 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/20/11 13:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/20/11 13:46		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/20/11 13:46		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**13.4**	mg/L	1.0	1		09/15/11 21:05	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**51.8**	mg/L	20.0	1		09/20/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: REC-4-090612 **Lab ID: 60105706003** Collected: 09/06/11 15:40 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/14/11 10:46	74-84-0	
Ethene	**10.8**	ug/L	10.0	1		09/14/11 10:46	74-85-1	
Methane	**289**	ug/L	10.0	1		09/14/11 10:46	74-82-8	1e
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**8940**	ug/L	50.0	1	09/13/11 12:45	09/14/11 13:40	7439-89-6	
Manganese	**2350**	ug/L	5.0	1	09/13/11 12:45	09/14/11 13:40	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/20/11 19:07	67-64-1	
Benzene	ND	ug/L	1.0	1		09/20/11 19:07	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/20/11 19:07	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/20/11 19:07	108-90-7	
Chloroform	**1.0**	ug/L	1.0	1		09/20/11 19:07	67-66-3	B+
1,2-Dichloroethane	ND	ug/L	1.0	1		09/20/11 19:07	107-06-2	
cis-1,2-Dichloroethene	**2.0**	ug/L	1.0	1		09/20/11 19:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 19:07	156-60-5	L3
Ethylbenzene	ND	ug/L	1.0	1		09/20/11 19:07	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/20/11 19:07	74-88-4	
Methylene chloride	**3.4**	ug/L	1.0	1		09/20/11 19:07	75-09-2	L1,Z3
Tetrachloroethene	**2.6**	ug/L	1.0	1		09/20/11 19:07	127-18-4	
Toluene	ND	ug/L	1.0	1		09/20/11 19:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/20/11 19:07	71-55-6	
Trichloroethene	**4.0**	ug/L	1.0	1		09/20/11 19:07	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/20/11 19:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/20/11 19:07	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-113	1		09/20/11 19:07	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/20/11 19:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		09/20/11 19:07	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/20/11 19:07	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/20/11 19:07		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**475**	mg/L	20.0	1		09/20/11 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1410**	mg/L	5.0	1		09/13/11 08:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/09/11 17:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**415**	mg/L	50.0	50		09/22/11 18:45	16887-00-6	
Sulfate	**230**	mg/L	50.0	50		09/22/11 18:45	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: REC-4-090612 **Lab ID: 60105706003** Collected: 09/06/11 15:40 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/20/11 13:49		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/20/11 13:49		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/20/11 13:49		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.5**	mg/L	1.0	1		09/15/11 21:19	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**513**	mg/L	20.0	1		09/20/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: MW-24A-090611 **Lab ID: 60105706004** Collected: 09/06/11 18:30 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/14/11 11:06	74-84-0	
Ethene	ND	ug/L	10.0	1		09/14/11 11:06	74-85-1	
Methane	**4020**	ug/L	10.0	1		09/14/11 11:06	74-82-8	1e
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**33400**	ug/L	50.0	1	09/13/11 12:45	09/14/11 13:50	7439-89-6	
Manganese	**2430**	ug/L	5.0	1	09/13/11 12:45	09/14/11 13:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/20/11 19:24	67-64-1	
Benzene	**91.8**	ug/L	1.0	1		09/20/11 19:24	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/20/11 19:24	75-15-0	
Chlorobenzene	**83.7**	ug/L	1.0	1		09/20/11 19:24	108-90-7	
Chloroform	**1.1**	ug/L	1.0	1		09/20/11 19:24	67-66-3	B+
1,2-Dichloroethane	ND	ug/L	1.0	1		09/20/11 19:24	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 19:24	156-60-5	L3
Ethylbenzene	ND	ug/L	1.0	1		09/20/11 19:24	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/20/11 19:24	74-88-4	
Methylene chloride	**3.1**	ug/L	1.0	1		09/20/11 19:24	75-09-2	L1,Z3
Tetrachloroethene	ND	ug/L	1.0	1		09/20/11 19:24	127-18-4	
Toluene	ND	ug/L	1.0	1		09/20/11 19:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/20/11 19:24	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/20/11 19:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/20/11 19:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/20/11 19:24	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-113	1		09/20/11 19:24	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		09/20/11 19:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		09/20/11 19:24	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/20/11 19:24	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/20/11 19:24		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**674**	mg/L	20.0	1		09/20/11 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**814**	mg/L	5.0	1		09/13/11 08:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/09/11 17:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**98.8**	mg/L	20.0	20		09/23/11 15:49	16887-00-6	
Sulfate	ND	mg/L	1.0	1		09/23/11 15:33	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: MW-24A-090611 **Lab ID: 60105706004** Collected: 09/06/11 18:30 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/20/11 13:50		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/20/11 13:50		
Nitrogen, NO2 plus NO3	**0.10**	mg/L	0.10	1		09/20/11 13:50		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**22.7**	mg/L	1.0	1		09/15/11 21:34	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**728**	mg/L	20.0	1		09/20/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: MW-24B-090611 **Lab ID: 60105706005** Collected: 09/06/11 17:20 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**12.1**	ug/L	10.0	1		09/14/11 11:17	74-84-0	
Ethene	ND	ug/L	10.0	1		09/14/11 11:17	74-85-1	
Methane	**9240**	ug/L	10.0	1		09/14/11 11:17	74-82-8	1e,E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**41000**	ug/L	50.0	1	09/13/11 12:45	09/14/11 13:53	7439-89-6	
Manganese	**763**	ug/L	5.0	1	09/13/11 12:45	09/14/11 13:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/20/11 19:40	67-64-1	
Benzene	**161**	ug/L	1.0	1		09/20/11 19:40	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/20/11 19:40	75-15-0	
Chlorobenzene	**30.0**	ug/L	1.0	1		09/20/11 19:40	108-90-7	
Chloroform	**1.0**	ug/L	1.0	1		09/20/11 19:40	67-66-3	B+
1,2-Dichloroethane	ND	ug/L	1.0	1		09/20/11 19:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/20/11 19:40	156-60-5	L3
Ethylbenzene	**5.0**	ug/L	1.0	1		09/20/11 19:40	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/20/11 19:40	74-88-4	
Methylene chloride	**3.1**	ug/L	1.0	1		09/20/11 19:40	75-09-2	L1,Z3
Tetrachloroethene	ND	ug/L	1.0	1		09/20/11 19:40	127-18-4	
Toluene	**1.7**	ug/L	1.0	1		09/20/11 19:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/20/11 19:40	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/20/11 19:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/20/11 19:40	75-01-4	
Xylene (Total)	**6.8**	ug/L	3.0	1		09/20/11 19:40	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-113	1		09/20/11 19:40	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		09/20/11 19:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		09/20/11 19:40	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/20/11 19:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/20/11 19:40		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**874**	mg/L	20.0	1		09/20/11 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1180**	mg/L	5.0	1		09/13/11 08:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/09/11 17:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**193**	mg/L	20.0	20		09/22/11 19:46	16887-00-6	
Sulfate	**1.0**	mg/L	1.0	1		09/22/11 19:31	14808-79-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: MW-24B-090611 **Lab ID: 60105706005** Collected: 09/06/11 17:20 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/20/11 13:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/20/11 13:51		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/20/11 13:51		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**39.5**	mg/L	1.0	1		09/15/11 21:48	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**908**	mg/L	20.0	1		09/20/11 15:00	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Sample: TRIP BLANK **Lab ID: 60105706006** Collected: 09/06/11 00:00 Received: 09/08/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/18/11 15:12	67-64-1	
Benzene	ND	ug/L	1.0	1		09/18/11 15:12	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/18/11 15:12	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/18/11 15:12	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/18/11 15:12	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/18/11 15:12	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/18/11 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/18/11 15:12	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/18/11 15:12	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/18/11 15:12	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		09/18/11 15:12	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/18/11 15:12	127-18-4	
Toluene	ND	ug/L	1.0	1		09/18/11 15:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/18/11 15:12	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/18/11 15:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/18/11 15:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/18/11 15:12	1330-20-7	
4-Bromofluorobenzene (S)	107	%	87-113	1		09/18/11 15:12	460-00-4	
Dibromofluoromethane (S)	108	%	86-112	1		09/18/11 15:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		09/18/11 15:12	17060-07-0	
Toluene-d8 (S)	106	%	90-110	1		09/18/11 15:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/18/11 15:12		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: AIR/13131 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 1053249 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/14/11 10:14	
Ethene	ug/L	ND	10.0	09/14/11 10:14	
Methane	ug/L	ND	10.0	09/14/11 10:14	

LABORATORY CONTROL SAMPLE & LCSD: 1053250 1053251

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	104	118	91	104	70-130	13	30	
Ethene	ug/L	106	99.2	111	93	104	70-130	11	30	
Methane	ug/L	60.7	58.6	61.2	97	101	70-130	4	30	

PLE DUPLICATE: 1054171

Parameter	Units	60105706002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	20.3	25.8	24	30	
Ethene	ug/L	49.0	59.5	19	30	
Methane	ug/L	703	918	26	30	1e

SAMPLE DUPLICATE: 1054643

Parameter	Units	10168951001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	2950	3160	7	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: MPRP/15279 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 874278 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	09/14/11 13:14	
Manganese	ug/L	ND	5.0	09/14/11 13:14	

LABORATORY CONTROL SAMPLE: 874279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 874280 874281

Parameter	Units	60105687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Iron	ug/L	3540	10000	10000	13100	13300	96	97	75-125	1	20	
Manganese	ug/L	62.5	1000	1000	1040	1050	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: MSV/40140
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105706006

METHOD BLANK: 877402
Matrix: Water
Associated Lab Samples: 60105706006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/18/11 14:03	
1,2-Dichloroethane	ug/L	ND	1.0	09/18/11 14:03	
Acetone	ug/L	ND	10.0	09/18/11 14:03	
Benzene	ug/L	ND	1.0	09/18/11 14:03	
Carbon disulfide	ug/L	ND	5.0	09/18/11 14:03	
Chlorobenzene	ug/L	ND	1.0	09/18/11 14:03	
Chloroform	ug/L	ND	1.0	09/18/11 14:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/18/11 14:03	
Ethylbenzene	ug/L	ND	1.0	09/18/11 14:03	
Iodomethane	ug/L	ND	10.0	09/18/11 14:03	
Methylene chloride	ug/L	ND	1.0	09/18/11 14:03	
Tetrachloroethene	ug/L	ND	1.0	09/18/11 14:03	
Toluene	ug/L	ND	1.0	09/18/11 14:03	
-1,2-Dichloroethene	ug/L	ND	1.0	09/18/11 14:03	
loroethene	ug/L	ND	1.0	09/18/11 14:03	
Vinyl chloride	ug/L	ND	1.0	09/18/11 14:03	
Xylene (Total)	ug/L	ND	3.0	09/18/11 14:03	
1,2-Dichloroethane-d4 (S)	%	104	82-119	09/18/11 14:03	
4-Bromofluorobenzene (S)	%	105	87-113	09/18/11 14:03	
Dibromofluoromethane (S)	%	106	86-112	09/18/11 14:03	
Toluene-d8 (S)	%	107	90-110	09/18/11 14:03	

LABORATORY CONTROL SAMPLE: 877403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.9	99	82-119	
1,2-Dichloroethane	ug/L	20	21.1	105	77-125	
Acetone	ug/L	100	109	109	18-192	
Benzene	ug/L	20	18.0	90	82-117	
Carbon disulfide	ug/L	20	19.1	96	75-138	
Chlorobenzene	ug/L	20	20.0	100	83-121	
Chloroform	ug/L	20	18.9	95	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	80-119	
Ethylbenzene	ug/L	20	19.6	98	79-121	
Iodomethane	ug/L	20	25.1	125	14-169	
Methylene chloride	ug/L	20	19.7	99	75-118	
Tetrachloroethene	ug/L	20	20.6	103	80-124	
Toluene	ug/L	20	20.8	104	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.9	99	79-120	
Trichloroethene	ug/L	20	18.6	93	76-122	
chloride	ug/L	20	16.1	80	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

LABORATORY CONTROL SAMPLE: 877403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	63.7	106	75-120	
1,2-Dichloroethane-d4 (S)	%			103	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			106	86-112	
Toluene-d8 (S)	%			96	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: MSV/40186 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 878040 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/20/11 18:17	
1,2-Dichloroethane	ug/L	ND	1.0	09/20/11 18:17	
Acetone	ug/L	ND	10.0	09/20/11 18:17	
Benzene	ug/L	ND	1.0	09/20/11 18:17	
Carbon disulfide	ug/L	ND	5.0	09/20/11 18:17	
Chlorobenzene	ug/L	ND	1.0	09/20/11 18:17	
Chloroform	ug/L	1.2	1.0	09/20/11 18:17	B+
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/20/11 18:17	
Ethylbenzene	ug/L	ND	1.0	09/20/11 18:17	
Iodomethane	ug/L	ND	10.0	09/20/11 18:17	
Methylene chloride	ug/L	ND	1.0	09/20/11 18:17	
Tetrachloroethene	ug/L	ND	1.0	09/20/11 18:17	
Toluene	ug/L	ND	1.0	09/20/11 18:17	
-1,2-Dichloroethene	ug/L	ND	1.0	09/20/11 18:17	
loroethene	ug/L	ND	1.0	09/20/11 18:17	
Vinyl chloride	ug/L	ND	1.0	09/20/11 18:17	
Xylene (Total)	ug/L	ND	3.0	09/20/11 18:17	
1,2-Dichloroethane-d4 (S)	%	102	82-119	09/20/11 18:17	
4-Bromofluorobenzene (S)	%	100	87-113	09/20/11 18:17	
Dibromofluoromethane (S)	%	101	86-112	09/20/11 18:17	
Toluene-d8 (S)	%	99	90-110	09/20/11 18:17	

LABORATORY CONTROL SAMPLE: 878041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	82-119	
1,2-Dichloroethane	ug/L	20	19.1	96	77-125	
Acetone	ug/L	100	79.2	79	18-192	
Benzene	ug/L	20	18.2	91	82-117	
Carbon disulfide	ug/L	20	20.9	105	75-138	
Chlorobenzene	ug/L	20	18.0	90	83-121	
Chloroform	ug/L	20	18.7	93	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	80-119	
Ethylbenzene	ug/L	20	18.9	94	79-121	
Iodomethane	ug/L	20	19.6	98	14-169	
Methylene chloride	ug/L	20	24.0	120	75-118	L0
Tetrachloroethene	ug/L	20	20.5	103	80-124	
Toluene	ug/L	20	17.8	89	80-120	
trans-1,2-Dichloroethene	ug/L	20	25.5	127	79-120	L0
Trichloroethene	ug/L	20	19.4	97	76-122	
l chloride	ug/L	20	18.8	94	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

LABORATORY CONTROL SAMPLE: 878041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	55.1	92	75-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			100	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WET/31040 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 878020 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/20/11 14:26	

LABORATORY CONTROL SAMPLE: 878021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	477	95	90-110	

SAMPLE DUPLICATE: 878022

Parameter	Units	60105706001 Result	Dup Result	RPD	Max RPD	Qualifiers
linity, Total as CaCO3	mg/L	1450	1460	1	9	

SAMPLE DUPLICATE: 878023

Parameter	Units	60106022004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	486	483	1	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WET/30916 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 873993 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/13/11 08:29	

SAMPLE DUPLICATE: 873994

Parameter	Units	60105706002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	985	995	1	17	

SAMPLE DUPLICATE: 873995

Parameter	Units	60105926005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	475	471	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WET/30897 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

SAMPLE DUPLICATE: 873241

Parameter	Units	60105706001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.2	9.1	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WETA/17643 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 879888 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/22/11 14:26	
Sulfate	mg/L	ND	1.0	09/22/11 14:26	

METHOD BLANK: 881492 Matrix: Water
Associated Lab Samples: 60105706001, 60105706004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/23/11 14:02	
Sulfate	mg/L	ND	1.0	09/23/11 14:02	

LABORATORY CONTROL SAMPLE: 879889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	100	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

LABORATORY CONTROL SAMPLE: 881493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878547 878548

Parameter	Units	60105265003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.3	25	25	65.9	67.7	106	114	64-118	3	12	
Sulfate	mg/L	9.5	5	5	14.4	14.4	99	98	61-119	0	10	

MATRIX SPIKE SAMPLE: 878549

Parameter	Units	60105358001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	18.0	10	28.8	108	64-118	
Sulfate	mg/L	14.0	10	24.3	103	61-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WETA/17614 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 877263 — Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/20/11 13:40	
Nitrogen, Nitrite	mg/L	ND	0.10	09/20/11 13:40	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/20/11 13:40	

LABORATORY CONTROL SAMPLE: 877264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	105	90-110	
Nitrogen, Nitrite	mg/L	.4	0.44	109	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	106	90-110	

RIX SPIKE SAMPLE: 877265

Parameter	Units	60105611001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	29.7	16	45.1	97	90-110	
Nitrogen, Nitrite	mg/L	ND	4	4.0	97	90-110	
Nitrogen, NO2 plus NO3	mg/L	29.8	20	49.1	97	90-110	

MATRIX SPIKE SAMPLE: 877266

Parameter	Units	60106022005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.8	114	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.40	98	90-110	
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.2	111	90-110	M0

SAMPLE DUPLICATE: 877267

Parameter	Units	60106022006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	.042J		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

QC Batch: WETA/17594 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

METHOD BLANK: 875584 Matrix: Water
Associated Lab Samples: 60105706001, 60105706002, 60105706003, 60105706004, 60105706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/15/11 19:12	

LABORATORY CONTROL SAMPLE: 875585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 875587

Parameter	Units	5052539005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	5	6.1	100	80-120	

SAMPLE DUPLICATE: 875586

Parameter	Units	5052207013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	6.6	6.8	2	25	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/40140

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40186

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample was analyzed by RSK 175 within the recommended holding time but had QC failures. The reported results were analyzed outside the recommended holding time and confirmed the original analysis.
B+	Analyte was detected in the associated method blank as well as in the sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H6	Analysis initiated more than 15 minutes after sample collection.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
Z3	Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105706001	LPZ-5-090611	RSK 175	AIR/13131		
60105706002	OBW-1-090611	RSK 175	AIR/13131		
60105706003	REC-4-090612	RSK 175	AIR/13131		
60105706004	MW-24A-090611	RSK 175	AIR/13131		
60105706005	MW-24B-090611	RSK 175	AIR/13131		
60105706001	LPZ-5-090611	EPA 3010	MPRP/15279	EPA 6010	ICP/13273
60105706002	OBW-1-090611	EPA 3010	MPRP/15279	EPA 6010	ICP/13273
60105706003	REC-4-090612	EPA 3010	MPRP/15279	EPA 6010	ICP/13273
60105706004	MW-24A-090611	EPA 3010	MPRP/15279	EPA 6010	ICP/13273
60105706005	MW-24B-090611	EPA 3010	MPRP/15279	EPA 6010	ICP/13273
60105706001	LPZ-5-090611	EPA 5030B/8260	MSV/40186		
60105706002	OBW-1-090611	EPA 5030B/8260	MSV/40186		
60105706003	REC-4-090612	EPA 5030B/8260	MSV/40186		
60105706004	MW-24A-090611	EPA 5030B/8260	MSV/40186		
60105706005	MW-24B-090611	EPA 5030B/8260	MSV/40186		
60105706006	TRIP BLANK	EPA 5030B/8260	MSV/40140		
60105706001	LPZ-5-090611	SM 2320B	WET/31040		
60105706002	OBW-1-090611	SM 2320B	WET/31040		
60105706003	REC-4-090612	SM 2320B	WET/31040		
60105706004	MW-24A-090611	SM 2320B	WET/31040		
60105706005	MW-24B-090611	SM 2320B	WET/31040		
60105706001	LPZ-5-090611	SM 2540C	WET/30916		
60105706002	OBW-1-090611	SM 2540C	WET/30916		
60105706003	REC-4-090612	SM 2540C	WET/30916		
60105706004	MW-24A-090611	SM 2540C	WET/30916		
60105706005	MW-24B-090611	SM 2540C	WET/30916		
60105706001	LPZ-5-090611	SM 4500-H+B	WET/30897		
60105706002	OBW-1-090611	SM 4500-H+B	WET/30897		
60105706003	REC-4-090612	SM 4500-H+B	WET/30897		
60105706004	MW-24A-090611	SM 4500-H+B	WET/30897		
60105706005	MW-24B-090611	SM 4500-H+B	WET/30897		
60105706001	LPZ-5-090611	EPA 300.0	WETA/17643		
60105706002	OBW-1-090611	EPA 300.0	WETA/17643		
60105706003	REC-4-090612	EPA 300.0	WETA/17643		
60105706004	MW-24A-090611	EPA 300.0	WETA/17643		
60105706005	MW-24B-090611	EPA 300.0	WETA/17643		
60105706001	LPZ-5-090611	EPA 353.2	WETA/17614		
60105706002	OBW-1-090611	EPA 353.2	WETA/17614		
60105706003	REC-4-090612	EPA 353.2	WETA/17614		
60105706004	MW-24A-090611	EPA 353.2	WETA/17614		
60105706005	MW-24B-090611	EPA 353.2	WETA/17614		
60105706001	LPZ-5-090611	SM 5310C	WETA/17594		
60105706002	OBW-1-090611	SM 5310C	WETA/17594		
60105706003	REC-4-090612	SM 5310C	WETA/17594		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60105706

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60105706004	**MW-24A-090611**	SM 5310C	WETA/17594		
60105706005	**MW-24B-090611**	SM 5310C	WETA/17594		
60105706001	**LPZ-5-090611**	SM 4500-CO2 D	WETA/17645		
60105706002	**OBW-1-090611**	SM 4500-CO2 D	WETA/17645		
60105706003	**REC-4-090612**	SM 4500-CO2 D	WETA/17645		
60105706004	**MW-24A-090611**	SM 4500-CO2 D	WETA/17645		
60105706005	**MW-24B-090611**	SM 4500-CO2 D	WETA/17645		

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Per Larry Rosen two sample ID corrections, OPW to OBW and REC-1 to REC-4. 9/27/11 JLS.

Jamie Slade

9/9/11

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November 08, 2011

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834 REVISION, REV-1 11/8/11, Sample ID corrections for samples 60106834 006 and 60106834 007

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
a Certification #: 118
sas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60106834001	FBCSA-MW-5-092211	Water	09/22/11 11:34	09/24/11 07:30
60106834002	FBCSA-MW-5-092211-AD	Water	09/22/11 11:34	09/24/11 07:30
60106834003	VW-1-092211	Water	09/22/11 14:42	09/24/11 07:30
60106834004	VW-2B-092211	Water	09/22/11 15:13	09/24/11 07:30
60106834005	VW-2-092311	Water	09/23/11 06:58	09/24/11 07:30
60106834006	MW-25B-092311	Water	09/23/11 08:37	09/24/11 07:30
60106834007	MW-25A-092311	Water	09/23/11 10:45	09/24/11 07:30
60106834008	REC-1-092311	Water	09/23/11 12:00	09/24/11 07:30
60106834009	TB-092211	Water	09/22/11 00:00	09/24/11 07:30

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60106834001	FBCSA-MW-5-092211	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	AJM, JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834002	FBCSA-MW-5-092211-AD	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	AJM, JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834003	VW-1-092211	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834004	VW-2B-092211	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	AJM, JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
06834005	VW-2-092311	RSK 175	SK4	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834006	**MW-25B-092311**	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834007	**MW-25A-092311**	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834008	**REC-1-092311**	RSK 175	SK4	3	PASI-M
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	KLB	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	AJM, JPF	2	PASI-K
		EPA 353.2	AJM	3	PASI-K
		SM 5310C	LAJ	1	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60106834009	**TB-092211**	EPA 5030B/8260	JDM	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: FBCSA-MW-5-092211 **Lab ID: 60106834001** Collected: 09/22/11 11:34 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/28/11 13:35	74-84-0	
Ethene	ND	ug/L	10.0	1		09/28/11 13:35	74-85-1	
Methane	**1550**	ug/L	10.0	1		09/28/11 13:35	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/29/11 13:00	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 13:00	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 13:00	75-15-0	
Chlorobenzene	**183**	ug/L	1.0	1		09/29/11 13:00	108-90-7	M1
Chloroform	ND	ug/L	1.0	1		09/29/11 13:00	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 13:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 13:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 13:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 13:00	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 13:00	74-88-4	L3,M0
Methylene chloride	ND	ug/L	1.0	1		09/29/11 13:00	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/11 13:00	127-18-4	
ene	ND	ug/L	1.0	1		09/29/11 13:00	108-88-3	
-Trichloroethane	ND	ug/L	1.0	1		09/29/11 13:00	71-55-6	
ıı,chloroethene	ND	ug/L	1.0	1		09/29/11 13:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 13:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 13:00	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-113	1		09/29/11 13:00	460-00-4	
Dibromofluoromethane (S)	93	%	86-112	1		09/29/11 13:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	1		09/29/11 13:00	17060-07-0	
Toluene-d8 (S)	94	%	90-110	1		09/29/11 13:00	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 13:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**728**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**961**	mg/L	5.0	1		09/29/11 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**7.9**	mg/L	2.0	2		10/03/11 11:49	16887-00-6	
Sulfate	**190**	mg/L	50.0	50		10/02/11 18:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 19:22		H1
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 19:22		H1
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 19:22		H1

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: FBCSA-MW-5-092211 **Lab ID: 60106834001** Collected: 09/22/11 11:34 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**7.7**	mg/L	1.0	1		09/28/11 22:54	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**824**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: FBCSA-MW-5-092211-AD **Lab ID: 60106834002** Collected: 09/22/11 11:34 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/29/11 10:43	74-84-0	
Ethene	ND	ug/L	10.0	1		09/29/11 10:43	74-85-1	
Methane	**1100**	ug/L	10.0	1		09/29/11 10:43	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**10.9**	ug/L	10.0	1		09/29/11 13:46	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 13:46	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 13:46	75-15-0	
Chlorobenzene	**182**	ug/L	1.0	1		09/29/11 13:46	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 13:46	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 13:46	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 13:46	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 13:46	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 13:46	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 13:46	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/11 13:46	127-18-4	
ene	ND	ug/L	1.0	1		09/29/11 13:46	108-88-3	
-Trichloroethane	ND	ug/L	1.0	1		09/29/11 13:46	71-55-6	
richloroethene	ND	ug/L	1.0	1		09/29/11 13:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 13:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 13:46	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-113	1		09/29/11 13:46	460-00-4	
Dibromofluoromethane (S)	97	%	86-112	1		09/29/11 13:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		09/29/11 13:46	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/29/11 13:46	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 13:46		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**770**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**983**	mg/L	5.0	1		09/28/11 15:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**8.9**	mg/L	2.0	2		10/03/11 13:05	16887-00-6	
Sulfate	**175**	mg/L	50.0	50		10/02/11 19:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 10:17		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 10:17		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 10:17		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: FBCSA-MW-5-092211-AD **Lab ID: 60106834002** Collected: 09/22/11 11:34 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**8.6**	mg/L	1.0	1		09/28/11 23:22	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**871**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-1-092211 **Lab ID: 60106834003** Collected: 09/22/11 14:42 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**19.5**	ug/L	10.0	1		09/29/11 11:19	74-84-0	
Ethene	ND	ug/L	10.0	1		09/29/11 11:19	74-85-1	
Methane	**13200**	ug/L	10.0	1		09/29/11 11:19	74-82-8	E
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		09/29/11 14:02	67-64-1	
Benzene	ND	ug/L	20.0	20		09/29/11 14:02	71-43-2	
Carbon disulfide	ND	ug/L	100	20		09/29/11 14:02	75-15-0	
Chlorobenzene	**1740**	ug/L	20.0	20		09/29/11 14:02	108-90-7	
Chloroform	ND	ug/L	20.0	20		09/29/11 14:02	67-66-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		09/29/11 14:02	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		09/29/11 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		09/29/11 14:02	156-60-5	
Ethylbenzene	ND	ug/L	20.0	20		09/29/11 14:02	100-41-4	
Iodomethane	ND	ug/L	200	20		09/29/11 14:02	74-88-4	L3
Methylene chloride	ND	ug/L	20.0	20		09/29/11 14:02	75-09-2	
Tetrachloroethene	ND	ug/L	20.0	20		09/29/11 14:02	127-18-4	
ne	ND	ug/L	20.0	20		09/29/11 14:02	108-88-3	
Trichloroethane	ND	ug/L	20.0	20		09/29/11 14:02	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		09/29/11 14:02	79-01-6	
Vinyl chloride	ND	ug/L	20.0	20		09/29/11 14:02	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		09/29/11 14:02	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	20		09/29/11 14:02	460-00-4	
Dibromofluoromethane (S)	94	%	86-112	20		09/29/11 14:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	20		09/29/11 14:02	17060-07-0	
Toluene-d8 (S)	95	%	90-110	20		09/29/11 14:02	2037-26-5	
Preservation pH	**1.0**		0.10	20		09/29/11 14:02		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**970**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1030**	mg/L	5.0	1		09/28/11 15:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**40.6**	mg/L	5.0	5		10/03/11 13:35	16887-00-6	
Sulfate	**1.2**	mg/L	1.0	1		10/04/11 14:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 10:23		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 10:23		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 10:23		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-1-092211 **Lab ID: 60106834003** Collected: 09/22/11 14:42 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**13.1**	mg/L	1.0	1		09/28/11 23:36	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1050**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-2B-092211 **Lab ID: 60106834004** Collected: 09/22/11 15:13 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/29/11 11:30	74-84-0	
Ethene	ND	ug/L	10.0	1		09/29/11 11:30	74-85-1	
Methane	ND	ug/L	10.0	1		09/29/11 11:30	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/29/11 14:17	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 14:17	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:17	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/29/11 14:17	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 14:17	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 14:17	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:17	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 14:17	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 14:17	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 14:17	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/11 14:17	127-18-4	
ene	ND	ug/L	1.0	1		09/29/11 14:17	108-88-3	
1-Trichloroethane	ND	ug/L	1.0	1		09/29/11 14:17	71-55-6	
richloroethene	ND	ug/L	1.0	1		09/29/11 14:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 14:17	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 14:17	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/29/11 14:17	460-00-4	
Dibromofluoromethane (S)	93	%	86-112	1		09/29/11 14:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	82-119	1		09/29/11 14:17	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		09/29/11 14:17	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 14:17		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**372**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**820**	mg/L	5.0	1		09/28/11 15:29		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**59.9**	mg/L	10.0	10		10/03/11 13:51	16887-00-6	
Sulfate	**238**	mg/L	50.0	50		10/02/11 20:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.9**	mg/L	0.10	1		09/24/11 10:24		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 10:24		
Nitrogen, NO2 plus NO3	**1.9**	mg/L	0.10	1		09/24/11 10:24		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-2B-092211 **Lab ID: 60106834004** Collected: 09/22/11 15:13 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.7**	mg/L	1.0	1		09/28/11 23:50	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**346**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-2-092311 **Lab ID: 60106834005** Collected: 09/23/11 06:58 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**12.4**	ug/L	10.0	1		09/29/11 11:40	74-84-0	
Ethene	ND	ug/L	10.0	1		09/29/11 11:40	74-85-1	
Methane	**7250**	ug/L	10.0	1		09/29/11 11:40	74-82-8	E
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**12.7**	ug/L	10.0	1		09/29/11 14:33	67-64-1	
Benzene	**2.6**	ug/L	1.0	1		09/29/11 14:33	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:33	75-15-0	
Chlorobenzene	**711**	ug/L	5.0	5		10/03/11 10:55	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 14:33	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 14:33	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:33	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 14:33	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 14:33	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 14:33	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/11 14:33	127-18-4	
ene	ND	ug/L	1.0	1		09/29/11 14:33	108-88-3	
-Trichloroethane	ND	ug/L	1.0	1		09/29/11 14:33	71-55-6	
chloroethene	ND	ug/L	1.0	1		09/29/11 14:33	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 14:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 14:33	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-113	1		09/29/11 14:33	460-00-4	
Dibromofluoromethane (S)	95	%	86-112	1		09/29/11 14:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	1		09/29/11 14:33	17060-07-0	
Toluene-d8 (S)	93	%	90-110	1		09/29/11 14:33	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 14:33		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**900**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**924**	mg/L	5.0	1		09/29/11 13:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**24.8**	mg/L	5.0	5		10/03/11 14:21	16887-00-6	
Sulfate	**1.7**	mg/L	1.0	1		10/03/11 14:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 11:50		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 11:50		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 11:50		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: VW-2-092311 **Lab ID: 60106834005** Collected: 09/23/11 06:58 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**14.0**	mg/L	1.0	1		09/30/11 14:08	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**972**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: MW-25B-092311 **Lab ID: 60106834006** Collected: 09/23/11 08:37 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/29/11 11:51	74-84-0	
Ethene	ND	ug/L	10.0	1		09/29/11 11:51	74-85-1	
Methane	**607**	ug/L	10.0	1		09/29/11 11:51	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/29/11 14:48	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 14:48	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 14:48	75-15-0	
Chlorobenzene	**70.1**	ug/L	1.0	1		09/29/11 14:48	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 14:48	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 14:48	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 14:48	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 14:48	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 14:48	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 14:48	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/11 14:48	127-18-4	
ne	ND	ug/L	1.0	1		09/29/11 14:48	108-88-3	
·Trichloroethane	ND	ug/L	1.0	1		09/29/11 14:48	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/29/11 14:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 14:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 14:48	1330-20-7	
4-Bromofluorobenzene (S)	96	%	87-113	1		09/29/11 14:48	460-00-4	
Dibromofluoromethane (S)	94	%	86-112	1		09/29/11 14:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		09/29/11 14:48	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		09/29/11 14:48	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 14:48		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**710**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1070**	mg/L	5.0	1		09/29/11 13:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**117**	mg/L	20.0	20		10/03/11 14:36	16887-00-6	
Sulfate	**164**	mg/L	20.0	20		10/03/11 14:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 11:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 11:51		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 11:51		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: MW-25B-092311 **Lab ID: 60106834006** Collected: 09/23/11 08:37 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.7**	mg/L	1.0	1		09/29/11 00:19	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**738**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: MW-25A-092311 **Lab ID: 60106834007** Collected: 09/23/11 10:45 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/28/11 14:07	74-84-0	
Ethene	ND	ug/L	10.0	1		09/28/11 14:07	74-85-1	
Methane	**6370**	ug/L	10.0	1		09/28/11 14:07	74-82-8	E
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		10/03/11 11:11	67-64-1	
Benzene	**45.1**	ug/L	1.0	1		10/03/11 11:11	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		10/03/11 11:11	75-15-0	
Chlorobenzene	**210**	ug/L	1.0	1		10/03/11 11:11	108-90-7	
Chloroform	ND	ug/L	1.0	1		10/03/11 11:11	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/11 11:11	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/11 11:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/11 11:11	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		10/03/11 11:11	100-41-4	
Iodomethane	ND	ug/L	10.0	1		10/03/11 11:11	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		10/03/11 11:11	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/11 11:11	127-18-4	
ne	**3.1**	ug/L	1.0	1		10/03/11 11:11	108-88-3	
·Trichloroethane	ND	ug/L	1.0	1		10/03/11 11:11	71-55-6	
ıichloroethene	ND	ug/L	1.0	1		10/03/11 11:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		10/03/11 11:11	75-01-4	
Xylene (Total)	**5.3**	ug/L	3.0	1		10/03/11 11:11	1330-20-7	
4-Bromofluorobenzene (S)	95	%	87-113	1		10/03/11 11:11	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		10/03/11 11:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		10/03/11 11:11	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		10/03/11 11:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		10/03/11 11:11		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1010**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**999**	mg/L	5.0	1		09/29/11 13:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**12.6**	mg/L	2.0	2		10/03/11 14:52	16887-00-6	
Sulfate	**3.8**	mg/L	1.0	1		10/04/11 15:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 11:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 11:52		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/24/11 11:52		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: MW-25A-092311 **Lab ID: 60106834007** Collected: 09/23/11 10:45 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**8.3**	mg/L	1.0	1		09/29/11 00:33	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1020**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: REC-1-092311 **Lab ID: 60106834008** Collected: 09/23/11 12:00 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/28/11 14:18	74-84-0	
Ethene	ND	ug/L	10.0	1		09/28/11 14:18	74-85-1	
Methane	ND	ug/L	10.0	1		09/28/11 14:18	74-82-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/29/11 15:19	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 15:19	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 15:19	75-15-0	
Chlorobenzene	**13.1**	ug/L	1.0	1		09/29/11 15:19	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 15:19	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 15:19	107-06-2	
cis-1,2-Dichloroethene	**186**	ug/L	1.0	1		09/29/11 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 15:19	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 15:19	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 15:19	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 15:19	75-09-2	
Tetrachloroethene	**2770**	ug/L	10.0	10		10/03/11 11:26	127-18-4	
ne	ND	ug/L	1.0	1		09/29/11 15:19	108-88-3	
Trichloroethane	ND	ug/L	1.0	1		09/29/11 15:19	71-55-6	
Trichloroethene	**329**	ug/L	10.0	10		10/03/11 11:26	79-01-6	
Vinyl chloride	**8.9**	ug/L	1.0	1		09/29/11 15:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 15:19	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-113	1		09/29/11 15:19	460-00-4	
Dibromofluoromethane (S)	93	%	86-112	1		09/29/11 15:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		09/29/11 15:19	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/29/11 15:19	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 15:19		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**440**	mg/L	20.0	1		10/03/11 18:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**421**	mg/L	5.0	1		09/29/11 13:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/26/11 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**15.3**	mg/L	2.0	2		10/03/11 15:22	16887-00-6	
Sulfate	**73.3**	mg/L	20.0	20		10/02/11 21:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/24/11 11:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		09/24/11 11:54		
Nitrogen, NO2 plus NO3	**0.10**	mg/L	0.10	1		09/24/11 11:54		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: REC-1-092311 **Lab ID: 60106834008** Collected: 09/23/11 12:00 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.4**	mg/L	1.0	1		09/29/11 00:47	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**422**	mg/L	20.0	1		10/04/11 09:21	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Sample: TB-092211 **Lab ID: 60106834009** Collected: 09/22/11 00:00 Received: 09/24/11 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/29/11 15:35	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/11 15:35	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		09/29/11 15:35	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		09/29/11 15:35	108-90-7	
Chloroform	ND	ug/L	1.0	1		09/29/11 15:35	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/11 15:35	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/11 15:35	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		09/29/11 15:35	100-41-4	
Iodomethane	ND	ug/L	10.0	1		09/29/11 15:35	74-88-4	L3
Methylene chloride	ND	ug/L	1.0	1		09/29/11 15:35	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		10/03/11 11:42	127-18-4	
Toluene	ND	ug/L	1.0	1		09/29/11 15:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/11 15:35	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		09/29/11 15:35	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/29/11 15:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/29/11 15:35	1330-20-7	
' ^ omofluorobenzene (S)	102	%	87-113	1		09/29/11 15:35	460-00-4	
mofluoromethane (S)	92	%	86-112	1		09/29/11 15:35	1868-53-7	
.,_-_ichloroethane-d4 (S)	97	%	82-119	1		09/29/11 15:35	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		09/29/11 15:35	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/29/11 15:35		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: AIR/13229 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60106834001, 60106834007, 60106834008

METHOD BLANK: 1063493 Matrix: Water
Associated Lab Samples: 60106834001, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/28/11 13:25	
Ethene	ug/L	ND	10.0	09/28/11 13:25	
Methane	ug/L	ND	10.0	09/28/11 13:25	

LABORATORY CONTROL SAMPLE & LCSD: 1063494 1063495

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	124	108	109	95	70-130	14	30	
Ethene	ug/L	106	116	101	109	95	70-130	14	30	
Methane	ug/L	60.7	65.4	60.5	108	100	70-130	8	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064263 1064264

Parameter	Units	60106834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	108	94.8	118	119	105	122	30-150	1	30	
Ethene	ug/L	ND	101	88.4	106	105	105	119	30-150	1	30	
Methane	ug/L	1550	57.8	50.5	1630	1430	144	-248	30-150	14	30	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064265 1064266

Parameter	Units	92102867011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	98.9	98.9	121	121	122	123	30-150	.7	30	
Ethene	ug/L	ND	92.3	92.3	110	110	119	120	30-150	.4	30	
Methane	ug/L	ND	52.7	52.7	66.8	65.4	117	115	30-150	2	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: AIR/13238 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60106834002, 60106834003, 60106834004, 60106834005, 60106834006

METHOD BLANK: 1064311 Matrix: Water
Associated Lab Samples: 60106834002, 60106834003, 60106834004, 60106834005, 60106834006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/29/11 10:33	
Ethene	ug/L	ND	10.0	09/29/11 10:33	
Methane	ug/L	ND	10.0	09/29/11 10:33	

LABORATORY CONTROL SAMPLE & LCSD: 1064312 1064313

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	108	124	95	109	70-130	15	30	
Ethene	ug/L	106	101	116	95	110	70-130	14	30	
Methane	ug/L	60.7	60.5	65.5	100	108	70-130	8	30	

PLE DUPLICATE: 1064594

Parameter	Units	60106834002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	1100	1160	5	30	

SAMPLE DUPLICATE: 1064796

Parameter	Units	5053048005 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	538	562	4	30	
Methane	ug/L	266	278	4	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: MSV/40461 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834008, 60106834009

METHOD BLANK: 883319 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834008, 60106834009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/11 10:09	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/11 10:09	
Acetone	ug/L	ND	10.0	09/29/11 10:09	
Benzene	ug/L	ND	1.0	09/29/11 10:09	
Carbon disulfide	ug/L	ND	5.0	09/29/11 10:09	
Chlorobenzene	ug/L	ND	1.0	09/29/11 10:09	
Chloroform	ug/L	ND	1.0	09/29/11 10:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/11 10:09	
Ethylbenzene	ug/L	ND	1.0	09/29/11 10:09	
Iodomethane	ug/L	ND	10.0	09/29/11 10:09	
Methylene chloride	ug/L	ND	1.0	09/29/11 10:09	
Tetrachloroethene	ug/L	ND	1.0	09/29/11 10:09	
Toluene	ug/L	ND	1.0	09/29/11 10:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/11 10:09	
Trichloroethene	ug/L	ND	1.0	09/29/11 10:09	
Vinyl chloride	ug/L	ND	1.0	09/29/11 10:09	
Xylene (Total)	ug/L	ND	3.0	09/29/11 10:09	
1,2-Dichloroethane-d4 (S)	%	99	82-119	09/29/11 10:09	
4-Bromofluorobenzene (S)	%	103	87-113	09/29/11 10:09	
Dibromofluoromethane (S)	%	95	86-112	09/29/11 10:09	
Toluene-d8 (S)	%	97	90-110	09/29/11 10:09	

LABORATORY CONTROL SAMPLE: 883320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.1	90	82-119	
1,2-Dichloroethane	ug/L	20	19.6	98	77-125	
Acetone	ug/L	100	92.5	93	18-192	
Benzene	ug/L	20	19.3	96	82-117	
Carbon disulfide	ug/L	20	17.7	89	75-138	
Chlorobenzene	ug/L	20	17.9	90	83-121	
Chloroform	ug/L	20	18.4	92	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	80-119	
Ethylbenzene	ug/L	20	18.0	90	79-121	
Iodomethane	ug/L	20	79.8	399	14-169	L0
Methylene chloride	ug/L	20	15.8	79	75-118	
Tetrachloroethene	ug/L	20	18.5	93	80-124	
Toluene	ug/L	20	18.1	91	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	79-120	
Trichloroethene	ug/L	20	17.9	89	76-122	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

LABORATORY CONTROL SAMPLE: 883320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	17.2	86	57-163	
Xylene (Total)	ug/L	60	55.3	92	75-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			94	86-112	
Toluene-d8 (S)	%			98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 883321 883322

Parameter	Units	60106834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	21.6	99	108	57-128	9	27	
1,2-Dichloroethane	ug/L	ND	20	20	19.7	21.0	99	105	44-145	6	22	
Acetone	ug/L	ND	100	100	53.5	48.7	45	40	30-147	9	30	
Benzene	ug/L	ND	20	20	20.0	21.6	99	107	58-139	8	21	
Carbon disulfide	ug/L	ND	20	20	20.9	23.0	105	115	28-155	9	25	
Chlorobenzene	ug/L	183	20	20	187	188	20	26	56-129	1	21	M1
[illegible]roform	ug/L	ND	20	20	19.4	20.5	95	101	55-130	6	23	
[illegible],2-Dichloroethene	ug/L	ND	20	20	19.2	21.0	96	105	34-152	9	26	
Ethylbenzene	ug/L	ND	20	20	17.5	20.1	88	100	56-138	13	19	
Iodomethane	ug/L	ND	20	20	82.0	94.8	410	474	10-161	15	30	M0
Methylene chloride	ug/L	ND	20	20	16.7	18.5	84	92	44-133	10	27	
Tetrachloroethene	ug/L	ND	20	20	19.1	21.2	95	106	47-140	11	24	
Toluene	ug/L	ND	20	20	18.2	19.7	91	99	59-140	8	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	23.8	111	119	62-130	7	25	
Trichloroethene	ug/L	ND	20	20	19.2	20.3	96	101	37-148	6	25	
Vinyl chloride	ug/L	ND	20	20	20.7	22.8	103	114	47-133	10	32	
Xylene (Total)	ug/L	ND	60	60	54.2	60.7	90	101	52-146	11	19	
1,2-Dichloroethane-d4 (S)	%						98	98	82-119			
4-Bromofluorobenzene (S)	%						97	100	87-113			
Dibromofluoromethane (S)	%						95	94	86-112			
Toluene-d8 (S)	%						95	96	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: MSV/40547 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60106834005, 60106834007, 60106834008, 60106834009

METHOD BLANK: 885301 | Matrix: Water
Associated Lab Samples: 60106834005, 60106834007, 60106834008, 60106834009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	10/03/11 10:40	
1,2-Dichloroethane	ug/L	ND	1.0	10/03/11 10:40	
Acetone	ug/L	ND	10.0	10/03/11 10:40	
Benzene	ug/L	ND	1.0	10/03/11 10:40	
Carbon disulfide	ug/L	ND	5.0	10/03/11 10:40	
Chlorobenzene	ug/L	ND	1.0	10/03/11 10:40	
Chloroform	ug/L	ND	1.0	10/03/11 10:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/03/11 10:40	
Ethylbenzene	ug/L	ND	1.0	10/03/11 10:40	
Iodomethane	ug/L	ND	10.0	10/03/11 10:40	
Methylene chloride	ug/L	ND	1.0	10/03/11 10:40	
Tetrachloroethene	ug/L	ND	1.0	10/03/11 10:40	
Toluene	ug/L	ND	1.0	10/03/11 10:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/03/11 10:40	
Trichloroethene	ug/L	ND	1.0	10/03/11 10:40	
Vinyl chloride	ug/L	ND	1.0	10/03/11 10:40	
Xylene (Total)	ug/L	ND	3.0	10/03/11 10:40	
1,2-Dichloroethane-d4 (S)	%	106	82-119	10/03/11 10:40	
4-Bromofluorobenzene (S)	%	93	87-113	10/03/11 10:40	
Dibromofluoromethane (S)	%	104	86-112	10/03/11 10:40	
Toluene-d8 (S)	%	101	90-110	10/03/11 10:40	

LABORATORY CONTROL SAMPLE: 885302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.6	108	82-119	
1,2-Dichloroethane	ug/L	20	20.6	103	77-125	
Acetone	ug/L	100	105	105	18-192	
Benzene	ug/L	20	19.5	98	82-117	
Carbon disulfide	ug/L	20	20.4	102	75-138	
Chlorobenzene	ug/L	20	20.6	103	83-121	
Chloroform	ug/L	20	19.9	99	82-116	
cis-1,2-Dichloroethene	ug/L	20	19.9	100	80-119	
Ethylbenzene	ug/L	20	19.7	99	79-121	
Iodomethane	ug/L	20	18.7	94	14-169	
Methylene chloride	ug/L	20	17.1	85	75-118	
Tetrachloroethene	ug/L	20	21.5	107	80-124	
Toluene	ug/L	20	20.5	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	22.0	110	79-120	
Trichloroethene	ug/L	20	19.3	97	76-122	
Vinyl chloride	ug/L	20	16.7	84	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

LABORATORY CONTROL SAMPLE: 885302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	60.7	101	75-120	
1,2-Dichloroethane-d4 (S)	%			106	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			107	86-112	
Toluene-d8 (S)	%			99	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WET/31295 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834007, 60106834008

METHOD BLANK: 885307 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/03/11 18:30	

LABORATORY CONTROL SAMPLE: 885308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	494	99	90-110	

SAMPLE DUPLICATE: 885309

Parameter	Units	60106834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	728	702	4	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WET/31201 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60106834002, 60106834003, 60106834004

METHOD BLANK: 882462 Matrix: Water
Associated Lab Samples: 60106834002, 60106834003, 60106834004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/28/11 15:24	

SAMPLE DUPLICATE: 882463

Parameter	Units	60106955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	946	970	3	17	

SAMPLE DUPLICATE: 882464

Parameter	Units	60106883003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Solids	mg/L	819	821	0	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WET/31234 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60106834005, 60106834006, 60106834007, 60106834008

METHOD BLANK: 883195 Matrix: Water
Associated Lab Samples: 60106834005, 60106834006, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/29/11 13:18	

SAMPLE DUPLICATE: 883196

Parameter	Units	60106840005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1600	1680	5	17	

SAMPLE DUPLICATE: 884097

Parameter	Units	60106965002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5700	10600	60	17	R1

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WET/31249
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60106834001

METHOD BLANK: 883695
Matrix: Water
Associated Lab Samples: 60106834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/29/11 14:51	

SAMPLE DUPLICATE: 883696

Parameter	Units	60106834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	961	972	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WET/31177 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834007, 60106834008

SAMPLE DUPLICATE: 881744

Parameter	Units	60106834001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WETA/17773 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834007, 60106834008

METHOD BLANK: 885104 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834004, 60106834005, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/02/11 14:18	
Sulfate	mg/L	ND	1.0	10/02/11 14:18	

METHOD BLANK: 885952 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834005, 60106834006, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/03/11 11:03	
Sulfate	mg/L	ND	1.0	10/03/11 11:03	

HOD BLANK: 886341 Matrix: Water
Associated Lab Samples: 60106834003, 60106834007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/04/11 13:25	

LABORATORY CONTROL SAMPLE: 885105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.2	103	90-110	

LABORATORY CONTROL SAMPLE: 885953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	99	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

LABORATORY CONTROL SAMPLE: 886342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.1	102	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

MATRIX SPIKE SAMPLE: 885106

Parameter	Units	60106615001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	243	500	705	92	64-118	
Sulfate	mg/L	908	500	1360	91	61-119	

MATRIX SPIKE SAMPLE: 885107

Parameter	Units	60106834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7.9	10	18.1	102	64-118	
Sulfate	mg/L	190	250	420	92	61-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WETA/17671 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004

METHOD BLANK: 880737 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/24/11 10:02	
Nitrogen, Nitrite	mg/L	ND	0.10	09/24/11 10:02	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/24/11 10:02	

LABORATORY CONTROL SAMPLE: 880738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	90-110	
Nitrogen, Nitrite	mg/L	.4	0.42	105	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

ɪIX SPIKE SAMPLE: 880739

Parameter	Units	60106834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.5	96	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.37	88	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 880740

Parameter	Units	60106834004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.9	1.6	3.4	93	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.41	97	90-110	
Nitrogen, NO2 plus NO3	mg/L	1.9	2	3.8	94	90-110	

SAMPLE DUPLICATE: 880741

Parameter	Units	60106773002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	.017J		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	.033J		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WETA/17672 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60106834005, 60106834006, 60106834007, 60106834008

METHOD BLANK: 880742 Matrix: Water
Associated Lab Samples: 60106834005, 60106834006, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/24/11 10:28	
Nitrogen, Nitrite	mg/L	ND	0.10	09/24/11 10:28	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/24/11 10:28	

LABORATORY CONTROL SAMPLE: 880743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	103	90-110	
Nitrogen, Nitrite	mg/L	.4	0.43	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 880744

Parameter	Units	60106834007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.4	89	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.39	93	90-110	
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 880745

Parameter	Units	60106834008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	.088J		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	0.10	0.10	2	13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WETA/17693 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834006, 60106834007, 60106834008

METHOD BLANK: 881721 Matrix: Water
Associated Lab Samples: 60106834001, 60106834002, 60106834003, 60106834004, 60106834006, 60106834007, 60106834008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/28/11 20:04	

LABORATORY CONTROL SAMPLE: 881722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 881724

Parameter	Units	10169907003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
l Organic Carbon	mg/L	1.0	5	6.2	103	80-120	

MATRIX SPIKE SAMPLE: 881725

Parameter	Units	60106834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	7.7	5	12.7	99	80-120	

SAMPLE DUPLICATE: 881723

Parameter	Units	5051830004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

QC Batch: WETA/17755
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60106834005

METHOD BLANK: 883905
Matrix: Water
Associated Lab Samples: 60106834005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/30/11 13:39	

LABORATORY CONTROL SAMPLE: 883906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

MATRIX SPIKE SAMPLE: 883907

Parameter	Units	60106834005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	14.0	5	19.7	114	80-120	

SAMPLE DUPLICATE: 883908

Parameter	Units	10170094001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.4	6.7	22	25	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/40547

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated more than 15 minutes after sample collection.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106834001	FBCSA-MW-5-092211	RSK 175	AIR/13229		
60106834002	FBCSA-MW-5-092211-AD	RSK 175	AIR/13238		
60106834003	VW-1-092211	RSK 175	AIR/13238		
60106834004	VW-2B-092211	RSK 175	AIR/13238		
60106834005	VW-2-092311	RSK 175	AIR/13238		
60106834006	MW-25B-092311	RSK 175	AIR/13238		
60106834007	MW-25A-092311	RSK 175	AIR/13229		
60106834008	REC-1-092311	RSK 175	AIR/13229		
60106834001	FBCSA-MW-5-092211	EPA 5030B/8260	MSV/40461		
60106834002	FBCSA-MW-5-092211-AD	EPA 5030B/8260	MSV/40461		
60106834003	VW-1-092211	EPA 5030B/8260	MSV/40461		
60106834004	VW-2B-092211	EPA 5030B/8260	MSV/40461		
60106834005	VW-2-092311	EPA 5030B/8260	MSV/40461		
60106834005	VW-2-092311	EPA 5030B/8260	MSV/40547		
60106834006	MW-25B-092311	EPA 5030B/8260	MSV/40461		
60106834007	MW-25A-092311	EPA 5030B/8260	MSV/40547		
60106834008	REC-1-092311	EPA 5030B/8260	MSV/40461		
60106834008	REC-1-092311	EPA 5030B/8260	MSV/40547		
60106834009	TB-092211	EPA 5030B/8260	MSV/40461		
60106834009	TB-092211	EPA 5030B/8260	MSV/40547		
60106834001	FBCSA-MW-5-092211	SM 2320B	WET/31295		
60106834002	FBCSA-MW-5-092211-AD	SM 2320B	WET/31295		
60106834003	VW-1-092211	SM 2320B	WET/31295		
60106834004	VW-2B-092211	SM 2320B	WET/31295		
60106834005	VW-2-092311	SM 2320B	WET/31295		
60106834006	MW-25B-092311	SM 2320B	WET/31295		
60106834007	MW-25A-092311	SM 2320B	WET/31295		
60106834008	REC-1-092311	SM 2320B	WET/31295		
60106834001	FBCSA-MW-5-092211	SM 2540C	WET/31249		
60106834002	FBCSA-MW-5-092211-AD	SM 2540C	WET/31201		
60106834003	VW-1-092211	SM 2540C	WET/31201		
60106834004	VW-2B-092211	SM 2540C	WET/31201		
60106834005	VW-2-092311	SM 2540C	WET/31234		
60106834006	MW-25B-092311	SM 2540C	WET/31234		
60106834007	MW-25A-092311	SM 2540C	WET/31234		
60106834008	REC-1-092311	SM 2540C	WET/31234		
60106834001	FBCSA-MW-5-092211	SM 4500-H+B	WET/31177		
60106834002	FBCSA-MW-5-092211-AD	SM 4500-H+B	WET/31177		
60106834003	VW-1-092211	SM 4500-H+B	WET/31177		
60106834004	VW-2B-092211	SM 4500-H+B	WET/31177		
60106834005	VW-2-092311	SM 4500-H+B	WET/31177		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60106834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60106834006	MW-25B-092311	SM 4500-H+B	WET/31177		
60106834007	MW-25A-092311	SM 4500-H+B	WET/31177		
60106834008	REC-1-092311	SM 4500-H+B	WET/31177		
60106834001	FBCSA-MW-5-092211	EPA 300.0	WETA/17773		
60106834002	FBCSA-MW-5-092211-AD	EPA 300.0	WETA/17773		
60106834003	VW-1-092211	EPA 300.0	WETA/17773		
60106834004	VW-2B-092211	EPA 300.0	WETA/17773		
60106834005	VW-2-092311	EPA 300.0	WETA/17773		
60106834006	MW-25B-092311	EPA 300.0	WETA/17773		
60106834007	MW-25A-092311	EPA 300.0	WETA/17773		
60106834008	REC-1-092311	EPA 300.0	WETA/17773		
60106834001	FBCSA-MW-5-092211	EPA 353.2	WETA/17671		
60106834002	FBCSA-MW-5-092211-AD	EPA 353.2	WETA/17671		
60106834003	VW-1-092211	EPA 353.2	WETA/17671		
60106834004	VW-2B-092211	EPA 353.2	WETA/17671		
60106834005	VW-2-092311	EPA 353.2	WETA/17672		
60106834006	MW-25B-092311	EPA 353.2	WETA/17672		
60106834007	MW-25A-092311	EPA 353.2	WETA/17672		
6834008	REC-1-092311	EPA 353.2	WETA/17672		
6834001	FBCSA-MW-5-092211	SM 5310C	WETA/17693		
60106834002	FBCSA-MW-5-092211-AD	SM 5310C	WETA/17693		
60106834003	VW-1-092211	SM 5310C	WETA/17693		
60106834004	VW-2B-092211	SM 5310C	WETA/17693		
60106834005	VW-2-092311	SM 5310C	WETA/17755		
60106834006	MW-25B-092311	SM 5310C	WETA/17693		
60106834007	MW-25A-092311	SM 5310C	WETA/17693		
60106834008	REC-1-092311	SM 5310C	WETA/17693		
60106834001	FBCSA-MW-5-092211	SM 4500-CO2 D	WETA/17799		
60106834002	FBCSA-MW-5-092211-AD	SM 4500-CO2 D	WETA/17799		
60106834003	VW-1-092211	SM 4500-CO2 D	WETA/17799		
60106834004	VW-2B-092211	SM 4500-CO2 D	WETA/17799		
60106834005	VW-2-092311	SM 4500-CO2 D	WETA/17799		
60106834006	MW-25B-092311	SM 4500-CO2 D	WETA/17799		
60106834007	MW-25A-092311	SM 4500-CO2 D	WETA/17799		
60106834008	REC-1-092311	SM 4500-CO2 D	WETA/17799		

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APPENDIX B

Second Quarter Laboratory Analytical Reports

Pace Analytical Services, Inc.
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January 05, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112454001	**MW-4-121911**	Water	12/19/11 09:00	12/20/11 08:08
60112454002	**GM-1-121911**	Water	12/19/11 09:51	12/20/11 08:08
60112454003	**GM-2-121911**	Water	12/19/11 10:32	12/20/11 08:08
60112454004	**MW-19-121911**	Water	12/19/11 11:08	12/20/11 08:08
60112454005	**MW-9-121911**	Water	12/19/11 12:01	12/20/11 08:08
60112454006	**MW-23-121911**	Water	12/19/11 12:59	12/20/11 08:08
60112454007	**TB-121911**	Water	12/19/11 08:00	12/20/11 08:08

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112454001	MW-4-121911	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454002	GM-1-121911	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454003	GM-2-121911	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454004	MW-19-121911	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454005	**MW-9-121911**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454006	**MW-23-121911**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	JPF	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112454007	**TB-121911**	EPA 5030B/8260	PRG	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-4-121911 **Lab ID: 60112454001** Collected: 12/19/11 09:00 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/22/11 09:37	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 09:37	74-85-1	
Methane	**48.2**	ug/L	10.0	1		12/22/11 09:37	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**2240**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:29	7439-89-6	
Manganese	**3360**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:29	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/30/11 04:09	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/11 04:09	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/30/11 04:09	75-15-0	
Chlorobenzene	**18.4**	ug/L	1.0	1		12/30/11 04:09	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/30/11 04:09	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/11 04:09	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 04:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 04:09	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/30/11 04:09	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/30/11 04:09	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/30/11 04:09	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/30/11 04:09	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/11 04:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/11 04:09	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/30/11 04:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/30/11 04:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/11 04:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	1		12/30/11 04:09	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		12/30/11 04:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		12/30/11 04:09	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		12/30/11 04:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/30/11 04:09		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**225**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**334**	mg/L	5.0	1		12/22/11 14:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.055**	mg/L	0.050	1		12/23/11 15:45	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-4-121911 **Lab ID: 60112454001** Collected: 12/19/11 09:00 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**11.5**	mg/L	2.0	2		01/03/12 11:18	16887-00-6	
Sulfate	**40.6**	mg/L	2.0	2		01/03/12 11:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/20/11 14:40		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:40		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/20/11 14:40		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**6.0**	mg/L	3.0	6		12/24/11 02:48	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**216**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: GM-1-121911 **Lab ID: 60112454002** Collected: 12/19/11 09:51 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/22/11 11:12	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 11:12	74-85-1	
Methane	**556**	ug/L	10.0	1		12/22/11 11:12	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**3840**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:41	7439-89-6	
Manganese	**1090**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:41	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		12/23/11 14:45	67-64-1	
Benzene	ND	ug/L	1000	1000		12/23/11 14:45	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		12/23/11 14:45	75-15-0	
Chlorobenzene	**98100**	ug/L	1000	1000		12/23/11 14:45	108-90-7	
Chloroform	ND	ug/L	1000	1000		12/23/11 14:45	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		12/23/11 14:45	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		12/23/11 14:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		12/23/11 14:45	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		12/23/11 14:45	100-41-4	
Iodomethane	ND	ug/L	10000	1000		12/23/11 14:45	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		12/23/11 14:45	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		12/23/11 14:45	127-18-4	
Toluene	ND	ug/L	1000	1000		12/23/11 14:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		12/23/11 14:45	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		12/23/11 14:45	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		12/23/11 14:45	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		12/23/11 14:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	87-113	1000		12/23/11 14:45	460-00-4	
Dibromofluoromethane (S)	105	%	86-112	1000		12/23/11 14:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1000		12/23/11 14:45	17060-07-0	
Toluene-d8 (S)	96	%	90-110	1000		12/23/11 14:45	2037-26-5	
Preservation pH	**1.0**		0.10	1000		12/23/11 14:45		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**765**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1450**	mg/L	5.0	1		12/22/11 14:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**9.9**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.21**	mg/L	0.050	1		12/23/11 15:46	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: GM-1-121911 **Lab ID: 60112454002** Collected: 12/19/11 09:51 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**88.6**	mg/L	20.0	20		12/30/11 23:47	16887-00-6	
Sulfate	**104**	mg/L	20.0	20		12/30/11 23:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.31**	mg/L	0.10	1		12/20/11 14:42		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:42		
Nitrogen, NO2 plus NO3	**0.36**	mg/L	0.10	1		12/20/11 14:42		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**208**	mg/L	30.0	60		12/24/11 03:06	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**286**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: GM-2-121911 **Lab ID: 60112454003** Collected: 12/19/11 10:32 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/22/11 11:22	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 11:22	74-85-1	
Methane	**2140**	ug/L	10.0	1		12/22/11 11:22	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**7310**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:44	7439-89-6	
Manganese	**10100**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:44	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		12/23/11 14:59	67-64-1	
Benzene	ND	ug/L	1000	1000		12/23/11 14:59	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		12/23/11 14:59	75-15-0	
Chlorobenzene	**46700**	ug/L	1000	1000		12/23/11 14:59	108-90-7	
Chloroform	ND	ug/L	1000	1000		12/23/11 14:59	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		12/23/11 14:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		12/23/11 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		12/23/11 14:59	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		12/23/11 14:59	100-41-4	
Iodomethane	ND	ug/L	10000	1000		12/23/11 14:59	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		12/23/11 14:59	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		12/23/11 14:59	127-18-4	
Toluene	ND	ug/L	1000	1000		12/23/11 14:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		12/23/11 14:59	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		12/23/11 14:59	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		12/23/11 14:59	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		12/23/11 14:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	87-113	1000		12/23/11 14:59	460-00-4	
Dibromofluoromethane (S)	105	%	86-112	1000		12/23/11 14:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1000		12/23/11 14:59	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1000		12/23/11 14:59	2037-26-5	
Preservation pH	**1.0**		0.10	1000		12/23/11 14:59		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**475**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1060**	mg/L	5.0	1		12/22/11 14:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.062**	mg/L	0.050	1		12/23/11 15:46	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: GM-2-121911 **Lab ID: 60112454003** Collected: 12/19/11 10:32 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**265**	mg/L	20.0	20		12/31/11 00:04	16887-00-6	
Sulfate	ND	mg/L	1.0	1		01/03/12 11:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/20/11 14:43		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:43		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/20/11 14:43		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**198**	mg/L	30.0	60		12/24/11 03:24	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**569**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-19-121911 **Lab ID: 60112454004** Collected: 12/19/11 11:08 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**26.7**	ug/L	10.0	1		12/22/11 11:33	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 11:33	74-85-1	
Methane	**863**	ug/L	10.0	1		12/22/11 11:33	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**8060**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:46	7439-89-6	
Manganese	**2210**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:46	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	1000	100		12/30/11 04:24	67-64-1	
Benzene	ND	ug/L	100	100		12/30/11 04:24	71-43-2	
Carbon disulfide	ND	ug/L	500	100		12/30/11 04:24	75-15-0	
Chlorobenzene	**9220**	ug/L	100	100		12/30/11 04:24	108-90-7	
Chloroform	ND	ug/L	100	100		12/30/11 04:24	67-66-3	
1,2-Dichloroethane	ND	ug/L	100	100		12/30/11 04:24	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	100	100		12/30/11 04:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/30/11 04:24	156-60-5	
Ethylbenzene	ND	ug/L	100	100		12/30/11 04:24	100-41-4	
Iodomethane	ND	ug/L	1000	100		12/30/11 04:24	74-88-4	
Methylene chloride	ND	ug/L	100	100		12/30/11 04:24	75-09-2	
Tetrachloroethene	ND	ug/L	100	100		12/30/11 04:24	127-18-4	
Toluene	ND	ug/L	100	100		12/30/11 04:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	100	100		12/30/11 04:24	71-55-6	
Trichloroethene	ND	ug/L	100	100		12/30/11 04:24	79-01-6	
Vinyl chloride	ND	ug/L	100	100		12/30/11 04:24	75-01-4	
Xylene (Total)	ND	ug/L	300	100		12/30/11 04:24	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	87-113	100		12/30/11 04:24	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	100		12/30/11 04:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	100		12/30/11 04:24	17060-07-0	
Toluene-d8 (S)	100	%	90-110	100		12/30/11 04:24	2037-26-5	
Preservation pH	**1.0**		0.10	100		12/30/11 04:24		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**415**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**639**	mg/L	5.0	1		12/22/11 14:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/23/11 15:47	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-19-121911 **Lab ID: 60112454004** Collected: 12/19/11 11:08 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**103**	mg/L	20.0	20		12/31/11 00:21	16887-00-6	
Sulfate	**15.6**	mg/L	1.0	1		01/03/12 11:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.36**	mg/L	0.10	1		12/20/11 14:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:46		
Nitrogen, NO2 plus NO3	**0.37**	mg/L	0.10	1		12/20/11 14:46		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**34.4**	mg/L	30.0	60		12/24/11 04:01	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**407**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-9-121911 **Lab ID: 60112454005** Collected: 12/19/11 12:01 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/22/11 11:44	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 11:44	74-85-1	
Methane	ND	ug/L	10.0	1		12/22/11 11:44	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**8300**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:49	7439-89-6	
Manganese	**4790**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:49	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/23/11 15:28	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/11 15:28	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/23/11 15:28	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/23/11 15:28	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/23/11 15:28	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/11 15:28	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:28	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/23/11 15:28	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/23/11 15:28	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/23/11 15:28	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/11 15:28	127-18-4	
Toluene	ND	ug/L	1.0	1		12/23/11 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/11 15:28	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/23/11 15:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/23/11 15:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/23/11 15:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	87-113	1		12/23/11 15:28	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	1		12/23/11 15:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		12/23/11 15:28	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		12/23/11 15:28	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/23/11 15:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**300**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**623**	mg/L	5.0	1		12/22/11 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/23/11 15:47	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-9-121911 **Lab ID: 60112454005** Collected: 12/19/11 12:01 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**84.0**	mg/L	20.0	20		12/31/11 00:37	16887-00-6	
Sulfate	**87.7**	mg/L	20.0	20		12/31/11 00:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.5**	mg/L	0.10	1		12/20/11 14:48		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:48		
Nitrogen, NO2 plus NO3	**3.6**	mg/L	0.10	1		12/20/11 14:48		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	2		12/27/11 17:25	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**283**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-23-121911 **Lab ID: 60112454006** Collected: 12/19/11 12:59 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/22/11 11:54	74-84-0	
Ethene	ND	ug/L	10.0	1		12/22/11 11:54	74-85-1	
Methane	**1190**	ug/L	10.0	1		12/22/11 11:54	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1420**	ug/L	50.0	1	12/21/11 13:30	12/22/11 16:51	7439-89-6	
Manganese	**290**	ug/L	5.0	1	12/21/11 13:30	12/22/11 16:51	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/23/11 15:42	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/11 15:42	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/23/11 15:42	75-15-0	
Chlorobenzene	**1.2**	ug/L	1.0	1		12/23/11 15:42	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/23/11 15:42	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/11 15:42	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:42	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/23/11 15:42	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/23/11 15:42	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/23/11 15:42	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/11 15:42	127-18-4	
Toluene	ND	ug/L	1.0	1		12/23/11 15:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/11 15:42	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/23/11 15:42	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/23/11 15:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/23/11 15:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	87-113	1		12/23/11 15:42	460-00-4	
Dibromofluoromethane (S)	105	%	86-112	1		12/23/11 15:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		12/23/11 15:42	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1		12/23/11 15:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/23/11 15:42		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**310**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**420**	mg/L	5.0	1		12/22/11 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.7**	Std. Units	0.10	1		12/20/11 15:45		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/23/11 15:47	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: MW-23-121911 **Lab ID: 60112454006** Collected: 12/19/11 12:59 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**39.7**	mg/L	5.0	5		01/03/12 12:58	16887-00-6	
Sulfate	**3.8**	mg/L	1.0	1		01/03/12 12:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.14**	mg/L	0.10	1		12/20/11 14:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/20/11 14:54		
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	1		12/20/11 14:54		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**9.5**	mg/L	7.5	15		12/24/11 04:37	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**285**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Sample: TB-121911 **Lab ID: 60112454007** Collected: 12/19/11 08:00 Received: 12/20/11 08:08 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/23/11 15:56	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/11 15:56	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/23/11 15:56	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/23/11 15:56	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/23/11 15:56	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/11 15:56	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/11 15:56	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/23/11 15:56	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/23/11 15:56	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/23/11 15:56	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/11 15:56	127-18-4	
Toluene	ND	ug/L	1.0	1		12/23/11 15:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/11 15:56	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/23/11 15:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/23/11 15:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/23/11 15:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	1		12/23/11 15:56	460-00-4	
Dibromofluoromethane (S)	107	%	86-112	1		12/23/11 15:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		12/23/11 15:56	17060-07-0	
Toluene-d8 (S)	94	%	90-110	1		12/23/11 15:56	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/23/11 15:56		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: AIR/13896 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 1119443 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/22/11 08:11	
Ethene	ug/L	ND	10.0	12/22/11 08:11	
Methane	ug/L	ND	10.0	12/22/11 08:11	

LABORATORY CONTROL SAMPLE & LCSD: 1119444 1119445

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	110	118	96	104	70-130	7	30	
Ethene	ug/L	106	102	109	96	103	70-130	7	30	
Methane	ug/L	60.7	59.5	64.2	98	106	70-130	8	30	

PLE DUPLICATE: 1120002

Parameter	Units	10179026001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	18.3	14.9	21	30	

SAMPLE DUPLICATE: 1120003

Parameter	Units	92108926005 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	1460	1420	3	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: MPRP/16528 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 930180 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	12/22/11 16:21	
Manganese	ug/L	ND	5.0	12/22/11 16:21	

LABORATORY CONTROL SAMPLE: 930181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	964	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 930182 930183

Parameter	Units	60112454001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Iron	ug/L	2240	10000	10000	12200	12300	100	101	75-125	1	20	
Manganese	ug/L	3360	1000	1000	4200	4230	85	88	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: MSV/42687 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112454002, 60112454003, 60112454005, 60112454006, 60112454007

METHOD BLANK: 930894 Matrix: Water
Associated Lab Samples: 60112454002, 60112454003, 60112454005, 60112454006, 60112454007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/23/11 14:17	
1,2-Dichloroethane	ug/L	ND	1.0	12/23/11 14:17	
Acetone	ug/L	ND	10.0	12/23/11 14:17	
Benzene	ug/L	ND	1.0	12/23/11 14:17	
Carbon disulfide	ug/L	ND	5.0	12/23/11 14:17	
Chlorobenzene	ug/L	ND	1.0	12/23/11 14:17	
Chloroform	ug/L	ND	1.0	12/23/11 14:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/23/11 14:17	
Ethylbenzene	ug/L	ND	1.0	12/23/11 14:17	
Iodomethane	ug/L	ND	10.0	12/23/11 14:17	
Methylene chloride	ug/L	ND	1.0	12/23/11 14:17	
Tetrachloroethene	ug/L	ND	1.0	12/23/11 14:17	
Toluene	ug/L	ND	1.0	12/23/11 14:17	
-1,2-Dichloroethene	ug/L	ND	1.0	12/23/11 14:17	
oroethene	ug/L	ND	1.0	12/23/11 14:17	
Vinyl chloride	ug/L	ND	1.0	12/23/11 14:17	
Xylene (Total)	ug/L	ND	3.0	12/23/11 14:17	
1,2-Dichloroethane-d4 (S)	%	103	82-119	12/23/11 14:17	
4-Bromofluorobenzene (S)	%	103	87-113	12/23/11 14:17	
Dibromofluoromethane (S)	%	105	86-112	12/23/11 14:17	
Toluene-d8 (S)	%	97	90-110	12/23/11 14:17	

LABORATORY CONTROL SAMPLE: 930895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	82-119	
1,2-Dichloroethane	ug/L	20	22.0	110	77-125	
Acetone	ug/L	100	77.0	77	18-192	
Benzene	ug/L	20	19.8	99	82-117	
Carbon disulfide	ug/L	20	21.6	108	75-138	
Chlorobenzene	ug/L	20	19.9	100	83-121	
Chloroform	ug/L	20	21.3	107	82-116	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	80-119	
Ethylbenzene	ug/L	20	19.6	98	79-121	
Iodomethane	ug/L	20	12.8	64	14-169	
Methylene chloride	ug/L	20	20.0	100	75-118	
Tetrachloroethene	ug/L	20	20.7	103	80-124	
Toluene	ug/L	20	18.9	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	79-120	
Trichloroethene	ug/L	20	21.6	108	76-122	
chloride	ug/L	20	17.3	86	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

LABORATORY CONTROL SAMPLE: 930895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	59.0	98	75-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			102	87-113	
Dibromofluoromethane (S)	%			106	86-112	
Toluene-d8 (S)	%			96	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: MSV/42790 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112454001, 60112454004

METHOD BLANK: 933089 | Matrix: Water
Associated Lab Samples: 60112454001, 60112454004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/11 03:53	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/11 03:53	
Acetone	ug/L	ND	10.0	12/30/11 03:53	
Benzene	ug/L	ND	1.0	12/30/11 03:53	
Carbon disulfide	ug/L	ND	5.0	12/30/11 03:53	
Chlorobenzene	ug/L	ND	1.0	12/30/11 03:53	
Chloroform	ug/L	ND	1.0	12/30/11 03:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 03:53	
Ethylbenzene	ug/L	ND	1.0	12/30/11 03:53	
Iodomethane	ug/L	ND	10.0	12/30/11 03:53	
Methylene chloride	ug/L	ND	1.0	12/30/11 03:53	
Tetrachloroethene	ug/L	ND	1.0	12/30/11 03:53	
Toluene	ug/L	ND	1.0	12/30/11 03:53	
s-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 03:53	
loroethene	ug/L	ND	1.0	12/30/11 03:53	
Vinyl chloride	ug/L	ND	1.0	12/30/11 03:53	
Xylene (Total)	ug/L	ND	3.0	12/30/11 03:53	
1,2-Dichloroethane-d4 (S)	%	104	82-119	12/30/11 03:53	
4-Bromofluorobenzene (S)	%	96	87-113	12/30/11 03:53	
Dibromofluoromethane (S)	%	101	86-112	12/30/11 03:53	
Toluene-d8 (S)	%	100	90-110	12/30/11 03:53	

LABORATORY CONTROL SAMPLE: 933090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	93	82-119	
1,2-Dichloroethane	ug/L	20	20.5	102	77-125	
Acetone	ug/L	100	68.7	69	18-192	
Benzene	ug/L	20	19.2	96	82-117	
Carbon disulfide	ug/L	20	19.4	97	75-138	
Chlorobenzene	ug/L	20	19.4	97	83-121	
Chloroform	ug/L	20	19.1	96	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	80-119	
Ethylbenzene	ug/L	20	19.3	96	79-121	
Iodomethane	ug/L	20	15.2	76	14-169	
Methylene chloride	ug/L	20	20.1	100	75-118	
Tetrachloroethene	ug/L	20	19.0	95	80-124	
Toluene	ug/L	20	18.2	91	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	79-120	
Trichloroethene	ug/L	20	19.1	96	76-122	
l chloride	ug/L	20	15.8	79	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

LABORATORY CONTROL SAMPLE: 933090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	55.9	93	75-120	
1,2-Dichloroethane-d4 (S)	%			106	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			99	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WET/32836 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 933200 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 09:30	

LABORATORY CONTROL SAMPLE: 933201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	90-110	

SAMPLE DUPLICATE: 933202

Parameter	Units	60112454001 Result	Dup Result	RPD	Max RPD	Qualifiers
alinity, Total as CaCO3	mg/L	225	230	2	9	

SAMPLE DUPLICATE: 933203

Parameter	Units	60112454002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	765	800	4	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WET/32724 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 930515 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/22/11 14:48	

SAMPLE DUPLICATE: 930516

Parameter	Units	60112392006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1920	1840	4	17	

SAMPLE DUPLICATE: 930517

Parameter	Units	60112454002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1450	1460	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WET/32683 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

SAMPLE DUPLICATE: 929717

Parameter	Units	60111759001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WET/32753 — Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D — Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 931630 — Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/23/11 15:45	

LABORATORY CONTROL SAMPLE: 931631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	104	80-120	

MATRIX SPIKE SAMPLE: 931632

Parameter	Units	60112454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.055	.5	0.48	85	75-125	

SAMPLE DUPLICATE: 931633

Parameter	Units	60112454002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.21	0.21	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WETA/18829 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 933862 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/30/11 19:39	
Sulfate	mg/L	ND	1.0	12/30/11 19:39	

METHOD BLANK: 934898 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/03/12 10:29	
Sulfate	mg/L	ND	1.0	01/03/12 10:29	

METHOD BLANK: 934976 Matrix: Water
ociated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/04/12 09:07	
Sulfate	mg/L	ND	1.0	01/04/12 09:07	

LABORATORY CONTROL SAMPLE: 933863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

LABORATORY CONTROL SAMPLE: 934899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 934977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
^ lfate	mg/L	5	4.9	99	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933864 933865

Parameter	Units	60112392012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.8	25	25	33.0	32.4	93	91	64-118	2	12	
Sulfate	mg/L	96.2	25	25	123	123	108	107	61-119	0	10	

MATRIX SPIKE SAMPLE: 933866

Parameter	Units	60112603001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	11000	5000	15100	81	64-118	
Sulfate	mg/L	835	250	988	61	61-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WETA/18739 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 929595 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/20/11 14:32	
Nitrogen, Nitrite	mg/L	ND	0.10	12/20/11 14:32	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/20/11 14:32	

LABORATORY CONTROL SAMPLE: 929596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	103	90-110	
Nitrogen, Nitrite	mg/L	.4	0.43	107	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

RIX SPIKE SAMPLE: 929597

Parameter	Units	60112439003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	2.1	130	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.56	136	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.6	132	90-110	M0

MATRIX SPIKE SAMPLE: 929599

Parameter	Units	60112454004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	1.6	2.1	111	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.45	108	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.37	2	2.6	110	90-110	

SAMPLE DUPLICATE: 929598

Parameter	Units	60112438001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	.035J		31	
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

QC Batch: WETA/10918 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

METHOD BLANK: 549884 Matrix: Water
Associated Lab Samples: 60112454001, 60112454002, 60112454003, 60112454004, 60112454005, 60112454006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	12/24/11 01:18	

LABORATORY CONTROL SAMPLE: 549885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 549886 549887

Parameter	Units	60112150001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.0	15	15	20.6	20.5	104	103	80-120	.3	20	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/42687

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42790

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

H6 Analysis initiated more than 15 minutes after sample collection.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112454001	MW-4-121911	RSK 175	AIR/13896		
60112454002	GM-1-121911	RSK 175	AIR/13896		
60112454003	GM-2-121911	RSK 175	AIR/13896		
60112454004	MW-19-121911	RSK 175	AIR/13896		
60112454005	MW-9-121911	RSK 175	AIR/13896		
60112454006	MW-23-121911	RSK 175	AIR/13896		
60112454001	MW-4-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454002	GM-1-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454003	GM-2-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454004	MW-19-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454005	MW-9-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454006	MW-23-121911	EPA 3010	MPRP/16528	EPA 6010	ICP/14212
60112454001	MW-4-121911	EPA 5030B/8260	MSV/42790		
60112454002	GM-1-121911	EPA 5030B/8260	MSV/42687		
60112454003	GM-2-121911	EPA 5030B/8260	MSV/42687		
60112454004	MW-19-121911	EPA 5030B/8260	MSV/42790		
60112454005	MW-9-121911	EPA 5030B/8260	MSV/42687		
60112454006	MW-23-121911	EPA 5030B/8260	MSV/42687		
60112454007	TB-121911	EPA 5030B/8260	MSV/42687		
60112454001	MW-4-121911	SM 2320B	WET/32836		
60112454002	GM-1-121911	SM 2320B	WET/32836		
60112454003	GM-2-121911	SM 2320B	WET/32836		
60112454004	MW-19-121911	SM 2320B	WET/32836		
60112454005	MW-9-121911	SM 2320B	WET/32836		
60112454006	MW-23-121911	SM 2320B	WET/32836		
60112454001	MW-4-121911	SM 2540C	WET/32724		
60112454002	GM-1-121911	SM 2540C	WET/32724		
60112454003	GM-2-121911	SM 2540C	WET/32724		
60112454004	MW-19-121911	SM 2540C	WET/32724		
60112454005	MW-9-121911	SM 2540C	WET/32724		
60112454006	MW-23-121911	SM 2540C	WET/32724		
60112454001	MW-4-121911	SM 4500-H+B	WET/32683		
60112454002	GM-1-121911	SM 4500-H+B	WET/32683		
60112454003	GM-2-121911	SM 4500-H+B	WET/32683		
60112454004	MW-19-121911	SM 4500-H+B	WET/32683		
60112454005	MW-9-121911	SM 4500-H+B	WET/32683		
60112454006	MW-23-121911	SM 4500-H+B	WET/32683		
60112454001	MW-4-121911	SM 4500-S-2 D	WET/32753		
60112454002	GM-1-121911	SM 4500-S-2 D	WET/32753		
60112454003	GM-2-121911	SM 4500-S-2 D	WET/32753		
60112454004	MW-19-121911	SM 4500-S-2 D	WET/32753		
60112454005	MW-9-121911	SM 4500-S-2 D	WET/32753		
60112454006	MW-23-121911	SM 4500-S-2 D	WET/32753		
60112454001	MW-4-121911	EPA 300.0	WETA/18829		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112454

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112454002	GM-1-121911	EPA 300.0	WETA/18829		
60112454003	GM-2-121911	EPA 300.0	WETA/18829		
60112454004	MW-19-121911	EPA 300.0	WETA/18829		
60112454005	MW-9-121911	EPA 300.0	WETA/18829		
60112454006	MW-23-121911	EPA 300.0	WETA/18829		
60112454001	MW-4-121911	EPA 353.2	WETA/18739		
60112454002	GM-1-121911	EPA 353.2	WETA/18739		
60112454003	GM-2-121911	EPA 353.2	WETA/18739		
60112454004	MW-19-121911	EPA 353.2	WETA/18739		
60112454005	MW-9-121911	EPA 353.2	WETA/18739		
60112454006	MW-23-121911	EPA 353.2	WETA/18739		
60112454001	MW-4-121911	SM 5310C	WETA/10918		
60112454002	GM-1-121911	SM 5310C	WETA/10918		
60112454003	GM-2-121911	SM 5310C	WETA/10918		
60112454004	MW-19-121911	SM 5310C	WETA/10918		
60112454005	MW-9-121911	SM 5310C	WETA/10918		
60112454006	MW-23-121911	SM 5310C	WETA/10918		
60112454001	MW-4-121911	SM 4500-CO2 D	WETA/18836		
[illegible]12454002	GM-1-121911	SM 4500-CO2 D	WETA/18836		
[illegible]2454003	GM-2-121911	SM 4500-CO2 D	WETA/18836		
[illegible]12454004	MW-19-121911	SM 4500-CO2 D	WETA/18836		
60112454005	MW-9-121911	SM 4500-CO2 D	WETA/18836		
60112454006	MW-23-121911	SM 4500-CO2 D	WETA/18836		

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Keystone
LABORATORIES, INC.

NELAP ACCREDITED TNI LABORATORY

MEMBER ACIL

29 December 2011

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60112454

Enclosed are the results of analyses for samples received by the laboratory on 12/21/11 11:45. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4 121911	11L1064-01	Water	12/19/11 09:00	12/21/11 11:45
GM-1-121911	11L1064-02	Water	12/19/11 09:51	12/21/11 11:45
GM-2-121911	11L1064-03	Water	12/19/11 10:32	12/21/11 11:45
MW-19-121911	11L1064-04	Water	12/19/11 11:08	12/21/11 11:45
MW-9-121911	11L1064-05	Water	12/19/11 12:01	12/21/11 11:45
MW-23-121911	11L1064-06	Water	12/19/11 12:59	12/21/11 11:45

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989

Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60112454
Project Manager: Jamie Slade

Reported
12/29/11 15:42

MEMBER ACIL

11L1064

Chain of Custody

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Workorder: 60112454 **Workorder Name:** SOLUTIA GROUNDWATER **Results Requested** 12/28/2011

Report / Invoice To

Jamie Slade
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Email: jamie.slade@pacelabs.com

Subcontract To

P.O. SUB-6134

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	8141 Alachlor	LAB USE ONLY
1	MW-4-121911	12/19/2011 09:00	60112454001	Water	2	X	01
2	GM-1-121911	12/19/2011 09:51	60112454002	Water	2	X	02
3	GM-2-121911	12/19/2011 10:32	60112454003	Water	2	X	03
4	MW-19-121911	12/19/2011 11:08	60112454004	Water	2	X	04
5	MW-9-121911	12/19/2011 12:01	60112454005	Water	2	X	05
6	MW-23-121911	12/19/2011 12:59	60112454006	Water	2	X	06

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	12/20/11 1700		
2				
3				
4				
5			D. Henning	12/21/11 11:45

Comments

Tuesday, December 20, 2011 1:13:17 PM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

MW-4 121911

11L1064-01 (Water)

Date Sampled:12/19/2011 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**2.64**	0.10	ug/l	1	1L12113	12/21/11	12/28/11 11:33	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*72.5 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

GM-1-121911

11L1064-02 (Water)

Date Sampled:12/19/2011 9:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**191000**	1000	ug/l	10000	1L12113	12/21/11	12/29/11 10:37	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*%*		*42-126*	"	"	"	"	*S-01*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

GM-2-121911

11L1064-03 (Water)

Date Sampled:12/19/2011 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**96400**	1000	ug/l	10000	1L12113	12/21/11	12/29/11 11:15	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*%*		*42-126*	"	"	"	"	*S-01*

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

MW-19-121911

11L1064-04 (Water)

Date Sampled:12/19/2011 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**2.81**	0.10	ug/l	1	1L12113	12/21/11	12/28/11 13:30	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*66.5 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

MW-9-121911

11L1064-05 (Water)

Date Sampled:12/19/2011 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**1.63**	0.13	ug/l	1	1L12113	12/21/11	12/28/11 14:09	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*71.6 %*	*42-126*		"	"	"	"	

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

MW-23-121911

11L1064-06 (Water)

Date Sampled:12/19/2011 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**0.27**	0.10	ug/l	1	1L12113	12/21/11	12/28/11 14:48	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*64.3 %*	*42-126*		"	"	"	"	

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L12113 - 3510C NP/OC Sep Fnl										
Blank (1L12113-BLK1)				Prepared: 12/21/11 Analyzed: 12/28/11						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*7.96*		"	*9.82400*		*81.0*	*42-126*			
LCS (1L12113-BS1)				Prepared: 12/21/11 Analyzed: 12/28/11						
Alachlor	2.290	0.10	ug/l	2.75000		83.3	65-135			
Surrogate: 2-Nitro-m-xylene	*7.13*		"	*9.82400*		*72.6*	*42-126*			
LCS Dup (1L12113-BSD1)				Prepared: 12/21/11 Analyzed: 12/28/11						
Alachlor	2.100	0.10	ug/l	2.75000		76.4	65-135	8.66	30	
Surrogate: 2-Nitro-m-xylene	*6.26*		"	*9.82400*		*63.8*	*42-126*			
Reference (1L12113-SRM1)				Prepared: 12/21/11 Analyzed: 12/28/11						
Alachlor	2.425	0.10	ug/l	2.75000		88.2	70-130			
Surrogate: 2-Nitro-m-xylene	*8.28*		"	*9.82400*		*84.3*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2012
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2012
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

Notes and Definitions

S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112454 Project Manager: Jamie Slade	Reported 12/29/11 15:42

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Jennie Slade

12/20/11

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 09, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: Solutia Groundwater
Pace Project No.: 60112532

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Solutia Groundwater
Pace Project No.: 60112532

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112532001	**MW-13-122011**	Water	12/20/11 09:45	12/21/11 08:15
60112532002	**OBW-1-122011**	Water	12/20/11 10:05	12/21/11 08:15
60112532003	**OBW-2-122011**	Water	12/20/11 10:40	12/21/11 08:15
60112532004	**LPZ-5-122011**	Water	12/20/11 11:25	12/21/11 08:15
60112532005	**OBW-3-122011**	Water	12/20/11 12:30	12/21/11 08:15
60112532006	**REC-1-122011**	Water	12/20/11 13:10	12/21/11 08:15
60112532007	**REC-4-122011**	Water	12/20/11 14:00	12/21/11 08:15
60112532008	**TB-122011**	Water	12/20/11 08:00	12/21/11 08:15
60112532009	**FBCSA-MW-5-122011**	Water	12/20/11 09:10	12/21/11 08:15
60112532010	**MW-24A-122011**	Water	12/20/11 10:05	12/21/11 08:15
60112532011	**VW-1-122011**	Water	12/20/11 11:10	12/21/11 08:15
60112532012	**VW-2-122011**	Water	12/20/11 12:10	12/21/11 08:15
60112532013	**MW-25A-122011**	Water	12/20/11 13:20	12/21/11 08:15

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SAMPLE ANALYTE COUNT

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112532001	MW-13-122011	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	HNS	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532002	OBW-1-122011	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	HNS	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532003	OBW-2-122011	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	HNS	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 4500-CO2 D	CMG	1	PASI-K
60112532004	LPZ-5-122011	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	HNS, JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532005	**OBW-3-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	HNS	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532006	**REC-1-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532007	**REC-4-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532008	**TB-122011**	EPA 5030B/8260	JDM	22	PASI-K
60112532009	**FBCSA-MW-5-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532010	**MW-24A-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532011	**VW-1-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532012	**VW-2-122011**	RSK 175	SK4	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112532013	**MW-25A-122011**	RSK 175	SK4	3	PASI-M
		EPA 6010	JDH	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-13-122011 **Lab ID: 60112532001** Collected: 12/20/11 09:45 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 08:58	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 08:58	74-85-1	
Methane	**2710**	ug/L	10.0	1		12/27/11 08:58	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**17900**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:27	7439-89-6	
Manganese	**1080**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:27	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/30/11 13:40	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/11 13:40	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/30/11 13:40	75-15-0	
Chlorobenzene	**10.8**	ug/L	1.0	1		12/30/11 13:40	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/30/11 13:40	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/11 13:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 13:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 13:40	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/30/11 13:40	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/30/11 13:40	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/30/11 13:40	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/30/11 13:40	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/11 13:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/11 13:40	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/30/11 13:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/30/11 13:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/11 13:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	1		12/30/11 13:40	460-00-4	
Dibromofluoromethane (S)	89	%	86-112	1		12/30/11 13:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	82-119	1		12/30/11 13:40	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1		12/30/11 13:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/30/11 13:40		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**655**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**365**	mg/L	5.0	1		12/23/11 14:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 14:48	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-13-122011 **Lab ID: 60112532001** Collected: 12/20/11 09:45 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**374**	mg/L	50.0	50		01/03/12 20:59	16887-00-6	
Sulfate	ND	mg/L	1.0	1		12/31/11 09:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:23		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:23		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:23		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**25.8**	mg/L	15.0	30		01/09/12 11:31	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**659**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-1-122011 **Lab ID: 60112532002** Collected: 12/20/11 10:05 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**36.1**	ug/L	10.0	1		12/27/11 09:19	74-84-0	
Ethene	**82.1**	ug/L	10.0	1		12/27/11 09:19	74-85-1	
Methane	**1400**	ug/L	10.0	1		12/27/11 09:19	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**307**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:30	7439-89-6	
Manganese	**8.9**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:30	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		12/30/11 13:57	67-64-1	
Benzene	ND	ug/L	1000	1000		12/30/11 13:57	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		12/30/11 13:57	75-15-0	
Chlorobenzene	**4070**	ug/L	1000	1000		12/30/11 13:57	108-90-7	
Chloroform	ND	ug/L	1000	1000		12/30/11 13:57	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		12/30/11 13:57	107-06-2	
cis-1,2-Dichloroethene	**6530**	ug/L	1000	1000		12/30/11 13:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		12/30/11 13:57	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		12/30/11 13:57	100-41-4	
Iodomethane	ND	ug/L	10000	1000		12/30/11 13:57	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		12/30/11 13:57	75-09-2	
Tetrachloroethene	**59100**	ug/L	1000	1000		12/30/11 13:57	127-18-4	
Toluene	ND	ug/L	1000	1000		12/30/11 13:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		12/30/11 13:57	71-55-6	
Trichloroethene	**4510**	ug/L	1000	1000		12/30/11 13:57	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		12/30/11 13:57	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		12/30/11 13:57	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	1000		12/30/11 13:57	460-00-4	
Dibromofluoromethane (S)	88	%	86-112	1000		12/30/11 13:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	82-119	1000		12/30/11 13:57	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1000		12/30/11 13:57	2037-26-5	
Preservation pH	**1.0**		0.10	1000		12/30/11 13:57		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**150**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**521**	mg/L	5.0	1		12/23/11 14:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**9.3**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 14:49	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-1-122011 **Lab ID: 60112532002** Collected: 12/20/11 10:05 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**361**	mg/L	50.0	50		12/31/11 10:01	16887-00-6	
Sulfate	**137**	mg/L	10.0	10		12/31/11 09:44	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:53		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:53		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**77.3**	mg/L	50.0	100		01/05/12 20:41	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**119**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-2-122011 **Lab ID: 60112532003** Collected: 12/20/11 10:40 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 09:30	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 09:30	74-85-1	
Methane	**11.3**	ug/L	10.0	1		12/27/11 09:30	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1500**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:32	7439-89-6	
Manganese	**36.8**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:32	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	2000	200		12/30/11 14:15	67-64-1	
Benzene	ND	ug/L	200	200		12/30/11 14:15	71-43-2	
Carbon disulfide	ND	ug/L	1000	200		12/30/11 14:15	75-15-0	
Chlorobenzene	**3180**	ug/L	200	200		12/30/11 14:15	108-90-7	
Chloroform	ND	ug/L	200	200		12/30/11 14:15	67-66-3	
1,2-Dichloroethane	ND	ug/L	200	200		12/30/11 14:15	107-06-2	
cis-1,2-Dichloroethene	**22800**	ug/L	200	200		12/30/11 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		12/30/11 14:15	156-60-5	
Ethylbenzene	ND	ug/L	200	200		12/30/11 14:15	100-41-4	
Iodomethane	ND	ug/L	2000	200		12/30/11 14:15	74-88-4	
Methylene chloride	ND	ug/L	200	200		12/30/11 14:15	75-09-2	
Tetrachloroethene	**13900**	ug/L	200	200		12/30/11 14:15	127-18-4	
Toluene	ND	ug/L	200	200		12/30/11 14:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		12/30/11 14:15	71-55-6	
Trichloroethene	**11000**	ug/L	200	200		12/30/11 14:15	79-01-6	
Vinyl chloride	ND	ug/L	200	200		12/30/11 14:15	75-01-4	
Xylene (Total)	ND	ug/L	600	200		12/30/11 14:15	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	200		12/30/11 14:15	460-00-4	
Dibromofluoromethane (S)	87	%	86-112	200		12/30/11 14:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	82-119	200		12/30/11 14:15	17060-07-0	
Toluene-d8 (S)	100	%	90-110	200		12/30/11 14:15	2037-26-5	
Preservation pH	**1.0**		0.10	200		12/30/11 14:15		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**255**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**409**	mg/L	5.0	1		12/23/11 14:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.081**	mg/L	0.050	1		12/27/11 14:50	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-2-122011 **Lab ID: 60112532003** Collected: 12/20/11 10:40 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**64.7**	mg/L	10.0	10		12/31/11 10:17	16887-00-6	
Sulfate	**19.6**	mg/L	10.0	10		12/31/11 10:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:33		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:33		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:33		
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**245**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: LPZ-5-122011 **Lab ID: 60112532004** Collected: 12/20/11 11:25 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**32.5**	ug/L	10.0	1		12/27/11 09:40	74-84-0	
Ethene	**70.2**	ug/L	10.0	1		12/27/11 09:40	74-85-1	
Methane	**4600**	ug/L	10.0	1		12/27/11 09:40	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**7440**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:40	7439-89-6	
Manganese	**193**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:40	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	2000	200		12/30/11 14:32	67-64-1	
Benzene	ND	ug/L	200	200		12/30/11 14:32	71-43-2	
Carbon disulfide	ND	ug/L	1000	200		12/30/11 14:32	75-15-0	
Chlorobenzene	ND	ug/L	200	200		12/30/11 14:32	108-90-7	
Chloroform	ND	ug/L	200	200		12/30/11 14:32	67-66-3	
1,2-Dichloroethane	ND	ug/L	200	200		12/30/11 14:32	107-06-2	
cis-1,2-Dichloroethene	**4500**	ug/L	200	200		12/30/11 14:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		12/30/11 14:32	156-60-5	
Ethylbenzene	ND	ug/L	200	200		12/30/11 14:32	100-41-4	
Iodomethane	ND	ug/L	2000	200		12/30/11 14:32	74-88-4	
Methylene chloride	ND	ug/L	200	200		12/30/11 14:32	75-09-2	
Tetrachloroethene	ND	ug/L	200	200		12/30/11 14:32	127-18-4	
Toluene	**81400**	ug/L	1000	1000		01/03/12 11:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		12/30/11 14:32	71-55-6	
Trichloroethene	**323**	ug/L	200	200		12/30/11 14:32	79-01-6	
Vinyl chloride	**684**	ug/L	200	200		12/30/11 14:32	75-01-4	
Xylene (Total)	ND	ug/L	600	200		12/30/11 14:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	200		12/30/11 14:32	460-00-4	
Dibromofluoromethane (S)	87	%	86-112	200		12/30/11 14:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	84	%	82-119	200		12/30/11 14:32	17060-07-0	
Toluene-d8 (S)	95	%	90-110	200		12/30/11 14:32	2037-26-5	
Preservation pH	**1.0**		0.10	200		12/30/11 14:32		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**905**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**351**	mg/L	5.0	1		12/23/11 14:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**8.7**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.075**	mg/L	0.050	1		12/27/11 15:02	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: LPZ-5-122011 **Lab ID: 60112532004** Collected: 12/20/11 11:25 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**101**	mg/L	10.0	10		01/03/12 21:15	16887-00-6	
Sulfate	**19.7**	mg/L	2.0	2		12/31/11 11:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:36		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:36		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**168**	mg/L	100	200		01/05/12 20:59	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**800**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-3-122011 **Lab ID: 60112532005** Collected: 12/20/11 12:30 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 09:51	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 09:51	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 09:51	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:43	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:43	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/30/11 14:49	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/11 14:49	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/30/11 14:49	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/30/11 14:49	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/30/11 14:49	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/11 14:49	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 14:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 14:49	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/30/11 14:49	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/30/11 14:49	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/30/11 14:49	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/30/11 14:49	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/11 14:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/11 14:49	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/30/11 14:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/30/11 14:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/11 14:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	1		12/30/11 14:49	460-00-4	
Dibromofluoromethane (S)	86	%	86-112	1		12/30/11 14:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	84	%	82-119	1		12/30/11 14:49	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		12/30/11 14:49	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/30/11 14:49		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**255**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**486**	mg/L	5.0	1		12/23/11 14:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.9**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:03	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: OBW-3-122011 **Lab ID: 60112532005** Collected: 12/20/11 12:30 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**152**	mg/L	10.0	10		12/31/11 11:57	16887-00-6	
Sulfate	**97.2**	mg/L	10.0	10		12/31/11 11:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.3**	mg/L	0.10	1		12/21/11 15:39		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:39		
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.10	1		12/21/11 15:39		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/05/12 21:17	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**231**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: REC-1-122011 **Lab ID: 60112532006** Collected: 12/20/11 13:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 10:01	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 10:01	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 10:01	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1190**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:45	7439-89-6	
Manganese	**18000**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:45	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		12/30/11 09:34	67-64-1	
Benzene	ND	ug/L	50.0	50		12/30/11 09:34	71-43-2	
Carbon disulfide	ND	ug/L	250	50		12/30/11 09:34	75-15-0	
Chlorobenzene	**156**	ug/L	50.0	50		12/30/11 09:34	108-90-7	
Chloroform	ND	ug/L	50.0	50		12/30/11 09:34	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/30/11 09:34	107-06-2	
cis-1,2-Dichloroethene	**539**	ug/L	50.0	50		12/30/11 09:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/30/11 09:34	156-60-5	
Ethylbenzene	ND	ug/L	50.0	50		12/30/11 09:34	100-41-4	
Iodomethane	ND	ug/L	500	50		12/30/11 09:34	74-88-4	
Methylene chloride	ND	ug/L	50.0	50		12/30/11 09:34	75-09-2	
Tetrachloroethene	**3940**	ug/L	50.0	50		12/30/11 09:34	127-18-4	
Toluene	ND	ug/L	50.0	50		12/30/11 09:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		12/30/11 09:34	71-55-6	
Trichloroethene	**310**	ug/L	50.0	50		12/30/11 09:34	79-01-6	
Vinyl chloride	ND	ug/L	50.0	50		12/30/11 09:34	75-01-4	
Xylene (Total)	ND	ug/L	150	50		12/30/11 09:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	50		12/30/11 09:34	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	50		12/30/11 09:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	50		12/30/11 09:34	17060-07-0	
Toluene-d8 (S)	97	%	90-110	50		12/30/11 09:34	2037-26-5	
Preservation pH	**1.0**		0.10	50		12/30/11 09:34		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**600**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**392**	mg/L	5.0	1		12/23/11 14:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:11	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: REC-1-122011 **Lab ID: 60112532006** Collected: 12/20/11 13:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**28.2**	mg/L	10.0	10		12/31/11 13:20	16887-00-6	
Sulfate	**90.3**	mg/L	10.0	10		12/31/11 13:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:54		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:54		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1600**	mg/L	1000	2000		01/05/12 21:35	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**547**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: REC-4-122011 **Lab ID: 60112532007** Collected: 12/20/11 14:00 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 10:12	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 10:12	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 10:12	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:48	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:48	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/30/11 09:19	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/11 09:19	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/30/11 09:19	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/30/11 09:19	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/30/11 09:19	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/11 09:19	107-06-2	
cis-1,2-Dichloroethene	**4.8**	ug/L	1.0	1		12/30/11 09:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 09:19	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/30/11 09:19	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/30/11 09:19	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/30/11 09:19	75-09-2	
Tetrachloroethene	**7.7**	ug/L	1.0	1		12/30/11 09:19	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/11 09:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/11 09:19	71-55-6	
Trichloroethene	**7.6**	ug/L	1.0	1		12/30/11 09:19	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/30/11 09:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/11 09:19	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	1		12/30/11 09:19	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		12/30/11 09:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		12/30/11 09:19	17060-07-0	
Toluene-d8 (S)	95	%	90-110	1		12/30/11 09:19	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/30/11 09:19		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**52.0**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**192**	mg/L	5.0	1		12/23/11 14:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**8.7**	Std. Units	0.10	1		12/21/11 15:10		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:13	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: REC-4-122011 **Lab ID: 60112532007** Collected: 12/20/11 14:00 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**169**	mg/L	50.0	50		01/05/12 10:48	16887-00-6	
Sulfate	**90.3**	mg/L	5.0	5		01/05/12 01:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.56**	mg/L	0.10	1		12/21/11 15:42		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:42		
Nitrogen, NO2 plus NO3	**0.57**	mg/L	0.10	1		12/21/11 15:42		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.55**	mg/L	0.50	1		01/05/12 21:53	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**46.0**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: TB-122011 **Lab ID: 60112532008** Collected: 12/20/11 08:00 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/30/11 09:03	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/11 09:03	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/30/11 09:03	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/30/11 09:03	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/30/11 09:03	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/11 09:03	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 09:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/11 09:03	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/30/11 09:03	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/30/11 09:03	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/30/11 09:03	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/30/11 09:03	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/11 09:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/30/11 09:03	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/30/11 09:03	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/30/11 09:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/30/11 09:03	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	1		12/30/11 09:03	460-00-4	
Dibromofluoromethane (S)	108	%	86-112	1		12/30/11 09:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		12/30/11 09:03	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		12/30/11 09:03	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/30/11 09:03		

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: FBCSA-MW-5-122011 **Lab ID: 60112532009** Collected: 12/20/11 09:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 10:23	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 10:23	74-85-1	
Methane	**1320**	ug/L	10.0	1		12/27/11 10:23	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**6920**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:50	7439-89-6	
Manganese	**6870**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		12/30/11 09:50	67-64-1	
Benzene	ND	ug/L	5.0	5		12/30/11 09:50	71-43-2	
Carbon disulfide	ND	ug/L	25.0	5		12/30/11 09:50	75-15-0	
Chlorobenzene	**279**	ug/L	5.0	5		12/30/11 09:50	108-90-7	
Chloroform	ND	ug/L	5.0	5		12/30/11 09:50	67-66-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/30/11 09:50	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 09:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 09:50	156-60-5	
lbenzene	ND	ug/L	5.0	5		12/30/11 09:50	100-41-4	
ıethane	ND	ug/L	50.0	5		12/30/11 09:50	74-88-4	
Methylene chloride	ND	ug/L	5.0	5		12/30/11 09:50	75-09-2	
Tetrachloroethene	ND	ug/L	5.0	5		12/30/11 09:50	127-18-4	
Toluene	ND	ug/L	5.0	5		12/30/11 09:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/30/11 09:50	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		12/30/11 09:50	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		12/30/11 09:50	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/30/11 09:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	5		12/30/11 09:50	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	5		12/30/11 09:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	82-119	5		12/30/11 09:50	17060-07-0	
Toluene-d8 (S)	96	%	90-110	5		12/30/11 09:50	2037-26-5	
Preservation pH	**1.0**		0.10	5		12/30/11 09:50		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**720**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**311**	mg/L	5.0	1		12/23/11 14:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:14	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: FBCSA-MW-5-122011 **Lab ID: 60112532009** Collected: 12/20/11 09:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**13.8**	mg/L	1.0	1		12/31/11 13:53	16887-00-6	
Sulfate	**111**	mg/L	20.0	20		01/03/12 21:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:21		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:21		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:21		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11.0**	mg/L	7.5	15		01/05/12 22:11	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**724**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-24A-122011 **Lab ID: 60112532010** Collected: 12/20/11 10:05 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 10:34	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 10:34	74-85-1	
Methane	**3890**	ug/L	10.0	1		12/27/11 10:34	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**38600**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:53	7439-89-6	
Manganese	**2440**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:53	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		12/30/11 10:06	67-64-1	
Benzene	**6520**	ug/L	50.0	50		01/03/12 11:56	71-43-2	
Carbon disulfide	ND	ug/L	100	20		12/30/11 10:06	75-15-0	
Chlorobenzene	**1310**	ug/L	20.0	20		12/30/11 10:06	108-90-7	
Chloroform	ND	ug/L	20.0	20		12/30/11 10:06	67-66-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		12/30/11 10:06	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		12/30/11 10:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		12/30/11 10:06	156-60-5	
lbenzene	**196**	ug/L	20.0	20		12/30/11 10:06	100-41-4	
ıethane	ND	ug/L	200	20		12/30/11 10:06	74-88-4	
Methylene chloride	ND	ug/L	20.0	20		12/30/11 10:06	75-09-2	
Tetrachloroethene	ND	ug/L	20.0	20		12/30/11 10:06	127-18-4	
Toluene	**77.4**	ug/L	20.0	20		12/30/11 10:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		12/30/11 10:06	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		12/30/11 10:06	79-01-6	
Vinyl chloride	ND	ug/L	20.0	20		12/30/11 10:06	75-01-4	
Xylene (Total)	**266**	ug/L	60.0	20		12/30/11 10:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	20		12/30/11 10:06	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	20		12/30/11 10:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	82-119	20		12/30/11 10:06	17060-07-0	
Toluene-d8 (S)	98	%	90-110	20		12/30/11 10:06	2037-26-5	
Preservation pH	**1.0**		0.10	20		12/30/11 10:06		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**575**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**820**	mg/L	5.0	1		12/27/11 09:46		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:14	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-24A-122011 **Lab ID: 60112532010** Collected: 12/20/11 10:05 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**93.6**	mg/L	10.0	10		12/31/11 15:16	16887-00-6	
Sulfate	ND	mg/L	1.0	1		12/31/11 14:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:53		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:53		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**23.4**	mg/L	15.0	30		01/05/12 22:29	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**688**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: VW-1-122011 **Lab ID: 60112532011** Collected: 12/20/11 11:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 11:18	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 11:18	74-85-1	
Methane	**4160**	ug/L	10.0	1		12/27/11 11:18	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**24300**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:55	7439-89-6	
Manganese	**1560**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:55	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		12/30/11 10:21	67-64-1	
Benzene	**9.7**	ug/L	5.0	5		12/30/11 10:21	71-43-2	
Carbon disulfide	ND	ug/L	25.0	5		12/30/11 10:21	75-15-0	
Chlorobenzene	**434**	ug/L	5.0	5		12/30/11 10:21	108-90-7	
Chloroform	ND	ug/L	5.0	5		12/30/11 10:21	67-66-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/30/11 10:21	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 10:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 10:21	156-60-5	
lbenzene	ND	ug/L	5.0	5		12/30/11 10:21	100-41-4	
ıethane	ND	ug/L	50.0	5		12/30/11 10:21	74-88-4	
Methylene chloride	ND	ug/L	5.0	5		12/30/11 10:21	75-09-2	
Tetrachloroethene	ND	ug/L	5.0	5		12/30/11 10:21	127-18-4	
Toluene	ND	ug/L	5.0	5		12/30/11 10:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/30/11 10:21	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		12/30/11 10:21	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		12/30/11 10:21	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/30/11 10:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	5		12/30/11 10:21	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	5		12/30/11 10:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	5		12/30/11 10:21	17060-07-0	
Toluene-d8 (S)	99	%	90-110	5		12/30/11 10:21	2037-26-5	
Preservation pH	**1.0**		0.10	5		12/30/11 10:21		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**630**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1390**	mg/L	5.0	1		12/27/11 09:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:14	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: VW-1-122011 **Lab ID: 60112532011** Collected: 12/20/11 11:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**19.4**	mg/L	5.0	5		12/31/11 15:49	16887-00-6	
Sulfate	**490**	mg/L	50.0	50		01/04/12 15:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:35		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:35		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:35		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**30.7**	mg/L	15.0	30		01/05/12 22:47	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**680**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: VW-2-122011 **Lab ID: 60112532012** Collected: 12/20/11 12:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 11:39	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 11:39	74-85-1	
Methane	**4680**	ug/L	10.0	1		12/27/11 11:39	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**5220**	ug/L	50.0	1	12/22/11 13:00	12/23/11 17:58	7439-89-6	
Manganese	**766**	ug/L	5.0	1	12/22/11 13:00	12/23/11 17:58	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		12/30/11 10:37	67-64-1	
Benzene	**32.5**	ug/L	5.0	5		12/30/11 10:37	71-43-2	
Carbon disulfide	ND	ug/L	25.0	5		12/30/11 10:37	75-15-0	
Chlorobenzene	**606**	ug/L	5.0	5		12/30/11 10:37	108-90-7	
Chloroform	ND	ug/L	5.0	5		12/30/11 10:37	67-66-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/30/11 10:37	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 10:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/30/11 10:37	156-60-5	
lbenzene	ND	ug/L	5.0	5		12/30/11 10:37	100-41-4	
nethane	ND	ug/L	50.0	5		12/30/11 10:37	74-88-4	
Methylene chloride	ND	ug/L	5.0	5		12/30/11 10:37	75-09-2	
Tetrachloroethene	ND	ug/L	5.0	5		12/30/11 10:37	127-18-4	
Toluene	ND	ug/L	5.0	5		12/30/11 10:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/30/11 10:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		12/30/11 10:37	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		12/30/11 10:37	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/30/11 10:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	5		12/30/11 10:37	460-00-4	
Dibromofluoromethane (S)	109	%	86-112	5		12/30/11 10:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	82-119	5		12/30/11 10:37	17060-07-0	
Toluene-d8 (S)	98	%	90-110	5		12/30/11 10:37	2037-26-5	
Preservation pH	**1.0**		0.10	5		12/30/11 10:37		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**905**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1490**	mg/L	5.0	1		12/27/11 09:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		12/21/11 14:20		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/27/11 15:15	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: VW-2-122011 **Lab ID: 60112532012** Collected: 12/20/11 12:10 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**37.6**	mg/L	5.0	5		12/31/11 16:22	16887-00-6	
Sulfate	**111**	mg/L	50.0	50		01/03/12 22:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:39		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:39		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:39		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**27.1**	mg/L	15.0	30		01/05/12 23:05	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**854**	mg/L	20.0	1		01/03/12 09:26	124-38-9	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-25A-122011 **Lab ID: 60112532013** Collected: 12/20/11 13:20 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 11:50	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 11:50	74-85-1	
Methane	**18700**	ug/L	10.0	1		12/27/11 11:50	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**2130**	ug/L	50.0	1	12/22/11 13:00	12/23/11 18:01	7439-89-6	
Manganese	**36.9**	ug/L	5.0	1	12/22/11 13:00	12/23/11 18:01	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**147**	ug/L	50.0	5		12/23/11 19:00	67-64-1	
Benzene	ND	ug/L	5.0	5		12/23/11 19:00	71-43-2	
Carbon disulfide	ND	ug/L	25.0	5		12/23/11 19:00	75-15-0	
Chlorobenzene	**21.8**	ug/L	5.0	5		12/23/11 19:00	108-90-7	
Chloroform	ND	ug/L	5.0	5		12/23/11 19:00	67-66-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/23/11 19:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		12/23/11 19:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/23/11 19:00	156-60-5	
[illegible]lbenzene	ND	ug/L	5.0	5		12/23/11 19:00	100-41-4	
[illegible]nethane	ND	ug/L	50.0	5		12/23/11 19:00	74-88-4	
M[illegible]hylene chloride	ND	ug/L	5.0	5		12/23/11 19:00	75-09-2	
Tetrachloroethene	**9.9**	ug/L	5.0	5		12/23/11 19:00	127-18-4	
Toluene	**20.7**	ug/L	5.0	5		12/23/11 19:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/23/11 19:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		12/23/11 19:00	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		12/23/11 19:00	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		12/23/11 19:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	87-113	5		12/23/11 19:00	460-00-4	F1
Dibromofluoromethane (S)	103	%	86-112	5		12/23/11 19:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	5		12/23/11 19:00	17060-07-0	
Toluene-d8 (S)	100	%	90-110	5		12/23/11 19:00	2037-26-5	
Preservation pH	**1.0**		0.10	5		12/23/11 19:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1320**	mg/L	20.0	1		01/03/12 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3340**	mg/L	5.0	1		12/27/11 09:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**11.0**	Std. Units	0.10	1		12/21/11 15:10		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	1.0	1		12/27/11 15:16	18496-25-8	

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ANALYTICAL RESULTS

Project: Solutia Groundwater
Pace Project No.: 60112532

Sample: MW-25A-122011 **Lab ID: 60112532013** Collected: 12/20/11 13:20 Received: 12/21/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**17.5**	mg/L	1.0	1		12/31/11 16:39	16887-00-6	
Sulfate	**326**	mg/L	50.0	50		01/03/12 23:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/21/11 15:49		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/21/11 15:49		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/21/11 15:49		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**478**	mg/L	150	300		01/05/12 23:23	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**660**	mg/L	20.0	1		01/03/12 16:16	124-38-9	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: AIR/13905 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 1121112 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/27/11 08:06	
Ethene	ug/L	ND	10.0	12/27/11 08:06	
Methane	ug/L	ND	10.0	12/27/11 08:06	

LABORATORY CONTROL SAMPLE & LCSD: 1121113 1121114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	110	105	97	70-130	8	30	
Ethene	ug/L	106	110	103	104	97	70-130	6	30	
Methane	ug/L	60.7	62.8	63.5	104	105	70-130	1	30	

PLE DUPLICATE: 1121323

Parameter	Units	60112532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	2710	2540	6	30	

SAMPLE DUPLICATE: 1121324

Parameter	Units	60112532011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	6.3J		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	4160	3920	6	30	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: MPRP/16540 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 930417 Matrix: Water

Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	12/23/11 16:57	
Manganese	ug/L	ND	5.0	12/27/11 16:26	

LABORATORY CONTROL SAMPLE: 930418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9750	97	80-120	
Manganese	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 930419 930420

Parameter	Units	60112384014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	82.3	10000	10000	9530	9920	94	98	75-125	4	20	
Manganese	ug/L	30.2	1000	1000	1020	1060	99	103	75-125	4	20	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: MSV/42687
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112532013

METHOD BLANK: 930894
Matrix: Water
Associated Lab Samples: 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/23/11 14:17	
1,2-Dichloroethane	ug/L	ND	1.0	12/23/11 14:17	
Acetone	ug/L	ND	10.0	12/23/11 14:17	
Benzene	ug/L	ND	1.0	12/23/11 14:17	
Carbon disulfide	ug/L	ND	5.0	12/23/11 14:17	
Chlorobenzene	ug/L	ND	1.0	12/23/11 14:17	
Chloroform	ug/L	ND	1.0	12/23/11 14:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/23/11 14:17	
Ethylbenzene	ug/L	ND	1.0	12/23/11 14:17	
Iodomethane	ug/L	ND	10.0	12/23/11 14:17	
Methylene chloride	ug/L	ND	1.0	12/23/11 14:17	
Tetrachloroethene	ug/L	ND	1.0	12/23/11 14:17	
Toluene	ug/L	ND	1.0	12/23/11 14:17	
s-1,2-Dichloroethene	ug/L	ND	1.0	12/23/11 14:17	
loroethene	ug/L	ND	1.0	12/23/11 14:17	
Vinyl chloride	ug/L	ND	1.0	12/23/11 14:17	
Xylene (Total)	ug/L	ND	3.0	12/23/11 14:17	
1,2-Dichloroethane-d4 (S)	%	103	82-119	12/23/11 14:17	
4-Bromofluorobenzene (S)	%	103	87-113	12/23/11 14:17	
Dibromofluoromethane (S)	%	105	86-112	12/23/11 14:17	
Toluene-d8 (S)	%	97	90-110	12/23/11 14:17	

LABORATORY CONTROL SAMPLE: 930895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	82-119	
1,2-Dichloroethane	ug/L	20	22.0	110	77-125	
Acetone	ug/L	100	77.0	77	18-192	
Benzene	ug/L	20	19.8	99	82-117	
Carbon disulfide	ug/L	20	21.6	108	75-138	
Chlorobenzene	ug/L	20	19.9	100	83-121	
Chloroform	ug/L	20	21.3	107	82-116	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	80-119	
Ethylbenzene	ug/L	20	19.6	98	79-121	
Iodomethane	ug/L	20	12.8	64	14-169	
Methylene chloride	ug/L	20	20.0	100	75-118	
Tetrachloroethene	ug/L	20	20.7	103	80-124	
Toluene	ug/L	20	18.9	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	22.2	111	79-120	
Trichloroethene	ug/L	20	21.6	108	76-122	
l chloride	ug/L	20	17.3	86	57-163	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

LABORATORY CONTROL SAMPLE: 930895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	59.0	98	75-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			102	87-113	
Dibromofluoromethane (S)	%			106	86-112	
Toluene-d8 (S)	%			96	90-110	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: MSV/42798 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005

METHOD BLANK: 933138 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/11 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/11 10:47	
Acetone	ug/L	ND	10.0	12/30/11 10:47	
Benzene	ug/L	ND	1.0	12/30/11 10:47	
Carbon disulfide	ug/L	ND	5.0	12/30/11 10:47	
Chlorobenzene	ug/L	ND	1.0	12/30/11 10:47	
Chloroform	ug/L	ND	1.0	12/30/11 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 10:47	
Ethylbenzene	ug/L	ND	1.0	12/30/11 10:47	
Iodomethane	ug/L	ND	10.0	12/30/11 10:47	
Methylene chloride	ug/L	ND	1.0	12/30/11 10:47	
Tetrachloroethene	ug/L	ND	1.0	12/30/11 10:47	
Toluene	ug/L	ND	1.0	12/30/11 10:47	
[illegible]ns-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 10:47	
[illegible]loroethene	ug/L	ND	1.0	12/30/11 10:47	
[illegible]yl chloride	ug/L	ND	1.0	12/30/11 10:47	
Xylene (Total)	ug/L	ND	3.0	12/30/11 10:47	
1,2-Dichloroethane-d4 (S)	%	85	82-119	12/30/11 10:47	
4-Bromofluorobenzene (S)	%	98	87-113	12/30/11 10:47	
Dibromofluoromethane (S)	%	87	86-112	12/30/11 10:47	
Toluene-d8 (S)	%	102	90-110	12/30/11 10:47	

LABORATORY CONTROL SAMPLE: 933139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.0	85	82-119	
1,2-Dichloroethane	ug/L	20	16.6	83	77-125	
Acetone	ug/L	100	84.5	84	18-192	
Benzene	ug/L	20	19.3	97	82-117	
Carbon disulfide	ug/L	20	21.7	109	75-138	
Chlorobenzene	ug/L	20	18.6	93	83-121	
Chloroform	ug/L	20	16.7	83	82-116	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	80-119	
Ethylbenzene	ug/L	20	18.9	94	79-121	
Iodomethane	ug/L	20	16.3	81	14-169	
Methylene chloride	ug/L	20	18.2	91	75-118	
Tetrachloroethene	ug/L	20	19.7	98	80-124	
Toluene	ug/L	20	18.9	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	79-120	
Trichloroethene	ug/L	20	18.3	91	76-122	
[illegible] l chloride	ug/L	20	19.8	99	57-163	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

LABORATORY CONTROL SAMPLE: 933139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	55.9	93	75-120	
1,2-Dichloroethane-d4 (S)	%			83	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			88	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933140 933141

Parameter	Units	60112484005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.3	16.8	92	84	57-128	9	27	
1,2-Dichloroethane	ug/L	ND	20	20	18.4	16.3	92	81	44-145	12	22	
Acetone	ug/L	ND	100	100	54.0	52.6	54	53	30-147	3	30	
Benzene	ug/L	ND	20	20	20.6	19.0	103	95	58-139	8	21	
Carbon disulfide	ug/L	ND	20	20	23.9	23.0	118	114	28-155	4	25	
Chlorobenzene	ug/L	ND	20	20	19.5	18.1	98	91	56-129	7	21	
Chloroform	ug/L	ND	20	20	17.7	16.1	88	81	55-130	9	23	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.6	17.6	93	88	34-152	6	26	
Ethylbenzene	ug/L	ND	20	20	19.6	18.0	98	90	56-138	9	19	
Iodomethane	ug/L	ND	20	20	18.8	19.6	71	75	10-161	4	30	
Methylene chloride	ug/L	ND	20	20	19.2	18.4	95	91	44-133	4	27	
Tetrachloroethene	ug/L	ND	20	20	21.2	19.3	106	96	47-140	9	24	
Toluene	ug/L	ND	20	20	19.9	18.6	100	93	59-140	7	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.7	19.2	104	96	62-130	7	25	
Trichloroethene	ug/L	ND	20	20	20.7	19.3	104	97	37-148	7	25	
Vinyl chloride	ug/L	ND	20	20	23.7	23.0	119	115	47-133	3	32	
Xylene (Total)	ug/L	ND	60	60	58.3	53.2	97	89	52-146	9	19	
1,2-Dichloroethane-d4 (S)	%						85	82	82-119			
4-Bromofluorobenzene (S)	%						100	100	87-113			
Dibromofluoromethane (S)	%						86	88	86-112			
Toluene-d8 (S)	%						103	101	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: MSV/42806 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112532006, 60112532007, 60112532008, 60112532009, 60112532010, 60112532011, 60112532012

METHOD BLANK: 933445 | Matrix: Water
Associated Lab Samples: 60112532006, 60112532007, 60112532008, 60112532009, 60112532010, 60112532011, 60112532012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/11 08:48	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/11 08:48	
Acetone	ug/L	ND	10.0	12/30/11 08:48	
Benzene	ug/L	ND	1.0	12/30/11 08:48	
Carbon disulfide	ug/L	ND	5.0	12/30/11 08:48	
Chlorobenzene	ug/L	ND	1.0	12/30/11 08:48	
Chloroform	ug/L	ND	1.0	12/30/11 08:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 08:48	
Ethylbenzene	ug/L	ND	1.0	12/30/11 08:48	
Iodomethane	ug/L	ND	10.0	12/30/11 08:48	
Methylene chloride	ug/L	ND	1.0	12/30/11 08:48	
Tetrachloroethene	ug/L	ND	1.0	12/30/11 08:48	
Toluene	ug/L	ND	1.0	12/30/11 08:48	
' ns-1,2-Dichloroethene	ug/L	ND	1.0	12/30/11 08:48	
ıloroethene	ug/L	ND	1.0	12/30/11 08:48	
....yl chloride	ug/L	ND	1.0	12/30/11 08:48	
Xylene (Total)	ug/L	ND	3.0	12/30/11 08:48	
1,2-Dichloroethane-d4 (S)	%	98	82-119	12/30/11 08:48	
4-Bromofluorobenzene (S)	%	95	87-113	12/30/11 08:48	
Dibromofluoromethane (S)	%	102	86-112	12/30/11 08:48	
Toluene-d8 (S)	%	96	90-110	12/30/11 08:48	

LABORATORY CONTROL SAMPLE: 933446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	82-119	
1,2-Dichloroethane	ug/L	20	20.1	100	77-125	
Acetone	ug/L	100	111	111	18-192	
Benzene	ug/L	20	19.6	98	82-117	
Carbon disulfide	ug/L	20	19.9	100	75-138	
Chlorobenzene	ug/L	20	19.4	97	83-121	
Chloroform	ug/L	20	19.7	98	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	80-119	
Ethylbenzene	ug/L	20	19.5	98	79-121	
Iodomethane	ug/L	20	18.5	92	14-169	
Methylene chloride	ug/L	20	19.8	99	75-118	
Tetrachloroethene	ug/L	20	20.4	102	80-124	
Toluene	ug/L	20	18.3	92	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	79-120	
Trichloroethene	ug/L	20	17.9	89	76-122	
chloride	ug/L	20	15.3	76	57-163	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

LABORATORY CONTROL SAMPLE: 933446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	57.9	97	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			97	90-110	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: MSV/42822 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112532004, 60112532010

METHOD BLANK: 933793 | Matrix: Water
Associated Lab Samples: 60112532004, 60112532010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/03/12 09:53	
Toluene	ug/L	ND	1.0	01/03/12 09:53	
1,2-Dichloroethane-d4 (S)	%	106	82-119	01/03/12 09:53	
4-Bromofluorobenzene (S)	%	97	87-113	01/03/12 09:53	
Dibromofluoromethane (S)	%	102	86-112	01/03/12 09:53	
Toluene-d8 (S)	%	104	90-110	01/03/12 09:53	

LABORATORY CONTROL SAMPLE: 933794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.7	88	82-117	
Toluene	ug/L	20	19.9	99	80-120	
Dichloroethane-d4 (S)	%			103	82-119	
romofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			105	86-112	
Toluene-d8 (S)	%			107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933795 933796

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	18.8	19.7	94	99	58-139	5	21	
Toluene	ug/L	ND	20	20	19.9	21.0	100	105	59-140	5	19	
1,2-Dichloroethane-d4 (S)	%						104	106	82-119			
4-Bromofluorobenzene (S)	%						100	95	87-113			
Dibromofluoromethane (S)	%						103	103	86-112			
Toluene-d8 (S)	%						107	99	90-110			

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32836 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012

METHOD BLANK: 933200 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 09:30	

LABORATORY CONTROL SAMPLE: 933201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	90-110	

SAMPLE DUPLICATE: 933202

Parameter	Units	60112454001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	225	230	2	9	

SAMPLE DUPLICATE: 933203

Parameter	Units	60112454002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	765	800	4	9	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32884
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112532013

METHOD BLANK: 934214
Matrix: Water
Associated Lab Samples: 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	01/03/12 10:00	

LABORATORY CONTROL SAMPLE: 934215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	90-110	

SAMPLE DUPLICATE: 934216

Parameter	Units	60112532013 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1320	1310	1	9	

SAMPLE DUPLICATE: 934217

Parameter	Units	60112813006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	78.0	78.0	0	9	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32745 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009

METHOD BLANK: 931356 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/23/11 14:22	

SAMPLE DUPLICATE: 931357

Parameter	Units	60112457001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	17	

SAMPLE DUPLICATE: 931358

Parameter	Units	60112484005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	734	715	3	17	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32758 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 931924 Matrix: Water
Associated Lab Samples: 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/27/11 09:46	

SAMPLE DUPLICATE: 931925

Parameter	Units	60112532010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	820	823	0	17	

SAMPLE DUPLICATE: 931926

Parameter	Units	60112750001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6560	6640	1	17	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32707 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532009, 60112532010, 60112532011, 60112532012

SAMPLE DUPLICATE: 930232

Parameter	Units	60112540001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32709
Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60112532007, 60112532013

SAMPLE DUPLICATE: 930297

Parameter	Units	60112496003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	5	H6

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WET/32778 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 932174 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/27/11 14:18	

LABORATORY CONTROL SAMPLE: 932175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 932176

Parameter	Units	60112532001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	97	75-125	

SAMPLE DUPLICATE: 932177

Parameter	Units	60112532002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 932178

Parameter	Units	60112532011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WETA/18830 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 933871 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/31/11 05:36	
Sulfate	mg/L	ND	1.0	12/31/11 05:36	

METHOD BLANK: 934930 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/03/12 19:19	
Sulfate	mg/L	ND	1.0	01/03/12 19:19	

THOD BLANK: 934988 Matrix: Water
Associated Lab Samples: 60112532007, 60112532011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/04/12 09:07	
Sulfate	mg/L	ND	1.0	01/04/12 09:07	

LABORATORY CONTROL SAMPLE: 933872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

LABORATORY CONTROL SAMPLE: 934931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

LABORATORY CONTROL SAMPLE: 934989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933873 933874

Parameter	Units	60112264011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1050	500	500	1470	1470	85	84	64-118	0	12	
Sulfate	mg/L	129	50	50	173	168	86	78	61-119	2	10	

MATRIX SPIKE SAMPLE: 933875

Parameter	Units	60112532005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	152	250	391	95	64-118	
Sulfate	mg/L	97.2	50	146	98	61-119	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WETA/18753 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 930193 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532003, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/21/11 15:19	
Nitrogen, Nitrite	mg/L	ND	0.10	12/21/11 15:19	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/21/11 15:19	

LABORATORY CONTROL SAMPLE: 930194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	90-110	
Nitrogen, Nitrite	mg/L	.4	0.42	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

TRIX SPIKE SAMPLE: 930196

Parameter	Units	60112530001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.90	1.6	2.6	107	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.43	105	90-110	
Nitrogen, NO2 plus NO3	mg/L	0.91	2	3.0	106	90-110	

MATRIX SPIKE SAMPLE: 930197

Parameter	Units	60112516007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	3.3	1.6	4.8	95	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.44	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	3.3	2	5.2	96	90-110	

SAMPLE DUPLICATE: 930195

Parameter	Units	60112532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: Solutia Groundwater
Pace Project No.: 60112532

QC Batch: WETA/10968 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112532001, 60112532002, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

METHOD BLANK: 552592 Matrix: Water
Associated Lab Samples: 60112532001, 60112532002, 60112532004, 60112532005, 60112532006, 60112532007, 60112532009, 60112532010, 60112532011, 60112532012, 60112532013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	01/05/12 17:23	

LABORATORY CONTROL SAMPLE: 552593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552594 552595

Parameter	Units	60111970002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Total Organic Carbon	mg/L	0.28J	2.5	2.5	2.9	2.9	105	104	80-120	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552596 552597

Parameter	Units	60112532001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	25.8	75	75	113	116	117	120	80-120	2	20	

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QUALIFIERS

Project: Solutia Groundwater
Pace Project No.: 60112532

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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BORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/42687

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42798

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42806

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F1	The sample was analyzed at a dilution due to foaming of the sample in the purge vessel.
H6	Analysis initiated more than 15 minutes after sample collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112532001	MW-13-122011	RSK 175	AIR/13905		
60112532002	OBW-1-122011	RSK 175	AIR/13905		
60112532003	OBW-2-122011	RSK 175	AIR/13905		
60112532004	LPZ-5-122011	RSK 175	AIR/13905		
60112532005	OBW-3-122011	RSK 175	AIR/13905		
60112532006	REC-1-122011	RSK 175	AIR/13905		
60112532007	REC-4-122011	RSK 175	AIR/13905		
60112532009	FBCSA-MW-5-122011	RSK 175	AIR/13905		
60112532010	MW-24A-122011	RSK 175	AIR/13905		
60112532011	VW-1-122011	RSK 175	AIR/13905		
60112532012	VW-2-122011	RSK 175	AIR/13905		
60112532013	MW-25A-122011	RSK 175	AIR/13905		
60112532001	MW-13-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532002	OBW-1-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532003	OBW-2-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532004	LPZ-5-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532005	OBW-3-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532006	REC-1-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532007	REC-4-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532009	FBCSA-MW-5-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532010	MW-24A-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532011	VW-1-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532012	VW-2-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532013	MW-25A-122011	EPA 3010	MPRP/16540	EPA 6010	ICP/14227
60112532001	MW-13-122011	EPA 5030B/8260	MSV/42798		
60112532002	OBW-1-122011	EPA 5030B/8260	MSV/42798		
60112532003	OBW-2-122011	EPA 5030B/8260	MSV/42798		
60112532004	LPZ-5-122011	EPA 5030B/8260	MSV/42798		
60112532004	LPZ-5-122011	EPA 5030B/8260	MSV/42822		
60112532005	OBW-3-122011	EPA 5030B/8260	MSV/42798		
60112532006	REC-1-122011	EPA 5030B/8260	MSV/42806		
60112532007	REC-4-122011	EPA 5030B/8260	MSV/42806		
60112532008	TB-122011	EPA 5030B/8260	MSV/42806		
60112532009	FBCSA-MW-5-122011	EPA 5030B/8260	MSV/42806		
60112532010	MW-24A-122011	EPA 5030B/8260	MSV/42806		
60112532010	MW-24A-122011	EPA 5030B/8260	MSV/42822		
60112532011	VW-1-122011	EPA 5030B/8260	MSV/42806		
60112532012	VW-2-122011	EPA 5030B/8260	MSV/42806		
60112532013	MW-25A-122011	EPA 5030B/8260	MSV/42687		
60112532001	MW-13-122011	SM 2320B	WET/32836		
60112532002	OBW-1-122011	SM 2320B	WET/32836		
60112532003	OBW-2-122011	SM 2320B	WET/32836		
60112532004	LPZ-5-122011	SM 2320B	WET/32836		
60112532005	OBW-3-122011	SM 2320B	WET/32836		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112532006	REC-1-122011	SM 2320B	WET/32836		
60112532007	REC-4-122011	SM 2320B	WET/32836		
60112532009	FBCSA-MW-5-122011	SM 2320B	WET/32836		
60112532010	MW-24A-122011	SM 2320B	WET/32836		
60112532011	VW-1-122011	SM 2320B	WET/32836		
60112532012	VW-2-122011	SM 2320B	WET/32836		
60112532013	MW-25A-122011	SM 2320B	WET/32884		
60112532001	MW-13-122011	SM 2540C	WET/32745		
60112532002	OBW-1-122011	SM 2540C	WET/32745		
60112532003	OBW-2-122011	SM 2540C	WET/32745		
60112532004	LPZ-5-122011	SM 2540C	WET/32745		
60112532005	OBW-3-122011	SM 2540C	WET/32745		
60112532006	REC-1-122011	SM 2540C	WET/32745		
60112532007	REC-4-122011	SM 2540C	WET/32745		
60112532009	FBCSA-MW-5-122011	SM 2540C	WET/32745		
60112532010	MW-24A-122011	SM 2540C	WET/32758		
60112532011	VW-1-122011	SM 2540C	WET/32758		
60112532012	VW-2-122011	SM 2540C	WET/32758		
2532013	MW-25A-122011	SM 2540C	WET/32758		
2532001	MW-13-122011	SM 4500-H+B	WET/32707		
60112532002	OBW-1-122011	SM 4500-H+B	WET/32707		
60112532003	OBW-2-122011	SM 4500-H+B	WET/32707		
60112532004	LPZ-5-122011	SM 4500-H+B	WET/32707		
60112532005	OBW-3-122011	SM 4500-H+B	WET/32707		
60112532006	REC-1-122011	SM 4500-H+B	WET/32707		
60112532007	REC-4-122011	SM 4500-H+B	WET/32709		
60112532009	FBCSA-MW-5-122011	SM 4500-H+B	WET/32707		
60112532010	MW-24A-122011	SM 4500-H+B	WET/32707		
60112532011	VW-1-122011	SM 4500-H+B	WET/32707		
60112532012	VW-2-122011	SM 4500-H+B	WET/32707		
60112532013	MW-25A-122011	SM 4500-H+B	WET/32709		
60112532001	MW-13-122011	SM 4500-S-2 D	WET/32778		
60112532002	OBW-1-122011	SM 4500-S-2 D	WET/32778		
60112532003	OBW-2-122011	SM 4500-S-2 D	WET/32778		
60112532004	LPZ-5-122011	SM 4500-S-2 D	WET/32778		
60112532005	OBW-3-122011	SM 4500-S-2 D	WET/32778		
60112532006	REC-1-122011	SM 4500-S-2 D	WET/32778		
60112532007	REC-4-122011	SM 4500-S-2 D	WET/32778		
60112532009	FBCSA-MW-5-122011	SM 4500-S-2 D	WET/32778		
60112532010	MW-24A-122011	SM 4500-S-2 D	WET/32778		
60112532011	VW-1-122011	SM 4500-S-2 D	WET/32778		
60112532012	VW-2-122011	SM 4500-S-2 D	WET/32778		
60112532013	MW-25A-122011	SM 4500-S-2 D	WET/32778		
60112532001	MW-13-122011	EPA 300.0	WETA/18830		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Solutia Groundwater
Pace Project No.: 60112532

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112532002	OBW-1-122011	EPA 300.0	WETA/18830		
60112532003	OBW-2-122011	EPA 300.0	WETA/18830		
60112532004	LPZ-5-122011	EPA 300.0	WETA/18830		
60112532005	OBW-3-122011	EPA 300.0	WETA/18830		
60112532006	REC-1-122011	EPA 300.0	WETA/18830		
60112532007	REC-4-122011	EPA 300.0	WETA/18830		
60112532009	FBCSA-MW-5-122011	EPA 300.0	WETA/18830		
60112532010	MW-24A-122011	EPA 300.0	WETA/18830		
60112532011	VW-1-122011	EPA 300.0	WETA/18830		
60112532012	VW-2-122011	EPA 300.0	WETA/18830		
60112532013	MW-25A-122011	EPA 300.0	WETA/18830		
60112532001	MW-13-122011	EPA 353.2	WETA/18753		
60112532002	OBW-1-122011	EPA 353.2	WETA/18753		
60112532003	OBW-2-122011	EPA 353.2	WETA/18753		
60112532004	LPZ-5-122011	EPA 353.2	WETA/18753		
60112532005	OBW-3-122011	EPA 353.2	WETA/18753		
60112532006	REC-1-122011	EPA 353.2	WETA/18753		
60112532007	REC-4-122011	EPA 353.2	WETA/18753		
60112532009	FBCSA-MW-5-122011	EPA 353.2	WETA/18753		
60112532010	MW-24A-122011	EPA 353.2	WETA/18753		
60112532011	VW-1-122011	EPA 353.2	WETA/18753		
60112532012	VW-2-122011	EPA 353.2	WETA/18753		
60112532013	MW-25A-122011	EPA 353.2	WETA/18753		
60112532001	MW-13-122011	SM 5310C	WETA/10968		
60112532002	OBW-1-122011	SM 5310C	WETA/10968		
60112532004	LPZ-5-122011	SM 5310C	WETA/10968		
60112532005	OBW-3-122011	SM 5310C	WETA/10968		
60112532006	REC-1-122011	SM 5310C	WETA/10968		
60112532007	REC-4-122011	SM 5310C	WETA/10968		
60112532009	FBCSA-MW-5-122011	SM 5310C	WETA/10968		
60112532010	MW-24A-122011	SM 5310C	WETA/10968		
60112532011	VW-1-122011	SM 5310C	WETA/10968		
60112532012	VW-2-122011	SM 5310C	WETA/10968		
60112532013	MW-25A-122011	SM 5310C	WETA/10968		
60112532001	MW-13-122011	SM 4500-CO2 D	WETA/18836		
60112532002	OBW-1-122011	SM 4500-CO2 D	WETA/18836		
60112532003	OBW-2-122011	SM 4500-CO2 D	WETA/18836		
60112532004	LPZ-5-122011	SM 4500-CO2 D	WETA/18836		
60112532005	OBW-3-122011	SM 4500-CO2 D	WETA/18836		
60112532006	REC-1-122011	SM 4500-CO2 D	WETA/18836		
60112532007	REC-4-122011	SM 4500-CO2 D	WETA/18836		
60112532009	FBCSA-MW-5-122011	SM 4500-CO2 D	WETA/18836		
60112532010	MW-24A-122011	SM 4500-CO2 D	WETA/18836		
60112532011	VW-1-122011	SM 4500-CO2 D	WETA/18836		
60112532012	VW-2-122011	SM 4500-CO2 D	WETA/18836		
60112532013	MW-25A-122011	SM 4500-CO2 D	WETA/18841		

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Keystone
LABORATORIES, INC.

MEMBER ACIL

30 December 2011

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60112532

Enclosed are the results of analyses for samples received by the laboratory on 12/24/11 11:00. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
/-13-122011	11L1263-01	Water	12/20/11 09:45	12/24/11 11:00

Client Supplied Containers

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60112532
Project Manager: Jamie Slade

Reported
12/30/11 16:12

MEMBER ACIL

11L1263

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 60112532 **Workorder Name:** Solutia Groundwater **Results Requested** 12/29/2011

Jamie Slade
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Email: jamie.slade@pacelabs.com

P.O. SUB-6141

Item	Sample ID	Date/Time	Lab ID	Matrix	none	8141 Alachlor	LAB USE ONLY
1	MW-13-122011	12/20/2011 09:45	60112532001	Water	2	X	01
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1		12/23/11 1700		
2				
3				
4				
5			D. Henningel	12/24/11 1100

Wednesday, December 21, 2011 5:09:26 PM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112532 Project Manager: Jamie Slade	Reported 12/30/11 16:12

MW-13-122011

11L1263-01 (Water)

Date Sampled:12/20/2011 9:45:00AM

Keystone Laboratories, Inc. - Newton

Determination of Nitrogen/Phosphorus Herbicides & Insecticides

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Alachlor	**0.39**	0.10	ug/l	1	1L12741	12/27/11	12/29/11 02:30	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*99.5 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112532 Project Manager: Jamie Slade	Reported 12/30/11 16:12

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L12741 - 3510C NP/OC Sep Fnl										
Blank (1L12741-BLK1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*9.44*		"	*9.82400*		*96.1*	*42-126*			
LCS (1L12741-BS1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.045	0.10	ug/l	2.75000		111	65-135			
Surrogate: 2-Nitro-m-xylene	*9.98*		"	*9.82400*		*102*	*42-126*			
LCS Dup (1L12741-BSD1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.000	0.10	ug/l	2.75000		109	65-135	1.49	30	
Surrogate: 2-Nitro-m-xylene	*9.78*		"	*9.82400*		*99.5*	*42-126*			
Reference (1L12741-SRM1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.240	0.10	ug/l	2.75000		118	70-130			
Surrogate: 2-Nitro-m-xylene	*11.0*		"	*9.82400*		*112*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2012
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2012
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112532 Project Manager: Jamie Slade	Reported 12/30/11 16:12

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112532 Project Manager: Jamie Slade	Reported 12/30/11 16:12

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

TOC container broken in shipment to Green Bay Laboratory, sample OBW-2-122011 compromised.

Jamie Slade

12/21/11

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 09, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
siana Certification #: 04168
esota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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(913)599-5665

SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112608001	**TB-122111**	Water	12/21/11 00:00	12/22/11 08:10
60112608002	**LPZ-4-122111**	Water	12/21/11 09:00	12/22/11 08:10
60112608003	**MW-11A-122111**	Water	12/21/11 09:30	12/22/11 08:10
60112608004	**MW-24B-122111**	Water	12/21/11 10:13	12/22/11 08:10
60112608005	**VW-2B-122111**	Water	12/21/11 11:02	12/22/11 08:10
60112608006	**MW-25B-122111**	Water	12/21/11 12:13	12/22/11 08:10
60112608007	**MW-33B-122111**	Water	12/21/11 13:10	12/22/11 08:10
60112608008	**MW-33A-122111**	Water	12/21/11 14:17	12/22/11 08:10
60112608009	**MW-3-122111**	Water	12/21/11 09:35	12/22/11 08:10
60112608010	**MW-39B-122111**	Water	12/21/11 10:55	12/22/11 08:10
60112608011	**MW-39B-122111-AD**	Water	12/21/11 12:00	12/22/11 08:10
60112608012	**MW-39A-122111**	Water	12/21/11 12:30	12/22/11 08:10

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112608001	**TB-122111**	EPA 5030B/8260	PRG	22	PASI-K
60112608002	**LPZ-4-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608003	**MW-11A-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	JMM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608004	**MW-24B-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608005	**VW-2B-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608006	**MW-25B-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW, TJG	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608007	**MW-33B-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608008	**MW-33A-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608009	**MW-3-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
2608010	**MW-39B-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112608011	**MW-39B-122111-AD**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112608012	**MW-39A-122111**	RSK 175	SK4	3	PASI-M
		EPA 6010	TJG	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K

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(913)599-5665

ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: TB-122111 **Lab ID: 60112608001** Collected: 12/21/11 00:00 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/31/11 01:59	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/11 01:59	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/31/11 01:59	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		12/31/11 01:59	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/31/11 01:59	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/11 01:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 01:59	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/31/11 01:59	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/31/11 01:59	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/31/11 01:59	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/11 01:59	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/11 01:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/11 01:59	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/31/11 01:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/31/11 01:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/31/11 01:59	1330-20-7	
Surrogates								
mofluorobenzene (S)	97	%	87-113	1		12/31/11 01:59	460-00-4	
omofluoromethane (S)	101	%	86-112	1		12/31/11 01:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	1		12/31/11 01:59	17060-07-0	
Toluene-d8 (S)	98	%	90-110	1		12/31/11 01:59	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/31/11 01:59		

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: LPZ-4-122111 **Lab ID: 60112608002** Collected: 12/21/11 09:00 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**76.0**	ug/L	10.0	1		12/27/11 12:43	74-84-0	
Ethene	**17.1**	ug/L	10.0	1		12/27/11 12:43	74-85-1	
Methane	**20000**	ug/L	10.0	1		12/27/11 12:43	74-82-8	E
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**7570**	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:36	7439-89-6	
Manganese	**2120**	ug/L	5.0	1	12/23/11 13:30	12/29/11 12:36	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	1000	100		12/31/11 02:13	67-64-1	
Benzene	ND	ug/L	100	100		12/31/11 02:13	71-43-2	
Carbon disulfide	ND	ug/L	500	100		12/31/11 02:13	75-15-0	
Chlorobenzene	ND	ug/L	100	100		12/31/11 02:13	108-90-7	
Chloroform	**138**	ug/L	100	100		12/31/11 02:13	67-66-3	
1,2-Dichloroethane	ND	ug/L	100	100		12/31/11 02:13	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	100	100		12/31/11 02:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/31/11 02:13	156-60-5	
Ethylbenzene	ND	ug/L	100	100		12/31/11 02:13	100-41-4	
Iodomethane	ND	ug/L	1000	100		12/31/11 02:13	74-88-4	
Methylene chloride	ND	ug/L	100	100		12/31/11 02:13	75-09-2	
Tetrachloroethene	ND	ug/L	100	100		12/31/11 02:13	127-18-4	
Toluene	**3630**	ug/L	100	100		12/31/11 02:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	100	100		12/31/11 02:13	71-55-6	
Trichloroethene	ND	ug/L	100	100		12/31/11 02:13	79-01-6	
Vinyl chloride	ND	ug/L	100	100		12/31/11 02:13	75-01-4	
Xylene (Total)	ND	ug/L	300	100		12/31/11 02:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	100		12/31/11 02:13	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	100		12/31/11 02:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119	100		12/31/11 02:13	17060-07-0	
Toluene-d8 (S)	99	%	90-110	100		12/31/11 02:13	2037-26-5	
Preservation pH	**1.0**		0.10	100		12/31/11 02:13		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**785**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**605**	mg/L	5.0	1		12/27/11 09:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:15	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: LPZ-4-122111 **Lab ID: 60112608002** Collected: 12/21/11 09:00 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**38.7**	mg/L	5.0	5		01/05/12 15:12	16887-00-6	
Sulfate	**3.1**	mg/L	1.0	1		01/06/12 09:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/22/11 13:36		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:36		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/22/11 13:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**52.1**	mg/L	30.0	60		01/05/12 23:59	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**769**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-11A-122111 **Lab ID: 60112608003** Collected: 12/21/11 09:30 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 12:54	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 12:54	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 12:54	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:39	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/23/11 13:30	12/29/11 12:39	7439-96-5	B-
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	20.0	2		12/31/11 02:28	67-64-1	
Benzene	ND	ug/L	2.0	2		12/31/11 02:28	71-43-2	
Carbon disulfide	ND	ug/L	10.0	2		12/31/11 02:28	75-15-0	
Chlorobenzene	ND	ug/L	2.0	2		12/31/11 02:28	108-90-7	
Chloroform	ND	ug/L	2.0	2		12/31/11 02:28	67-66-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		12/31/11 02:28	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		12/31/11 02:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/31/11 02:28	156-60-5	
Ethylbenzene	ND	ug/L	2.0	2		12/31/11 02:28	100-41-4	
Iodomethane	ND	ug/L	20.0	2		12/31/11 02:28	74-88-4	
Methylene chloride	ND	ug/L	2.0	2		12/31/11 02:28	75-09-2	
Tetrachloroethene	ND	ug/L	2.0	2		12/31/11 02:28	127-18-4	
Toluene	ND	ug/L	2.0	2		12/31/11 02:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/31/11 02:28	71-55-6	
Trichloroethene	ND	ug/L	2.0	2		12/31/11 02:28	79-01-6	
Vinyl chloride	ND	ug/L	2.0	2		12/31/11 02:28	75-01-4	
Xylene (Total)	ND	ug/L	6.0	2		12/31/11 02:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	2		12/31/11 02:28	460-00-4	D3
Dibromofluoromethane (S)	100	%	86-112	2		12/31/11 02:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	2		12/31/11 02:28	17060-07-0	
Toluene-d8 (S)	98	%	90-110	2		12/31/11 02:28	2037-26-5	
Preservation pH	**1.0**		0.10	2		12/31/11 02:28		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**295**	mg/L	20.0	1		12/30/11 09:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**333**	mg/L	5.0	1		12/27/11 09:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.9**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:16	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-11A-122111 **Lab ID: 60112608003** Collected: 12/21/11 09:30 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.0**	mg/L	1.0	1		01/05/12 16:02	16887-00-6	
Sulfate	**19.6**	mg/L	1.0	1		01/05/12 16:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/22/11 13:37		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:37		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/22/11 13:37		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.71**	mg/L	0.50	1		01/06/12 00:17	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**267**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-24B-122111 **Lab ID: 60112608004** Collected: 12/21/11 10:13 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:24	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:24	74-85-1	
Methane	**2850**	ug/L	10.0	1		12/27/11 14:24	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**14700**	ug/L	150	3	12/23/11 13:30	12/29/11 12:41	7439-89-6	
Manganese	**741**	ug/L	15.0	3	12/23/11 13:30	12/29/11 12:41	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10000	1000		01/03/12 12:59	67-64-1	
Benzene	**42400**	ug/L	1000	1000		01/03/12 12:59	71-43-2	
Carbon disulfide	ND	ug/L	5000	1000		01/03/12 12:59	75-15-0	
Chlorobenzene	**163000**	ug/L	1000	1000		01/03/12 12:59	108-90-7	
Chloroform	ND	ug/L	1000	1000		01/03/12 12:59	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		01/03/12 12:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1000	1000		01/03/12 12:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		01/03/12 12:59	156-60-5	
Ethylbenzene	ND	ug/L	1000	1000		01/03/12 12:59	100-41-4	
Iodomethane	ND	ug/L	10000	1000		01/03/12 12:59	74-88-4	
Methylene chloride	ND	ug/L	1000	1000		01/03/12 12:59	75-09-2	
Tetrachloroethene	ND	ug/L	1000	1000		01/03/12 12:59	127-18-4	
Toluene	**3060**	ug/L	1000	1000		01/03/12 12:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		01/03/12 12:59	71-55-6	
Trichloroethene	ND	ug/L	1000	1000		01/03/12 12:59	79-01-6	
Vinyl chloride	ND	ug/L	1000	1000		01/03/12 12:59	75-01-4	
Xylene (Total)	ND	ug/L	3000	1000		01/03/12 12:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	1000		01/03/12 12:59	460-00-4	
Dibromofluoromethane (S)	98	%	86-112	1000		01/03/12 12:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	82-119	1000		01/03/12 12:59	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1000		01/03/12 12:59	2037-26-5	
Preservation pH	**1.0**		0.10	1000		01/03/12 12:59		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**910**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1250**	mg/L	5.0	1		12/27/11 09:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:16	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-24B-122111 **Lab ID: 60112608004** Collected: 12/21/11 10:13 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**189**	mg/L	20.0	20		01/05/12 04:20	16887-00-6	
Sulfate	**7.2**	mg/L	1.0	1		01/05/12 16:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/22/11 13:41		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:41		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/22/11 13:41		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**68.0**	mg/L	30.0	60		01/06/12 00:35	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**945**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: VW-2B-122111 **Lab ID: 60112608005** Collected: 12/21/11 11:02 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:35	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:35	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 14:35	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:44	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/23/11 13:30	12/29/11 12:44	7439-96-5	B-
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 13:13	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 13:13	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 13:13	75-15-0	
Chlorobenzene	**1.0**	ug/L	1.0	1		01/03/12 13:13	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 13:13	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 13:13	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:13	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 13:13	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 13:13	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 13:13	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 13:13	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 13:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 13:13	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 13:13	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 13:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 13:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	87-113	1		01/03/12 13:13	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		01/03/12 13:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		01/03/12 13:13	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		01/03/12 13:13	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 13:13		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**190**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**632**	mg/L	5.0	1		12/27/11 09:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**8.2**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:17	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: VW-2B-122111 **Lab ID: 60112608005** Collected: 12/21/11 11:02 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**60.0**	mg/L	20.0	20		01/05/12 04:37	16887-00-6	
Sulfate	**226**	mg/L	20.0	20		01/05/12 04:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.8**	mg/L	0.10	1		12/22/11 13:44		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:44		
Nitrogen, NO2 plus NO3	**1.8**	mg/L	0.10	1		12/22/11 13:44		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.78**	mg/L	0.50	1		01/06/12 00:53	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**170**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-25B-122111 **Lab ID: 60112608006** Collected: 12/21/11 12:13 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:45	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:45	74-85-1	
Methane	**319**	ug/L	10.0	1		12/27/11 14:45	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**8550**	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:47	7439-89-6	
Manganese	**182**	ug/L	5.0	1	12/30/11 09:40	12/30/11 15:22	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 15:47	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 15:47	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 15:47	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 15:47	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 15:47	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 15:47	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 15:47	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 15:47	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 15:47	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 15:47	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 15:47	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 15:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 15:47	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 15:47	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 15:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 15:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%	87-113	1		01/04/12 15:47	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		01/04/12 15:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	82-119	1		01/04/12 15:47	17060-07-0	
Toluene-d8 (S)	102	%	90-110	1		01/04/12 15:47	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 15:47		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**1320**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1520**	mg/L	5.0	1		12/27/11 09:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:21	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-25B-122111 **Lab ID: 60112608006** Collected: 12/21/11 12:13 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**65.5**	mg/L	20.0	20		01/05/12 04:53	16887-00-6	
Sulfate	**78.1**	mg/L	20.0	20		01/05/12 04:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.15**	mg/L	0.10	1		12/22/11 13:50		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:50		
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	1		12/22/11 13:50		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**12.5**	mg/L	7.5	15		01/06/12 01:11	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**1200**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-33B-122111 **Lab ID: 60112608007** Collected: 12/21/11 13:10 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:56	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:56	74-85-1	
Methane	**11.3**	ug/L	10.0	1		12/27/11 14:56	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1610**	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:49	7439-89-6	
Manganese	**644**	ug/L	5.0	1	12/23/11 13:30	12/29/11 12:49	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 13:41	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 13:41	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 13:41	75-15-0	
Chlorobenzene	**33.0**	ug/L	1.0	1		01/03/12 13:41	108-90-7	
Chloroform	**12.8**	ug/L	1.0	1		01/03/12 13:41	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 13:41	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:41	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 13:41	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 13:41	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 13:41	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 13:41	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 13:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 13:41	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 13:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 13:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 13:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	1		01/03/12 13:41	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		01/03/12 13:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	1		01/03/12 13:41	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		01/03/12 13:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 13:41		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**245**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**474**	mg/L	5.0	1		12/27/11 09:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:22	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-33B-122111 **Lab ID: 60112608007** Collected: 12/21/11 13:10 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**54.8**	mg/L	5.0	5		01/05/12 16:35	16887-00-6	
Sulfate	**106**	mg/L	20.0	20		01/05/12 05:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.25**	mg/L	0.10	1		12/22/11 13:52		
Nitrogen, Nitrite	**0.17**	mg/L	0.10	1		12/22/11 13:52		
Nitrogen, NO2 plus NO3	**0.42**	mg/L	0.10	1		12/22/11 13:52		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	1.5	3		01/06/12 02:05	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**228**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-33A-122111 **Lab ID: 60112608008** Collected: 12/21/11 14:17 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 15:07	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 15:07	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 15:07	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**304000**	ug/L	250	5	12/23/11 13:30	12/29/11 12:52	7439-89-6	
Manganese	**7540**	ug/L	25.0	5	12/23/11 13:30	12/29/11 12:52	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 13:55	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 13:55	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 13:55	75-15-0	
Chlorobenzene	**1.1**	ug/L	1.0	1		01/03/12 13:55	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 13:55	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 13:55	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 13:55	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 13:55	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 13:55	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 13:55	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 13:55	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 13:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 13:55	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 13:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 13:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 13:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	87-113	1		01/03/12 13:55	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		01/03/12 13:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		01/03/12 13:55	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		01/03/12 13:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 13:55		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**900**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**796**	mg/L	5.0	1		12/27/11 09:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:22	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-33A-122111 **Lab ID: 60112608008** Collected: 12/21/11 14:17 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**27.1**	mg/L	2.0	2		01/05/12 16:52	16887-00-6	
Sulfate	**15.2**	mg/L	2.0	2		01/05/12 16:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/22/11 13:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:53		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/22/11 13:53		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**6.8**	mg/L	3.0	6		01/06/12 02:23	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**864**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-3-122111 **Lab ID: 60112608009** Collected: 12/21/11 09:35 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 16:48	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 16:48	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 16:48	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**29300**	ug/L	50.0	1	12/23/11 13:30	12/29/11 12:54	7439-89-6	
Manganese	**3050**	ug/L	5.0	1	12/23/11 13:30	12/29/11 12:54	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 14:09	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 14:09	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 14:09	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 14:09	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 14:09	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 14:09	107-06-2	
cis-1,2-Dichloroethene	**7.5**	ug/L	1.0	1		01/03/12 14:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 14:09	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 14:09	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 14:09	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 14:09	75-09-2	
Tetrachloroethene	**6.5**	ug/L	1.0	1		01/03/12 14:09	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 14:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 14:09	71-55-6	
Trichloroethene	**2.5**	ug/L	1.0	1		01/03/12 14:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 14:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 14:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	1		01/03/12 14:09	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		01/03/12 14:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	82-119	1		01/03/12 14:09	17060-07-0	
Toluene-d8 (S)	99	%	90-110	1		01/03/12 14:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 14:09		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**680**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1090**	mg/L	5.0	1		12/27/11 09:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.13**	mg/L	0.050	1		12/28/11 13:23	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-3-122111 **Lab ID: 60112608009** Collected: 12/21/11 09:35 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**382**	mg/L	20.0	20		01/05/12 05:43	16887-00-6	
Sulfate	**67.2**	mg/L	20.0	20		01/05/12 05:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/22/11 13:40		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:40		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/22/11 13:40		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.53**	mg/L	0.50	1		01/06/12 02:41	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**633**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39B-122111 **Lab ID: 60112608010** Collected: 12/21/11 10:55 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 13:31	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 13:31	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 13:31	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**108**	ug/L	50.0	1	12/23/11 13:30	12/29/11 13:02	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/23/11 13:30	12/29/11 13:02	7439-96-5	B-
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 14:23	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 14:23	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 14:23	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 14:23	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 14:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 14:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 14:23	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 14:23	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 14:23	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 14:23	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 14:23	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 14:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 14:23	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 14:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 14:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 14:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	87-113	1		01/03/12 14:23	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		01/03/12 14:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		01/03/12 14:23	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		01/03/12 14:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 14:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**615**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1380**	mg/L	5.0	1		12/27/11 09:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:24	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39B-122111 **Lab ID: 60112608010** Collected: 12/21/11 10:55 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**330**	mg/L	20.0	20		01/05/12 06:00	16887-00-6	
Sulfate	**113**	mg/L	20.0	20		01/05/12 06:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.4**	mg/L	0.10	1		12/22/11 13:43		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:43		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	1		12/22/11 13:43		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.79**	mg/L	0.50	1		01/06/12 03:18	7440-44-0	M0
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**580**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39B-122111-AD **Lab ID: 60112608011** Collected: 12/21/11 12:00 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:03	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:03	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 14:03	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**108**	ug/L	50.0	1	12/23/11 13:30	12/29/11 13:10	7439-89-6	
Manganese	ND	ug/L	5.0	1	12/23/11 13:30	12/29/11 13:10	7439-96-5	B-
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 15:06	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 15:06	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 15:06	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 15:06	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 15:06	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 15:06	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 15:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 15:06	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 15:06	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 15:06	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 15:06	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 15:06	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 15:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 15:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 15:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 15:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 15:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	1		01/03/12 15:06	460-00-4	
Dibromofluoromethane (S)	101	%	86-112	1		01/03/12 15:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	82-119	1		01/03/12 15:06	17060-07-0	
Toluene-d8 (S)	97	%	90-110	1		01/03/12 15:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 15:06		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**625**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1380**	mg/L	5.0	1		12/27/11 09:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:29	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39B-122111-AD **Lab ID: 60112608011** Collected: 12/21/11 12:00 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**327**	mg/L	20.0	20		01/05/12 07:06	16887-00-6	
Sulfate	**111**	mg/L	20.0	20		01/05/12 07:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.4**	mg/L	0.10	1		12/22/11 13:48		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:48		
Nitrogen, NO2 plus NO3	**1.4**	mg/L	0.10	1		12/22/11 13:48		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**0.73**	mg/L	0.50	1		01/06/12 04:12	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**613**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39A-122111 **Lab ID: 60112608012** Collected: 12/21/11 12:30 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 14:13	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 14:13	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 14:13	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**122**	ug/L	50.0	1	12/23/11 13:30	12/29/11 13:12	7439-89-6	
Manganese	**502**	ug/L	5.0	1	12/23/11 13:30	12/29/11 13:12	7439-96-5	B+
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/31/11 05:03	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/11 05:03	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/31/11 05:03	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 15:20	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/31/11 05:03	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/11 05:03	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 05:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 05:03	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/31/11 05:03	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/31/11 05:03	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/31/11 05:03	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/11 05:03	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/11 05:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/11 05:03	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/31/11 05:03	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/31/11 05:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/31/11 05:03	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	1		12/31/11 05:03	460-00-4	
Dibromofluoromethane (S)	97	%	86-112	1		12/31/11 05:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	82-119	1		12/31/11 05:03	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		12/31/11 05:03	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/31/11 05:03		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**564**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**2660**	mg/L	5.0	1		12/27/11 09:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:30	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Sample: MW-39A-122111 **Lab ID: 60112608012** Collected: 12/21/11 12:30 Received: 12/22/11 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1120**	mg/L	100	100		01/05/12 17:08	16887-00-6	
Sulfate	**143**	mg/L	20.0	20		01/05/12 07:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.39**	mg/L	0.10	1		12/22/11 13:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/22/11 13:51		
Nitrogen, NO2 plus NO3	**0.40**	mg/L	0.10	1		12/22/11 13:51		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/06/12 04:30	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**541**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: AIR/13905 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112608002, 60112608003

METHOD BLANK: 1121112 — Matrix: Water
Associated Lab Samples: 60112608002, 60112608003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/27/11 08:06	
Ethene	ug/L	ND	10.0	12/27/11 08:06	
Methane	ug/L	ND	10.0	12/27/11 08:06	

LABORATORY CONTROL SAMPLE & LCSD: 1121113 1121114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	110	105	97	70-130	8	30	
Ethene	ug/L	106	110	103	104	97	70-130	6	30	
Methane	ug/L	60.7	62.8	63.5	104	105	70-130	1	30	

SAMPLE DUPLICATE: 1121323

Parameter	Units	60112532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	2710	2540	6	30	

SAMPLE DUPLICATE: 1121324

Parameter	Units	60112532011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	6.3J		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	4160	3920	6	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: AIR/13906 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 1121115 Matrix: Water
Associated Lab Samples: 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/27/11 13:15	
Ethene	ug/L	ND	10.0	12/27/11 13:15	
Methane	ug/L	ND	10.0	12/27/11 13:15	

LABORATORY CONTROL SAMPLE & LCSD: 1121116 1121117

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	110	124	97	109	70-130	12	30	
Ethene	ug/L	106	103	116	97	109	70-130	11	30	
Methane	ug/L	60.7	63.5	65.2	105	107	70-130	3	30	

.... .TRIX SPIKE & MATRIX SPIKE DUPLICATE: 1121494 1121495

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	152	120	113	116	75	97	30-150	3	30	
Ethene	ug/L	ND	141	112	110	109	78	98	30-150	.7	30	
Methane	ug/L	ND	80.9	63.8	61.9	60.8	76	94	30-150	2	30	

SAMPLE DUPLICATE: 1121493

Parameter	Units	92109038001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	ND	6.4J		30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: MPRP/16568 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 931531 — Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	12/29/11 12:31	
Manganese	ug/L	31.1	5.0	12/29/11 12:31	

LABORATORY CONTROL SAMPLE: 931532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1060	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 931533 931534

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	108	10000	10000	9900	10100	98	100	75-125	2	20	
Manganese	ug/L	ND	1000	1000	1030	1050	103	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: MPRP/16627 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112608006

METHOD BLANK: 933467 Matrix: Water
Associated Lab Samples: 60112608006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	ug/L	ND	5.0	12/30/11 15:17	

LABORATORY CONTROL SAMPLE: 933468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	1000	954	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933469 933470

Parameter	Units	60112608006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
ganese	ug/L	182	1000	1000	1090	1120	91	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: MSV/42810 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112608001, 60112608002, 60112608003, 60112608012

METHOD BLANK: 933655 Matrix: Water
Associated Lab Samples: 60112608001, 60112608002, 60112608003, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/31/11 01:45	
1,2-Dichloroethane	ug/L	ND	1.0	12/31/11 01:45	
Acetone	ug/L	ND	10.0	12/31/11 01:45	
Benzene	ug/L	ND	1.0	12/31/11 01:45	
Carbon disulfide	ug/L	ND	5.0	12/31/11 01:45	
Chlorobenzene	ug/L	ND	1.0	12/31/11 01:45	
Chloroform	ug/L	ND	1.0	12/31/11 01:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/31/11 01:45	
Ethylbenzene	ug/L	ND	1.0	12/31/11 01:45	
Iodomethane	ug/L	ND	10.0	12/31/11 01:45	
Methylene chloride	ug/L	ND	1.0	12/31/11 01:45	
Tetrachloroethene	ug/L	ND	1.0	12/31/11 01:45	
Toluene	ug/L	ND	1.0	12/31/11 01:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/31/11 01:45	
Trichloroethene	ug/L	ND	1.0	12/31/11 01:45	
Vinyl chloride	ug/L	ND	1.0	12/31/11 01:45	
Xylene (Total)	ug/L	ND	3.0	12/31/11 01:45	
1,2-Dichloroethane-d4 (S)	%	98	82-119	12/31/11 01:45	
4-Bromofluorobenzene (S)	%	97	87-113	12/31/11 01:45	
Dibromofluoromethane (S)	%	97	86-112	12/31/11 01:45	
Toluene-d8 (S)	%	99	90-110	12/31/11 01:45	

LABORATORY CONTROL SAMPLE: 933656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	82-119	
1,2-Dichloroethane	ug/L	20	19.0	95	77-125	
Acetone	ug/L	100	62.5	62	18-192	
Benzene	ug/L	20	18.3	91	82-117	
Carbon disulfide	ug/L	20	20.1	100	75-138	
Chlorobenzene	ug/L	20	19.2	96	83-121	
Chloroform	ug/L	20	19.2	96	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	80-119	
Ethylbenzene	ug/L	20	18.9	94	79-121	
Iodomethane	ug/L	20	21.4	107	14-169	
Methylene chloride	ug/L	20	20.9	105	75-118	
Tetrachloroethene	ug/L	20	18.8	94	80-124	
Toluene	ug/L	20	18.6	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	79-120	
Trichloroethene	ug/L	20	20.1	100	76-122	
Vinyl chloride	ug/L	20	14.9	75	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

LABORATORY CONTROL SAMPLE: 933656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	55.4	92	75-120	
1,2-Dichloroethane-d4 (S)	%			97	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: MSV/42838 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112608004, 60112608005, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 934276 Matrix: Water
Associated Lab Samples: 60112608004, 60112608005, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/12 12:34	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/12 12:34	
Acetone	ug/L	ND	10.0	01/03/12 12:34	
Benzene	ug/L	ND	1.0	01/03/12 12:34	
Carbon disulfide	ug/L	ND	5.0	01/03/12 12:34	
Chlorobenzene	ug/L	ND	1.0	01/03/12 12:34	
Chloroform	ug/L	ND	1.0	01/03/12 12:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 12:34	
Ethylbenzene	ug/L	ND	1.0	01/03/12 12:34	
Iodomethane	ug/L	ND	10.0	01/03/12 12:34	
Methylene chloride	ug/L	ND	1.0	01/03/12 12:34	
Tetrachloroethene	ug/L	ND	1.0	01/03/12 12:34	
Toluene	ug/L	ND	1.0	01/03/12 12:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 12:34	
Trichloroethene	ug/L	ND	1.0	01/03/12 12:34	
Vinyl chloride	ug/L	ND	1.0	01/03/12 12:34	
Xylene (Total)	ug/L	ND	3.0	01/03/12 12:34	
1,2-Dichloroethane-d4 (S)	%	96	82-119	01/03/12 12:34	
4-Bromofluorobenzene (S)	%	99	87-113	01/03/12 12:34	
Dibromofluoromethane (S)	%	99	86-112	01/03/12 12:34	
Toluene-d8 (S)	%	99	90-110	01/03/12 12:34	

LABORATORY CONTROL SAMPLE: 934277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	92	82-119	
1,2-Dichloroethane	ug/L	20	19.3	96	77-125	
Acetone	ug/L	100	96.3	96	18-192	
Benzene	ug/L	20	18.4	92	82-117	
Carbon disulfide	ug/L	20	17.3	87	75-138	
Chlorobenzene	ug/L	20	19.2	96	83-121	
Chloroform	ug/L	20	19.2	96	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	80-119	
Ethylbenzene	ug/L	20	18.4	92	79-121	
Iodomethane	ug/L	20	19.0	95	14-169	
Methylene chloride	ug/L	20	17.7	88	75-118	
Tetrachloroethene	ug/L	20	19.3	96	80-124	
Toluene	ug/L	20	18.0	90	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	79-120	
Trichloroethene	ug/L	20	18.9	95	76-122	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

LABORATORY CONTROL SAMPLE: 934277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	14.0	70	57-163	
Xylene (Total)	ug/L	60	55.3	92	75-120	
1,2-Dichloroethane-d4 (S)	%			98	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934278 934279

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.0	18.7	95	94	57-128	1	27	
1,2-Dichloroethane	ug/L	ND	20	20	19.0	18.7	95	94	44-145	1	22	
Acetone	ug/L	ND	100	100	53.1	57.8	53	58	30-147	8	30	
Benzene	ug/L	ND	20	20	18.5	18.0	93	90	58-139	3	21	
Carbon disulfide	ug/L	ND	20	20	20.8	20.1	104	100	28-155	4	25	
Chlorobenzene	ug/L	ND	20	20	19.2	19.1	94	93	56-129	1	21	
roform	ug/L	ND	20	20	19.0	18.8	95	94	55-130	1	23	
,2-Dichloroethene	ug/L	ND	20	20	18.1	17.8	91	89	34-152	2	26	
Ethylbenzene	ug/L	ND	20	20	18.9	18.6	95	93	56-138	1	19	
Iodomethane	ug/L	ND	20	20	15.3	21.2	76	105	10-161	32	30	D6
Methylene chloride	ug/L	ND	20	20	19.7	19.9	99	100	44-133	1	27	
Tetrachloroethene	ug/L	ND	20	20	19.9	19.2	99	96	47-140	3	24	
Toluene	ug/L	ND	20	20	18.6	18.3	92	91	59-140	2	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.4	100	97	62-130	3	25	
Trichloroethene	ug/L	ND	20	20	19.6	18.8	98	94	37-148	4	25	
Vinyl chloride	ug/L	ND	20	20	15.0	14.1	75	70	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	56.4	55.6	94	93	52-146	1	19	
1,2-Dichloroethane-d4 (S)	%						98	98	82-119			
4-Bromofluorobenzene (S)	%						101	104	87-113			
Dibromofluoromethane (S)	%						99	100	86-112			
Toluene-d8 (S)	%						97	101	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: MSV/42871 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112608006

METHOD BLANK: 934877 | Matrix: Water
Associated Lab Samples: 60112608006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/04/12 15:32	
1,2-Dichloroethane	ug/L	ND	1.0	01/04/12 15:32	
Acetone	ug/L	ND	10.0	01/04/12 15:32	
Benzene	ug/L	ND	1.0	01/04/12 15:32	
Carbon disulfide	ug/L	ND	5.0	01/04/12 15:32	
Chlorobenzene	ug/L	ND	1.0	01/04/12 15:32	
Chloroform	ug/L	ND	1.0	01/04/12 15:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/04/12 15:32	
Ethylbenzene	ug/L	ND	1.0	01/04/12 15:32	
Iodomethane	ug/L	ND	10.0	01/04/12 15:32	
Methylene chloride	ug/L	ND	1.0	01/04/12 15:32	
Tetrachloroethene	ug/L	ND	1.0	01/04/12 15:32	
Toluene	ug/L	ND	1.0	01/04/12 15:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/04/12 15:32	
Trichloroethene	ug/L	ND	1.0	01/04/12 15:32	
Vinyl chloride	ug/L	ND	1.0	01/04/12 15:32	
Xylene (Total)	ug/L	ND	3.0	01/04/12 15:32	
1,2-Dichloroethane-d4 (S)	%	111	82-119	01/04/12 15:32	
4-Bromofluorobenzene (S)	%	96	87-113	01/04/12 15:32	
Dibromofluoromethane (S)	%	107	86-112	01/04/12 15:32	
Toluene-d8 (S)	%	101	90-110	01/04/12 15:32	

LABORATORY CONTROL SAMPLE: 934878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	82-119	
1,2-Dichloroethane	ug/L	20	19.1	96	77-125	
Acetone	ug/L	100	61.3	61	18-192	
Benzene	ug/L	20	18.2	91	82-117	
Carbon disulfide	ug/L	20	22.4	112	75-138	
Chlorobenzene	ug/L	20	20.3	102	83-121	
Chloroform	ug/L	20	18.5	93	82-116	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	80-119	
Ethylbenzene	ug/L	20	19.9	99	79-121	
Iodomethane	ug/L	20	9.7J	48	14-169	
Methylene chloride	ug/L	20	20.5	103	75-118	
Tetrachloroethene	ug/L	20	21.9	110	80-124	
Toluene	ug/L	20	18.9	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	79-120	
Trichloroethene	ug/L	20	17.0	85	76-122	
Vinyl chloride	ug/L	20	19.7	99	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

LABORATORY CONTROL SAMPLE: 934878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	58.8	98	75-120	
1,2-Dichloroethane-d4 (S)	%			106	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			101	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32836 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112608002, 60112608003

METHOD BLANK: 933200 | Matrix: Water
Associated Lab Samples: 60112608002, 60112608003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 09:30	

LABORATORY CONTROL SAMPLE: 933201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	90-110	

SAMPLE DUPLICATE: 933202

Parameter	Units	60112454001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	225	230	2	9	

SAMPLE DUPLICATE: 933203

Parameter	Units	60112454002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	765	800	4	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32854 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 933373 Matrix: Water
Associated Lab Samples: 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 10:30	

LABORATORY CONTROL SAMPLE: 933374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	510	102	90-110	

SAMPLE DUPLICATE: 933375

Parameter	Units	60112608010 Result	Dup Result	RPD	Max RPD	Qualifiers
inity, Total as CaCO3	mg/L	615	625	2	9	

SAMPLE DUPLICATE: 933376

Parameter	Units	60112887002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	185	200	8	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32758
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112608002

METHOD BLANK: 931924
Matrix: Water
Associated Lab Samples: 60112608002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/27/11 09:46	

SAMPLE DUPLICATE: 931925

Parameter	Units	60112532010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	820	823	0	17	

SAMPLE DUPLICATE: 931926

Parameter	Units	60112750001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6560	6640	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32759 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 931929 Matrix: Water
Associated Lab Samples: 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/27/11 09:57	

SAMPLE DUPLICATE: 931930

Parameter	Units	60112608010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1370	0	17	

SAMPLE DUPLICATE: 931931

Parameter	Units	60112721001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Solids	mg/L	1280	1260	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32910 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

SAMPLE DUPLICATE: 934891

Parameter	Units	60112608002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WET/32797 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 932369 Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/28/11 13:10	

LABORATORY CONTROL SAMPLE: 932370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	108	80-120	

MATRIX SPIKE SAMPLE: 932372

Parameter	Units	60112608010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
ıde, Total	mg/L	ND	.5	0.52	105	75-125	

SAMPLE DUPLICATE: 932371

Parameter	Units	60112608003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 932373

Parameter	Units	60112608011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WETA/18855 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 934952 Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/05/12 02:08	
Sulfate	mg/L	ND	1.0	01/05/12 02:08	

METHOD BLANK: 935789 Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/05/12 09:26	
Sulfate	mg/L	ND	1.0	01/05/12 09:26	

LABORATORY CONTROL SAMPLE: 934953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.5	109	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

LABORATORY CONTROL SAMPLE: 935790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934954 934955

Parameter	Units	60112608002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	38.7	25	25	63.2	64.4	98	103	64-118	2	12	
Sulfate	mg/L	3.1	5	5	7.8	8.0	93	97	61-119	3	10	

MATRIX SPIKE SAMPLE: 934956

Parameter	Units	60112608010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	330	100	416	86	64-118	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

MATRIX SPIKE SAMPLE: 934956

Parameter	Units	60112608010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	113	100	202	89	61-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WETA/18768 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 930851 Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006, 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/22/11 13:31	
Nitrogen, Nitrite	mg/L	ND	0.10	12/22/11 13:31	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/22/11 13:31	

LABORATORY CONTROL SAMPLE: 930852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.5	95	90-110	
Nitrogen, Nitrite	mg/L	.4	0.40	101	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 930854

Parameter	Units	60112608010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	1.6	3.1	108	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.47	113	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	1.4	2	3.6	109	90-110	

MATRIX SPIKE SAMPLE: 930855

Parameter	Units	60112590001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.54	1.6	2.2	106	90-110	
Nitrogen, Nitrite	mg/L	0.16	.4	0.62	114	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	0.70	2	2.9	108	90-110	

SAMPLE DUPLICATE: 930853

Parameter	Units	60112585002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.8	2.8	1	15	
Nitrogen, Nitrite	mg/L	0.14	0.13	4	31	
Nitrogen, NO2 plus NO3	mg/L	3.0	2.9	1	13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WETA/10968 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006

METHOD BLANK: 552592 — Matrix: Water
Associated Lab Samples: 60112608002, 60112608003, 60112608004, 60112608005, 60112608006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	01/05/12 17:23	

LABORATORY CONTROL SAMPLE: 552593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552594 552595

Parameter	Units	60111970002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Organic Carbon	mg/L	0.28J	2.5	2.5	2.9	2.9	105	104	80-120	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552596 552597

Parameter	Units	60112532001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	25.8	75	75	113	116	117	120	80-120	2	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

QC Batch: WETA/10969 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

METHOD BLANK: 552598 — Matrix: Water
Associated Lab Samples: 60112608007, 60112608008, 60112608009, 60112608010, 60112608011, 60112608012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	01/06/12 01:29	

LABORATORY CONTROL SAMPLE: 552599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552600 552601

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.79	2.5	2.5	1.6	1.6	32	32	80-120	.7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552602 552603

Parameter	Units	10179168003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	2.5	2.5	3.8	3.8	106	107	80-120	1	20	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/42810

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42871

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B+	Analyte was detected in the associated method blank as well as in the sample.
B-	Analyte detected in method blank but was not detected in the associated samples.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112608002	LPZ-4-122111	RSK 175	AIR/13905		
60112608003	MW-11A-122111	RSK 175	AIR/13905		
60112608004	MW-24B-122111	RSK 175	AIR/13906		
60112608005	VW-2B-122111	RSK 175	AIR/13906		
60112608006	MW-25B-122111	RSK 175	AIR/13906		
60112608007	MW-33B-122111	RSK 175	AIR/13906		
60112608008	MW-33A-122111	RSK 175	AIR/13906		
60112608009	MW-3-122111	RSK 175	AIR/13906		
60112608010	MW-39B-122111	RSK 175	AIR/13906		
60112608011	MW-39B-122111-AD	RSK 175	AIR/13906		
60112608012	MW-39A-122111	RSK 175	AIR/13906		
60112608002	LPZ-4-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608003	MW-11A-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608004	MW-24B-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608005	VW-2B-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608006	MW-25B-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608006	MW-25B-122111	EPA 3010	MPRP/16627	EPA 6010	ICP/14305
60112608007	MW-33B-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608008	MW-33A-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608009	MW-3-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608010	MW-39B-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608011	MW-39B-122111-AD	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608012	MW-39A-122111	EPA 3010	MPRP/16568	EPA 6010	ICP/14249
60112608001	TB-122111	EPA 5030B/8260	MSV/42810		
60112608002	LPZ-4-122111	EPA 5030B/8260	MSV/42810		
60112608003	MW-11A-122111	EPA 5030B/8260	MSV/42810		
60112608004	MW-24B-122111	EPA 5030B/8260	MSV/42838		
60112608005	VW-2B-122111	EPA 5030B/8260	MSV/42838		
60112608006	MW-25B-122111	EPA 5030B/8260	MSV/42871		
60112608007	MW-33B-122111	EPA 5030B/8260	MSV/42838		
60112608008	MW-33A-122111	EPA 5030B/8260	MSV/42838		
60112608009	MW-3-122111	EPA 5030B/8260	MSV/42838		
60112608010	MW-39B-122111	EPA 5030B/8260	MSV/42838		
60112608011	MW-39B-122111-AD	EPA 5030B/8260	MSV/42838		
60112608012	MW-39A-122111	EPA 5030B/8260	MSV/42810		
60112608012	MW-39A-122111	EPA 5030B/8260	MSV/42838		
60112608002	LPZ-4-122111	SM 2320B	WET/32836		
60112608003	MW-11A-122111	SM 2320B	WET/32836		
60112608004	MW-24B-122111	SM 2320B	WET/32854		
60112608005	VW-2B-122111	SM 2320B	WET/32854		
60112608006	MW-25B-122111	SM 2320B	WET/32854		
60112608007	MW-33B-122111	SM 2320B	WET/32854		
60112608008	MW-33A-122111	SM 2320B	WET/32854		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112608009	MW-3-122111	SM 2320B	WET/32854		
60112608010	MW-39B-122111	SM 2320B	WET/32854		
60112608011	MW-39B-122111-AD	SM 2320B	WET/32854		
60112608012	MW-39A-122111	SM 2320B	WET/32854		
60112608002	LPZ-4-122111	SM 2540C	WET/32758		
60112608003	MW-11A-122111	SM 2540C	WET/32759		
60112608004	MW-24B-122111	SM 2540C	WET/32759		
60112608005	VW-2B-122111	SM 2540C	WET/32759		
60112608006	MW-25B-122111	SM 2540C	WET/32759		
60112608007	MW-33B-122111	SM 2540C	WET/32759		
60112608008	MW-33A-122111	SM 2540C	WET/32759		
60112608009	MW-3-122111	SM 2540C	WET/32759		
60112608010	MW-39B-122111	SM 2540C	WET/32759		
60112608011	MW-39B-122111-AD	SM 2540C	WET/32759		
60112608012	MW-39A-122111	SM 2540C	WET/32759		
60112608002	LPZ-4-122111	SM 4500-H+B	WET/32910		
60112608003	MW-11A-122111	SM 4500-H+B	WET/32910		
60112608004	MW-24B-122111	SM 4500-H+B	WET/32910		
12608005	VW-2B-122111	SM 4500-H+B	WET/32910		
12608006	MW-25B-122111	SM 4500-H+B	WET/32910		
60112608007	MW-33B-122111	SM 4500-H+B	WET/32910		
60112608008	MW-33A-122111	SM 4500-H+B	WET/32910		
60112608009	MW-3-122111	SM 4500-H+B	WET/32910		
60112608010	MW-39B-122111	SM 4500-H+B	WET/32910		
60112608011	MW-39B-122111-AD	SM 4500-H+B	WET/32910		
60112608012	MW-39A-122111	SM 4500-H+B	WET/32910		
60112608002	LPZ-4-122111	SM 4500-S-2 D	WET/32797		
60112608003	MW-11A-122111	SM 4500-S-2 D	WET/32797		
60112608004	MW-24B-122111	SM 4500-S-2 D	WET/32797		
60112608005	VW-2B-122111	SM 4500-S-2 D	WET/32797		
60112608006	MW-25B-122111	SM 4500-S-2 D	WET/32797		
60112608007	MW-33B-122111	SM 4500-S-2 D	WET/32797		
60112608008	MW-33A-122111	SM 4500-S-2 D	WET/32797		
60112608009	MW-3-122111	SM 4500-S-2 D	WET/32797		
60112608010	MW-39B-122111	SM 4500-S-2 D	WET/32797		
60112608011	MW-39B-122111-AD	SM 4500-S-2 D	WET/32797		
60112608012	MW-39A-122111	SM 4500-S-2 D	WET/32797		
60112608002	LPZ-4-122111	EPA 300.0	WETA/18855		
60112608003	MW-11A-122111	EPA 300.0	WETA/18855		
60112608004	MW-24B-122111	EPA 300.0	WETA/18855		
60112608005	VW-2B-122111	EPA 300.0	WETA/18855		
60112608006	MW-25B-122111	EPA 300.0	WETA/18855		
60112608007	MW-33B-122111	EPA 300.0	WETA/18855		
60112608008	MW-33A-122111	EPA 300.0	WETA/18855		
60112608009	MW-3-122111	EPA 300.0	WETA/18855		
12608010	MW-39B-122111	EPA 300.0	WETA/18855		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112608011	MW-39B-122111-AD	EPA 300.0	WETA/18855		
60112608012	MW-39A-122111	EPA 300.0	WETA/18855		
60112608002	LPZ-4-122111	EPA 353.2	WETA/18768		
60112608003	MW-11A-122111	EPA 353.2	WETA/18768		
60112608004	MW-24B-122111	EPA 353.2	WETA/18768		
60112608005	VW-2B-122111	EPA 353.2	WETA/18768		
60112608006	MW-25B-122111	EPA 353.2	WETA/18768		
60112608007	MW-33B-122111	EPA 353.2	WETA/18768		
60112608008	MW-33A-122111	EPA 353.2	WETA/18768		
60112608009	MW-3-122111	EPA 353.2	WETA/18768		
60112608010	MW-39B-122111	EPA 353.2	WETA/18768		
60112608011	MW-39B-122111-AD	EPA 353.2	WETA/18768		
60112608012	MW-39A-122111	EPA 353.2	WETA/18768		
60112608002	LPZ-4-122111	SM 5310C	WETA/10968		
60112608003	MW-11A-122111	SM 5310C	WETA/10968		
60112608004	MW-24B-122111	SM 5310C	WETA/10968		
60112608005	VW-2B-122111	SM 5310C	WETA/10968		
60112608006	MW-25B-122111	SM 5310C	WETA/10968		
60112608007	MW-33B-122111	SM 5310C	WETA/10969		
60112608008	MW-33A-122111	SM 5310C	WETA/10969		
60112608009	MW-3-122111	SM 5310C	WETA/10969		
60112608010	MW-39B-122111	SM 5310C	WETA/10969		
60112608011	MW-39B-122111-AD	SM 5310C	WETA/10969		
60112608012	MW-39A-122111	SM 5310C	WETA/10969		
60112608002	LPZ-4-122111	SM 4500-CO2 D	WETA/18860		
60112608003	MW-11A-122111	SM 4500-CO2 D	WETA/18860		
60112608004	MW-24B-122111	SM 4500-CO2 D	WETA/18860		
60112608005	VW-2B-122111	SM 4500-CO2 D	WETA/18860		
60112608006	MW-25B-122111	SM 4500-CO2 D	WETA/18860		
60112608007	MW-33B-122111	SM 4500-CO2 D	WETA/18860		
60112608008	MW-33A-122111	SM 4500-CO2 D	WETA/18860		
60112608009	MW-3-122111	SM 4500-CO2 D	WETA/18860		
60112608010	MW-39B-122111	SM 4500-CO2 D	WETA/18860		
60112608011	MW-39B-122111-AD	SM 4500-CO2 D	WETA/18860		
60112608012	MW-39A-122111	SM 4500-CO2 D	WETA/18860		

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Keystone
LABORATORIES, INC.

MEMBER ACIL

29 December 2011

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60112608

Enclosed are the results of analyses for samples received by the laboratory on 12/23/11 11:00. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-11A-122111	11L1240-01	Water	12/21/11 09:30	12/23/11 11:00

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60112608
Project Manager: Jamie Slade

Reported
12/29/11 15:41

MEMBER ACIL

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 60112608 **Workorder Name:** SOLUTIA GROUNDWATER **Results Requested** 1/4/2012

Report / Invoice To	Subcontract To
Jamie Slade Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: jamie.slade@pacelabs.com	P.O. SUB-6143

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Alachlor 8141	LAB USE ONLY
1	MW-11A-122111	12/21/2011 09:30	60112608003	Water	2	X	
2							
3							
4							
5							

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	12/22/11 1700		
2				
3				
4				
5				

Thursday, December 22, 2011 2:10:02 PM FMT-ALL-C-002rev.00 24March2009 Page 1 of 1

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112608 Project Manager: Jamie Slade	Reported 12/29/11 15:41

MW-11A-122111

11L1240-01 (Water)

Date Sampled:12/21/2011 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	ND	0.13	ug/l	1	1L12741	12/27/11	12/29/11 01:51	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*94.8 %*		*42-126*	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112608 Project Manager: Jamie Slade	Reported 12/29/11 15:41

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L12741 - 3510C NP/OC Sep Fnl										
Blank (1L12741-BLK1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*9.44*		"	*9.82400*		*96.1*	*42-126*			
LCS (1L12741-BS1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.045	0.10	ug/l	2.75000		111	65-135			
Surrogate: 2-Nitro-m-xylene	*9.98*		"	*9.82400*		*102*	*42-126*			
LCS Dup (1L12741-BSD1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.000	0.10	ug/l	2.75000		109	65-135	1.49	30	
Surrogate: 2-Nitro-m-xylene	*9.78*		"	*9.82400*		*99.5*	*42-126*			
Reference (1L12741-SRM1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Alachlor	3.240	0.10	ug/l	2.75000		118	70-130			
Surrogate: 2-Nitro-m-xylene	*11.0*		"	*9.82400*		*112*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2012
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2012
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112608 Project Manager: Jamie Slade	Reported 12/29/11 15:41

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112608 Project Manager: Jamie Slade	Reported 12/29/11 15:41

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Jennie Slade

12/22/11

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 09, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
siana Certification #: 04168
esota Certification #: 055-999-334
ew York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112730001	**MW-28A-122211**	Water	12/22/11 08:30	12/23/11 08:15
60112730002	**MW-30B-122211**	Water	12/22/11 12:06	12/23/11 08:15
60112730003	**MW-32A-122211**	Water	12/22/11 13:50	12/23/11 08:15
60112730004	**TB-122211**	Water	12/22/11 00:00	12/23/11 08:15

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112730001	**MW-28A-122211**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112730002	**MW-30B-122211**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112730003	**MW-32A-122211**	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP	2	PASI-K
		EPA 5030B/8260	PRG	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112730004	**TB-122211**	EPA 5030B/8260	PRG	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-28A-122211 **Lab ID: 60112730001** Collected: 12/22/11 08:30 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 12:00	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 12:00	74-85-1	
Methane	**3540**	ug/L	10.0	1		12/27/11 12:00	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**23000**	ug/L	50.0	1	12/23/11 16:30	12/29/11 15:31	7439-89-6	
Manganese	**460**	ug/L	5.0	1	12/23/11 16:30	12/29/11 15:31	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		01/03/12 15:48	67-64-1	
Benzene	ND	ug/L	5.0	5		01/03/12 15:48	71-43-2	
Carbon disulfide	ND	ug/L	25.0	5		01/03/12 15:48	75-15-0	
Chlorobenzene	ND	ug/L	5.0	5		01/03/12 15:48	108-90-7	
Chloroform	ND	ug/L	5.0	5		01/03/12 15:48	67-66-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		01/03/12 15:48	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		01/03/12 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		01/03/12 15:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	5		01/03/12 15:48	100-41-4	
Iodomethane	ND	ug/L	50.0	5		01/03/12 15:48	74-88-4	
Methylene chloride	ND	ug/L	5.0	5		01/03/12 15:48	75-09-2	
Tetrachloroethene	ND	ug/L	5.0	5		01/03/12 15:48	127-18-4	
Toluene	ND	ug/L	5.0	5		01/03/12 15:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		01/03/12 15:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		01/03/12 15:48	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		01/03/12 15:48	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		01/03/12 15:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	87-113	5		01/03/12 15:48	460-00-4	D3
Dibromofluoromethane (S)	103	%	86-112	5		01/03/12 15:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	5		01/03/12 15:48	17060-07-0	
Toluene-d8 (S)	98	%	90-110	5		01/03/12 15:48	2037-26-5	
Preservation pH	**1.0**		0.10	5		01/03/12 15:48		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**330**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**389**	mg/L	5.0	1		12/27/11 10:00		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		12/27/11 15:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.13**	mg/L	0.050	1		12/28/11 13:42	18496-25-8	

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-28A-122211 **Lab ID: 60112730001** Collected: 12/22/11 08:30 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**4.4**	mg/L	2.0	2		01/07/12 13:04	16887-00-6	
Sulfate	**48.2**	mg/L	5.0	5		01/07/12 13:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/23/11 14:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/23/11 14:46		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/23/11 14:46		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**44.9**	mg/L	30.0	60		01/06/12 04:48	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**395**	mg/L	20.0	1		01/03/12 16:16	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-30B-122211 **Lab ID: 60112730002** Collected: 12/22/11 12:06 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	**201**	ug/L	10.0	1		12/27/11 12:11	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 12:11	74-85-1	
Methane	**135**	ug/L	10.0	1		12/27/11 12:11	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**22500**	ug/L	50.0	1	12/23/11 16:30	12/29/11 19:03	7439-89-6	
Manganese	**3010**	ug/L	5.0	1	12/23/11 16:30	12/29/11 19:03	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		01/03/12 16:02	67-64-1	
Benzene	ND	ug/L	20.0	20		01/03/12 16:02	71-43-2	
Carbon disulfide	ND	ug/L	100	20		01/03/12 16:02	75-15-0	
Chlorobenzene	**1160**	ug/L	20.0	20		01/03/12 16:02	108-90-7	
Chloroform	ND	ug/L	20.0	20		01/03/12 16:02	67-66-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		01/03/12 16:02	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		01/03/12 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		01/03/12 16:02	156-60-5	
Ethylbenzene	ND	ug/L	20.0	20		01/03/12 16:02	100-41-4	
Iodomethane	ND	ug/L	200	20		01/03/12 16:02	74-88-4	
Methylene chloride	ND	ug/L	20.0	20		01/03/12 16:02	75-09-2	
Tetrachloroethene	ND	ug/L	20.0	20		01/03/12 16:02	127-18-4	
Toluene	ND	ug/L	20.0	20		01/03/12 16:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		01/03/12 16:02	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		01/03/12 16:02	79-01-6	
Vinyl chloride	ND	ug/L	20.0	20		01/03/12 16:02	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		01/03/12 16:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	87-113	20		01/03/12 16:02	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	20		01/03/12 16:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	82-119	20		01/03/12 16:02	17060-07-0	
Toluene-d8 (S)	99	%	90-110	20		01/03/12 16:02	2037-26-5	
Preservation pH	**1.0**		0.10	20		01/03/12 16:02		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**845**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1380**	mg/L	5.0	1		12/27/11 10:00		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/27/11 15:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:43	18496-25-8	

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(913)599-5665

ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-30B-122211 **Lab ID: 60112730002** Collected: 12/22/11 12:06 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**144**	mg/L	20.0	20		01/06/12 20:53	16887-00-6	
Sulfate	**313**	mg/L	20.0	20		01/06/12 20:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.70**	mg/L	0.10	1		12/23/11 14:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/23/11 14:53		
Nitrogen, NO2 plus NO3	**0.72**	mg/L	0.10	1		12/23/11 14:53		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**9.6**	mg/L	5.0	10		01/06/12 05:06	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**878**	mg/L	20.0	1		01/03/12 16:16	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-32A-122211 **Lab ID: 60112730003** Collected: 12/22/11 13:50 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/27/11 12:22	74-84-0	
Ethene	ND	ug/L	10.0	1		12/27/11 12:22	74-85-1	
Methane	ND	ug/L	10.0	1		12/27/11 12:22	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**324**	ug/L	50.0	1	12/23/11 16:30	12/29/11 15:38	7439-89-6	
Manganese	**225**	ug/L	5.0	1	12/23/11 16:30	12/29/11 15:38	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/31/11 05:46	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/11 05:46	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/31/11 05:46	75-15-0	
Chlorobenzene	**16.2**	ug/L	1.0	1		01/03/12 16:17	108-90-7	
Chloroform	**18.3**	ug/L	1.0	1		12/31/11 05:46	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/11 05:46	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 05:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 05:46	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/31/11 05:46	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/31/11 05:46	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/31/11 05:46	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/11 05:46	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/11 05:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/11 05:46	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/31/11 05:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/31/11 05:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/31/11 05:46	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	87-113	1		12/31/11 05:46	460-00-4	
Dibromofluoromethane (S)	96	%	86-112	1		12/31/11 05:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		12/31/11 05:46	17060-07-0	
Toluene-d8 (S)	100	%	90-110	1		12/31/11 05:46	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/31/11 05:46		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**205**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**289**	mg/L	5.0	1		12/27/11 10:00		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		12/27/11 15:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/28/11 13:44	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: MW-32A-122211 **Lab ID: 60112730003** Collected: 12/22/11 13:50 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**29.0**	mg/L	2.0	2		01/07/12 13:54	16887-00-6	
Sulfate	**65.8**	mg/L	5.0	5		01/07/12 13:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.95**	mg/L	0.10	1		12/23/11 14:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/23/11 14:54		
Nitrogen, NO2 plus NO3	**0.97**	mg/L	0.10	1		12/23/11 14:54		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.8**	mg/L	1.5	3		01/06/12 05:24	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**201**	mg/L	20.0	1		01/03/12 16:16	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Sample: TB-122211 **Lab ID: 60112730004** Collected: 12/22/11 00:00 Received: 12/23/11 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		12/31/11 06:00	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/11 06:00	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		12/31/11 06:00	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 16:31	108-90-7	
Chloroform	ND	ug/L	1.0	1		12/31/11 06:00	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/11 06:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 06:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/11 06:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		12/31/11 06:00	100-41-4	
Iodomethane	ND	ug/L	10.0	1		12/31/11 06:00	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		12/31/11 06:00	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/11 06:00	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/11 06:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/11 06:00	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		12/31/11 06:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/31/11 06:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/31/11 06:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	1		12/31/11 06:00	460-00-4	
Dibromofluoromethane (S)	97	%	86-112	1		12/31/11 06:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		12/31/11 06:00	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		12/31/11 06:00	2037-26-5	
Preservation pH	**1.0**		0.10	1		12/31/11 06:00		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: AIR/13905 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 1121112 — Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/27/11 08:06	
Ethene	ug/L	ND	10.0	12/27/11 08:06	
Methane	ug/L	ND	10.0	12/27/11 08:06	

LABORATORY CONTROL SAMPLE & LCSD: 1121113 1121114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	110	105	97	70-130	8	30	
Ethene	ug/L	106	110	103	104	97	70-130	6	30	
Methane	ug/L	60.7	62.8	63.5	104	105	70-130	1	30	

PLE DUPLICATE: 1121323

Parameter	Units	60112532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	2710	2540	6	30	

SAMPLE DUPLICATE: 1121324

Parameter	Units	60112532011 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	6.3J		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	4160	3920	6	30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: MPRP/16573 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 931590 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	12/29/11 16:03	
Manganese	ug/L	ND	5.0	12/29/11 16:03	

LABORATORY CONTROL SAMPLE: 931591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	8010	80	80-120	
Manganese	ug/L	1000	867	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 931592 931593

Parameter	Units	60112629001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Iron	ug/L	1540	10000	10000	9440	9360	79	78	75-125	1	20	
Manganese	ug/L	50.8	1000	1000	923	910	87	86	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: MSV/42810 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112730003, 60112730004

METHOD BLANK: 933655 | Matrix: Water
Associated Lab Samples: 60112730003, 60112730004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/31/11 01:45	
1,2-Dichloroethane	ug/L	ND	1.0	12/31/11 01:45	
Acetone	ug/L	ND	10.0	12/31/11 01:45	
Benzene	ug/L	ND	1.0	12/31/11 01:45	
Carbon disulfide	ug/L	ND	5.0	12/31/11 01:45	
Chloroform	ug/L	ND	1.0	12/31/11 01:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/31/11 01:45	
Ethylbenzene	ug/L	ND	1.0	12/31/11 01:45	
Iodomethane	ug/L	ND	10.0	12/31/11 01:45	
Methylene chloride	ug/L	ND	1.0	12/31/11 01:45	
Tetrachloroethene	ug/L	ND	1.0	12/31/11 01:45	
Toluene	ug/L	ND	1.0	12/31/11 01:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/31/11 01:45	
loroethene	ug/L	ND	1.0	12/31/11 01:45	
chloride	ug/L	ND	1.0	12/31/11 01:45	
ylene (Total)	ug/L	ND	3.0	12/31/11 01:45	
1,2-Dichloroethane-d4 (S)	%	98	82-119	12/31/11 01:45	
4-Bromofluorobenzene (S)	%	97	87-113	12/31/11 01:45	
Dibromofluoromethane (S)	%	97	86-112	12/31/11 01:45	
Toluene-d8 (S)	%	99	90-110	12/31/11 01:45	

LABORATORY CONTROL SAMPLE: 933656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	82-119	
1,2-Dichloroethane	ug/L	20	19.0	95	77-125	
Acetone	ug/L	100	62.5	62	18-192	
Benzene	ug/L	20	18.3	91	82-117	
Carbon disulfide	ug/L	20	20.1	100	75-138	
Chloroform	ug/L	20	19.2	96	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	80-119	
Ethylbenzene	ug/L	20	18.9	94	79-121	
Iodomethane	ug/L	20	21.4	107	14-169	
Methylene chloride	ug/L	20	20.9	105	75-118	
Tetrachloroethene	ug/L	20	18.8	94	80-124	
Toluene	ug/L	20	18.6	93	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	79-120	
Trichloroethene	ug/L	20	20.1	100	76-122	
Vinyl chloride	ug/L	20	14.9	75	57-163	
Xylene (Total)	ug/L	60	55.4	92	75-120	
ichloroethane-d4 (S)	%			97	82-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

LABORATORY CONTROL SAMPLE: 933656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: MSV/42838 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112730001, 60112730002, 60112730003, 60112730004

METHOD BLANK: 934276 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003, 60112730004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/12 12:34	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/12 12:34	
Acetone	ug/L	ND	10.0	01/03/12 12:34	
Benzene	ug/L	ND	1.0	01/03/12 12:34	
Carbon disulfide	ug/L	ND	5.0	01/03/12 12:34	
Chlorobenzene	ug/L	ND	1.0	01/03/12 12:34	
Chloroform	ug/L	ND	1.0	01/03/12 12:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 12:34	
Ethylbenzene	ug/L	ND	1.0	01/03/12 12:34	
Iodomethane	ug/L	ND	10.0	01/03/12 12:34	
Methylene chloride	ug/L	ND	1.0	01/03/12 12:34	
Tetrachloroethene	ug/L	ND	1.0	01/03/12 12:34	
Toluene	ug/L	ND	1.0	01/03/12 12:34	
s-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 12:34	
loroethene	ug/L	ND	1.0	01/03/12 12:34	
yl chloride	ug/L	ND	1.0	01/03/12 12:34	
Xylene (Total)	ug/L	ND	3.0	01/03/12 12:34	
1,2-Dichloroethane-d4 (S)	%	96	82-119	01/03/12 12:34	
4-Bromofluorobenzene (S)	%	99	87-113	01/03/12 12:34	
Dibromofluoromethane (S)	%	99	86-112	01/03/12 12:34	
Toluene-d8 (S)	%	99	90-110	01/03/12 12:34	

LABORATORY CONTROL SAMPLE: 934277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	92	82-119	
1,2-Dichloroethane	ug/L	20	19.3	96	77-125	
Acetone	ug/L	100	96.3	96	18-192	
Benzene	ug/L	20	18.4	92	82-117	
Carbon disulfide	ug/L	20	17.3	87	75-138	
Chlorobenzene	ug/L	20	19.2	96	83-121	
Chloroform	ug/L	20	19.2	96	82-116	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	80-119	
Ethylbenzene	ug/L	20	18.4	92	79-121	
Iodomethane	ug/L	20	19.0	95	14-169	
Methylene chloride	ug/L	20	17.7	88	75-118	
Tetrachloroethene	ug/L	20	19.3	96	80-124	
Toluene	ug/L	20	18.0	90	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	79-120	
Trichloroethene	ug/L	20	18.9	95	76-122	
chloride	ug/L	20	14.0	70	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

LABORATORY CONTROL SAMPLE: 934277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	55.3	92	75-120	
1,2-Dichloroethane-d4 (S)	%			98	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934278 934279

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.0	18.7	95	94	57-128	1	27	
1,2-Dichloroethane	ug/L	ND	20	20	19.0	18.7	95	94	44-145	1	22	
Acetone	ug/L	ND	100	100	53.1	57.8	53	58	30-147	8	30	
Benzene	ug/L	ND	20	20	18.5	18.0	93	90	58-139	3	21	
Carbon disulfide	ug/L	ND	20	20	20.8	20.1	104	100	28-155	4	25	
Chlorobenzene	ug/L	ND	20	20	19.2	19.1	94	93	56-129	1	21	
Chloroform	ug/L	ND	20	20	19.0	18.8	95	94	55-130	1	23	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.1	17.8	91	89	34-152	2	26	
Ethylbenzene	ug/L	ND	20	20	18.9	18.6	95	93	56-138	1	19	
Iodomethane	ug/L	ND	20	20	15.3	21.2	76	105	10-161	32	30	D6
Methylene chloride	ug/L	ND	20	20	19.7	19.9	99	100	44-133	1	27	
Tetrachloroethene	ug/L	ND	20	20	19.9	19.2	99	96	47-140	3	24	
Toluene	ug/L	ND	20	20	18.6	18.3	92	91	59-140	2	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.4	100	97	62-130	3	25	
Trichloroethene	ug/L	ND	20	20	19.6	18.8	98	94	37-148	4	25	
Vinyl chloride	ug/L	ND	20	20	15.0	14.1	75	70	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	56.4	55.6	94	93	52-146	1	19	
1,2-Dichloroethane-d4 (S)	%						98	98	82-119			
4-Bromofluorobenzene (S)	%						101	104	87-113			
Dibromofluoromethane (S)	%						99	100	86-112			
Toluene-d8 (S)	%						97	101	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WET/32854 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 933373 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 10:30	

LABORATORY CONTROL SAMPLE: 933374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	510	102	90-110	

SAMPLE DUPLICATE: 933375

Parameter	Units	60112608010 Result	Dup Result	RPD	Max RPD	Qualifiers
alinity, Total as CaCO3	mg/L	615	625	2	9	

SAMPLE DUPLICATE: 933376

Parameter	Units	60112887002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	185	200	8	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WET/32759 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 931929 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/27/11 09:57	

SAMPLE DUPLICATE: 931930

Parameter	Units	60112608010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1370	0	17	

SAMPLE DUPLICATE: 931931

Parameter	Units	60112721001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1280	1260	1	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WET/32781 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112730001, 60112730002, 60112730003

SAMPLE DUPLICATE: 932230

Parameter	Units	60112730001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WET/32797 — Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D — Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 932369 — Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/28/11 13:10	

LABORATORY CONTROL SAMPLE: 932370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	108	80-120	

MATRIX SPIKE SAMPLE: 932372

Parameter	Units	60112608010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.52	105	75-125	

SAMPLE DUPLICATE: 932371

Parameter	Units	60112608003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 932373

Parameter	Units	60112608011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WETA/18875 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 936097 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/06/12 11:46	
Sulfate	mg/L	ND	1.0	01/06/12 11:46	

METHOD BLANK: 936650 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/07/12 10:19	
Sulfate	mg/L	ND	1.0	01/07/12 10:19	

' ^BORATORY CONTROL SAMPLE: 936098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 936651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 936099 936100

Parameter	Units	60112750001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.5	10	10	34.4	33.6	109	101	64-118	2	12	
Sulfate	mg/L	4440	2500	2500	6610	6810	87	95	61-119	3	10	

MATRIX SPIKE SAMPLE: 936101

Parameter	Units	60112546002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.6	10	14.0	94	64-118	
Sulfate	mg/L	126	50	166	79	61-119	M0

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WETA/18780 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 931761 — Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/23/11 14:44	
Nitrogen, Nitrite	mg/L	ND	0.10	12/23/11 14:44	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/23/11 14:44	

LABORATORY CONTROL SAMPLE: 931762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	101	90-110	
Nitrogen, Nitrite	mg/L	.4	0.42	106	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 931763

Parameter	Units	60112730001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.5	96	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.38	91	90-110	
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	95	90-110	

SAMPLE DUPLICATE: 931764

Parameter	Units	60112736002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	12.9	12.0	7	15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	12.9	12.1	7	13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

QC Batch: WETA/10969 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112730001, 60112730002, 60112730003

METHOD BLANK: 552598 Matrix: Water
Associated Lab Samples: 60112730001, 60112730002, 60112730003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	01/06/12 01:29	

LABORATORY CONTROL SAMPLE: 552599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552600 552601

Parameter	Units	60112608010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Organic Carbon	mg/L	0.79	2.5	2.5	1.6	1.6	32	32	80-120	.7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 552602 552603

Parameter	Units	10179168003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	2.5	2.5	3.8	3.8	106	107	80-120	1	20	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/42810

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112730

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112730001	MW-28A-122211	RSK 175	AIR/13905		
60112730002	MW-30B-122211	RSK 175	AIR/13905		
60112730003	MW-32A-122211	RSK 175	AIR/13905		
60112730001	MW-28A-122211	EPA 3010	MPRP/16573	EPA 6010	ICP/14247
60112730002	MW-30B-122211	EPA 3010	MPRP/16573	EPA 6010	ICP/14247
60112730003	MW-32A-122211	EPA 3010	MPRP/16573	EPA 6010	ICP/14247
60112730001	MW-28A-122211	EPA 5030B/8260	MSV/42838		
60112730002	MW-30B-122211	EPA 5030B/8260	MSV/42838		
60112730003	MW-32A-122211	EPA 5030B/8260	MSV/42810		
60112730003	MW-32A-122211	EPA 5030B/8260	MSV/42838		
60112730004	TB-122211	EPA 5030B/8260	MSV/42810		
60112730004	TB-122211	EPA 5030B/8260	MSV/42838		
60112730001	MW-28A-122211	SM 2320B	WET/32854		
60112730002	MW-30B-122211	SM 2320B	WET/32854		
60112730003	MW-32A-122211	SM 2320B	WET/32854		
60112730001	MW-28A-122211	SM 2540C	WET/32759		
2730002	MW-30B-122211	SM 2540C	WET/32759		
2730003	MW-32A-122211	SM 2540C	WET/32759		
60112730001	MW-28A-122211	SM 4500-H+B	WET/32781		
60112730002	MW-30B-122211	SM 4500-H+B	WET/32781		
60112730003	MW-32A-122211	SM 4500-H+B	WET/32781		
60112730001	MW-28A-122211	SM 4500-S-2 D	WET/32797		
60112730002	MW-30B-122211	SM 4500-S-2 D	WET/32797		
60112730003	MW-32A-122211	SM 4500-S-2 D	WET/32797		
60112730001	MW-28A-122211	EPA 300.0	WETA/18875		
60112730002	MW-30B-122211	EPA 300.0	WETA/18875		
60112730003	MW-32A-122211	EPA 300.0	WETA/18875		
60112730001	MW-28A-122211	EPA 353.2	WETA/18780		
60112730002	MW-30B-122211	EPA 353.2	WETA/18780		
60112730003	MW-32A-122211	EPA 353.2	WETA/18780		
60112730001	MW-28A-122211	SM 5310C	WETA/10969		
60112730002	MW-30B-122211	SM 5310C	WETA/10969		
60112730003	MW-32A-122211	SM 5310C	WETA/10969		
60112730001	MW-28A-122211	SM 4500-CO2 D	WETA/18841		
60112730002	MW-30B-122211	SM 4500-CO2 D	WETA/18841		
60112730003	MW-32A-122211	SM 4500-CO2 D	WETA/18841		

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Sample Condition Upon Receipt

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Client Name: Environ OP Project # 60112730

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☑ Other VIA

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: (T-191) / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.9

Temperature should be above freezing to 6°C

Optional	
Proj. Due Date:	
Proj. Name:	1/3

Date and Initials of person examining contents: PV 12-23-11

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☑ Yes ☐ No ☐ N/A	6. NO3
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC: -Includes date/time/ID/analyses Matrix: WT	☑ Yes ☐ No ☐ N/A	13.
All containers needing preservation have been checked.	☑ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes ☐ No ☐ N/A	
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present: Pace Trip Blank lot # (if purchased): 1128113	☑ Yes ☐ No ☐ N/A	15.
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? (Y) / N Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 12/28/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	Environmental Operations
Address:	1530 S. Second St. Ste. 200
	St. Louis, MO 63104
Email To:	larryr@environmentalops.com
Phone:	314-241-0900
Fax:	314-436-2900
Requested Due Date/TAT:	std

Section B Required Project Information:

Report To:	Larry Rosen
Copy To:	
Purchase Order No.:	
Project Name:	Solutia Groundwater
Project Number:	2950.R

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Slade
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER POTW

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 VOCs	6010 Fe, Mn	Sulfide	TOC	Alkalinty	TDS	Carbon Dioxide	Sulfate/Chloride	Nitrate	Methane/Ethane/Ethene	8141 Alachlor		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60112730
1	MW-28A-12 2211 3DG9H	WT	G			12/22	8:30		10	3	VG	9U	1BP	1U		1AG	3S		X	X	X	X	X	X	X	X	X	X	1BP	3N	1.5	1BP32 10.5	01
2	MW-30B-12 2211	WT	G			12/22	12:06		10										X	X	X	X	X	X	X	X	X	X					02
3	MW-32A-12 2211	WT	G			12/22	13:50		10										X	X	X	X	X	X	X	X	X	X					03
4	TB-12 2211 2DG9H	WT	G			12/22	8:00		2										X														04
5		WT	G																													
6		WT	G																													
7		WT	G																													
8		WT	G																													
9		WT	G																													
10		WT	G																													
11		WT	G																													
12		WT	G																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / EOI	12/22	14:10	[signature]	12-23-11	0815	0.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Truesdale

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/22/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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January 10, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
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Oklahoma Certification #: 9507
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Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
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9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112887001	**MW-34B-122811**	Water	12/28/11 09:37	12/29/11 08:26
60112887002	**MW-32B-122811**	Water	12/28/11 12:13	12/29/11 08:26
60112887003	**MW-32B-122811-AD**	Water	12/28/11 12:13	12/29/11 08:26
60112887004	**MW-31B-122811**	Water	12/28/11 13:04	12/29/11 08:26
60112887005	**MW-15-122811**	Water	12/28/11 14:17	12/29/11 08:26
60112887006	**MW-15-122811-AD**	Water	12/28/11 14:17	12/29/11 08:26
60112887007	**TB-122811**	Water	12/28/11 08:00	12/29/11 08:26

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112887001	**MW-34B-122811**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887002	**MW-32B-122811**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887003	**MW-32B-122811-AD**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887004	**MW-31B-122811**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887005	**MW-15-122811**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887006	**MW-15-122811-AD**	RSK 175	SK4	3	PASI-M
		EPA 6010	SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	KMT	1	PASI-S
		SM 4500-CO2 D	CMG	1	PASI-K
60112887007	**TB-122811**	EPA 5030B/8260	JDM	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-34B-122811 **Lab ID: 60112887001** Collected: 12/28/11 09:37 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 13:58	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 13:58	74-85-1	
Methane	**96.5**	ug/L	10.0	1		12/30/11 13:58	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**9430**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:25	7439-89-6	B+
Manganese	**1110**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:25	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	100	10		01/03/12 10:23	67-64-1	
Benzene	ND	ug/L	10.0	10		01/03/12 10:23	71-43-2	
Carbon disulfide	ND	ug/L	50.0	10		01/03/12 10:23	75-15-0	
Chlorobenzene	**1050**	ug/L	10.0	10		01/03/12 10:23	108-90-7	
Chloroform	ND	ug/L	10.0	10		01/03/12 10:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		01/03/12 10:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		01/03/12 10:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		01/03/12 10:23	156-60-5	
benzene	ND	ug/L	10.0	10		01/03/12 10:23	100-41-4	
ıethane	ND	ug/L	100	10		01/03/12 10:23	74-88-4	
Methylene chloride	ND	ug/L	10.0	10		01/03/12 10:23	75-09-2	
Tetrachloroethene	ND	ug/L	10.0	10		01/03/12 10:23	127-18-4	
Toluene	ND	ug/L	10.0	10		01/03/12 10:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/03/12 10:23	71-55-6	
Trichloroethene	ND	ug/L	10.0	10		01/03/12 10:23	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		01/03/12 10:23	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		01/03/12 10:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	10		01/03/12 10:23	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	10		01/03/12 10:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	10		01/03/12 10:23	17060-07-0	
Toluene-d8 (S)	104	%	90-110	10		01/03/12 10:23	2037-26-5	
Preservation pH	**1.0**		0.10	10		01/03/12 10:23		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**465**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**673**	mg/L	5.0	1		12/30/11 07:48		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/30/11 09:43	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-34B-122811 **Lab ID: 60112887001** Collected: 12/28/11 09:37 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**50.0**	mg/L	10.0	10		01/08/12 15:53	16887-00-6	
Sulfate	**111**	mg/L	10.0	10		01/08/12 15:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.12**	mg/L	0.10	1		12/29/11 15:10		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:10		
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.10	1		12/29/11 15:10		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.7**	mg/L	1.0	1		01/03/12 15:48	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**483**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-32B-122811 **Lab ID: 60112887002** Collected: 12/28/11 12:13 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 15:45	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 15:45	74-85-1	
Methane	ND	ug/L	10.0	1		12/30/11 15:45	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**6200**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:27	7439-89-6	B+
Manganese	**226**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:27	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 10:39	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 10:39	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 10:39	75-15-0	
Chlorobenzene	**9.6**	ug/L	1.0	1		01/03/12 10:39	108-90-7	
Chloroform	**15.1**	ug/L	1.0	1		01/03/12 10:39	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 10:39	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 10:39	156-60-5	
benzene	ND	ug/L	1.0	1		01/03/12 10:39	100-41-4	
ıethane	ND	ug/L	10.0	1		01/03/12 10:39	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 10:39	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 10:39	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 10:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 10:39	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 10:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 10:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 10:39	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	1		01/03/12 10:39	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		01/03/12 10:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		01/03/12 10:39	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1		01/03/12 10:39	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 10:39		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**185**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**324**	mg/L	5.0	1		12/30/11 07:48		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/30/11 09:44	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-32B-122811 **Lab ID: 60112887002** Collected: 12/28/11 12:13 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**34.0**	mg/L	10.0	10		01/08/12 16:08	16887-00-6	
Sulfate	**75.7**	mg/L	10.0	10		01/08/12 16:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.87**	mg/L	0.10	1		12/29/11 15:14		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:14		
Nitrogen, NO2 plus NO3	**0.87**	mg/L	0.10	1		12/29/11 15:14		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.4**	mg/L	1.0	1		01/03/12 16:02	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**181**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-32B-122811-AD **Lab ID: 60112887003** Collected: 12/28/11 12:13 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 14:09	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 14:09	74-85-1	
Methane	ND	ug/L	10.0	1		12/30/11 14:09	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**6690**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:35	7439-89-6	B+
Manganese	**743**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:35	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 10:54	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 10:54	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 10:54	75-15-0	
Chlorobenzene	**15.8**	ug/L	1.0	1		01/03/12 10:54	108-90-7	
Chloroform	**16.9**	ug/L	1.0	1		01/03/12 10:54	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 10:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 10:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 10:54	156-60-5	
benzene	ND	ug/L	1.0	1		01/03/12 10:54	100-41-4	
ıethane	ND	ug/L	10.0	1		01/03/12 10:54	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 10:54	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 10:54	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 10:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 10:54	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 10:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 10:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 10:54	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	87-113	1		01/03/12 10:54	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		01/03/12 10:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		01/03/12 10:54	17060-07-0	
Toluene-d8 (S)	110	%	90-110	1		01/03/12 10:54	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 10:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**305**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**446**	mg/L	5.0	1		12/30/11 07:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/30/11 09:44	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-32B-122811-AD **Lab ID: 60112887003** Collected: 12/28/11 12:13 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**38.5**	mg/L	10.0	10		01/08/12 17:24	16887-00-6	
Sulfate	**85.7**	mg/L	10.0	10		01/08/12 17:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.56**	mg/L	0.10	1		12/29/11 15:17		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:17		
Nitrogen, NO2 plus NO3	**0.56**	mg/L	0.10	1		12/29/11 15:17		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.1**	mg/L	1.0	1		01/03/12 16:17	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**307**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-31B-122811 **Lab ID: 60112887004** Collected: 12/28/11 13:04 Received: 12/29/11 08:26 Matrix: Water

Comments: • The methane vials for this sample were received frozen. Results may be biased low. Analyzed per the clients request.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 14:20	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 14:20	74-85-1	
Methane	ND	ug/L	10.0	1		12/30/11 14:20	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**27500**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:42	7439-89-6	B+
Manganese	**638**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:42	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 11:25	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 11:25	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 11:25	75-15-0	
Chlorobenzene	**8.7**	ug/L	1.0	1		01/03/12 11:25	108-90-7	
Chloroform	**14.6**	ug/L	1.0	1		01/03/12 11:25	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 11:25	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 11:25	156-59-2	
-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 11:25	156-60-5	
ıenzene	ND	ug/L	1.0	1		01/03/12 11:25	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 11:25	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 11:25	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 11:25	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 11:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 11:25	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 11:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 11:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 11:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	87-113	1		01/03/12 11:25	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		01/03/12 11:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		01/03/12 11:25	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		01/03/12 11:25	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 11:25		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**185**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**301**	mg/L	5.0	1		12/30/11 07:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/30/11 09:45	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-31B-122811 **Lab ID: 60112887004** Collected: 12/28/11 13:04 Received: 12/29/11 08:26 Matrix: Water

Comments: • The methane vials for this sample were received frozen. Results may be biased low. Analyzed per the clients request.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**34.2**	mg/L	10.0	10		01/08/12 17:39	16887-00-6	
Sulfate	**72.4**	mg/L	10.0	10		01/08/12 17:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.84**	mg/L	0.10	1		12/29/11 15:19		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:19		
Nitrogen, NO2 plus NO3	**0.84**	mg/L	0.10	1		12/29/11 15:19		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.2**	mg/L	1.0	1		01/03/12 16:34	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**178**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-15-122811 **Lab ID: 60112887005** Collected: 12/28/11 14:17 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 14:31	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 14:31	74-85-1	
Methane	ND	ug/L	10.0	1		12/30/11 14:31	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**3730**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:45	7439-89-6	B+
Manganese	**2040**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:45	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 11:40	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 11:40	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 11:40	75-15-0	
Chlorobenzene	**1.4**	ug/L	1.0	1		01/03/12 11:40	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 11:40	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 11:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 11:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 11:40	156-60-5	
benzene	ND	ug/L	1.0	1		01/03/12 11:40	100-41-4	
ıethane	ND	ug/L	10.0	1		01/03/12 11:40	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 11:40	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 11:40	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 11:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 11:40	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 11:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 11:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 11:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	87-113	1		01/03/12 11:40	460-00-4	
Dibromofluoromethane (S)	99	%	86-112	1		01/03/12 11:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	82-119	1		01/03/12 11:40	17060-07-0	
Toluene-d8 (S)	106	%	90-110	1		01/03/12 11:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 11:40		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**115**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	5.0	1		12/30/11 07:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**0.060**	mg/L	0.050	1		12/30/11 09:45	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-15-122811 **Lab ID: 60112887005** Collected: 12/28/11 14:17 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**4.5**	mg/L	2.0	2		01/09/12 10:47	16887-00-6	
Sulfate	**16.6**	mg/L	2.0	2		01/09/12 10:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/29/11 15:21		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:21		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/29/11 15:21		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	1.0	1		01/03/12 16:47	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**110**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-15-122811-AD **Lab ID: 60112887006** Collected: 12/28/11 14:17 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		12/30/11 14:42	74-84-0	
Ethene	ND	ug/L	10.0	1		12/30/11 14:42	74-85-1	
Methane	ND	ug/L	10.0	1		12/30/11 14:42	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**3220**	ug/L	50.0	1	12/29/11 16:00	12/30/11 16:47	7439-89-6	B+
Manganese	**1990**	ug/L	5.0	1	12/29/11 16:00	12/30/11 16:47	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 12:11	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 12:11	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 12:11	75-15-0	
Chlorobenzene	**1.3**	ug/L	1.0	1		01/03/12 12:11	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 12:11	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 12:11	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 12:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 12:11	156-60-5	
benzene	ND	ug/L	1.0	1		01/03/12 12:11	100-41-4	
ıethane	ND	ug/L	10.0	1		01/03/12 12:11	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 12:11	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 12:11	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 12:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 12:11	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 12:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 12:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 12:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	87-113	1		01/03/12 12:11	460-00-4	
Dibromofluoromethane (S)	104	%	86-112	1		01/03/12 12:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	82-119	1		01/03/12 12:11	17060-07-0	
Toluene-d8 (S)	106	%	90-110	1		01/03/12 12:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 12:11		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**76.0**	mg/L	20.0	1		12/30/11 10:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**44.0**	mg/L	5.0	1		12/30/11 07:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		12/30/11 10:30		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		12/30/11 09:45	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: MW-15-122811-AD **Lab ID: 60112887006** Collected: 12/28/11 14:17 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.1**	mg/L	1.0	1		01/09/12 11:02	16887-00-6	
Sulfate	**12.3**	mg/L	1.0	1		01/09/12 11:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/29/11 15:22		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/29/11 15:22		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/29/11 15:22		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	1.0	1		01/03/12 17:01	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**72.9**	mg/L	20.0	1		01/05/11 10:39	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Sample: TB-122811 **Lab ID: 60112887007** Collected: 12/28/11 08:00 Received: 12/29/11 08:26 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/03/12 12:27	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/12 12:27	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/03/12 12:27	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/03/12 12:27	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/03/12 12:27	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/12 12:27	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/12 12:27	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/12 12:27	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/03/12 12:27	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/12 12:27	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/03/12 12:27	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/12 12:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/12 12:27	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/03/12 12:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/12 12:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/12 12:27	1330-20-7	
ogates								
mofluorobenzene (S)	96	%	87-113	1		01/03/12 12:27	460-00-4	
omofluoromethane (S)	102	%	86-112	1		01/03/12 12:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		01/03/12 12:27	17060-07-0	
Toluene-d8 (S)	101	%	90-110	1		01/03/12 12:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/03/12 12:27		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: AIR/13937 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 1122455 — Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	12/30/11 12:51	
Ethene	ug/L	ND	10.0	12/30/11 12:51	
Methane	ug/L	ND	10.0	12/30/11 12:51	

LABORATORY CONTROL SAMPLE & LCSD: 1122456 1122457

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	116	105	102	70-130	3	30	
Ethene	ug/L	106	110	109	104	103	70-130	1	30	
Methane	ug/L	60.7	62.5	64.1	103	106	70-130	3	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123035 1123036

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	98.9	98.9	116	105	118	107	30-150	10	30	
Ethene	ug/L	ND	92.3	92.3	109	101	115	106	30-150	8	30	
Methane	ug/L	ND	52.7	52.7	64.8	62.2	114	109	30-150	4	30	

SAMPLE DUPLICATE: 1123041

Parameter	Units	92109294001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: MPRP/16621 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 933175 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	56.4	50.0	12/30/11 16:20	
Manganese	ug/L	ND	5.0	12/30/11 16:20	

LABORATORY CONTROL SAMPLE: 933176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9610	96	80-120	
Manganese	ug/L	1000	964	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933177 933178

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	6200	10000	10000	17900	18600	117	124	75-125	4	20	
Manganese	ug/L	226	1000	1000	1160	1200	94	98	75-125	4	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: MSV/42822 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006, 60112887007

METHOD BLANK: 933793 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006, 60112887007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/12 09:53	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/12 09:53	
Acetone	ug/L	ND	10.0	01/03/12 09:53	
Benzene	ug/L	ND	1.0	01/03/12 09:53	
Carbon disulfide	ug/L	ND	5.0	01/03/12 09:53	
Chlorobenzene	ug/L	ND	1.0	01/03/12 09:53	
Chloroform	ug/L	ND	1.0	01/03/12 09:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 09:53	
Ethylbenzene	ug/L	ND	1.0	01/03/12 09:53	
Iodomethane	ug/L	ND	10.0	01/03/12 09:53	
Methylene chloride	ug/L	ND	1.0	01/03/12 09:53	
Tetrachloroethene	ug/L	ND	1.0	01/03/12 09:53	
Toluene	ug/L	ND	1.0	01/03/12 09:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 09:53	
Trichloroethene	ug/L	ND	1.0	01/03/12 09:53	
Vinyl chloride	ug/L	ND	1.0	01/03/12 09:53	
Xylene (Total)	ug/L	ND	3.0	01/03/12 09:53	
1,2-Dichloroethane-d4 (S)	%	106	82-119	01/03/12 09:53	
4-Bromofluorobenzene (S)	%	97	87-113	01/03/12 09:53	
Dibromofluoromethane (S)	%	102	86-112	01/03/12 09:53	
Toluene-d8 (S)	%	104	90-110	01/03/12 09:53	

LABORATORY CONTROL SAMPLE: 933794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	82-119	
1,2-Dichloroethane	ug/L	20	19.0	95	77-125	
Acetone	ug/L	100	128	128	18-192	
Benzene	ug/L	20	17.7	88	82-117	
Carbon disulfide	ug/L	20	21.5	108	75-138	
Chlorobenzene	ug/L	20	21.5	108	83-121	
Chloroform	ug/L	20	18.7	93	82-116	
cis-1,2-Dichloroethene	ug/L	20	17.2	86	80-119	
Ethylbenzene	ug/L	20	20.9	105	79-121	
Iodomethane	ug/L	20	13.2	66	14-169	
Methylene chloride	ug/L	20	18.8	94	75-118	
Tetrachloroethene	ug/L	20	23.0	115	80-124	
Toluene	ug/L	20	19.9	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	79-120	
Trichloroethene	ug/L	20	17.0	85	76-122	
Vinyl chloride	ug/L	20	17.6	88	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

LABORATORY CONTROL SAMPLE: 933794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	60.8	101	75-120	
1,2-Dichloroethane-d4 (S)	%			103	82-119	
4-Bromofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			105	86-112	
Toluene-d8 (S)	%			107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933795 933796

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.1	104	106	57-128	2	27	
1,2-Dichloroethane	ug/L	ND	20	20	18.9	21.0	95	105	44-145	10	22	
Acetone	ug/L	ND	100	100	59.0	68.3	59	68	30-147	15	30	
Benzene	ug/L	ND	20	20	18.8	19.7	94	99	58-139	5	21	
Carbon disulfide	ug/L	ND	20	20	22.8	23.8	114	119	28-155	4	25	
Chlorobenzene	ug/L	9.6	20	20	34.2	30.9	123	106	56-129	10	21	
Chloroform	ug/L	15.1	20	20	34.6	34.6	97	97	55-130	0	23	
1,2-Dichloroethene	ug/L	ND	20	20	17.7	18.6	88	93	34-152	5	26	
benzene	ug/L	ND	20	20	21.4	22.3	107	111	56-138	4	19	
Iodomethane	ug/L	ND	20	20	12.3	14.6	61	73	10-161	18	30	
Methylene chloride	ug/L	ND	20	20	19.7	20.9	99	104	44-133	6	27	
Tetrachloroethene	ug/L	ND	20	20	23.6	23.4	118	117	47-140	0	24	
Toluene	ug/L	ND	20	20	19.9	21.0	100	105	59-140	5	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	23.0	107	115	62-130	7	25	
Trichloroethene	ug/L	ND	20	20	17.5	19.1	87	96	37-148	9	25	
Vinyl chloride	ug/L	ND	20	20	19.0	20.2	95	101	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	60.8	63.6	101	106	52-146	4	19	
1,2-Dichloroethane-d4 (S)	%						104	106	82-119			
4-Bromofluorobenzene (S)	%						100	95	87-113			
Dibromofluoromethane (S)	%						103	103	86-112			
Toluene-d8 (S)	%						107	99	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WET/32854 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 933373 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/30/11 10:30	

LABORATORY CONTROL SAMPLE: 933374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	510	102	90-110	

SAMPLE DUPLICATE: 933375

Parameter	Units	60112608010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	615	625	2	9	

SAMPLE DUPLICATE: 933376

Parameter	Units	60112887002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	185	200	8	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WET/32848 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 933350 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/30/11 07:46	

SAMPLE DUPLICATE: 933351

Parameter	Units	60112877001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	243	257	6	17	

SAMPLE DUPLICATE: 933352

Parameter	Units	60112887002 Result	Dup Result	RPD	Max RPD	Qualifiers
' Dissolved Solids	mg/L	324	325	0	17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WET/32862 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

SAMPLE DUPLICATE: 933632

Parameter	Units	60112887001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WET/32858 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 933425 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/30/11 09:35	

LABORATORY CONTROL SAMPLE: 933426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE SAMPLE: 933427

Parameter	Units	60112887002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
de, Total	mg/L	ND	.5	0.56	112	75-125	

SAMPLE DUPLICATE: 933428

Parameter	Units	60112887003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WETA/18882 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 936395 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/08/12 14:52	
Sulfate	mg/L	ND	1.0	01/08/12 14:52	

METHOD BLANK: 936867 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/09/12 10:01	
Sulfate	mg/L	ND	1.0	01/09/12 10:01	

LABORATORY CONTROL SAMPLE: 936396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

LABORATORY CONTROL SAMPLE: 936868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 936397 936398

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	34.0	50	50	77.5	77.8	87	88	64-118	0	12	
Sulfate	mg/L	75.7	50	50	119	122	87	92	61-119	2	10	

MATRIX SPIKE SAMPLE: 936399

Parameter	Units	60113139001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	106	100	206	101	64-118	
Sulfate	mg/L	7020	5000	10900	77	61-119	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WETA/18818 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 933142 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/29/11 15:08	
Nitrogen, Nitrite	mg/L	ND	0.10	12/29/11 15:08	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/29/11 15:08	

LABORATORY CONTROL SAMPLE: 933143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	104	90-110	
Nitrogen, Nitrite	mg/L	.4	0.44	110	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

ɪIX SPIKE SAMPLE: 933145

Parameter	Units	60112887002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.87	1.6	2.7	114	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.47	118	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	0.87	2	3.2	115	90-110	M0

MATRIX SPIKE SAMPLE: 933146

Parameter	Units	60112887006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.8	112	90-110	M0
Nitrogen, Nitrite	mg/L	ND	.4	0.47	116	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.3	113	90-110	M0

SAMPLE DUPLICATE: 933144

Parameter	Units	60112865003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	4.5	4.5	0	15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	4.5	4.5	0	13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

QC Batch: WETA/2353 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

METHOD BLANK: 98896 Matrix: Water
Associated Lab Samples: 60112887001, 60112887002, 60112887003, 60112887004, 60112887005, 60112887006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	01/03/12 15:06	

LABORATORY CONTROL SAMPLE & LCSD: 98897 98898

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	10	10.2	10.5	102	105	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 98899 98900

Parameter	Units	60112887002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.4	10	10	15.7	15.4	113	110	75-125	2	20	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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PASI-M	Pace Analytical Services - Minneapolis
PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

B+	Analyte was detected in the associated method blank as well as in the sample.
H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112887001	MW-34B-122811	RSK 175	AIR/13937		
60112887002	MW-32B-122811	RSK 175	AIR/13937		
60112887003	MW-32B-122811-AD	RSK 175	AIR/13937		
60112887004	MW-31B-122811	RSK 175	AIR/13937		
60112887005	MW-15-122811	RSK 175	AIR/13937		
60112887006	MW-15-122811-AD	RSK 175	AIR/13937		
60112887001	MW-34B-122811	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887002	MW-32B-122811	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887003	MW-32B-122811-AD	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887004	MW-31B-122811	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887005	MW-15-122811	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887006	MW-15-122811-AD	EPA 3010	MPRP/16621	EPA 6010	ICP/14296
60112887001	MW-34B-122811	EPA 5030B/8260	MSV/42822		
60112887002	MW-32B-122811	EPA 5030B/8260	MSV/42822		
60112887003	MW-32B-122811-AD	EPA 5030B/8260	MSV/42822		
60112887004	MW-31B-122811	EPA 5030B/8260	MSV/42822		
60112887005	MW-15-122811	EPA 5030B/8260	MSV/42822		
60112887006	MW-15-122811-AD	EPA 5030B/8260	MSV/42822		
60112887007	TB-122811	EPA 5030B/8260	MSV/42822		
60112887001	MW-34B-122811	SM 2320B	WET/32854		
60112887002	MW-32B-122811	SM 2320B	WET/32854		
60112887003	MW-32B-122811-AD	SM 2320B	WET/32854		
60112887004	MW-31B-122811	SM 2320B	WET/32854		
60112887005	MW-15-122811	SM 2320B	WET/32854		
60112887006	MW-15-122811-AD	SM 2320B	WET/32854		
60112887001	MW-34B-122811	SM 2540C	WET/32848		
60112887002	MW-32B-122811	SM 2540C	WET/32848		
60112887003	MW-32B-122811-AD	SM 2540C	WET/32848		
60112887004	MW-31B-122811	SM 2540C	WET/32848		
60112887005	MW-15-122811	SM 2540C	WET/32848		
60112887006	MW-15-122811-AD	SM 2540C	WET/32848		
60112887001	MW-34B-122811	SM 4500-H+B	WET/32862		
60112887002	MW-32B-122811	SM 4500-H+B	WET/32862		
60112887003	MW-32B-122811-AD	SM 4500-H+B	WET/32862		
60112887004	MW-31B-122811	SM 4500-H+B	WET/32862		
60112887005	MW-15-122811	SM 4500-H+B	WET/32862		
60112887006	MW-15-122811-AD	SM 4500-H+B	WET/32862		
60112887001	MW-34B-122811	SM 4500-S-2 D	WET/32858		
60112887002	MW-32B-122811	SM 4500-S-2 D	WET/32858		
60112887003	MW-32B-122811-AD	SM 4500-S-2 D	WET/32858		
60112887004	MW-31B-122811	SM 4500-S-2 D	WET/32858		
60112887005	MW-15-122811	SM 4500-S-2 D	WET/32858		
60112887006	MW-15-122811-AD	SM 4500-S-2 D	WET/32858		
60112887001	MW-34B-122811	EPA 300.0	WETA/18882		
60112887002	MW-32B-122811	EPA 300.0	WETA/18882		

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112887

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112887003	**MW-32B-122811-AD**	EPA 300.0	WETA/18882		
60112887004	**MW-31B-122811**	EPA 300.0	WETA/18882		
60112887005	**MW-15-122811**	EPA 300.0	WETA/18882		
60112887006	**MW-15-122811-AD**	EPA 300.0	WETA/18882		
60112887001	**MW-34B-122811**	EPA 353.2	WETA/18818		
60112887002	**MW-32B-122811**	EPA 353.2	WETA/18818		
60112887003	**MW-32B-122811-AD**	EPA 353.2	WETA/18818		
60112887004	**MW-31B-122811**	EPA 353.2	WETA/18818		
60112887005	**MW-15-122811**	EPA 353.2	WETA/18818		
60112887006	**MW-15-122811-AD**	EPA 353.2	WETA/18818		
60112887001	**MW-34B-122811**	SM 5310C	WETA/2353		
60112887002	**MW-32B-122811**	SM 5310C	WETA/2353		
60112887003	**MW-32B-122811-AD**	SM 5310C	WETA/2353		
60112887004	**MW-31B-122811**	SM 5310C	WETA/2353		
60112887005	**MW-15-122811**	SM 5310C	WETA/2353		
60112887006	**MW-15-122811-AD**	SM 5310C	WETA/2353		
60112887001	**MW-34B-122811**	SM 4500-CO2 D	WETA/18860		
60112887002	**MW-32B-122811**	SM 4500-CO2 D	WETA/18860		
2887003	**MW-32B-122811-AD**	SM 4500-CO2 D	WETA/18860		
:887004	**MW-31B-122811**	SM 4500-CO2 D	WETA/18860		
60112887005	**MW-15-122811**	SM 4500-CO2 D	WETA/18860		
60112887006	**MW-15-122811-AD**	SM 4500-CO2 D	WETA/18860		

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Keystone LABORATORIES, INC.

06 January 2012

Jamie Slade
Pace Analytical-KS
9608 Loiret Blvd.
Lenexa, KS 66219

RE: PAS Subcontract-JS
60112887

Enclosed are the results of analyses for samples received by the laboratory on 12/30/11 09:50. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-15-122811	11L1419-01	Water	12/28/11 14:17	12/30/11 09:50
MW-15-122811-AD	11L1419-02	Water	12/28/11 14:17	12/30/11 09:50

Client Supplied Containers

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Keystone LABORATORIES, INC.

Pace Analytical-KS
9608 Loiret Blvd.
Lenexa KS, 66219

Project: PAS Subcontract-JS
Project Number: 60112887
Project Manager: Jamie Slade

Reported
01/06/12 17:03

MEMBER ACIL

1IL1419

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 60112887 **Workorder Name:** SOLUTIA GROUNDWATER **Results Requested** 1/6/2012

Report / Invoice To

Jamie Slade
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665
Email: jamie.slade@pacelabs.com

Subcontract To

P.O. SUB-6149

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	8141 Alachlor	LAB USE ONLY
1	MW-15-122811	12/28/2011 14:17	60112887005	Water	1	X	01
2	MW-15-122811-AD	12/28/2011 14:17	60112887006	Water	1	X	02
3							
4							
5							

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] /Pace	12/29/11 1800	[signature]	12/30/11 9:50
2				
3				
4				
5				

Thursday, December 29, 2011 12:13:40 PM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

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Newton, IA 50208
Fax 641-792-7989

Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112887 Project Manager: Jamie Slade	Reported 01/06/12 17:03

MW-15-122811

11L1419-01 (Water)

Date Sampled:12/28/2011 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**1.29**	0.10	ug/l	1	1VA0029	01/03/12	01/06/12 00:45	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*81.1 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112887 Project Manager: Jamie Slade	Reported 01/06/12 17:03

MW-15-122811-AD

11L1419-02 (Water)

Date Sampled:12/28/2011 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Nitrogen/Phosphorus Herbicides & Insecticides									
Alachlor	**1.15**	0.10	ug/l	1	1VA0029	01/03/12	01/06/12 01:25	EPA 8141	
Surrogate: 2-Nitro-m-xylene		*83.2 %*	*42-126*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112887 Project Manager: Jamie Slade	Reported 01/06/12 17:03

Determination of Nitrogen/Phosphorus Herbicides & Insecticides - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1VA0029 - 3510C NP/OC Sep Fnl										
Blank (1VA0029-BLK1)				Prepared: 01/03/12 Analyzed: 01/06/12						
Alachlor	ND	0.10	ug/l							
Surrogate: 2-Nitro-m-xylene	*7.82*		"	*9.82400*		*79.6*	*42-126*			
LCS (1VA0029-BS1)				Prepared: 01/03/12 Analyzed: 01/06/12						
Alachlor	2.710	0.10	ug/l	2.75000		98.5	65-135			
Surrogate: 2-Nitro-m-xylene	*8.18*		"	*9.82400*		*83.3*	*42-126*			
LCS Dup (1VA0029-BSD1)				Prepared: 01/03/12 Analyzed: 01/06/12						
Alachlor	2.795	0.10	ug/l	2.75000		102	65-135	3.09	30	
Surrogate: 2-Nitro-m-xylene	*8.81*		"	*9.82400*		*89.7*	*42-126*			
Reference (1VA0029-SRM1)				Prepared: 01/03/12 Analyzed: 01/05/12						
Alachlor	3.335	0.10	ug/l	2.75000		121	70-130			
Surrogate: 2-Nitro-m-xylene	*11.0*		"	*9.82400*		*112*	*42-126*			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2012
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2012
MO-KC	Missouri Department of Natural Resources	140	04/30/2012
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2012
SIA1X	Iowa Department of Natural Resources	95	02/01/2012

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112887 Project Manager: Jamie Slade	Reported 01/06/12 17:03

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Pace Analytical-KS 9608 Loiret Blvd. Lenexa KS, 66219	Project: PAS Subcontract-JS Project Number: 60112887 Project Manager: Jamie Slade	Reported 01/06/12 17:03

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This analytical report must be reproduced in its entirety.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 12, 2012

Lawrence Rosen
Environmental Operations, Inc.
1530 South Second Street
Suite 200
Saint Louis, MO 63104

RE: Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Dear Lawrence Rosen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Slade

Jamie Slade

jamie.slade@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112937001	**HW-2-122911**	Water	12/29/11 07:50	12/30/11 07:54
60112937002	**MW-2A-122911**	Water	12/29/11 10:12	12/30/11 07:54
60112937003	**MW-2A-122911-AD**	Water	12/29/11 10:12	12/30/11 07:54
60112937004	**MW-2B-122911**	Water	12/29/11 11:42	12/30/11 07:54
60112937005	**TB-122911**	Water	12/29/11 06:00	12/30/11 07:54

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60112937001	HW-2-122911	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP, SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112937002	MW-2A-122911	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP, SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112937003	MW-2A-122911-AD	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP, SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112937004	MW-2B-122911	RSK 175	SK4	3	PASI-M
		EPA 6010	JGP, SMW	2	PASI-K
		EPA 5030B/8260	JDM	22	PASI-K
		SM 2320B	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	CMG	1	PASI-K
		SM 4500-H+B	OL	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	2	PASI-K
		EPA 353.2	LAJ	3	PASI-K
		SM 5310C	TJJ	1	PASI-G
		SM 4500-CO2 D	CMG	1	PASI-K
60112937005	**TB-122911**	EPA 5030B/8260	JDM	22	PASI-K

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: HW-2-122911 **Lab ID: 60112937001** Collected: 12/29/11 07:50 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		01/04/12 15:06	74-84-0	
Ethene	ND	ug/L	10.0	1		01/04/12 15:06	74-85-1	
Methane	ND	ug/L	10.0	1		01/04/12 15:06	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	01/04/12 16:30	01/06/12 12:20	7439-89-6	
Manganese	ND	ug/L	5.0	1	01/04/12 16:30	01/05/12 13:56	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 16:33	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 16:33	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 16:33	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 16:33	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 16:33	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 16:33	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 16:33	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 16:33	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 16:33	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 16:33	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 16:33	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 16:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 16:33	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 16:33	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 16:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 16:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	87-113	1		01/04/12 16:33	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		01/04/12 16:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		01/04/12 16:33	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1		01/04/12 16:33	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 16:33		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		01/06/12 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	5.0	1		01/05/12 12:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/05/12 10:16	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: HW-2-122911 **Lab ID: 60112937001** Collected: 12/29/11 07:50 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		01/07/12 16:40	16887-00-6	
Sulfate	ND	mg/L	1.0	1		01/07/12 16:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/30/11 14:24		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/30/11 14:24		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/30/11 14:24		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/11/12 15:05	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**43.2**	mg/L	20.0	1		01/09/12 13:30	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2A-122911 **Lab ID: 60112937002** Collected: 12/29/11 10:12 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		01/04/12 15:16	74-84-0	
Ethene	ND	ug/L	10.0	1		01/04/12 15:16	74-85-1	
Methane	ND	ug/L	10.0	1		01/04/12 15:16	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**6840**	ug/L	50.0	1	01/04/12 16:30	01/06/12 12:31	7439-89-6	
Manganese	**2600**	ug/L	5.0	1	01/04/12 16:30	01/05/12 15:45	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 16:49	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 16:49	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 16:49	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 16:49	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 16:49	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 16:49	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 16:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 16:49	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 16:49	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 16:49	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 16:49	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 16:49	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 16:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 16:49	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 16:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 16:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 16:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	87-113	1		01/04/12 16:49	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		01/04/12 16:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	82-119	1		01/04/12 16:49	17060-07-0	
Toluene-d8 (S)	105	%	90-110	1		01/04/12 16:49	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 16:49		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**388**	mg/L	20.0	1		01/06/12 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**950**	mg/L	5.0	1		01/05/12 12:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/05/12 10:17	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2A-122911 **Lab ID: 60112937002** Collected: 12/29/11 10:12 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**235**	mg/L	20.0	20		01/07/12 01:35	16887-00-6	
Sulfate	**197**	mg/L	20.0	20		01/07/12 01:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/30/11 14:25		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/30/11 14:25		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/30/11 14:25		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/11/12 16:17	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**496**	mg/L	20.0	1		01/09/12 13:30	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2A-122911-AD **Lab ID: 60112937003** Collected: 12/29/11 10:12 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		01/04/12 15:27	74-84-0	
Ethene	ND	ug/L	10.0	1		01/04/12 15:27	74-85-1	
Methane	ND	ug/L	10.0	1		01/04/12 15:27	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**6540**	ug/L	50.0	1	01/04/12 16:30	01/06/12 12:34	7439-89-6	
Manganese	**2590**	ug/L	5.0	1	01/04/12 16:30	01/05/12 15:48	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 17:04	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 17:04	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 17:04	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 17:04	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 17:04	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 17:04	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:04	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 17:04	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 17:04	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 17:04	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 17:04	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 17:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 17:04	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 17:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 17:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 17:04	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	87-113	1		01/04/12 17:04	460-00-4	
Dibromofluoromethane (S)	102	%	86-112	1		01/04/12 17:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	82-119	1		01/04/12 17:04	17060-07-0	
Toluene-d8 (S)	106	%	90-110	1		01/04/12 17:04	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 17:04		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**388**	mg/L	20.0	1		01/06/12 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**992**	mg/L	5.0	1		01/05/12 12:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/05/12 10:17	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2A-122911-AD **Lab ID: 60112937003** Collected: 12/29/11 10:12 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**220**	mg/L	20.0	20		01/07/12 01:52	16887-00-6	
Sulfate	**187**	mg/L	20.0	20		01/07/12 01:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/30/11 14:27		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/30/11 14:27		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/30/11 14:27		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/11/12 16:35	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**496**	mg/L	20.0	1		01/09/12 13:30	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2B-122911 **Lab ID: 60112937004** Collected: 12/29/11 11:42 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		01/04/12 15:38	74-84-0	
Ethene	ND	ug/L	10.0	1		01/04/12 15:38	74-85-1	
Methane	ND	ug/L	10.0	1		01/04/12 15:38	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	ug/L	50.0	1	01/04/12 16:30	01/06/12 12:38	7439-89-6	
Manganese	**132**	ug/L	5.0	1	01/04/12 16:30	01/05/12 15:50	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 17:20	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 17:20	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 17:20	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 17:20	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 17:20	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 17:20	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:20	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 17:20	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 17:20	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 17:20	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 17:20	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 17:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 17:20	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 17:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 17:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 17:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	87-113	1		01/04/12 17:20	460-00-4	
Dibromofluoromethane (S)	100	%	86-112	1		01/04/12 17:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	82-119	1		01/04/12 17:20	17060-07-0	
Toluene-d8 (S)	104	%	90-110	1		01/04/12 17:20	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 17:20		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**368**	mg/L	20.0	1		01/06/12 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**966**	mg/L	5.0	1		01/05/12 12:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		01/04/12 13:15		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/05/12 10:17	18496-25-8	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: MW-2B-122911 **Lab ID: 60112937004** Collected: 12/29/11 11:42 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**208**	mg/L	20.0	20		01/07/12 02:08	16887-00-6	
Sulfate	**181**	mg/L	20.0	20		01/07/12 02:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/30/11 14:29		
Nitrogen, Nitrite	ND	mg/L	0.10	1		12/30/11 14:29		
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/30/11 14:29		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	0.50	1		01/11/12 16:53	7440-44-0	
Carbon Dioxide Calculation	Analytical Method: SM 4500-CO2 D							
Carbon dioxide	**440**	mg/L	20.0	1		01/09/12 13:30	124-38-9	

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ANALYTICAL RESULTS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Sample: TB-122911 **Lab ID: 60112937005** Collected: 12/29/11 06:00 Received: 12/30/11 07:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/04/12 17:35	67-64-1	
Benzene	ND	ug/L	1.0	1		01/04/12 17:35	71-43-2	
Carbon disulfide	ND	ug/L	5.0	1		01/04/12 17:35	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		01/04/12 17:35	108-90-7	
Chloroform	ND	ug/L	1.0	1		01/04/12 17:35	67-66-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/04/12 17:35	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/04/12 17:35	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/04/12 17:35	100-41-4	
Iodomethane	ND	ug/L	10.0	1		01/04/12 17:35	74-88-4	
Methylene chloride	ND	ug/L	1.0	1		01/04/12 17:35	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/04/12 17:35	127-18-4	
Toluene	ND	ug/L	1.0	1		01/04/12 17:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/04/12 17:35	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		01/04/12 17:35	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/04/12 17:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/04/12 17:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	87-113	1		01/04/12 17:35	460-00-4	
Dibromofluoromethane (S)	103	%	86-112	1		01/04/12 17:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	82-119	1		01/04/12 17:35	17060-07-0	
Toluene-d8 (S)	103	%	90-110	1		01/04/12 17:35	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/04/12 17:35		

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: AIR/13961 — Analysis Method: RSK 175
QC Batch Method: RSK 175 — Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 1123620 — Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	01/04/12 13:30	
Ethene	ug/L	ND	10.0	01/04/12 13:30	
Methane	ug/L	ND	10.0	01/04/12 13:30	

LABORATORY CONTROL SAMPLE & LCSD: 1123621 1123622

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	120	113	105	99	70-130	6	30	
Ethene	ug/L	106	111	106	105	100	70-130	5	30	
Methane	ug/L	60.7	62.6	61.1	103	101	70-130	2	30	

RIX SPIKE & MATRIX SPIKE DUPLICATE: 1123978 1123979

Parameter	Units	60113006005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	108	114	107	106	99	94	30-150	.6	30	
Ethene	ug/L	ND	101	106	99.4	100	98	94	30-150	.8	30	
Methane	ug/L	128	57.8	60.7	137	184	16	92	30-150	29	30	M0

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: MPRP/16651 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 934832 Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	01/06/12 11:30	
Manganese	ug/L	ND	5.0	01/05/12 13:25	

LABORATORY CONTROL SAMPLE: 934833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9410	94	80-120	
Manganese	ug/L	1000	951	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934834 934835

Parameter	Units	60112937001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua.
Iron	ug/L	ND	10000	10000	9100	9090	91	91	75-125	0	20	
Manganese	ug/L	ND	1000	1000	922	935	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: MSV/42871 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004, 60112937005

METHOD BLANK: 934877 Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004, 60112937005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/04/12 15:32	
1,2-Dichloroethane	ug/L	ND	1.0	01/04/12 15:32	
Acetone	ug/L	ND	10.0	01/04/12 15:32	
Benzene	ug/L	ND	1.0	01/04/12 15:32	
Carbon disulfide	ug/L	ND	5.0	01/04/12 15:32	
Chlorobenzene	ug/L	ND	1.0	01/04/12 15:32	
Chloroform	ug/L	ND	1.0	01/04/12 15:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/04/12 15:32	
Ethylbenzene	ug/L	ND	1.0	01/04/12 15:32	
Iodomethane	ug/L	ND	10.0	01/04/12 15:32	
Methylene chloride	ug/L	ND	1.0	01/04/12 15:32	
Tetrachloroethene	ug/L	ND	1.0	01/04/12 15:32	
Toluene	ug/L	ND	1.0	01/04/12 15:32	
-1,2-Dichloroethene	ug/L	ND	1.0	01/04/12 15:32	
loroethene	ug/L	ND	1.0	01/04/12 15:32	
Vinyl chloride	ug/L	ND	1.0	01/04/12 15:32	
Xylene (Total)	ug/L	ND	3.0	01/04/12 15:32	
1,2-Dichloroethane-d4 (S)	%	111	82-119	01/04/12 15:32	
4-Bromofluorobenzene (S)	%	96	87-113	01/04/12 15:32	
Dibromofluoromethane (S)	%	107	86-112	01/04/12 15:32	
Toluene-d8 (S)	%	101	90-110	01/04/12 15:32	

LABORATORY CONTROL SAMPLE: 934878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	82-119	
1,2-Dichloroethane	ug/L	20	19.1	96	77-125	
Acetone	ug/L	100	61.3	61	18-192	
Benzene	ug/L	20	18.2	91	82-117	
Carbon disulfide	ug/L	20	22.4	112	75-138	
Chlorobenzene	ug/L	20	20.3	102	83-121	
Chloroform	ug/L	20	18.5	93	82-116	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	80-119	
Ethylbenzene	ug/L	20	19.9	99	79-121	
Iodomethane	ug/L	20	9.7J	48	14-169	
Methylene chloride	ug/L	20	20.5	103	75-118	
Tetrachloroethene	ug/L	20	21.9	110	80-124	
Toluene	ug/L	20	18.9	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	79-120	
Trichloroethene	ug/L	20	17.0	85	76-122	
chloride	ug/L	20	19.7	99	57-163	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

LABORATORY CONTROL SAMPLE: 934878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	58.8	98	75-120	
1,2-Dichloroethane-d4 (S)	%			106	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			101	90-110	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WET/32930 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 935584 Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	01/06/12 13:00	

LABORATORY CONTROL SAMPLE: 935585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	516	103	90-110	

SAMPLE DUPLICATE: 935586

Parameter	Units	60112943001 Result	Dup Result	RPD	Max RPD	Qualifiers
linity, Total as CaCO3	mg/L	620	625	1	9	

SAMPLE DUPLICATE: 935587

Parameter	Units	60112918001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	130	128	2	9	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WET/32922 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 935298 | Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	01/05/12 12:42	

SAMPLE DUPLICATE: 935299

Parameter	Units	60112937001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WET/32910 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

SAMPLE DUPLICATE: 934891

Parameter	Units	60112608002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WET/32913 — Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D — Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 935035 — Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	01/05/12 10:12	

LABORATORY CONTROL SAMPLE: 935036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	107	80-120	

MATRIX SPIKE SAMPLE: 935037

Parameter	Units	60112937001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.60	121	75-125	

SAMPLE DUPLICATE: 935038

Parameter	Units	60112937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WETA/18875 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 936097 — Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/06/12 11:46	
Sulfate	mg/L	ND	1.0	01/06/12 11:46	

METHOD BLANK: 936650 — Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/07/12 10:19	
Sulfate	mg/L	ND	1.0	01/07/12 10:19	

LABORATORY CONTROL SAMPLE: 936098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 936651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 936099 936100

Parameter	Units	60112750001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.5	10	10	34.4	33.6	109	101	64-118	2	12	
Sulfate	mg/L	4440	2500	2500	6610	6810	87	95	61-119	3	10	

MATRIX SPIKE SAMPLE: 936101

Parameter	Units	60112546002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.6	10	14.0	94	64-118	
Sulfate	mg/L	126	50	166	79	61-119	M0

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WETA/18827 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 933633 Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/30/11 14:21	
Nitrogen, Nitrite	mg/L	ND	0.10	12/30/11 14:21	
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/30/11 14:21	

LABORATORY CONTROL SAMPLE: 933634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	106	90-110	
Nitrogen, Nitrite	mg/L	.4	0.41	103	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 933635

Parameter	Units	60112890003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	128	32	190	192	90-110	M0
Nitrogen, Nitrite	mg/L	ND	8	13.3	144	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	130	40	203	182	90-110	M0

MATRIX SPIKE SAMPLE: 933637

Parameter	Units	60112938006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	4.7	1.6	6.2	97	90-110	
Nitrogen, Nitrite	mg/L	ND	.4	0.45	112	90-110	M0
Nitrogen, NO2 plus NO3	mg/L	4.7	2	6.7	100	90-110	

SAMPLE DUPLICATE: 933636

Parameter	Units	60112937002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		15	
Nitrogen, Nitrite	mg/L	ND	ND		31	
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

QC Batch: WETA/11022 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

METHOD BLANK: 554254 Matrix: Water
Associated Lab Samples: 60112937001, 60112937002, 60112937003, 60112937004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	01/11/12 12:40	

LABORATORY CONTROL SAMPLE: 554255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.7	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 554256 554257

Parameter	Units	60112546001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Organic Carbon	mg/L	3.5	7.5	7.5	12.8	12.9	124	125	80-120	.7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 554258 554259

Parameter	Units	60112937001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	2.5	2.5	2.6	2.7	100	101	80-120	1	20	

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QUALIFIERS

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSV/42871

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

H6	Analysis initiated more than 15 minutes after sample collection.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112937001	HW-2-122911	RSK 175	AIR/13961		
60112937002	MW-2A-122911	RSK 175	AIR/13961		
60112937003	MW-2A-122911-AD	RSK 175	AIR/13961		
60112937004	MW-2B-122911	RSK 175	AIR/13961		
60112937001	HW-2-122911	EPA 3010	MPRP/16651	EPA 6010	ICP/14321
60112937002	MW-2A-122911	EPA 3010	MPRP/16651	EPA 6010	ICP/14321
60112937003	MW-2A-122911-AD	EPA 3010	MPRP/16651	EPA 6010	ICP/14321
60112937004	MW-2B-122911	EPA 3010	MPRP/16651	EPA 6010	ICP/14321
60112937001	HW-2-122911	EPA 5030B/8260	MSV/42871		
60112937002	MW-2A-122911	EPA 5030B/8260	MSV/42871		
60112937003	MW-2A-122911-AD	EPA 5030B/8260	MSV/42871		
60112937004	MW-2B-122911	EPA 5030B/8260	MSV/42871		
60112937005	TB-122911	EPA 5030B/8260	MSV/42871		
60112937001	HW-2-122911	SM 2320B	WET/32930		
60112937002	MW-2A-122911	SM 2320B	WET/32930		
60112937003	MW-2A-122911-AD	SM 2320B	WET/32930		
60112937004	MW-2B-122911	SM 2320B	WET/32930		
60112937001	HW-2-122911	SM 2540C	WET/32922		
?937002	MW-2A-122911	SM 2540C	WET/32922		
2937003	MW-2A-122911-AD	SM 2540C	WET/32922		
60112937004	MW-2B-122911	SM 2540C	WET/32922		
60112937001	HW-2-122911	SM 4500-H+B	WET/32910		
60112937002	MW-2A-122911	SM 4500-H+B	WET/32910		
60112937003	MW-2A-122911-AD	SM 4500-H+B	WET/32910		
60112937004	MW-2B-122911	SM 4500-H+B	WET/32910		
60112937001	HW-2-122911	SM 4500-S-2 D	WET/32913		
60112937002	MW-2A-122911	SM 4500-S-2 D	WET/32913		
60112937003	MW-2A-122911-AD	SM 4500-S-2 D	WET/32913		
60112937004	MW-2B-122911	SM 4500-S-2 D	WET/32913		
60112937001	HW-2-122911	EPA 300.0	WETA/18875		
60112937002	MW-2A-122911	EPA 300.0	WETA/18875		
60112937003	MW-2A-122911-AD	EPA 300.0	WETA/18875		
60112937004	MW-2B-122911	EPA 300.0	WETA/18875		
60112937001	HW-2-122911	EPA 353.2	WETA/18827		
60112937002	MW-2A-122911	EPA 353.2	WETA/18827		
60112937003	MW-2A-122911-AD	EPA 353.2	WETA/18827		
60112937004	MW-2B-122911	EPA 353.2	WETA/18827		
60112937001	HW-2-122911	SM 5310C	WETA/11022		
60112937002	MW-2A-122911	SM 5310C	WETA/11022		
60112937003	MW-2A-122911-AD	SM 5310C	WETA/11022		
60112937004	MW-2B-122911	SM 5310C	WETA/11022		
60112937001	HW-2-122911	SM 4500-CO2 D	WETA/18890		
60112937002	MW-2A-122911	SM 4500-CO2 D	WETA/18890		
?937003	MW-2A-122911-AD	SM 4500-CO2 D	WETA/18890		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOLUTIA GROUNDWATER
Pace Project No.: 60112937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112937004	**MW-2B-122911**	SM 4500-CO2 D	WETA/18890		

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Janine Slade

1/4/12